REPORT

on

McMILLAN PROPERTY

WATSON LAKE AREA

YUKON TERRITORY

by

J.J. Crowhurst, B.A.Sc., P. Eng.

Vancouver, B.C. June 27, 1969

DD-3

DEC 23 1968

DDH. 90: 400 Ft.

DDH E4. 300 Ft

M 29 70463	M 27 70461	M 25 70459	M 23 70457	M 31 70645
M 30 70464	M 28 70462	M 26 70460	M 24 70458	M 32 70646
	M 33 70647	M 34 70648		
	M 35 70649	M 36 70650		
	M 37 70651	M 38 70652		

Sketch Map Showing
DDH Locations on
M C M-25 70459
Quartz Lake Area
Watson Lake M.D.
Sheet 95D-5
1" = 1500 ft.
July, 1968

S. I. B.
AUG 30 1952

American Smelting and Refining Company
Western Mining Department
108 Birks Bldg., 718 Granville Street
Vancouver 2, B. C. August 29th 1952

Mr. Keith Whiting, Exploration Engineer,
American Smelting and Refining Company,
600 Pacific National Life Building,
SALT LAKE CITY 1, Utah, U.S.A.

YUKON TERRITORY
WHITEHORSE M.D.
WATSON LAKE DISTRICT
McMILLAN OPTION

Dear Sir:

Enclosed herewith is a copy of assay results on sludge samples taken from holes numbers 17, 18, 19 and 20. Would you please enter these results on your copies of the logs for these holes.

Thank you.

Sincerely,

A.O. Hall

A. O. Hall

mg

P.S. Also enclosed is a copy of an article on "Exploration, Development and Production Practices at United Keno Hill Mines Limited", by H. Brodie Hicks.

S.I.B
Please enter on log 8-27-52 KW

J. F. J.
AUG 27 1952

S. I. B
AUG 11 1952

American Smelting and Refining Company
Western Mining Department
108 Birks Buldg., 718 Granville Street
Vancouver 2, B. C. August 8th 1952

Mr. Keith Whiting, Exploration Engineer,
American Smelting and Refining Company,
600 Pacific National Life Building,
Salt Lake City 1, Utah, U.S.A.

Dear Sir:

YUKON TERRITORY
WHITEHORSE M.D.
WATSON LAKE DISTRICT
McMILLAN OPTION

Enclosed herewith is a copy of drill hole #21 assay results. Would you kindly enter these results on your copy of the drill log for hole #21?

Thank you.

entered

S.I.B
AUG 26 1952

E. M. Greenaway

E. M. Greenaway

mg
Enc.

KW

W.W. AUG 21 1952
SEP 3

File No. 107245/248

Sheet No.

J.R. WILLIAMS & SON

PROVINCIAL ASSAYERS

580 NELSON STREET

PHONE: MARINE 5821

VANCOUVER 2, B. C., August 7th. 1952.

RESULTS of Assays made on samples of ore submitted by: Messrs. American Smelting & Refining Co.

MARK	Silver Ozs.p/t	Lead %	Zinc %				
No. 7742	0.70	0.32	0.15				
7743	0.30	0.48	trace				
7744	0.50	0.65	0.65				
7745	0.20	0.55	1.10				

Assays made by

J.R. Williams

FILE No. 108177/193.

SHEET No.

J.R. WILLIAMS & SON

PROVINCIAL ASSAYERS

580 NELSON STREET

PHONE: MARINE 58

VANCOUVER 2, B. C., August 25th. 1952.

RESULTS of Assays made on samples of ore submitted by: Messrs. American Smelting & Refining

MARK SLUDGE	LEAD %	ZINC %					
17 No.5301.	3.90	9.60					
17 5302.	1.95	4.60					
17 5303.	1.62	2.50					
17 5304.	0.86	1.80					
17 5305.	0.35	1.30					
17 5306.	0.25	0.60					
17 5307.	0.50	1.15					
17 5308.	0.70	0.50					
17 5309.	1.10	1.70					
17 5310.	0.55	1.20					
18 5341.	6.30	8.70					
19 7709.	1.40	4.00					
19 7710.	2.40	7.50					
19 7711.	0.60	1.65					
20 7738.	1.15	3.50					
20 7739.	1.40	3.50					
20 7740.	0.95	2.70					

all sludge assays posted on one log copies

Assays made by

B. Williams

HOLE NUMBER 20

Sample No.	Intercept Ft.	ASSAY Silver Oz.	ASSAY Lead %	ASSAY Zinc %	PRODUCTS Silver Oz.	PRODUCTS Lead %	PRODUCTS Zinc %
7717	1.3	0.40	1.10	7.20	.52	1.43	9.36
7718	4.4	0.80	2.16	5.50	3.52	9.50	24.20
7719	3.0	0.55	2.20	5.20	1.65	6.60	15.60
7720	5.3	0.95	2.30	24.10	5.03	12.19	127.73
7721	2.5	0.65	1.29	2.50	1.62	3.22	6.25
7722	1.3	0.50	0.43	0.25	.65	.56	.32
7723	4.5	1.20	1.51	8.00	5.40	6.79	36.00
7724	4.2	0.65	1.18	4.00	2.73	4.95	16.80
7725	5.0	0.50	1.18	4.10	2.50	5.90	20.50
7726	3.8	0.65	1.40	3.90	2.47	5.32	14.82
	35.3				26.09	56.46	271.58
	Weighted Average				.7	1.6	7.7
							9.3

S. I. P.

AUG 26 1952

HOLE NUMBER 22

Sample No.	Intercept Ft.	ASSAY Silver Oz.	Lead %	Zinc %	PRODUCTS Silver Oz.	Lead %	Zinc %
7756	4.5	1.50	3.45	7.30	6.75	15.52	32.85
7757	2.3	0.90	1.83	8.50	2.07	4.20	19.55
7758	2.1	2.10	3.13	19.00	4.41	6.57	39.90
7759	2.0	3.35	6.58	14.30	6.70	13.16	28.60
7760	1.8	1.05	2.26	12.50	1.89	4.06	22.50
7761	2.6	3.45	3.78	2.00	8.97	9.82	5.20
7762	2.1	0.70	1.18	3.00	1.47	2.47	6.30
7763	5.2	0.80	1.40	4.80	4.16	7.28	24.96
	22.6				36.42	63.08	179.86
	+ 2.3						
	24.9	Weighted Average			1.61	2.79	7.95

10.74

DD-3 57558

ASARCO

TELEPHONE 684-1274

AMERICAN SMELTING AND REFINING COMPANY

CANADIAN EXPLORATION DIVISION

T. C. OSBORNE
SUPERVISOR

ROOM 504 - 535 THURLOW STREET
VANCOUVER 5, B.C.

23 Jan/69

Mr. J.A.C. McKenzie, Mining Recorder,
Box 269,
Watson Lake, Y.T.

Attention: Mr. R.L. Williams
Re: South Nahanni, Dorothy, M Mineral Claims
(McMillan Property)

Dear Sir:

In reply to your letter of the 20th instant, enclosed please find drilling and flying invoices for the Quartz Lake drilling program for a total of $ 52,441.30. We completed 3,404 feet of drilling, which gives a cost per foot of $ 15.41 per foot. Not included are salaries of the Asarco crew, which totalled $ 6,845.91, for a grand total of expenditures of $ 59,287.21. The cost of drilling, therefore, was $ 17.39 per foot. We have not submitted time sheets for Asarco salaries, but will forward these if required.

Also, in duplicate, are drill logs for holes completed in 1968.

The core is stored in a plywood shack located at our old campsite about one mile due south of Quartz Lake. A tractor road runs from Quartz Lake to the campsite and core storage.

We hope the above information and attached invoices are what you require.

Yours very truly,

John DeLeen.

JD:sm
Encls

1968 - 95-D-5

SOUTH NAHANNI 23 57564
M 25 70459

091083

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TERMS OF REFERENCE

At a meeting held between Mr. R.W. Wilson, President, Mr. A.C. Ritchie, Vice President, of Silver Standard Mines Ltd., and Mr. J.J. Crowhurst of Bacon & Crowhurst Ltd. held in Vancouver on May 29th, 1969, (subsequent to telephone conversations between Messrs H. Gilleland of Silver Standard, and Dr. W.R. Bacon), the scope and terms of reference of this report were discussed.

It is to be noted that no representative of Bacon & Crowhurst visited the property and that the basic information contained in this report was obtained from a study of various reports maps and letters submitted by American Smelting and Refining.

It was understood that the study was to be of a very broad and preliminary nature only, and that consequently, several assumptions, considered to be reasonable or attainable, would of necessity be made.

Some of the more important ones that have formed the basis for this report are as follows:

(1.) Mineral Claims

Only that block of claims owned by the Liard River Mining Company, which cover the showings and mineralization known as the "McMillan Project" are to be considered.

(2.) Ore Reserves

All diamond drill hole results as submitted by American Smelting and Refining have been accepted without check. Similarly, topography, and the scanty mineralogical and metallurgical information has been assumed to be as presented.

(3.) Rate of Production

1,000 short tons of ore per calendar day, or 350,000 short tons of ore per year - i. e mine the orebody, or orebodies, out rapidly on a salvage basis.

(4.) Metallurgical Performance

The assumption is to be made that no great difficulties exist, by reason of the fine grained nature of the mineralization and the heavy pyrite content and that reasonably good average mill performance can therefore be anticipated.

(5.) Metal Prices are to be as Per Current Figures

Lead	15.000¢	per lb.
Zinc-Prime Western	14.500¢	per lb.
Silver	$1.90	Canadian

(6.) Adequate Water Supply

For a concentrating plant and camp requirements - available at reasonable installation cost from Quartz (Mine) Creek and/or Pyrite Creek, or nearby lakes.

(7.) Mining Methods

Open pit methods would be used on a 9 month basis, with a stock pile established to supply the concentrator for the other 3 months (January to March inclusive) in each year. No investigation has been conducted regarding underground trackless mining, (or a combination of open pit and subsequent trackless mining for those areas where waste to ore ratios are higher.) These alternatives should be considered.

It is assumed in the case of open pit mining that a contract would be given to a reputable firm to avoid equipment purchase, and that Quartz Creek can be diverted by means of a tunnel. No mining contractors have been contacted, and costs used (including stockpiling and reclaiming) are based on judgment.

(8.) Access

Via a 50 mile gravel road to be constructed from the Alaska Highway to the property; (as per comments made in reports by Olson and Coveney.) Sufficient accommodation of a temporary nature would be erected to house the mill crew and a small camp labour force and office and supervisory personnel. It is assumed the mining contractor will provide accommodation for his crew.

(9.) Concentrate Sales

It is assumed that the best alternative would consist of transporting concentrate by trucks in bulk or in cheap disposable containers to the White Pass Railway at Carcross for furtherance to Skagway. Deep sea ocean freighters would then take delivery for shipment to smelters (probably Japanese) under competitive sales arrangements.

SCOPE OF THE REPORT

The scope of this report, in the absence of a personal examination of the property, is to cover appraisal of ore reserve estimates, and possible mining and milling methods, together with approximate estimates regarding capital (preproduction) costs, including warehouse inventory and working capital, operating costs, net smelter returns and operating profit.

It is to be noted that Bacon & Crowhurst have not investigated, nor does this report cover, the following:

(a) Ownership of the mineral claims
(b) Financing arrangements and related costs
(c) Dominion, Provincial, or local taxation
(d) Royalty (or other) payments to American Smelting and Refining, or others.
(e) Cash flow - other than operating profit.

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No investigation has been conducted concerning the advantages of extracting the higher grade (and perhaps lower strip-ratio) parts of the mineralised areas during the initial stages of production. It is felt that this procedure would be of substantial benefit, but can only be determined with accuracy after further diamond drilling and other results are available.

Neither have the possibilities of enhancing the financial picture by variations in the treatment rate, (say 500 to 750 T.P.D. for example) been investigated.

SUMMARY AND FINANCIAL

Probable ore reserves are estimated to be approximately 1,225,000 tons assaying 1.64 ounces of silver per ton, 4.27% lead and 9.00% zinc, after allowing for mining dilution calculated at 10% with zero grade.

It is estimated a total investment of $5,714,000 (including inventory of supplies and working capital) will be required to complete the necessary exploration, to prepare the open pit for production by the removal of 500,000 tons of overburden and 250,000 tons of waste rock, and to construct a concentrator together with the related facilities required to process 1,000 tons of ore per day. (350,000 tons per year)

A period of 3½ years operation is indicated at this treatment rate.

The sum of $120,000 representing inventory of supplies, and the sum of $975,000 representing 2½ months operating costs for working capital is included in the $5,714,000 total. The net expenditure is therefore estimated at $4,619,000, after a 10% contingency allowance has been applied to the basic figure.

Operating costs are estimated at $13.37 per ton milled.

With metal prices calculated at $1.90/ounce of silver, 15.00¢/lb. for lead and 14.50¢/lb. for zinc, operating profit, before write off for depletion or depreciation, interest, financing charges, royalties or taxation is estimated to be $2,182,000 per year, or a total of $7,637,000 for the 3½ years of operation contemplated.

ESTIMATED CAPITAL COST

(1.) Exploration		
Stage 1 - diamond drilling	$ 50,000	
Stage 2 - diamond drilling and/or adits.	150,000	$ 200,000
(2.) Mining		
Water diversion tunnel - 980'@$100/ ft.equiv.	98,000	
Preproduction waste (250,000 tons) and overburden stripping (500,000 tons) plus road access - say 750,000 tons @60¢/ton (contracted)	450,000	
Equipment - (bought by mining company)	30,000	578,000
(3.) Crushing Plant, Concentrator - (incl. tailings disposal)		
New Cost*	1,905,000	
Less 1/3 of $521,000 (equipment cost)	174,000	1,731,000
(4.) Water Supply		30,000
(5.) Power		
Diesel generators - (connected HP-1500-continuous KW-753) plus installation, distribution, powerhouse and fuel storage.		400,000
(6.) Plant Services		
Office, warehouses, water, electrical and steam distribution, mobile equipment, etc.		260,000
(7.) Communication		20,000
(8.) Camp Buildings and Housing		300,000

*Taken from another Bacon and Crowhurst study.

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(9.) **Administration**

12 months @ $40,000/ month	$ 480,000
Sub Total	3,999,000
Contingencies @10%	400,000
TOTAL	4,399,000
Engineering @5%	220,000
Sub Total	4,619,000
Inventory of supplies	120,000
Working capital=2½ months operating cost or 2½ x 390,000 - say	975,000
TOTAL	5,714,000

METALLURGY

Ore fed to process - Assay - 1.64 ozs. Ag/ton
4.27 % Pb
9.00 % Zn

Ore fed to process = 350,000 T.P.Y.

It is assumed that 87% of the lead is recovered in a 68% lead concentrate, and 82% of the zinc is recovered in a 54% zinc concentrate, and that the addition of 8% to the dry weight of concentrates covers a moisture content of 6% and the weight of containers.

(a) $\frac{\text{Tons of lead recovered/year}}{100} = \frac{350,000 \times 4.27 \times 87\%}{100} = 13,002$ tons

or, $\frac{13,002 \times 100}{68} = 19,121$ dry tons of lead concentrate/year (20,651 wet tons of lead concentrate/year).

(b) $\frac{\text{Tons of zinc recovered/year}}{100} = \frac{350,000 \times 9.00 \times 82\%}{100} = 25,830$ tons

or, $\frac{25,830 \times 100}{54} = 47,833$ dry tons of zinc concentrate/year (51,660 wet tons of zinc concentrate/year).

Wet weight of concentrates to be transported:

Lead	20,651
Zinc	51,660
Total	72,311

Silver Credit - Per ton of ore milled:

Ore content fed to concentrator - 1.64 ozs. Ag/ton ore
Mill recovery assumed @ 85% or 1.394 ozs. Ag/ton ore.
Silver paid for = 1.394 x 95%= 1.324 Ag/ton ore.
Silver credit = 1.324 x $1.87 = $2.48 per ton ore.

ESTIMATED NET SMELTER RETURNS

Assumptions

Grade of lead concentrate - 68% Pb + 5-7% Zn.
Grade of Zinc concentrate - 54% Zn + 2-3% Pb.
Moisture content - equiv. of 8%.

Net Realised Price -(Canadian)

Lead = 15.00 ¢ - 5.00¢ to allow for smelting, and refining and ocean freight = 10.00¢ per lb.
Zinc = 14.50¢ - 7.00¢ to allow for smelting refining and ocean freight = 7.50¢ per lb.
Silver = $1.90 - 0.03 to allow for refining or $1.87 per ounce.
Gold = nil.

Net Value

(1.) Per short dry ton of concentrate, as at Skagway, Alaska.

(a) Lead Concentrate

Lead contained	1360#	
Lead paid for =	1360 x 95%=1292#	
Lead value =	1292 x 10¢= $129.20	
Zinc content = 120#		
Zinc paid for = 60#		
Zinc value = 60# x 7.50¢	=	4.50
Total Net Value		$133.70 p.s.d.t.of conc.

(b) Zinc concentrate

Zinc contained =	1080#	
Zinc paid for =	1080x85%= 918#	
Zinc value = 918# x 7.50¢ =		$68.85
Lead content =	50#	
Lead paid for =	30#	
Lead Value = 30#x 10.00¢ =		3.00
		$71.85 p.s.d.t.conc.

	$Can/year
Lead concentrate = 19,121x $133.70 =	2,556,478
Zinc concentrate = 47,833 x 71.85 =	3,436,801
Silver credit = 2.48 x 350,000 TPY =	868,000
Total Net Smelter Return	6,861,279

(2.) Per Ton of Ore - Calculated approximately, as at Skagway, Alaska.

	Per Ton of Ore
Lead content paid for:	
4.27% x 20# = 85.40 x 90% recovery x 95% =	73.0#
Zinc content paid for:	
9.00% x 20# = 180# x 84% recovery x 85% =	128.5#

Value of lead =73.0# x 10¢/lb.	= $ 7.30
Value of zinc = 128.5# x 7.5¢/lb.	= 9.64
Value of silver	= 2.48
	19.42

Total net smelter returns = 350,000 x 19.42 = $6,800,000 per year.

ESTIMATED OPERATING COST - 350,000 tons/yr.

	Amt./yr.	Per ton mille
Mining		
350,000 tons of ore @ 70¢/ton	245,000	
571,000 tons* of waste @ 60¢/ton	342,600	
376,000 tons* of overburden @ 50¢/ton	188,000	
	$ 775,600	$ 2.216
Milling		
	612,500	1.750
Plant Services and Townsite @ 30,000/month	360,000	1.029
Freight to Skagway		
Concentrate freight to Skagway - 72,311 TPY x 25/ton	1,807,775	5.165
Inbound freight - 2,000 TPY x $100/ton ex Vancouver, B.C.	200,000	0.571
Power		
Approximately 6,600,000 KW hr/yr. x 3.00¢/KWhr.	198,000	0.566
Mine Administration and Head Office		
@ $25,000/month	300,000	0.857
Total	4,253,875	12.154
Contingencies @10%	425,387	1.215
	$ 4,679,262	$ 13.369

Cost per month = $\frac{4,679,262}{12}$ = 390,000 approx.

*Assuming that waste and overburden remaining after preproduction is removed about evenly over the 3.5 years of life related to the Known ore.

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ESTIMATED OPERATING PROFIT

Note - before financing charges, taxes and write offs re depreciation and depletion.

	Per year
Revenue	$6,861,000
Operating Costs	4,679,000
Operating Profit	$2,182,000

Total indicated operating profit for life of ore reserves = 2,182,000 x 315 years
$7,637,000

Less initial capital investment	4,619,000
Net	$3,018,000

Note: Net figure is before interest on borrowed money, financing charges, taxation and writeoffs.

LOCATION AND ACCESS

The property is located at an approximate elevation of 3,000 to 4,000 feet above sea level in the Whitehorse Mining Division of the Yukon Territory, Canada. It is in the southeast corner of the Yukon at 60°31' North Latitude and 127°55' West Longitude, on the divide between the Hyland River and the Coal River. It is about 36 miles north of Mile 595 on the Alaska Highway.

Watson Lake, Y.T., Alaska Highway Mile 633, which is situated 40 miles southwest from the property is serviced by Canadian Pacific Airlines five times a week and is the centre for the district.

It is reported by Olson & Coveney that a suitable road route about 50 miles in length may be established from Mile 606 on the Highway to the property. This would follow along the east side of the Hyland River for a large part of the way, on jack pine covered ridges probably underlain by gravel benches. It is believed prt of this road may already have been constructed by other prospecting parties.

A small lake, the centre one of three, to the east of the showings

The mineralization of interest consists of pyrite, galena and sphalerite occurring as replacement deposits principally in the top and bottom of the limestone beds.

[illegible] CROWHURST [illegible]

The approximate content is given as pyrite 46%, sphalerite 15% and galena 6%. It appears to be concentrated along a northeast trending trough in the east limb of the anticline.

An excerpt from a report dated 6th March, 1951 by Mr. Arthur O. Hall, geological engineer - American Smelting and Refining reads in part - 'The area within a radius of 70 miles of the property is reported to be underlain by sediments ranging in age from Pre Cambrian to Cenozoic. Of the area, perhaps 90% is made up of shales, argillites, quartzites, limestones of Devonian and Carboniferous periods, the balance being small windows of Cambrian and Pre Cambrian sediments. Igneous rocks, if any, are unknown."

Quoting H.T. Cox, letter to J.E. Berg - 11th of January, 1954, "The ore deposit is an elongate, gently dipping run about 250' in average width, (maximum 500') nearly 2,000' in length, and from 5' to 80' in thickness. Extensions of the run are believed likely. Other parallel runs may be inferred from geologic evidence."

Again - "From the 1953 work, the structural setting of the McMillan deposit appears to be complex and it should not be considered as a flat lying manto or tri-state type orebody."

There is some question as to whether the favourable limestone horizon (or horizons) has been truncated by erosion toward the southwest. To the northeast the horizon appears to persist, although to date no mineralization comparable to that already found has been discovered. C. Coveney in his report dated 23, November, 1954 states that the absence of other ore shoots to the south has not been conclusively proved, however, and that the ore zone at the north end is terminated by faulting. Some disagreement therefore exists.

ORE RESERVES

Various estimates of ore reserves have been made, some of which are tabulated below:

ENGINEER	YEAR	TONS	OZS. AG/ TON	PB%	ZN%	METHOD
-	1953	-	2.10	5.2	10.0	Averaging drill hole assays.
Hall	1954	936,000	1.80	4.7	10.00	Weighting polygons
Cox	1954	1,079,000	-	-	-	Weighting polygons
Coveney	1954	1,000,000	1.83	4.70	9.97	
Hall and Coveney	1954	935,581	1.80	4.70	9.90	Weighted cross sections and tonnages
Hall and Coveney	1954	935,581	2.09	5.21	9.91	Averge weighted drill hole grades

An extremely quick approximate open pit layout and subsequent calculations by Bacon & Crowhurst (excluding 16 + 00 N mineralization) confirmed these tonnage figures. No attempt was made to calculate the average grade of contained metals. The results are as follows:

Tons of ore in place - 1,114,000 (factor 10 cu.ft/ton)
Tons of overlying waste rock - 2,248,000 (factor 12 cu.ft/ton
Tons of overlying overburden - 1,315,000 (factor 13 cu.ft/ton

This strip ratio corresponds approximately with an estimate previously made by American smelting in 1952 as follows:

Tons of ore in place - 600,000
Tons of overburden - 850,000
Tons of waste rock - 1,650,000

Prints of the surface plan and sections showing A.S. and R. ore outlines in red, and Bacon & Crowhurst assumed open pit outlines in purple are attached to this report.

LIST OF ILLUSTRATIONS

Surface Plan	In Pocket
Sections:	
0 + 55 N	
1 + 33 N	
2 + 00 N	
4 + 00 N	
6 + 00 N	
8 + 00 N	
9 + 00 N	At Back of Report
10 + 00 N	
11 + 00 N	
12 + 00 N	
13 + 00 N	
15 + 50 N	
16 + 00 N	
0 + 00 N	

DH 43

DH 14

DH 4

El 500'

El 500'

Diversion Tunnel

7358 & 7359

9991

9992

El 400'

El 400'

17.3'-5.01% Combined Pb+Zn, 0.52 oz Ag

El 300'

El. 300'

El 200'

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VANCOUVER BRITISH COLUMBIA

McMILLAN OPTION

WATSON LAKE DISTRICT, YUKON TERRITORY

SECTION 0+00N

(LOOKING NORTH)

SCALE

FEET 40 0 40 80 FEET

FROM PLANS BY ASARCO JUNE, 963

ATAH JUNE, 963

El 500'

El 400'

El 300'

E 200

Diversion Tunnel

D.H.4

D.H.3

D.H.7

8.1' - 16.2 % Combined Pb + Zn
1.81 oz Ag

8320-8321

16'

Mainly
q'tz

Sludge 17.3' - 5.07% Combined Pb + Zn, 0.52 oz Ag
(No core samples
taken)

El 500'

El 400'

El. 300'

BACON & CROWHURST LTD
VANCOUVER BRITISH COLUMBIA

McMILLAN OPTION

WATSON LAKE DISTRICT, YUKON TERRITORY

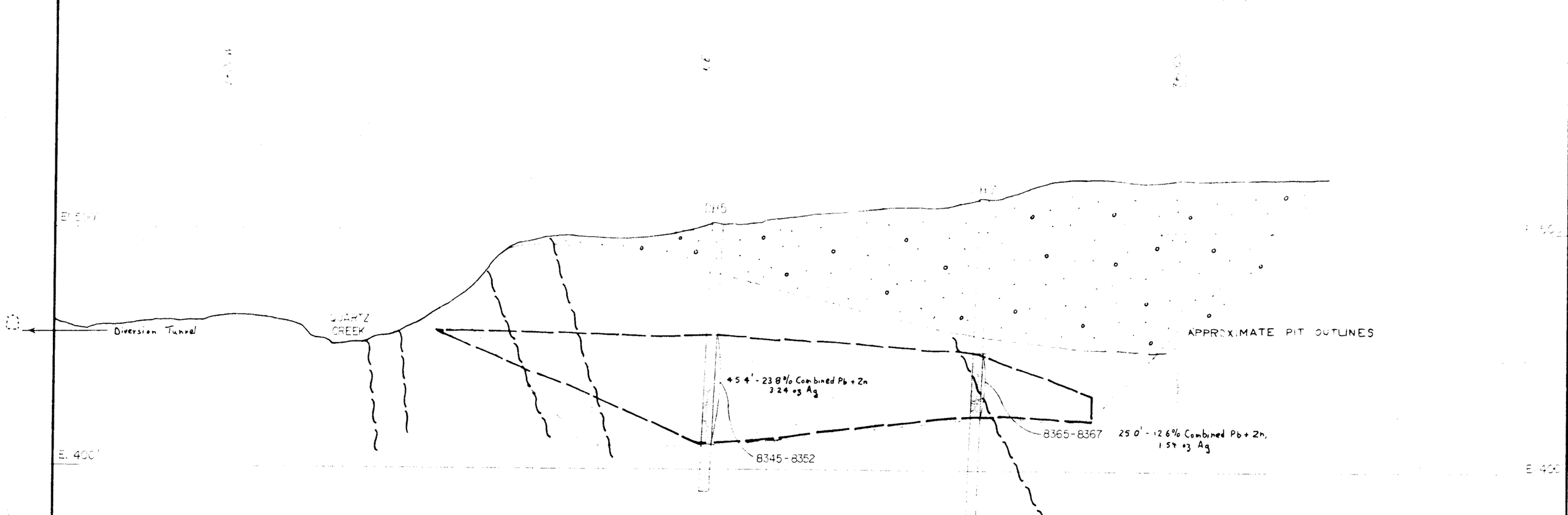
SECTION 0+55 N

(LOOKING NORTH)

SCALE

FEET 40 0 40 80 FEET

FROM PLANS BY ASARCO JUNE, 1953



BACON & CROWHURST LTD.
VANCOUVER BRITISH COLUMBIA

McMILLAN OPTION

WATSON LAKE DISTRICT, YUKON TERRITORY

SECTION 1+33 N

(LOOKING NORTH)

SCALE

FEET 40 0 40 80 FEET

DH 8

DH 11

El. 500'

El. 400'

El. 300'

APPROXIMATE PIT OUTLINES

9951 - 9964 - 80' - 13.8 % Combined Pb + Zn, 1.98 oz Ag

BACON & CROWHURST LTD
VANCOUVER BRITISH COLUMBIA

McMILLAN OPTION

WATSON LAKE DISTRICT, YUKON TERRITORY

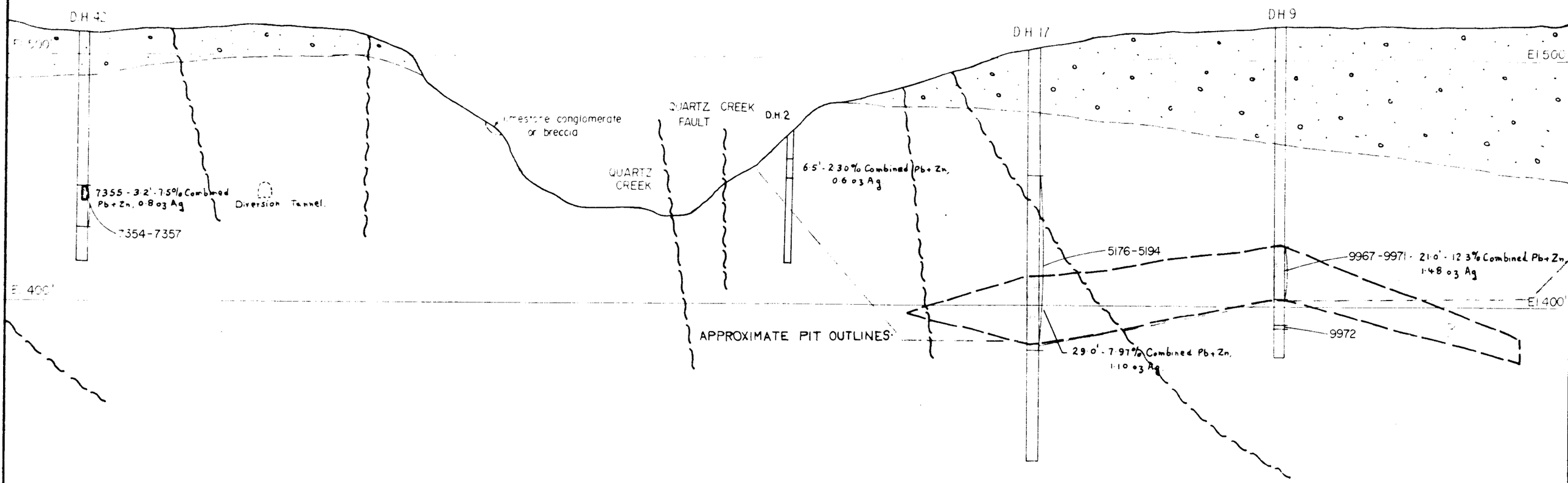
SECTION 2+00 N

(LOOKING NORTH)

SCALE

FEET 40 0 40 80 FEET

FROM PLANS BY ASARCO JUNE, 1968



BACON & CROWHURST LTD
VANCOUVER BRITISH COLUMBIA

McMILLAN OPTION

WATSON LAKE DISTRICT, YUKON TERRITORY

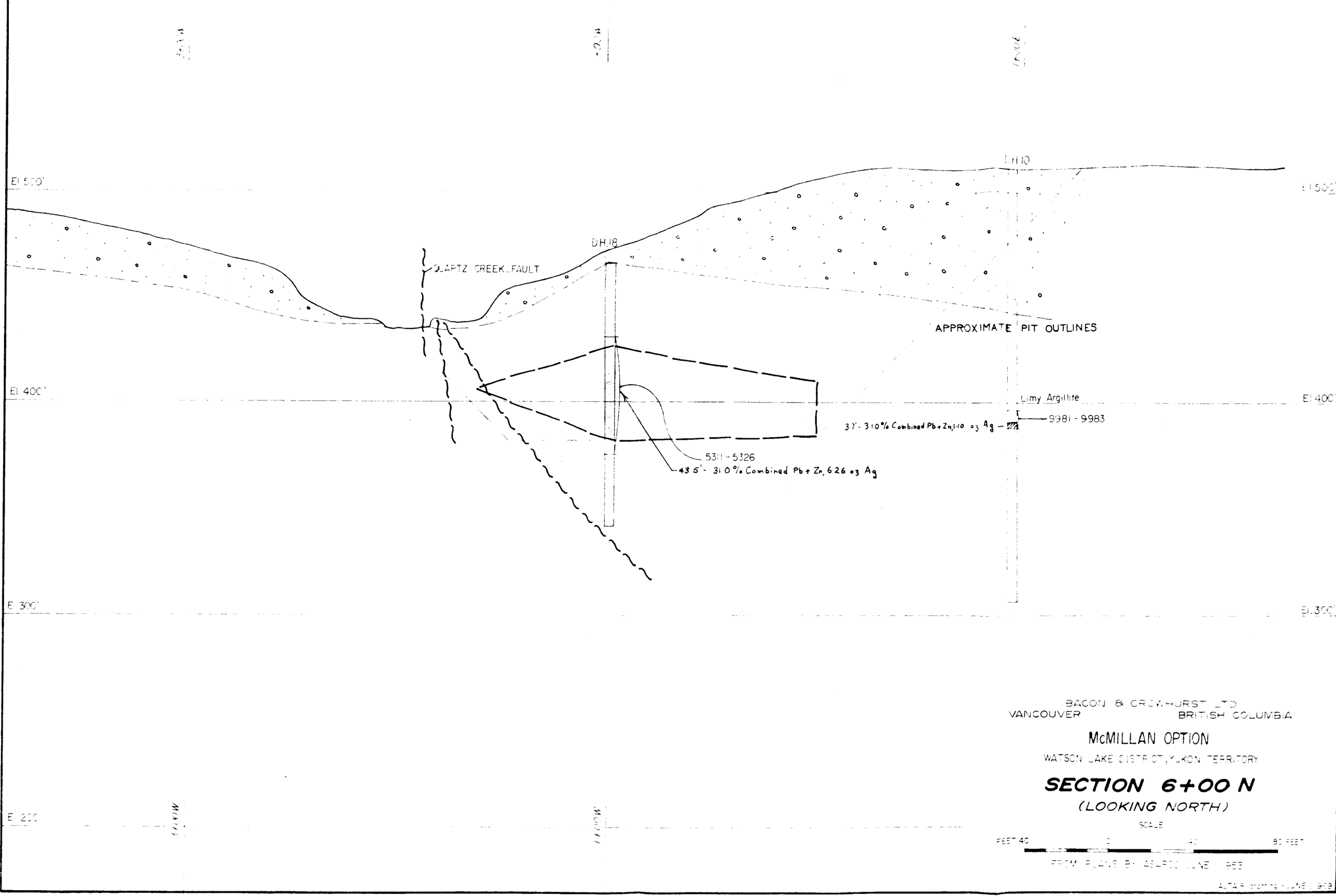
SECTION 4+00 N

(LOOKING NORTH)

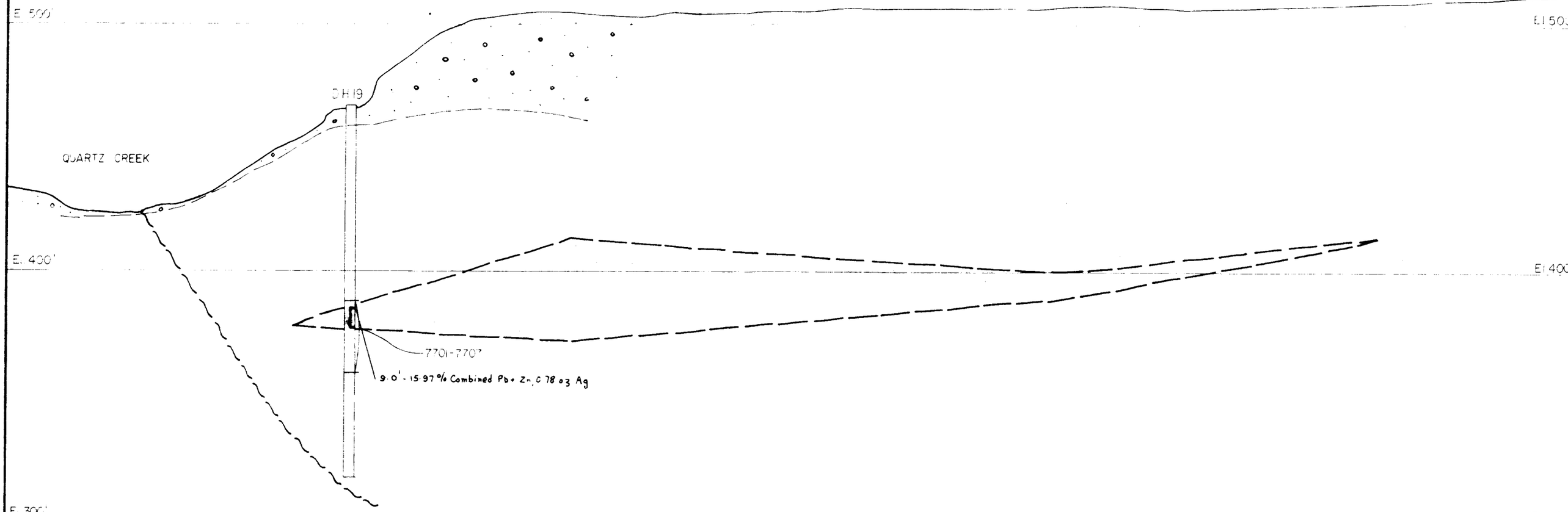
SCALE

FEET 40 0 40 80 FEET

FROM PLANS BY ASARCO JUNE 1953.



El 500'
El 400'
El 300'
El 200'
DH 10
DH 18
QUARTZ CREEK FAULT
APPROXIMATE PIT OUTLINES
Limy Argillite
9981 - 9983
3.7' - 3.10% Combined Pb + Zn, 1.10 oz Ag
5311 - 5326
43.5' - 31.0% Combined Pb + Zn, 6.26 oz Ag
BACON & CROWHURST LTD
VANCOUVER
BRITISH COLUMBIA
McMILLAN OPTION
WATSON LAKE DISTRICT, YUKON TERRITORY
SECTION 6+00 N
(LOOKING NORTH)
SCALE
FEET 40
0
40
80 FEET



BACON & CROWHURST LTD
VANCOUVER BRITISH COLUMBIA

McMILLAN OPTION

WATSON LAKE DISTRICT, YUKON TERRITORY

SECTION 8+00 N

(LOOKING NORTH)

SCALE

FEET 40 0 40 80 FEET

FROM PLANS BY ARCTIC ENGINEERING

DH 28

DH 29

DH 31

EL 500'

EL 400'

EL 300'

EL 200'

Bx

7201 - 7212

40 0' - 18·19 % Combined Pb + Zn, 2·37 oz Ag

7213 - 7216

9·7' - 10·86 % Combined Pb + Zn, 0·52 oz Ag

with quartz

7217 - 7221

15·0' - 17·7 % Combined Pb + Zn, 2·58 oz Ag.

APPROXIMATE PIT OUTLINES

BACON & CROWHURST LTD
VANCOUVER BRITISH COLUMBIA

McMILLAN OPTION

WATSON LAKE DISTRICT, YUKON TERRITORY

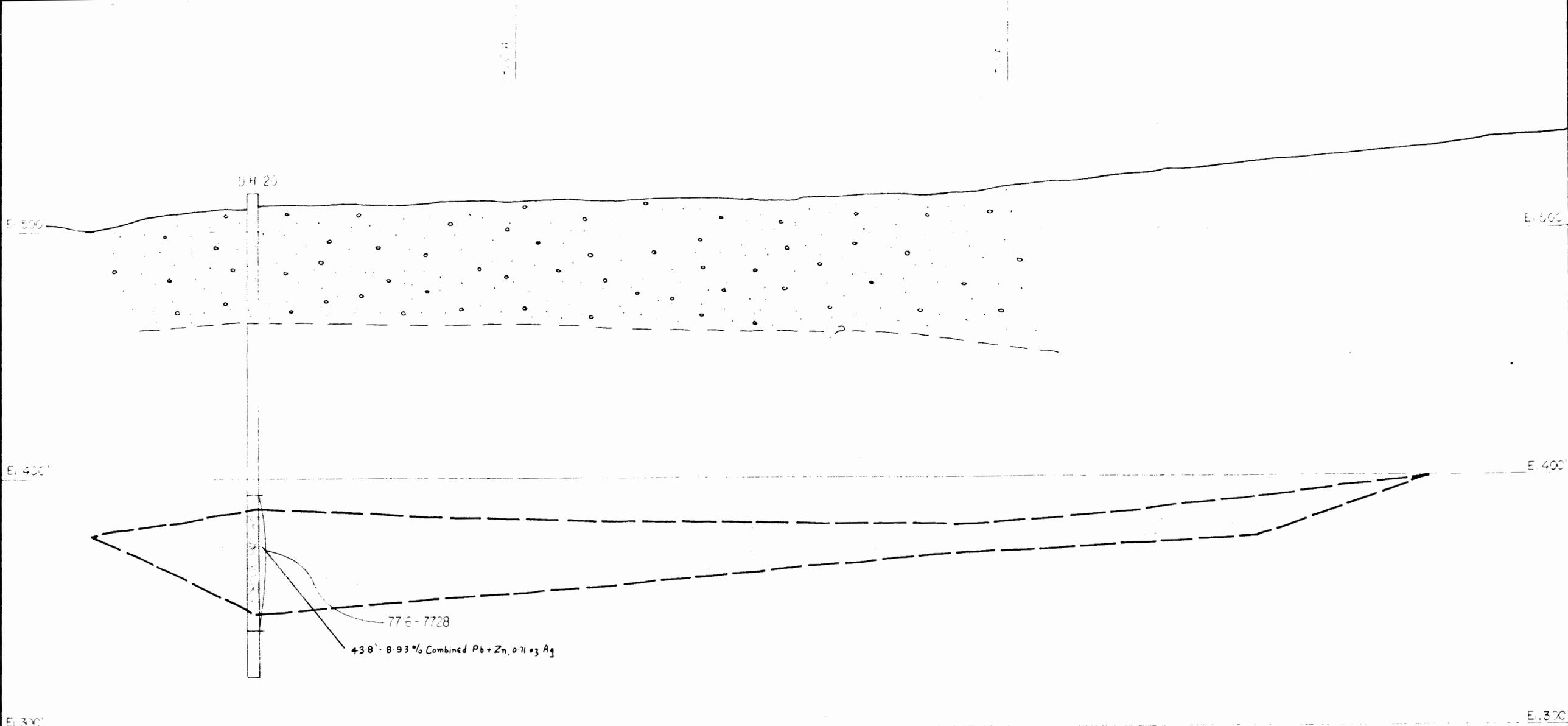
SECTION 9+00 N

(LOOKING NORTH)

SCALE

FEET 40 0 40 80 FEET

FROM PLANS BY ASARCO JUNE, 1963



BACON & CROWHURST LTD
VANCOUVER BRITISH COLUMBIA

McMILLAN OPTION

WATSON LAKE DISTRICT, YUKON TERRITORY

SECTION 10+00 N

(LOOKING NORTH)

SCALE

FEET 40 0 40 80 FEET

FROM PLANS BY ASARCO JUNE, 1963

ALTAIR drafting - JUNE, 1963

DH 27

El 500'

El 500'

El. 400'

El 400'

7155-7162

13.0' - 10.26% Combined Pb+Zn, 1.38 oz Ag

El 300'

El. 300'

El. 200'

BACON & CROWHURST LTD
VANCOUVER BRITISH COLUMBIA

McMILLAN OPTION

WATSON LAKE DISTRICT, YUKON TERRITORY

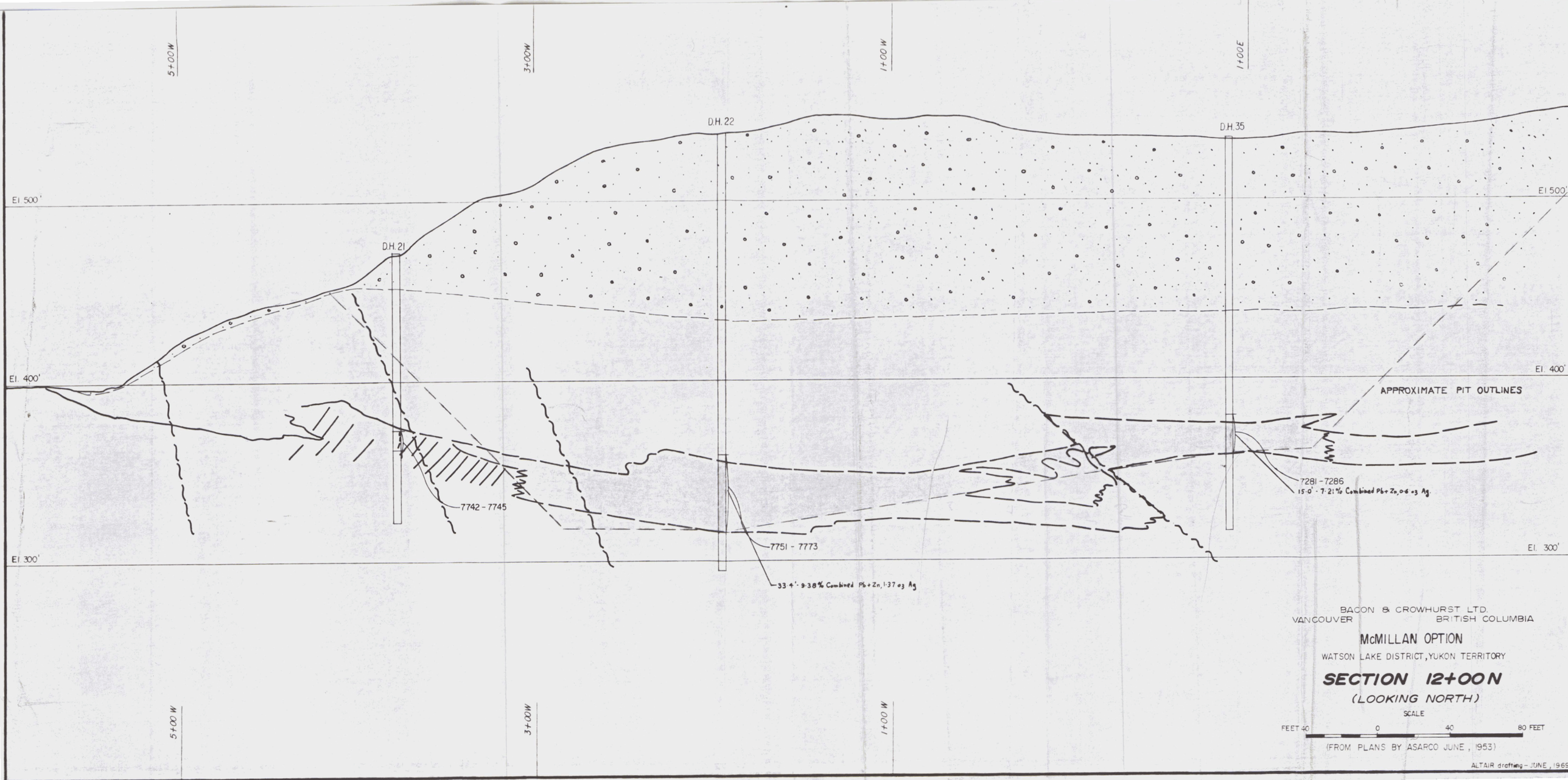
SECTION 11+00N

(LOOKING NORTH)

SCALE

FEET 40 0 40 80 FEET

FROM PLANS BY ASARCO JUNE 1953



BACON & CROWHURST LTD.
VANCOUVER BRITISH COLUMBIA

McMILLAN OPTION

WATSON LAKE DISTRICT, YUKON TERRITORY

SECTION 12+00N

(LOOKING NORTH)

SCALE

FEET 40 0 40 80 FEET

(FROM PLANS BY ASARCO JUNE, 1953)

ALTAIR drafting - JUNE, 1969

13+00W

14+00W

14+00S

DH 26

El. 500'

El. 400'

El. 300'

El. 200'

APPROXIMATE PIT OUTLINES

1142 - 1146

150' - 11.75 % Combined Pb + Zn, 1.32 oz Ag

BACON & CROWHURST LTD
VANCOUVER BRITISH COLUMBIA

McMILLAN OPTION

WATSON LAKE DISTRICT, YUKON TERRITORY

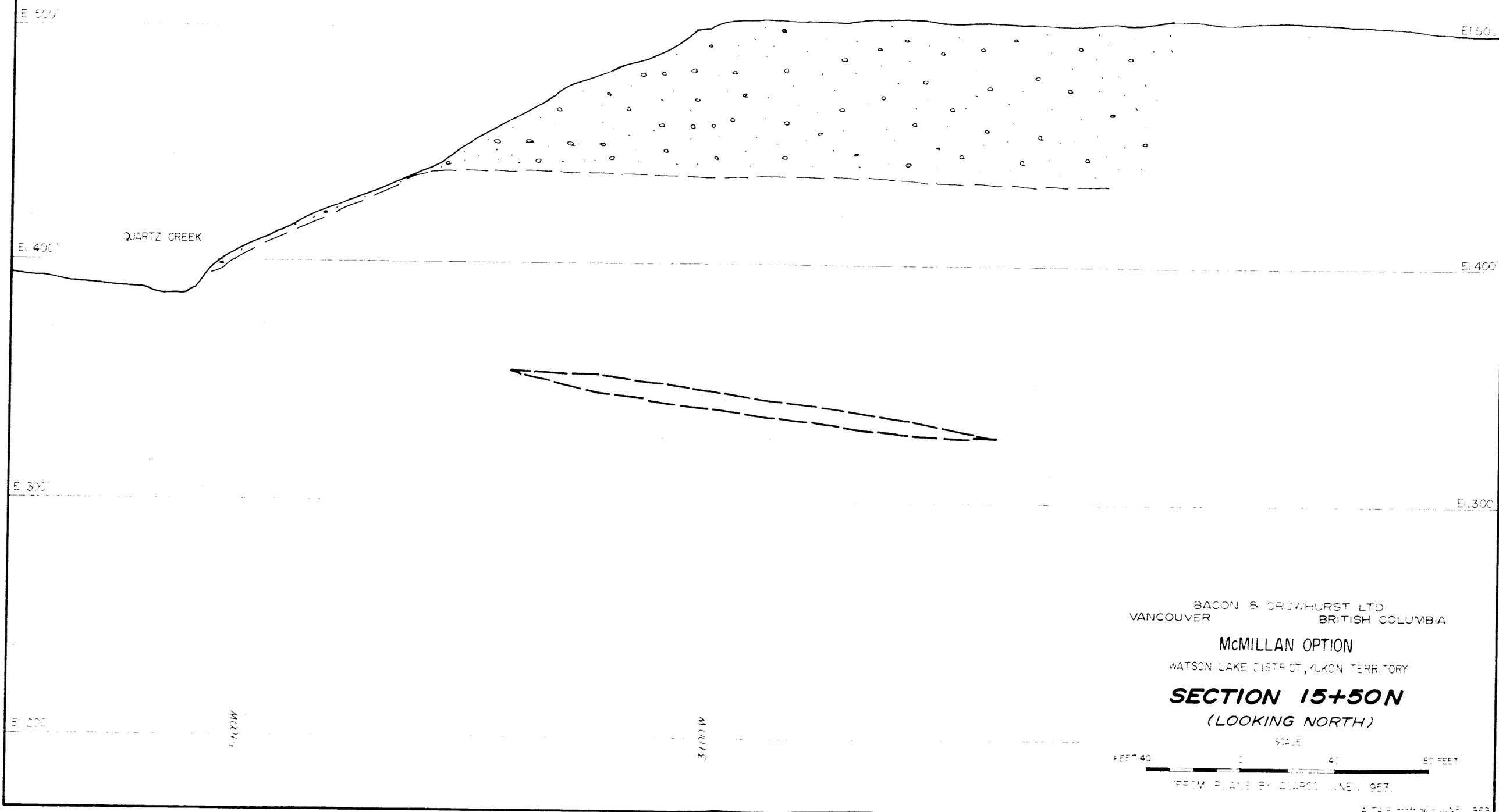
SECTION 13+00N

(LOOKING NORTH)

SCALE

FEET 40 0 40 80 FEET

FROM PLANS BY ARAPOC JUNE, 1963



BACON & CROWHURST LTD
VANCOUVER BRITISH COLUMBIA

McMILLAN OPTION

WATSON LAKE DISTRICT, YUKON TERRITORY

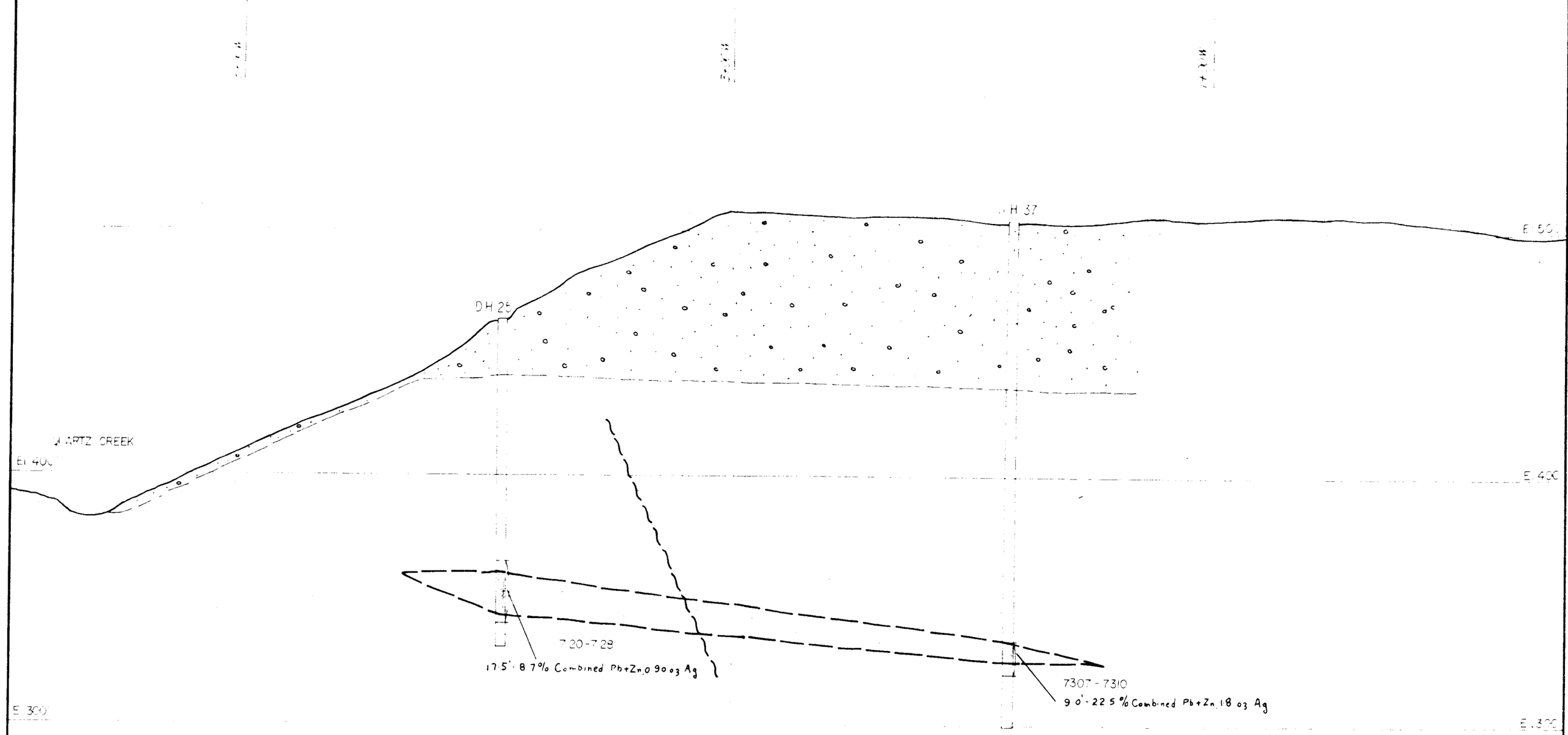
SECTION 15+50N

(LOOKING NORTH)

SCALE

FEET 40 0 40 80 FEET

FROM PLANS BY ARAPOC JUNE, 1953



BACON & CROWHURST LTD
VANCOUVER BRITISH COLUMBIA

McMILLAN OPTION

WATSON LAKE DISTRICT, YUKON TERRITORY

SECTION 16+00 N

(LOOKING NORTH)

SCALE

FEET 40 0 40 80 FEET

FROM PLANS BY ALARCO JUNE, 1953

ALTAIR drafting - JUNE, 1953

HOLE NO. 1

LOCATION: 2439N 0445W
BEARING: S40°W
ELEVATION: 498.0 Ft.
DIP: 80°

OVERBURDEN: ~~Casing 21.5~~
TOTAL LENGTH: 130.0
CORE RECOVERY: 48.3%

STARTED ~~June 17, 1949~~
COMPLETED: ~~June 27, 1949~~
LOGGED BY: ~~S. Norman Keston~~
DATE: June 29, 1951

GEOLOGY			Core Recovery				Core Samples							Sludge Samples						
Footage		DESCRIPTION	Footage		Width	Core Length	Sample No.	Footage		Width	Assays			Sample No.	Footage		Width	Assays			Recoveries
From	To		From	To				From	To		Ag-Oz	Pb- %	Zn. %		From	To		Ag oz	Pb %	Zn %	
0'	21⁵	Casing	21.5	32.3	10.8	5.0														
21⁵	25'	Limestone. Massive, grey, many quartz threads and stringers	32.3	38.0	5.7	2.5	7993	32.3	38.0	5.7	0.3	T	0.3	7982	35	40	5.0	0.6	Nil	T
25'	29'	Shale. Cream-coloured, thinly laminated at 80'	38.0	45.0	7.0	4.0	7994	38.0	45.0	7.0	0.3	0.9	1.6	3	40	45	5.0	1.1	1.5	3.6
29'	67⁴	Limestone. As 21⁵ - 25²	45.0	52.0	7.0	3.0	7995	45.0	52.0	7.0	0.4	0.3	0.4	4	45	50	5.0	0.8	0.9	1.1
		32⁴ - 43 - Very well mineralized with pyrite, may be other sulphides present. Pyrite locally up to 90%	59.0	63.0	4.0	3.0	7996	52.0	59.0	7.0	0.3	T	NIL	5	50	55	5.0	0.6	T	0.7
			63.0	66.0	3.0	1.5	7997	59.0	63.0	4.0	0.3	0.7	0.3	6	55	60	5.0	0.5	T	2.0
			66.0	75.0	9.0	3.0	7998	63.0	66.0	3.0	0.2	T	NIL	7	60	65	5.0	0.4	0.5	NIL
			75.0	84.0	9.0	4.0	7999	66.0	75.0	9.0	0.4	0.2	1.1	8	65	70	5.0	0.3	T	1.3
67⁴	130'	Shale. As 25² - 29' Darker grey bands up to 1"	84.0	93.5	9.5	5.0	8300	75.0	84.0	9.0	0.3	T	0.2	9	70	75	5.0	0.3	0.2	NIL
			93.5	104.0	10.5	5.0	8301	84.0	93.5	9.5	0.6	T	2.3	7990	75	80	5.0	0.3	0.2	0.6
		67⁴ - 114' Considerable scattered pyrite	104.0	114.3	10.3	3.5	8302	93.5	104.0	10.5	0.3	T	0.4							
		65 - 70 Much white quartz, little galena and sphalerite(?)	114.3	115.4	1.1	0.0	8303	104.0	114.3	10.3	0.3	T	1.3	8304	80	85	5.0	0.4	T	1.3
			115.4	130.0	14.6	10.0								5	85	90	5.0	0.6	0.3	1.2
		81⁴ White quartz stringer												6	90	95	5.0	0.4	T.	1.4
130'		END HOLE No.1												7	95	100	5.0	0.3	T	0.9
														8	100	105	5.0	0.2	T	0.7
														10	110	115	5.0	0.4	T	1.3
														9	105	110	5.0	0.3	T	0.8

HOLE NO. 2

LOCATION: ~~3+24N 1+02W~~
BEARING: ~~S80°E~~
ELEVATION: 472.0
DIP: ~~80°~~

OVERBURDEN: 13⁴
TOTAL LENGTH: 55°
CORE RECOVERY: ~~29.3%~~

STARTED ~~June 28, 1949~~
COMPLETED: ~~July 2, 1949~~
LOGGED BY: ~~S. N. Keeton~~
DATE: ~~June 29, 1951~~

GEOLOGY			Core Recovery				Core Samples							Sludge Samples						
Footage		DESCRIPTION	Footage		Width	Core Length	Sample No.	Footage		Width	Assays			Sample No.	Footage		Width	Assays		Recoveries
From	To		From	To				From	To		Ag. Oz	Pb- %	Zn. %		From	To		Ag oz	Pb %	Zn %
0°	13⁴	Casing	0.0	13.5	13.5	3.0														
13⁴	20³	Quartzite, light grey, very fine grained to cherty(may be vein quartz, slight mineralized with fine pyrite)	13.5	21.0	6.5	4.5	8311	13.5	31.0	6.5	0.6	1.0	1.3	8312	13.0	20.0	7.0	0.8	0.8	2.9
			21.0	29.5	8.5	2.0														
			29.5	36.0	6.5	3.0								8313	20.0	25.0	5.0	0.4	T	T
20³	42'	Limestone, grey to yellow-grey, fairly massive, scattered fine pyrite	36.0	42.5	6.5	0.3								8314	25.0	30.0	5.0	0.2	T	1.4
		25 - 35 Some cherty quartzite												8315	30.0	35.0	5.0	0.4	T	NIL
		42 Several inches almost 100% pyrite.	42.5	43.7	1.2	0.5								8316	35.0	40.0	5.0	0.8	1.0	1.0
			43.7	51.0	7.3	3.0								8317	40.0	45.0	5.0	1.0	1.3	2.9
42°	55'	Shale, cream-coloured, finely laminated at 45°.	51.0	55.0	4.0	NIL														
55'		END HOLE NO.2																		

HOLE NO.3

LOCATION: 0+52N 0+50E
BEARING: S41°W
ELEVATION: 497.0
DIP: 80°

OVERBURDEN: 16³
TOTAL LENGTH: ~~245.0~~ error 142.5' Bottom
CORE RECOVERY: 69.2

STARTED July 6, 1949
COMPLETED: July 16, 1949
LOGGED BY: S. Norman Kesten
DATE: June 29, 1951

GEOLOGY

Footage From	Footage To	DESCRIPTION
0	16³	Casing
16³	33	Limestone, grey, massive, many white quartz threads.
33	37²	Shale, darker grey, some fine laminations
37²	44⁹	Limestone, core much chopped and broken, pyrite and some galena throughout 38⁵ - 41 - well mineralized with galena some sphalerite stringers white quartz-calcite. 42⁴ - 43⁵ - Threads of galena 43⁵ - 44 - Pyrite
44⁹	~~245.0~~	Shale, cream-coloured, local fine laminations at 60-80 80 - 82 - Fine grained white quartzite 85 - 87 - " " " " scattered pyrite and sphalerite 117⁵-118⁵- White quartz, coarse pyrite. 131⁵-132⁵- 1" sphalerite and galena remainder pyrite 139⁵-141⁵- Scattered pyrite and galena, some solid pyrite.
~~245.0~~		END HOLE NO.3

Bottom at 142.5

See 20 Mar letter 7-9-52

Core Recovery

Footage From	Footage To	Width	Core Length
16⁵	19.8	3.3	3.0
19.8	27.9	8.1	3.0
27.9	35.0	7.1	8.0
35.0	38.0	3.0	2.5
38.0	41.5	3.2	2.5
41.5	46.1	4.6	2.5
46.1	50.0	3.9	5.0
50.0	63.0	13.0	8.5
63.0	69.3	6.3	4.0
69.3	80.0	10.7	9.5
80.0	81.5	1.5	1.2
81.5	93.7	12.2	9.0
93.7	117.5	23.8	15.0
117.5	131.5	14.0	7.0
131.5	134.7	3.2	2.2
134.7	139.7	5.0	2.5
139.7	142.5	2.8	2.5

Core Samples

Sample No.	Footage From	Footage To	Width	Assays Ag-Oz	Assays Pb- %	Assays Zn. %
8319	35.0	38.0	3.0	0.2	0.9	2.1
8320	38.0	41.5	3.5	3.4	8.3	22.0
8321	41.5	46.1	4.6	0.6	0.7	4.9
8327	63.0	69.3	6.3	0.2	T	2.2
8332	131.5	134.7	3.2	0.2	T	1.5
8333	139.7	142.5	2.8	0.3	T	0.4

Sludge Samples

Sample No.	Footage From	Footage To	Width	Assays Ag oz	Assays Pb-%	Assays Zn-%	R c i
8328	38.0	44.0	6.0	2.6	T	15.8	
8329	59.7	64.0	4.3	4.3	T	0.8	
8330	64.0	70.0	6.0	T	T	0.8	

HOLE NO. 4

LOCATION: 0+18N 0+70W
BEARING: S21°E
ELEVATION: 456.7
DIP: 87°

OVERBURDEN: 3.0
TOTAL LENGTH: 77.8
CORE RECOVERY: 45.6%

STARTED
COMPLETED: July 18, 1949 / July 22, 1949
LOGGED BY: S. Norman Kesten
DATE: June 29, 1951

GEOLOGY			Core Recovery				Core Samples						Sludge Samples						
Footage			Footage		Width	Core	Sample	Footage		Width	Assays			Sample	Footage		Width	Assays			Recole
From	To	DESCRIPTION	From	To		Length	No.	From	To		Ag-Oz	Pb- %	Zn. %	No.	From	To		Ag oz	Pb %	Zn %	
0-	3	Casing																			
3	77.8	Shale, cream coloured, with thin grey bands. Finely laminated at 80'	3.0	9.0	6.0	1.0								8335	17.7	22.2	4.5	T	T	1.2	
			9.0	17.0	8.0	6.0								8336	22.2	27.0	4.8	T	T	1.0	
			17.0	22.2	5.2	3.5								8337	42.0	45.0	3.0	0.6	0.8	3.0	
		13.3 - 32.8 Scattered quartz stringers and veins with threads pyrite, sphalerite and galena, and disseminated pyrite.	22.2	27.0	4.8	3.0								8338	45.0	50.0	5.0	0.5	0.6	2.7	
			27.0	42.0	15.0	12.0								8339	50.0	55.0	5.0	0.4	T	5.0	
			42.0	45.0	3.0	1.5								8340	55.0	60.0	5.0	0.5	0.5	4.1	
		48 - 64 Remaining core mainly white vein quartz, well mineralized with disseminated pyrite, galena and sphalerite.	45.0	48.0	3.0	2.0								8341	60.0	64.3	4.3	0.8	0.7	4.5	
			48.0	52.2	4.0	1.0								8342	64.3	67.3	3.0	0.4	1.3	4.7	
			52.2	58.0	5.8	1.0								8343	67.3	73.3	6.0	0.3	T	3.3	
			58.0	64.3	6.3	0.5								8344	73.3	78.8	5.5	0.4	T	1.6	
			64.3	73.9	9.6	2.0															
77.8		END HOLE NO.4	73.9	77.7	3.8	0.5															

HOLE NO 5

LOCATION: 1+40N 1+02E
BEARING: S41°W
ELEVATION: 504.0
DIP: 85°

OVERBURDEN: 20.5
TOTAL LENGTH: 112.0
CORE RECOVERY: 58.4

STARTED July 26, 1949
COMPLETED: July 29, 1949
LOGGED BY: S. Norman Kesten
DATE: June 30, 1951

GEOLOGY			Core Recovery				Core Samples							Sludge Samples					
Footage		DESCRIPTION	Footage		Width	Core Length	Sample No.	Footage		Width	Assays			Sample No.	Footage		Width	Assays		
From	To		From	To				From	To		Ag-Oz	Pb- %	Zn. %		From	To		Ag oz	Pb %	Zn %
0	20.5	Casing	20.5	33.0	12.5	12.0	8345	46.6	51.0	4.4	2.4	4.0	14.0	8353	49.0	52.5	3.5	1.6	3.4	9.0
20.5	41	Limestone, grey, massive, fine grained	33.0	46.6	13.6	9.0	8346	51.0	58.2	7.2	2.5	6.3	12.8	8354	52.5	57.5	5.0	1.7	3.5	9.6
41	47.2	Quartzite, light grey, fine grained massive, last foot well mineralized with pyrite.	46.6	51.0	4.4	3.0	8347	58.2	62.7	4.5	3.2	7.5	24.2	8355	57.5	62.3	4.8	2.8	6.5	21.3
							8348	62.7	65.9	3.2	2.6	6.8	4.6	8356	62.3	67.1	4.8	2.4	5.9	8.9
47.2	92	Limestone, as 20.5 - 41. Well mineralized with pyrite, galena, sphalerite and white calcite (?).	51.0	58.2	7.2	5.5	8349	65.9	72.5	6.6	4.4	10.7	25.1	8357	67.1	72.7	5.6	3.8	10.1	25.1
			58.2	62.7	4.5	3.5	8350	72.5	77.8	5.3	2.2	5.7	14.2	8358	72.7	77.1	4.4	3.0	6.6	15.4
			62.7	65.9	3.2	2.0	8351	77.8	81.3	3.5	1.2	2.4	8.0	8359	77.1	82.3	5.2	1.8	3.8	9.1
92	93.8	Shale - cream coloured, finely laminated	65.9	72.5	6.6	5.0	8352	81.3	92.0	10.7	5.0	13.5	16.3	8360	82.3	87.5	5.2	3.0	6.2	12.5
93.8	110	Quartzite - as 41 - 47.2 - well mineralized with pyrite.	72.5	77.8	5.3	3.0								8361	87.5	92.0	4.5	1.2	2.0	3.6
			77.8	81.3	3.5	3.0								8362	92.0	97.0	5.0	T	0.9	1.9
110	112	Shale, as 92 - 93.8 - at 45'	81.3	92.0	10.7	4.5														
			92.0	112.0	20.0	3.0														
112		END HOLE NO. 5																		

HOLE NO. 7

LOCATION: 1+33N 2413E
BEARING: S41°W
ELEVATION: 514.6
DIP: 87°

OVERBURDEN: 58.0
TOTAL LENGTH: 134.4
CORE RECOVERY: 57.9%

STARTED Aug. 5, 1949
COMPLETED: Aug. 27, 1949
LOGGED BY: S. Norman Kester
DATE: June 29, 1951

GEOLOGY			Core Recovery				Core Samples							Sludge Samples						
Footage		DESCRIPTION	Footage		Width	Core Length	Sample No.	Footage		Width	Assays			Sample No.	Footage		Width	Assays		
From	To		From	To				From	To		Ag-Oz	Pb- %	Zn. %		From	To		Ag oz	Pb %	Zn %
0	58	Casing	58.0	63.7	5.7	2.2	8365	65.0	71.0	6.0	2.3	5.4	9.9	8369	65.0	70.0	5.0	1.3	0.3	4
58	87	Limestone, grey, massive.	63.7	65.0	1.3	2.0	8366	71.0	81.0	10.0	2.3	4.7	15.4	8370	70.0	75.0	5.0	2.1	3.6	13
		65 - 81 well mineralized with pyrite, sphalerite, galena and calcite.	65.0	71.0	6.0	4.0	8367	87.1	90.0	2.9	0.6	0.8	6.6	8371	75.0	80.0	5.0	4.0	4.1	12
			71.0	81.0	10.0	4.0	8368	93.5	99.5	6.0	0.2	0.4	Tr.	8372	85.0	90.0	5.0	Tr.	0.3	1
87[2]	103	Quartzite. Grey to white, fine grained, massive, little scattered mineralization.	81.0	85.6	4.6	3.5								8373	90.0	95.0	5.0	0.3	Tr.	0
			85.6	87.1	1.5	1.0														
			87.1	90.0	2.9	1.5														
103	106[3]	Shale, cream coloured, finely laminated at 75°	90.0	93.5	3.5	3.5														
			83.5	99.5	6.0	3.0														
106[3]	108	Quartzite - as 87[2]-103	99.5	104.8	5.3	3.0														
108	134[4]	Shale - as 103 - 106[3]	104.8	127.7	22.9	15.0														
134[4]		END HOLE NO.7	127.7	134.3	6.6	2.0														

HOLE NO. 8

LOCATION: 2+00N 1+00E
BEARING: 57°30'/N
ELEVATION: 513.6
DIP: 70°

OVERBURDEN: 37.0'
TOTAL LENGTH: 200.0'
CORE RECOVERY: ~~5.26~~ 52.6% (68.1% in ore zone)

STARTED June 28, 1951
COMPLETED: July 8, 1951
LOGGED BY: S. Norman Kesten
DATE: July 9th 1951

GEOLOGY			Core Recovery				Core Samples							Sludge Samples						
Footage		DESCRIPTION	Footage		Width	Core Length	Sample No.	Footage		Width	Assays			Sample No.	Footage		Width	Assays			Recoveries
From	To		From	To				From	To		Ag-Oz	Pb- %	Zn. %		From	To		Ag/ozs	Pb %	Zn %	
0'	37'	Casing																		
37'	68'	Limestone, massive, cream coloured minor quartzite.	37.0	40.0	3.0	1.0	9951	38.5	43.3	4.8	3.20	9.55	22.00	9901	37.0	44.0	7.0	12.00	20.00	6.00	
		38^5 - 43^3 Heavily mineralized with pyrite, galena, sphalerite.	40.0	42.5	2.5	2.0	9952	43.3	49.0	5.7	1.35	4.30	5.00	9902	44.0	48.0	4.0	2.10	3.50	3.00	
		43^3 - 49' Slightly mineralized	42.5	44.0	1.5	1.0	9953	49.0	59.0	10.0	2.00	4.80	16.50	9903	48.0	51.0	3.0	2.20	3.70	9.50	
		49' - 52' Moderately mineralized	44.0	48.0	4.0	1.7	9954	59.0	61.5	2.5	1.30	3.40	7.00	9904	51.0	53.0	2.0	3.00	3.70	19.00	
		52' - 59' Heavily "	48.0	51.0	3.0	2.0	9955	61.5	66.5	5.0	3.35	9.00	17.50	9905	53.0	54.0	1.0	3.50	4.80	31.50	
		59' - 61^5 Grey shale	51.0	53.0	2.0	1.8	9956	66.5	78.5	12.5	.80	1.40	1.80	9906	54.0	57.5	3.5	2.80	3.20	24.50	
		61^5 - 66^5 Heavily mineralized	53.0	54.0	1.0	0.5	9957	78.5	82.5	4.0	4.40	12.00	8.50	9907	57.5	60.0	2.5	3.00	5.50	9.30	
			54.0	57.5	3.5	3.0	9958	82.5	86.5	4.0	0.95	3.50	7.70	9908	60.0	63.0	3.0	3.50	7.00	8.20	
			57.5	60.0	2.5	2.0	9959	86.5	88.5	2.0	0.05	Tr.	1.70	9909	63.0	66.5	3.5	4.35	8.70	18.50	
68'	78'	Quartzite, fine grained, grey, massive very slightly mineralized, mainly py	60.0	63.0	3.0	1.0	9960	88.5	94.0	5.5	0.95	1.00	11.50	9910	66.5	69.5	3.0	1.70	2.50	3.60	
			63.0	66.5	3.5	2.0	9961	94.0	101.0	7.0	2.80	2.80	7.00	9911	69.5	72.0	2.5	1.00	0.80	3.70	
78^5	106^7	Limestone, as 37' - 68'	66.5	69.5	3.0	2.0	9962	101.0	108.8	7.8	4.65	8.90	12.00	9912	72.0	74.5	2.5	0.90	0.80	1.80	
		78^5 - 80^5 Well mineralized pyrite	69.5	72.0	2.5	1.5								9913	74.5	79.5	5.0	1.15	0.70	2.30	
		80^5 - 82^5 Moderately mineralized - galena and sphalerite	72.0	74.5	2.5	0.5								9914	79.5	81.0	1.5	1.55	0.65	3.80	
			74.5	76.0	1.5	1.0								9915	81.0	83.5	2.5	8.00	16.30	11.80	
		82^5 - 86^5 Moderately mineralized - sphalerite little galena	76.0	78.5	2.5	2.0								9916	83.5	85.0	1.5	2.00	1.90	11.50	
			78.5	79.5	1.0	1.0								9917	85.0	87.0	2.0	2.55	4.30	4.50	
		86^5 - 88^5 Grey shale at 60'	79.5	81.0	1.5	1.5								9918	87.0	88.5	1.5	2.15	3.00	3.90	
		88^5 - 94' Locally moderately mineralized sphalerite, slightly galena.	81.0	83.5	2.5	2.5								9919	88.5	89.5	1.0	1.60	2.00	12.80	
			83.5	85.0	1.5	1.5								9920	89.5	91.0	1.5	1.20	0.25	10.00	
		94' - 101' Locally moderately mineralized galena, slightly sphalerite.	85.0	87.0	2.0	1.5								9921	91.0	93.0	2.0	1.80	2.30	8.20	
			87.0	88.5	1.5	1.5								9922	93.0	97.5	4.5	2.00	2.80	7.20	
		101' - 106^7 Moderately, mineralized galena and sphalerite	88.5	89.5	1.0	0.5								9923	97.5	101.8	4.3	2.75	6.50	7.30	
			89.5	91.0	1.5	1.5								9924	101.8	108.7	6.9	4.60	6.70	11.00	
			91.0	93.0	2.0	1.0														
			93.0	97.5	4.5	4.0														
			97.5	101.8	4.3	3.0														
			101.8	108.7	6.9	4.0														

HOLE NO.8 Sheet 2.

LOCATION: _____
BEARING: _____
ELEVATION: _____
DIP: _____

OVERBURDEN: _____
TOTAL LENGTH: _____
CORE RECOVERY: _____

STARTED _____
COMPLETED: _____
LOGGED BY: _____
DATE: _____

GEOLOGY

Footage From	Footage To	DESCRIPTION
106'	112.5	Quartzite as 68' - 78.5 but some sphalerite and galena
112.5	139'	Shale, cream-coloured, bedding 80° local quartzite beds, some beds of grey shale. Scattered pyrite mineralization, minor galena and sphalerite in stringers. 114.9 - 2" well mineralized galena and sphalerite 116.3 - 2" " " " " 117.5 - 1" " " " "
139'	142'	Cherty Quartzite
142'	200'	Shale, yellow to cream coloured, bedding at 60' to 153.5, at 80° 153.5 - 200' Scattered irregular threads of galena and sphalerite with associated pyrite also some solid bands of sulphides. Mineralization notable at 133', 142.5, 152', 155.5, 189', 194' 163-180' - Mainly mud and sand.
200'		END HOLE NO. 8

Core Recovery

Footage From	Footage To	Width	Core Length
108.7	111.7	3.0	1.1
111.7	113.5	1.8	1.8
113.5	118.5	5.0	3.2
118.5	122.0	3.5	2.5
122.0	127.0	5.0	2.3
127.0	133.0	6.0	3.0
133.0	135.0	2.0	1.0
135.0	136.0	1.0	1.0
136.0	140.0	4.0	1.5
140.0	143.2	3.2	1.5
143.2	145.0	1.8	1.8
145.0	148.5	3.5	2.0
148.5	152.2	3.7	1.5
152.2	153.5	1.3	1.2
153.5	156.0	2.5	2.3
156.0	160.0	4.0	1.2
160.0	163.0	3.0	0.05
163.0	168.0	5.0	4.0
168.0	173.0	5.0	4.0
173.0	180.0	7.0	4.0
180.0	182.0	2.0	0.3
182.0	184.0	2.0	0.2
184.0	189.0	5.0	0.7
189.0	192.0	3.0	0.6
192.0	195.0	3.0	0.5
195.0	200.0	5.0	1.0

Core Samples

Sample No.	Footage From	Footage To	Width	Assays Ag-Oz	Assays Pb- %	Assays Zn. %
9963	108.8	113.5	4.7	0.15	0.80	4.00
9964	113.5	118.5	5.0	0.50	0.90	6.00
9965	146.7	150.3	3.6	0.95	1.10	4.30
9966	150.3	159	8.7	0.40	0.70	3.80

Sludge Samples

Sample No.	Footage From	Footage To	Width	Assays Ag oz.	Assays Pb %	Assays Zn %	Recoveries
9925	108.7	118.5	9.8	2.20	2.30	5.00	
9926	118.5	127.0	8.5	0.40	2.70	2.00	
9927	127.0	133.0	6.0	0.10	0.10	0.70	
9928	133.0	136.5	3.5	1.70	4.00	3.70	
9929	136.5	140.0	3.5	1.10	0.80	2.60	
9930	140.0	143.2	3.2	1.50	2.50	10.00	
9931	143.2	145.0	1.8	1.90	3.00	8.50	
9932	145.0	148.5	3.5	1.60	2.20	3.80	
9933	148.5	156.0	7.5	1.35	0.45	3.50	
9934	156.0	160.0	4.0	1.20	0.20	2.00	
9935	160.0	163.0	3.0	0.80	Tr.	1.50	
9936	163.0	168.0	5.0	0.50	0.25	2.50	
9937	168.0	173.0	5.0	1.45	0.75	5.50	
9938	173.0	180.0	7.0	1.75	Tr.	3.70	
9939	180.0	182.0	2.0	0.95	Tr.	2.30	
9940	182.0	184.0	2.0	0.95	0.80	2.50	
9941	184.0	189.0	5.0	9.20	0.15	2.30	
9942	189.0	192.0	3.0	0.55	Tr.	2.00	
9943	192.0	195.0	3.0	1.10	Tr.	2.30	
9944	195.0	200.0	5.0	0.65	0.80	3.50	

HOLE NO. 9

LOCATION: 4+00N 1+00E
BEARING: ____
ELEVATION: 514.4
DIP: Vertical

OVERBURDEN: 47.0
TOTAL LENGTH: 134.0
CORE RECOVERY: 41.5%(71.5% in ore zone)

STARTED July 13, 1951
COMPLETED: July 19, 1951
LOGGED BY: S. Norman Kesten
DATE: July 20, 1951

GEOLOGY			Core Recovery				Core Samples							Sludge Samples						
Footage		DESCRIPTION	Footage		Width	Core	Sample	Footage		Width	Assays			Sample	Footage		Width	Assays			Re-
From	To		From	To		Length	No.	From	To		Ag-Oz	Pb- %	Zn. %	No.	From	To		Ag oz.	Pb %	Zn %	coveries
0'	47'	Casing	47.0	49.5	2.5	0.8														
47'	53'	Quartzite, light grey, fine grained cherty some fine pyrite, few shaley beds at 60°	49.5	51.8	2.3	1.4														
			51.8	53.0	1.2	0.5														
53'	78'	Probably mainly cream-coloured shale, which did not core well. Fragments are mainly cherty quartzite.	53.0	54.5	1.5	1.0														
			54.5	56.2	1.7	0.5								9945	53.0	62.8	9.8	0.70	.50	.20
			56.2	58.2	2.0	0.2														
		56² - 62⁸ - sand and mud reported	58.2	61.8	3.6	0.0														
78'	88'	Quartzite as 47' - 53'. Much irregular introduced milky quartz, little scattered pyrite, galena and sphalerite, and a little irregular calcite	61.8	62.8	1.0	0.0														
			62.8	68.0	5.2	0.5														
			68.0	73.0	5.0	0.5								9946	62.8	78.0	15.3	1.10	Tr.	.50
			73.0	78.0	5.0	0.2														
88'	108³	Limestone	78.0	81.0	3.0	2.5								9947	78.0	84.0	6.0	.40	Tr.	.50
		88' - 92' - Heavily mineralized, galena & sphalerite	81.0	84.0	3.0	2.0														
			84.0	89.0	5.0	1.5	9967	88.0	92.0	4.0	4.15	9.00	26.50	9948	84.0	89.0	5.0	1.30	2.50	5.50
		92' - 95' - Moderately mineralized galena & sphalerite	89.0	94.0	5.0	4.0	9968	92.0	95.3	3.3	0.40	1.20	8.50	9949	89.0	94.0	5.0	3.35	7.00	14.50
			94.0	96.5	2.5	1.5	9969	95.3	104.7	9.4	Tr.	0,30	1.20	9950	94.0	96.5	2.5	1.10	1.30	2.90
		95³ - 104⁷ - Little Mineral	96.5	100.0	3.5	3.0								9973	96.5	100.0	3.5	.40	1.00	1.80
		104⁷ - 107' - Moderately mineralized galena & sphalerite	100.0	103.0	3.0	3.0								9974	100.0	103.0	3.0	.70	Tr.	1.50
			103.0	107.0	4.0	3.4	9970	104.7	107.0	2.3	Tr.	0.10	3.00	9975	103.0	107.0	4.0	.90	.30	4.70
		107' - 109' - Heavily mineralized galena and sphalerite	107.0	110.0	3.0	2.4	9971	107.0	109.0	2.0	6.65	14.30	17.50	9976	107.0	110.0	3.0	4.65	8.80	13.30
			110.0	112.0	2.0	2.0								9977	110.0	112.0	2.0	1.75	2.90	2.20
108³	134'	Shale, cream-coloured, bedding at 60' little scattered mineral in first 2 feet	112.0	116.0	4.0	2.8								9978	112.0	116.0	4.0	1.70	1.30	1.60
			116.0	121.0	5.0	2.0	9972	120.0	121.0	1.0	0.90	0.30	11.00	9979	116.0	121.0	5.0	1.60	2.00	3.80
		112° - 112⁵ - Heavily mineralized with pyrite, little galena and sphalerite, may be thin limestone bed.	121.0	126.0	5.0	0.2								9980	121.0	134.0	13.0	0.70	0.50	1.50
			126.0	129.0	3.0	0.2														
			129.0	134.0	5.0	0.0														
		115° - 115⁵ As above																		
		120' - 121' As above but sphalerite predominates																		
		121' - 134' Mud and Sand Reported																		
134'		END HOLE NO. 9																		

HOLE NO. 10

LOCATION: 600 N 1400E
BEARING:
ELEVATION: 511.9
DIP: Vertical

OVERBURDEN: 69.0
TOTAL LENGTH: 205.0
CORE RECOVERY: 35%(80% in mineralized zone)

STARTED Jul.20, 1951
COMPLETED: Jul. 29, 1951
LOGGED BY: S. Norman Kesten
DATE: July 30, 1951

GEOLOGY			Core Recovery				Core Samples							Sludge Samples						
Footage		DESCRIPTION	Footage		Width	Core Length	Sample No.	Footage		Width	Assays			Sample No.	Footage		Width	Assays			% Recovie
From	To		From	To				From	To		Ag-Oz	Pb- %	Zn. %		From	To		Ag/oz	Pb%	Zn%	
0	69°	Casing	69.0	72.0	3.0	1.0														
69°	71°	Shale, bedding at 70°	72.0	75.0	3.0	1.5														
71°	81°	Quartzite, light grey, fine grained, bedding not apparent	75.0	77.0	2.0	1.5														
			77.0	82.0	5.0	1.3														
			82.0	85.0	5.0	1.7														
81°	90°	Shale, yellowish to cream coloured finely banded with grey at 60°	85.0	88.0	3.0	2.0														
			88.0	91.0	3.0	2.0														
			91.0	95.0	4.0	1.5														
90°	108°	Quartzite as 71 & 81, fine shaley bands at 60°	95.0	99.0	4.0	2.0														
108°	110°	Shale, cream-coloured, no bedding apparent	99.0	103.0	4.0	2.0														
110°	113°	Limestone, light grey, very fine grained massive, little shale in bands at 70°-90°	103.0	108.0	5.0	1.5														
			108.0	113.0	5.0	3.0														
113°	205°	Shale, cream-coloured locally finely banded with grey at 60°, later at 90°																		
		113°-123° - Considerable light grey fine quartz apparently replacement with accompanying pyrite, sphalerite & galena in that order of importance particularly 113°-117°	113.0	118.0	5.0	4.5	9981	113.8	116.8	3.0	0.95	1.10	2.00	9984	113.0	118.0	5.0	1.05	0.65	2.00 60
			118.0	123.0	5.0	3.5	9982	116.8	119.3	2.5	0.90	1.00	0.80	9985	118.0	123.0	5.0	0.40	0.50	Tr. 50
							9983	119.3	123.0	3.7	1.10	1.70	1.40							
		123° - 138° Sparse scattered sulphides	123.0	128.0	5.0	4.5														
			128.0	133.0	5.0	4.0								9986	123.0	128.0	5.0	1.05	0.90	1.30 47
		138° - 149° Mud & sand, almost no core	133.0	138.0	5.0	1.0														
		149° - 156° Pink shale	138.0	141.0	3.0	0.2														
		156° - 172° Few pieces limestone at end of run	141.0	146.0	5.0	0.2														
			146.0	149.0	3.0	0.0														
		Remainder shale mostly washed away	149.0	156.0	7.0	0.8														
		117° - 182° Mud	156.0	160.0	4.0	1.5														
		202° - 205° Mud	160.0	166.0	6.0	1.0														
			166.0	172.0	6.0	1.0														
			172.0	177.0	5.0	0.5														
205°		END HOLE NO. 10	177.0	182.0	5.0	0.0														
			182.0	187.0	5.0	1.5														
			187.0	191.0	4.0	1.0														
			191.0	197.0	6.0	1.0														
			197.0	202.0	5.0	0.5														
			202.0	205.0	3.0	0.0														

HOLE NO. 11

LOCATION: 2+00N , 3+00E
BEARING: ____
ELEVATION: 521.0
DIP: Vertical

OVERBURDEN: 65.0'
TOTAL LENGTH: 199.0'
CORE RECOVERY: 33%

STARTED: Aug.1, 1951
COMPLETED: Aug.11, 1951
LOGGED BY: S. Norman Kesten
DATE: Aug.12, 1951

GEOLOGY			Core Recovery				Core Samples							Sludge Samples					
Footage		DESCRIPTION	Footage		Width	Core Length	Sample No.	Footage		Width	Assays			Sample No.	Footage		Width	Assays	Re-coveries
From	To		From	To				From	To		Ag-Oz	Pb- %	Zn. %		From	To			
0	65	Casing	65.0	67.0	2.0	1.0													
65	67	Shale, light cream coloured.	67.0	72.0	5.0	1.0													
67	88	Quartzite, light grey, fine grained, some shaley bedding at 70'.	72.0	73.0	1.0	0.2													
			73.0	77.0	4.0	0.5													
88	102	Argillite, grey, fine grained, with local fine colour banding at 60' but varying 45' to 80'.	77.0	81.0	4.0	0.5													
			81.0	83.0	2.0	0.3													
			83.0	88.0	5.0	0.2													
102	103	Limestone, light grey, fine grained very slightly mineralized with galena.	88.0	93.0	5.0	2.5													
			93.0	98.0	5.0	2.5													
103	115.5	Quartzite, light grey-green, fine grained, bedding at 60-70'	98.0	103.0	5.0	5.0													
			103.0	108.0	5.0	1.5													
115.5	117.5	Limestone, light to dark grey brecciated, some creamy shale.	108.0	110.0	2.0	2.0													
			110.0	113.0	3.0	1.5													
117.5	128.5	Quartzite, as 103 - 115	113.0	118.0	5.0	2.0													
128.5	132	Limestone, as 115.5 - 117.5	118.0	123.0	5.0	1.0													
132	141	Shale, grey, finely banded at 70', few siliceous bands.	123.0	127.0	4.0	2.5													
			127.0	132.0	5.0	1.5													
			132.0	140.0	8.0	2.0													
141	146.5	Limestone, as 115.5 - 117.5. Very slightly mineralized with galena and sphalerite.	140.0	141.0	1.0	1.0													
			141.0	146.0	5.0	1.5													
146.5	185	Shale, cream coloured, some grey bands at 70'. Fragments of limestone core at 149', 153.5, 155.5, 158.5, 173.	146.0	151.0	5.0	2.5													
			151.0	156.0	5.0	2.0													
			156.0	161.0	5.0	1.0													
			161.0	166.0	5.0	1.5													
185	190	Quartzite, grey, cherty.	166.0	172.0	6.0	1.0													
190	199	Shale, as 146.5 - 185	172.0	177.0	5.0	1.0													
199		END HOLE NO.11	177.0	178.0	1.0	0.5													
			178.0	181.0	3.0	0.5													
			181.0	185.0	4.0	0.5													
			185.0	188.0	3.0	1.0													
			188.0	192.0	4.0	1.0													
			192.0	199.0	7.0	1.0													

HOLE NO. 12

LOCATION: 0+00N 3+00E
BEARING: ____
ELEVATION: 522.7
DIP: 90°

OVERBURDEN: 36.0
TOTAL LENGTH: 136.0
CORE RECOVERY: 61.5%

STARTED: Aug. 13/51
COMPLETED: Aug. 17/51
LOGGED BY: S. Norman Kesten
DATE: Aug. 24/51

GEOLOGY			Core Recovery				Core Samples							Sludge Samples					
Footage		DESCRIPTION	Footage		Width	Core Length	Sample No.	Footage		Width	Assays			Sample No.	Footage		Width	Assays			Recoveries
From	To		From	To				From	To		Ag-Oz	Pb- %	Zn. %		From	To					
0	36	Casing																			
36	48	Limestone, grey, fine grained(dolomite?)	36.0	38.0	2.0	1.0															
48	53⅝	Quartzite, very fine grained & cherty, light grey, some broken pieces of shale core.	38.0	43.0	5.0	1.5															
			43.0	48.0	5.0	2.0															
			48.0	53.0	5.0	2.0															
53⅝	54⅝	Quartzite & limestone thinly interbanded at 60°	53.0	58.0	5.0	3.0															
			58.0	63.0	5.0	2.0															
			63.0	68.0	5.0	1.0															
54⅝	57	Limestone & shale interbanded as above.	68.0	70.0	2.0	2.0															
57	60	Quartzite and limestone as 53⅝ - 54⅝	70.0	75.0	5.0	2.0															
60	100	Limestone, grey, medium grained, massive (dolmite?)	75.0	80.0	5.0	5.0															
			80.0	86.0	6.0	5.0															
		84 - 100 Brecciated(?) Light grey fine grained limestone in rounded fragments in a somewhat sheeted dark grey limey ground mass, rough banding at 80° Few irregular threads and veinlets of white calcite.	86.0	91.0	5.0	2.5															
			91.0	94.0	3.0	2.0															
			94.0	100.0	6.0	4.5															
100	104	Limestone, very light in colour, fine grained massive	100.0	105.0	5.0	5.0															
			105.0	111.0	6.0	4.5															
			111.0	116.0	5.0	3.0															
			116.0	120.0	4.0	2.0															
			120.0	123.0	3.0	2.5															
			123.0	128.0	5.0	5.0															
104	136	Shale, light cream colour of some darker grey quartzite and shale in very fine bands at 75°. Banding is distorted 127-136' Limey beds up to 3" at 104⅝, 105⅝, 107⅝, 121, 129⅝, also 124 and 125.	128.0	136.0	8.0	4.0															
136'		END HOLE NO.12																			

HOLE NO. 13

LOCATION: ~~2+00S, 3+00E~~
BEARING: _____
ELEVATION: 546.6
DIP: Vertical

OVERBURDEN: 30.0' (Casing to 35')
TOTAL LENGTH: 128.0'
CORE RECOVERY: 57%

STARTED: August 18, 1951
COMPLETED: August 25, 1951
LOGGED BY: S. Norman Kesten
DATE: August 26, 1951

GEOLOGY			Core Recovery				Core Samples							Sludge Samples						
Footage		DESCRIPTION	Footage		Width	Core Length	Sample No.	Footage		Width	Assays			Sample No.	Footage		Width	Assays		
From	To		From	To				From	To		Ag-Oz	Pb- %	Zn. %		From	To		Ag-Oz.	Pb%	Zn%
0.0	35.0	CASING - Reamed down from 30.0	30.0	35.0	5.0	4.5														
30.0	101^5	Limestone:	35.0	40.0	5.0	4.5														
		30 - 70 Fairly dark grey, fine grained	40.0	44.0	4.0	4.0														
		30 - 39 Broken by many irregular white quartz threads and stringers	44.0	47.0	3.0	1.5														
		41^2 - 42 Fine-grained, light grey, cherty quartzite.	47.0	51.0	4.0	1.0														
		43 - 70 Brecciated(?) similar to Hole No. 12, 84 - 100.	51.0	55.0	4.0	1.5														
			55.0	58.0	3.0	1.0														
			58.0	62.0	4.0	0.5														
			62.0	65.0	3.0	0.7														
		70 - 101^5 Light grey, fine-grained.	65.0	70.0	5.0	1.3	9987	98.0	100.0	2.0	0.10	0.85	3.00	9993	97.0	100.0	3.0	Tr.	0.65	0.55
		74 - 77 Shale	70.0	74.0	4.0	1.0	9988	103.0	104.5	1.5	0.05	0.35	3.30	9994	100.0	105.0	5.0	Tr.	0,40	0.80
		94 - 94^5 Shale	74.0	77.0	3.0	1.0	9989	107.0	108.0	1.0	Tr.	0,50	Tr.	9995	105.0	110.0	5.0	0.10	0.40	Tr.
		95 - 95^5 Shale	77.0	80.0	3.0	2.0	9990	113.6	115.4	1.8	0.10	0.65	0,70	9996	110.0	117.0	7.0	0.20	0.30	0.65
		97 - 97^6 3" Shale	80.0	85.0	5.0	2.5														
		98 3" Slightly mineralized	85.0	87.0	2.0	1.0														
		3" with sphalerite	87.0	91.0	4.0	2.0														
		99 3" Slightly mineralized with sphalerite	91.0	97.0	6.0	5.0														
			97.0	99.0	2.0	2.0														
101^5	128	Shale, cream-coloured, bedding at 60' - 70' darker sections finely banded with quartzite & limestone.	99.0	100.0	1.0	0.5														
			100.0	105.0	5.0	4.5														
			105.0	110.0	5.0	5.0														
		103^5 - 104^2 Limestone, mottled by many calcite threads, slightly mineralized with sphalerite and galena.	110.0	112.0	2.0	1.5														
			112.0	117.0	5.0	2.5														
			117.0	121.0	4.0	1.0														
			121.0	124.0	3.0	1.5														
		107^5 - 2" as above	124.0	126.0	2.0	1.0														
		114 - 2" as above	126.0	128.0	2.0	1.5														
		115 - 1" as above																		
	128	END OF HOLE NO.13																		

HOLE NO. 14

LOCATION: 0+03N 1+86W
BEARING:
ELEVATION: 515.8
DIP: Vertical

OVERBURDEN: 25.0'
TOTAL LENGTH: 135.0'
CORE RECOVERY: 30%

STARTED August 27th 1951
COMPLETED: September 1, 1951
LOGGED BY: S. Norman Kesten
DATE: September 5, 1951

GEOLOGY			Core Recovery				Core Samples							Sludge Samples						
Footage		DESCRIPTION	Footage		Width	Core	Sample	Footage		Width	Assays			Sample	Footage		Width	Assays			Re
From	To		From	To		Length	No.	From	To		Ag-Oz	Pb- %	Zn. %	No.	From	To					co
.0.0	25.0	CASING	25.0	28.0	3.0	0.5															
25.0	28.0	Few Broken pieces shale	28.0	32.0	4.0	0.2															
28.0	36.0	Quartzite, white, fine-grained massive, sparse fine pyrite.	32.0	36.0	4.0	0.8															
			36.0	39.0	3.0	1.3															
36.0	53.0	Shale, cream-coloured, with narrow (1/16") bands of grey at 45', scattered fine pyrite threads parallel to bedding, sparse disseminated fine pyrite.	39.0	41.0	2.0	0.6															
			41.0	46.0	5.0	1.4															
			46.0	49.0	3.0	0.5															
			49.0	51.0	2.0	0.8															
		43.5 - Slickensides at 45' on end of piece of core - shear, or fault (?)	51.0	53.0	2.0	0.8															
			53.0	58.0	5.0	0.6															
		46.0 - Little quartzite at 70'	58.0	61.0	3.0	1.0															
53.0	79.0	Limestone, light grey, fine grained, massive some evidence of bedding at 70'	61.0	64.0	3.0	0.8															
			64.0	67.0	3.0	1.3															
		At 53, 58, 61 - few fragments of pyritic quartz at start of runs(?) probably cave.	67.0	70.0	3.0	0.8															
			70.0	73.0	3.0	1.2															
		60.0 - 62.0 Shale, as 36-53, bedding 70	73.0	75.0	2.0	1.0															
		67.0 - 72.0 Shale, as 36-53, bedding 70	75.0	78.0	3.0	1.8															
		74.0 - 79.0 Considerable fine pyrite sparse disseminated galena, little sphalerite	78.0	82.0	4.0	2.0	9991	74.0	79.0	5.0	Tr.	0.05	Tr	9997	73.0	82.0	9.0	0.10	0.25	Tr.	

HOLE NO.14 Sheet 2.

LOCATION: _____
BEARING: _____
ELEVATION: _____
DIP: _____

OVERBURDEN: _____
TOTAL LENGTH: _____
CORE RECOVERY: _____

STARTED _____
COMPLETED: _____
LOGGED BY: _____
DATE: _____

GEOLOGY			Core Recovery				Core Samples							Sludge Samples					
Footage		DESCRIPTION	Footage		Width	Core Length	Sample No.	Footage		Width	Assays			Sample No.	Footage		Width	Assays	
From	To		From	To				From	To		Ag-Oz	Pb- %	Zn. %		From	To			
79.0	95.0	Shale, cream-coloured, fine beds white limestone (1/8") at 70'. mineral practically absent. 85.0 - 88.0 Limestone	82.0	86.0	4.0	2.0													
			86.0	88.0	2.0	0.5													
			88.0	92.0	4.0	1.0													
			92.0	95.0	3.0	1.0													
95.0	113.0	Limestone. Light grey, fine grained some bedding at 60-70', narrow bands shale 95.0 - 97.0 Coarse pyrite, probably some galena & sphalerite 107.0 - 109.0 Banded creamy & grey shale at 70' 111.5 Fragments of a white quartz vein probably parallel to core	95.0	98.0	3.0	1.0	9992	95.0	97.0	2.0	0.10	0.05	0.50	9998	95.0	98.0	3.0	Tr.	0.05	Tr.
			98.0	101.0	3.0	0.5													
			101.0	104.0	3.0	1.0													
			104.0	106.0	2.0	0.5													
			106.0	110.0	4.0	1.5													
			110.0	113.0	3.0	1.5													
			113.0	116.0	3.0	1.5													
			116.0	121.0	5.0	0.0													
			121.0	126.0	5.0	0.5													
113.0	116.0	Shale, as 107.0 - 109.0	126.0	132.0	6.0	2.0													
116.0	121.0	Sand and Mud reported	132.0	135.0	3.0	1.0													
121.0	126.0	Quartz-carbonated vein material - little galena, chloritized sediments 116.0 - 126.0 Fault Zone(?)																	
126.0	133.5	Shale and limestone, bedding 30 - 60', shale predominates. 131.0 Narrow shear at 30', little sphalerite. 132.0 Quartz with pyrite - cave																	
133.5	135.0	Limestone, as 95.0 - 113.0																	
135.0		END HOLE NO.14 Hole caved from 40.0 probably to bottom and could not be continued.																	

PROPERTY - McMillan, Yukon Territory
LOCATION: DH #15
BEARING:
ELEVATION: 536.08
DIP: -90°

HOLE NO. 15
OVERBURDEN: 40.0'
TOTAL LENGTH: 216.0'
CORE RECOVERY: 72.6%

SHEET #1
STARTED June 11, 1952
COMPLETED: June 20, 1952
LOGGED BY: C. J. Coveney & D. Olson
DATE: June 20, 1952

GEOLOGY			Core Recovery				Core Samples							Sludge Samples						
Footage		DESCRIPTION	Footage		Width	Core Length	Sample No.	Footage		Width	Assays			Sample No.	Footage		Width	Assays			Recoveries
From	To		From	To				From	To		oz-Oz	Pb- %	Zn. %		From	To		Ag oz	Pb oz	Zn %	
		Started drilling on 11 June. At 42.0 struck old casing left in hole from previous year. Hole abandoned on 14 June. New setup moved 5' farther north and started drilling afternoon shift on 14 14 June. Holed cased to 54.0'																		
0	40.0	Overburden	40.0	42.0	2.0	2.0														
40.0	46.3	Limestone-bluish, fine grained with crossing veinlets filled with white calcite. A few stylolites at 42.5'	42.0	45.6	3.6	3.1														
			45.6	46.3	0.7	0.7														
46.3	52.7	Limestone-similar to above but light gray in colour. Minor calcite veinlets between 47.4-52.0'	46.3	47.4	1.1	0.6														
			47.4	52.0	4.6	3.6														
			52.0	54.0	2.0	2.0														
52.7	60.0	Argillite-generally white to greenish-gray in colour with scattered darker gray bands of argillite up to ¾" in width.	54.0	58.0	4.0	1.8														
			58.0	60.0	2.0	2.00														
		At 52.7 banding is 80° to the core " 55.0 " " 70° " " " " 59.0 " " 60° " " " " 59.5 " " 45° " " "																		
		Last 1' of section shows some quartzitic bands and grades into the following section.																		
60.0	62.0	Quartzite-gray, weakly banded 70° to the core. A few specks of pyrite. For the most part the section consists of broken buttons.	60.0	62.0	2.0	2.0														
			62.0	63.0	1.0	0.2														
			63.0	65.0	2.0	1.5														
			65.0	67.0	2.0	1.3														
62.0	67.0	Argillite-greenish gray in colour with some narrow, harder, dark gray argillite bands. About 75% of the section is composed of the greenish argillite. Banding at 64.5' is 70° to the core																		
67.0	72.5	Quartzite-fine grained with narrow bands of creamy gray argillite. Gradation of grain size very distinct in the quartzite at contact with the above section.	67.0	70.5	3.5	1.6														
			70.5	72.5	2.0	0.7														

PROPERTY - McMillan, Yukon Territory
LOCATION: DH #15

HOLE NO. 15

SHEET #2

BEARING: _____ OVERBURDEN: _____ COMPLETED: _____

ELEVATION: _____ TOTAL LENGTH: _____ LOGGED BY: _____

DIP: _____ CORE RECOVERY: _____ DATE: _____

GEOLOGY			Core Recovery				Core Samples						Sludge Samples						
Footage		DESCRIPTION	Footage		Width	Core Length	Sample No.	Footage		Width	Assays			Sample No.	Footage		Width	Assays			Re-coveries
From	To		From	To				From	To		Ag-Oz	Pb- %	Zn. %		From	To		Ag oz	Pb oz	Zn %	
		At 67.0' banding 70° to the core. Broken buttons between 69.5 - 72.5'																			
72.5	110.8	Argillite-greenish gray with interbands of darker gray argillite. Banding well developed. At 102.3-102.9' small fault with 1/8" displacement. At 87.5' banding is 75° to core. At 101.5' banding is 75° to core. 4" ground core at 95.5'.	72.5	75.5	3.0	1.6															
			75.5	77.5	2.0	1.3															
			77.5	79.0	1.5	0.3															
			79.0	81.0	2.0	1.5															
			81.0	84.5	3.5	2.3															
			84.5	89.0	4.5	3.4															
			89.0	94.0	5.0	3.2															
			94.0	99.0	5.0	2.9															
			99.0	101.0	2.0	2.0															
			101.0	106.0	5.0	4.5															
			106.0	109.0	3.0	0.7															
			109.0	110.8	1.8	1.3															
110.8	116.0	Quartzite-medium grained. Appears to be loosely cemented. Small amount of effervescences with dilute HCl-probably due to some calcareous cement. Occasional speck of pyrite. NOTE: This band is very distinctive and may serve as a marker	110.8	114.0	3.2	1.7															
			114.0	116.0	2.0	2.0															
116.0	119.0	Argillite-gray green showing some contortion. Minor brecciation. Weakly mineralized.	116.0	119.0	3.0	2.5	5153	116.0	119.0	3.0	0.12	tr	tr	5157	115.0	120.0	5.0				
119.0	121.4	Argillite-Similar to above but as contorted. Suggestion of brecciation.	119.0	121.4	2.4	2.4	5154	119.0	121.4	2.4	0.10	tr	tr								
121.4	122.2	Quartzite-grayish. Weak mineralization. A scattering of garnets and some minute cubes of pyrite.	121.4	122.2	0.8	0.8	5155	121.4	122.2	0.8	0.9	3.0	2.8	5158	120.0	127.0					
122.2	126.7	Argillite-grayish green. Barren.	122.2	126.7	4.5	2.8	5156	122.2	126.7	4.5	0.12	tr	tr	5159	127.0	132.0					
126.7	127.9	Quartzite-gray, fine grained with minor gray-green argillite bands.	126.7	127.9	1.2	1.2															
127.9	135.0	Argillite-gray-green for most part. Weak to fair banding with some quartzite interbands. 2" band at 130.0' 4" band at 131.0' 2" band at 132.6'	127.9	130.0	2.1	1.6															
			130.0	132.7	2.7	2.3															
			132.7	133.7	1.0	0.7															
			133.7	135.0	1.3	0.6															

PROPERTY - McMillan, Yukon Territory
LOCATION: DH #15
BEARING: _____
ELEVATION: _____
DIP: _____

HOLE NO. 15
OVERBURDEN: _____
TOTAL LENGTH: _____
CORE RECOVERY: _____

SHEET #3
STARTED _____
COMPLETED: _____
LOGGED BY: _____
DATE: _____

GEOLOGY			Core Recovery				Core Samples							Sludge Samples						
Footage		DESCRIPTION	Footage		Width	Core Length	Sample No.	Footage		Width	Assays			Sample No.	Footage		Width	Assays			Recoveries
From	To		From	To				From	To		Ag-Oz	Pb- %	Zn. %		From	To		Ag oz	Pb oz	Zn %	
135.0	137.8	Quartzite-fine grained. Banding 75° to core. Broken buttons 136.0-136.5'.	135.0	136.0	1.0	0.4														
			136.0	137.8	1.8	1.8														
137.8	148.0	Argillite-greenish gray with narrow gray quartzite bands at 139.0' and 144.2'. Banding at 145.0' is 45° to the core.	137.8	139.9	2.1	2.1														
			139.9	141.8	1.9	1.2														
			141.8	144.5	2.7	2.7														
			144.5	147.7	3.2	1.5														
			147.7	148.0	0.3	0.3														
148.0	148.2	Quartzite-gray, fine grained. Some white quartz cutting core at various angles. Banding 65° to core.	148.0	148.2	0.2	0.2														
148.2	151.0	Argillite-At 150.0' banding 35° to core. Shattered zone (?)	148.2	150.6	2.4	1.9														
			150.6	151.0	0.4	0.4														
151.0	152.0	Quartzite-gray, fine grained. Vague banding 45° to core.	151.0	152.0	1.0	1.0														
152.0	216.0	Argillite-well banded-light and dark gray bands. Limy in part with the darker bands more limy than the light. 2" fine grained quartzite at 156.8' Banded 60° to core. 2" fine grained quartzite at 168.0'. White quartz stringers and veins from 182.0-184.7'. Small fault at 191.0' with ¼" displacement. At 186.0' banding 60° to core. At 212.5' banding 60° to core. End of Hole	152.0	155.5	3.5	2.5														
			155.5	157.5	2.0	1.8														
			157.5	160.0	2.5	0.7														
			160.0	165.0	5.0	5.0														
			165.0	169.5	4.5	4.0														
			169.5	172.0	2.5	2.5														
			172.0	177.0	5.0	4.4														
			177.0	180.0	3.0	3.0														
			180.0	182.0	2.0	0.7														
			182.0	184.5	2.5	0.6														
			184.5	189.5	5.0	5.0														
			189.5	194.5	5.0	5.0														
			194.5	197.0	2.5	2.2														
			197.0	199.0	2.0	2.0														
			199.0	201.5	2.5	1.0														
			201.5	204.7	3.2	1.1														
			204.7	207.0	2.3	0.8														
			207.0	208.0	1.0	0.7														
			208.0	210.5	2.5	1.0														
			210.5	212.5	2.0	1.1														
			212.5	216.0	3.5	2.5														

RECOVERY

Depth of hole	216.0'
Depth of overburden	40.0'
Footage drilled in rock	176.0'
Total core recovered	127.8'
Overall core recovery $\frac{100 \times 127.8}{176.0}$	= 72.6 %
Recovery in limestone $\frac{100 \times 10}{12.7}$	= 78.6 %
Recovery in argillite $\frac{100 \times 117.8}{163.3}$	= 72.1 %

PROPERTY - McMillan, Yukon Territory
LOCATION: 4+00 N 3+00 E
BEARING: --
ELEVATION: 518.4'
DIP: -90°

HOLE NO. 16
OVERBURDEN: 78.0'
TOTAL LENGTH: 199.0'
CORE RECOVERY: 84.7%

SHEET #1
STARTED June 22, 1952
COMPLETED: June 26, 1952
LOGGED BY: C. J. Coveney and D. Olson
DATE: June 30, 1952

GEOLOGY			Core Recovery				Core Samples							Sludge Samples						
Footage		DESCRIPTION	Footage		Width	Core Length	Sample No.	Footage		Width	Assays			Sample No.	Footage		Width	Assays			Recoveries
From	To		From	To				From	To		Ag-Oz	Pb- %	Zn. %		From	To		Ag oz	Pb oz	Zn %	
		Holed cased to 80.0'																		
0.0	78.0	Overburden																		
78.0	80.0	Quartzite-gray, broken buttons and chips. One button of cherty-quartzite showing brecciation.	78.0	80.0	2.0	1.5														
			80.0	82.0	2.0	1.5														
			82.0	85.0	3.0	1.8														
80.0	85.0	Argillite-cream colored with some fine laminations 80° to the core. A few dark gray argillite band about ½" in width. Grades into the following section.	85.0	87.0	2.0	1.0														
			87.0	90.0	3.0	0.5														
			90.0	91.7	1.7	1.0														
			91.7	94.0	2.3	2.3														
85.0	95.5	Mainly gray fine grained quartzite, banded 80-85° to core. Occasional bands of narrow argillite. The argillite bands increase towards the end of section. Much of the core is broken button and it is impossible to give definite footages for the argillite bands.	94.0	95.5	1.5	1.0														
			95.5	97.0	1.5	1.0														
			97.0	99.0	2.0	1.3														
			99.0	100.5	1.5	1.5														
			100.5	103.0	2.5	1.2														
			103.0	103.5	0.5	0.5														
			103.5	106.0	2.5	1.7														
95.5	99.0	Argillite-gray, fine grained, broken buttons.	106.0	107.7	1.7	1.4														
			107.7	110.7	3.0	2.7														
99.0	100.5	Quartzite-gray, fine grained.	110.7	112.3	1.6	1.6														
100.5	103.5	Argillite-dark gray with a few greenish gray bands 85° to the core.																		
103.5	112.3	Argillite-dark gray with some fine laminations and light greenish-gray bands 80° to core. 2" band of gray quartzite at 104.5' 2" band of gray quartzite at 106.5' 2" section at 107.7' shows fine laminated contortions.																		
112.3	112.7	Limestone-gray, medium grained.-	112.3	112.7	0.4	0.4														
112.7	115.5	Argillite-dark gray with some irregular patches and bands of greenish argillite. The argillite is finely laminated many of which are contorted with small displacement. Near the start of section there is a small fragment of gray limestone (½"x½") in the argillite. The rock appears to have undergone some	112.7	115.5	2.8	2.8														
			115.5	125.6	10.1	10.1														
			125.6	128.0	2.4	2.1														
			128.0	132.5	4.5	4.5														
			132.5	137.0	4.5	4.5														
			137.0	141.5	4.5	4.5														

PROPERTY - McMillan, Yukon Territory | HOLE NO. 16 | SHEET #2

LOCATION: _____ | STARTED: _____

BEARING: _____ | OVERBURDEN: _____ | COMPLETED: _____

ELEVATION: _____ | TOTAL LENGTH: _____ | LOGGED BY: _____

DIP: _____ | CORE RECOVERY: _____ | DATE: _____

GEOLOGY			Core Recovery				Core Samples							Sludge Samples						
Footage		DESCRIPTION	Footage		Width	Core Length	Sample No.	Footage		Width	Assays			Sample No.	Footage		Width	Assays			Recoveries
From	To		From	To				From	To		Ag-Oz	Pb- %	Zn. %		From	To		Ag oz	Pb oz	Zn %	
		squeezing. Towards the end of the section some quartzite bands appear and grades into the following.																		
115.5	132.5	Quartzite-gray, fine grained with some thready argillite partings about 85° to the core. There are some argillite bands throughout the section but they are small in number. At 129.0' some white quartz 10° to core.																		
132.5	137.0	Argillite-dark gray, banded 85° to core. Fairly sharp contact with the following.																		
137.0	141.5	Limestone-gray-blue, with some minor crosscutting veinlets of white calcite.																		
141.5	142.8	Quartzite and Argillite interbanded 85° to core. 2" white quartz at end of section.	141.5	142.8	1.3	1.3														
142.8	145.0	Limestone-dark gray with a multiplicity of narrow white calcite veinlets. (shattered zone) Brecciation at 153.0'. Quartzite 146.0' - 146.8'.	142.8	145.0	2.2	2.2														
			145.0	145.7	0.7	0.7														
			145.7	146.4	0.7	0.7														
			146.4	147.2	0.8	0.8														
			147.2	150.8	3.6	3.6														
			150.8	153.0	2.2	1.8														
145.0	145.7	Quartzite and Argillite buttons about 50-50	153.0	159.3	6.3	6.3														
145.7	146.4	Limestone-blue-gray, banded 75-80° to the core.																		
146.4	147.2	Argillite-buttons.																		
147.2	159.3	Limestone-blue-gray with numerous calcite filled veinlets.																		
159.3	163.6	Limestone-hard silicified with small patches of dolomite and siderite brecciated at 161.0'. Some specks of lead and zinc scattered throughout the section. (The section in part resembles a limy quartzite)	159.3	163.6	4.3	4.0	5160	159.3	163.6	4.3	.20	.43	1.80	5168	158.0	163.0	5.0			
163.6	167.8	Limestone-dark gray with some narrow partings of argillite cutting core at various angles. Section weakly mineralized 164.1-164.8'. White quartz with	163.6	167.8	4.2	4.2	5161	163.6	167.8	4.2	.30	.32	0.90	5169	163.0	168.0	5.0			

PROPERTY - McMillan, Yukon Territory | HOLE NO. 16 | SHEET #3

LOCATION: _____ | STARTED _____

BEARING: _____ | OVERBURDEN: _____ | COMPLETED: _____

ELEVATION: _____ | TOTAL LENGTH: _____ | LOGGED BY: _____

DIP: _____ | CORE RECOVERY: _____ | DATE: _____

GEOLOGY			Core Recovery				Core Samples							Sludge Samples						
Footage		DESCRIPTION	Footage		Width	Core Length	Sample No.	Footage		Width	Assays			Sample No.	Footage		Width	Assays			Recoveries
From	To		From	To				From	To		Ag-Oz	Pb- %	Zn. %		From	To		Ag oz	Pb oz	Zn %	
		some blebs of lead and zinc. 165.2' - 166.3' light gray limestone. From 166.3 to end of section good evidence of brecciation.																		
167.8	169.7	Limestone(?)-hard, silicified. Slight effervesence. (Possibly limy quartzite?) Good mineralization for first 3 or 4" of section that cut core at 30°. Remainder of section weak.	167.8	169.7	1.9	1.9	5162	167.8	169.7	1.9	0.10	trace	3.60	5170	168.0	173.0	5.0			
169.7	173.0	Limestone-dark gray brecciated. Some fine crisscrossing veinlets of calcite, dolomite and siderite (?) Barren.	169.7	173.0	3.3	3.0	5163	169.7	173.0	3.3	0.10	trace	trace	5171	173.0	178.0	5.0			
173.0	176.0	Limestone-partly impure. Occasional dolomite. Some irregular thready argillite partings 173.5-173.8' gray quartzite.	173.0	176.0	3.0	3.0	5164	173.0	176.0	3.0	0.40	0.05	0.30							
176.0	178.4	Argillite-dark gray, limy in part. Banding 70° to core . At 177.0' small irregular shaped fragment of silicified limestone similar to that between 167.8-169.7'. Weakly mineralized. Last 6" of core shows brecciated fragments of argillite and limestone.	176.0	178.4	2.4	2.4	5165	176.0	178.4	2.4	0.30	0.43	1.10	5172	178.0	183.0	5.0			
178.4	180.9	Quartzite-calcareous. Scattered lead and zinc.	178.4	180.9	2.5	2.5	5166	178.4	180.9	2.5	0.30	0.43	2.00							
180.9	183.5	Argillite-partly limy and partly quartzitic. 181.4-183.6' pink colored argillite. Barren.	180.9	183.5	2.6	2.6	5167	180.9	183.5	2.6	0.10	trace	trace							
183.5	187.5	Argillite-cream colored with some darker argillite bands up to 2" in width at 80° to the core.	183.5	185.5	2.0	2.0								5173	183.0	188.0	5.0			
			185.5	187.5	2.0	1.0								5174	188.0	190.9	2.9			
187.5	190.9	Argillite and Quartzite-buttons	187.5	190.9	3.4	0.5								5175	190.9	196.0	5.1			
190.9	195.0	No core. (fault?)	190.9	195.0	4.1	4.1														
195.0	199.0	Argillite-cream colored, broken buttons	195.0	197.5	2.5	0.5														
			197.5	199.0	1.5	1.0														
		Possible altered, silicified zone from 159.3-176.0'. End of Hole.																		

PROPERTY - McMillan, Yukon Territory
LOCATION: _____
BEARING: _____
ELEVATION: _____
DIP: _____

HOLE NO. 16
OVERBURDEN: _____
TOTAL LENGTH: _____
CORE RECOVERY: _____

SHEET #4
STARTED _____
COMPLETED: _____
LOGGED BY: _____
DATE: _____

GEOLOGY			Core Recovery				Core Samples							Sludge Samples						
Footage		DESCRIPTION	Footage		Width	Core Length	Sample No.	Footage		Width	Assays			Sample No.	Footage		Width	Assays			Recoveries
From	To		From	To				From	To		Ag-Oz	Pb- %	Zn. %		From	To		Ag oz	Pb oz	Zn %	
		Depth of hole 199.0' Overburden 78.0' 121.0' Core recovered 102.5' Core lost 18.5' Core Recovery $\frac{100 \times 102.5}{121.0}$ = 84.7%																		

PROPERTY - McMillan, Yukon Territory
LOCATION: 4+00 N 0+00 E
BEARING: --
ELEVATION: 507.4'
DIP: -90°

HOLE NO. 17

OVERBURDEN: 27.5'
TOTAL LENGTH: 167.0'
CORE RECOVERY: 65.5%

SET #1
STARTED June 29, 1952
COMPLETED: July 2, 1952
LOGGED BY: C. J. Coveney and D
DATE: July 4, 1952

GEOLOGY			Core Recovery				Core Samples							Sludge Samples				
Footage		DESCRIPTION	Footage		Width	Core Length	Sample No.	Footage		Width	Assays			Sample No.	Footage		Width	Assay
From	To		From	To				From	To		Ag-Oz	Pb- %	Zn. %		From	To		Ag-oz
		Holed cased to 30.0'																
0.0	27.5	Overburden																
27.5	29.3	Argillite-cream colored, dense. No visible banding. A few buttons of brownish quartzite at start of section.	27.5	29.3	1.8	1.5												
29.3	52.5	Quartzite-gray, fine grained.	29.3	31.5	2.2	2.0												
		At 37.0' banding 15° to core.	31.5	32.0	0.5	0.5												
		At 38.7' banding 20° to core.	32.0	36.8	4.8	3.0												
		At 47.0' banding 40° to core	36.8	40.3	3.5	3.0												
		2" white quartz at 44.5'.	40.3	43.0	2.7	1.7												
			43.0	44.5	1.5	1.0												
			44.5	46.3	1.8	1.4												
			46.3	48.8	2.5	2.1												
			48.8	49.8	1.0	0.2												
			49.8	51.0	1.2	0.7												
			51.0	52.5	1.5	1.0												
52.5	58.0	Mainly gray quartzite with narrow green argillite at 55° to core. A scattering of fine pyrite on fractured surfaces.	52.5	54.0	1.5	1.5												
			54.0	58.0	4.0	0.5	5176	52.5	58.0	5.5	0.05	trace	trace	5195	48.0	53.0	5.0	
														5196	53.0	58.0	5.0	
58.0	60.0	Quartzite-gray, fine grained. Broken buttons with weak pyrite and occasional speck of lead. Banding 60° to core.	58.0	60.0	2.0	1.8	5177	58.0	60.0	2.0	0.05	trace	trace	5197	58.0	63.0	5.0	
60.0	65.2	Quartzite-slightly coarser than above section.																
		Vague banding 55° to core. A scattering	60.0	61.2	1.2	1.0												
		of lead and zinc particularly in first	61.2	63.0	1.8	0.8												
		foot. Mineralization appears to follow	63.0	65.2	2.2	1.5								5198	63.0	67.3	4.3	
		thread like fractures that cut the core					5178	60.0	65.2	5.2	0.40	0.97	trace					
		at various angles.																
65.2	68.5	Quartzite-gray, fine grained. Weakly	65.2	66.5	1.3	0.4												
		mineralized with pyrite and some lead.	66.5	67.5	1.0	0.2								5199	67.3	70.0	2.7	
			67.5	68.5	1.0	0.8	5179	65.2	68.5	3.3	trace	trace	trace					
68.5	72.8	Quartzite-similar to above.	68.5	71.5	3.0	2.0								5200	70.0	74.3	4.3	
		At 69.5' banding 20° to core.	71.5	71.9	0.4	0.2	5180	68.5	72.8	4.3	trace	0.15	0.30					
		At 72.0' banding 85° to core.	71.9	72.8	0.9	0.9												
72.8	74.9	Argillite (?)-mineralization has fairly well replaced the rock but a few unreplaced buttons suggest the original	72.8	74.9	2.1	1.5								5308	74.3	79.0	4.7	
							5181	72.8	74.9		0.40	1.78	trace					

PROPERTY - McMillan, Yukon Territory | HOLE NO. 17 | SHEET #2

LOCATION: | STARTED:

BEARING: | OVERBURDEN: | COMPLETED:

ELEVATION: | TOTAL LENGTH: | LOGGED BY:

DIP: | CORE RECOVERY: | DATE:

GEOLOGY			Core Recovery				Core Samples							Sludge Samples				
Footage		DESCRIPTION	Footage		Width	Core Length	Sample No.	Footage		Width	Assays			Sample No.	Footage		Width	Assay
From	To		From	To				From	To		Ag-Oz	Pb- %	Zn. %		From	To		Ag-oz
		rock may have been argillite.																
74.9	79.0	Limy Argillite-broken button. Some quartzite.	74.9	77.5	0.6	0.6												
			77.5	79.0	1.5	1.0	5182	74.9	79.0		0.55	1.67	1.20					
79.0	80.5	Quartzite-fine grained, gray. Buttons. A few buttons are high zinc and the rest barren. Some brecciation.	79.0	80.5	1.5	1.3								5309	79.0	84.0	5.0	
							5183	79.0	80.5		0.30	0.86	4.60					
80.5	85.5	Limestone-poorly banded.	80.5	82.5	2.0	1.7												
		80-85% of core barren.	82.5	85.5	3.0	3.0	5184	80.5	85.5		0.10	trace	trace					
85.5	89.8	Limestone-gray. Poorly banded. Numerous calcite filled veinlets at various angles to core. Some minor stylolites. A few buttons of quartzite at end of section.	85.5	89.8	4.3	4.3								5310	84.0	89.0	5.0	0
							5185	85.5	89.8		0.05	0.10	0.20					
89.8	92.0	Quartzite-some mineralization between 89.9-91.8'.	89.8	92.0	2.2	0.7									89.0	94.0	Missing	
							5186	89.8	92.0		trace	0.64	trace					
92.0	96.0	Silicified Limestone (?)-with equal amounts of dolomite and siderite veinlets. Well mineralized. Where rock not mineralized it looks like quartzite.	92.0	96.0	4.0	4.0								5301	94.0	99.0	5.0	
							5187	92.0	96.0	4.0	0.80	1.51	6.80					
96.0	100.0	Similar to above. Well mineralized. Difficult to tell original rock	96.0	100.0	4.0	4.0	5188	96.0	100.0	4.0	2.00	4.48	12.70					
														5302	99.0	105.0	6.0	
100.0	105.0	Rock type similar to above. Rock shows some wormy shaped dolomite (?) Original rock must have contained some argillite and quartzite as some of brecciated fragments are made up of these rocks.	100.0	102.4	2.4	2.0												
			102.4	105.0	2.6	2.2												
							5189	100.0	105.0	5.0	0.65	1.83	3.40					
105.0	109.5	Limestone (?)-hard, silicified. Some dolomite and ankerite. Fair mineralization with pyrite dominating. Section quartzite in part.	105.0	108.5	3.5	3.5												
			108.5	109.5	1.0	0.6	5190	105.0	109.5	4.5	2.00	4.64	7.00	5303	105.0	110.0	5.0	
109.5	111.6	Limestone (?)-hard, silicified. Weak mineralization.	109.5	110.8	1.3	0.9												
			110.8	111.6	0.8	0.4	5191	109.5	111.6	2.1	1.10	3.13	1.60					
111.6	116.0	Argillite-cream colored. Very weak mineralization.	111.6	112.0	0.4	0.4												
			112.0	114.0	2.0	1.7	5192	111.6	116.0	4.4	trace	trace	0.20					
			114.0	116.0	2.0	0.7								5304	110.0	115.0	5.0	
116.0	121.0	Quartzite-gray. 3" heavy pyrite followed by 1½" high zinc at start of	116.0	118.0	2.0	0.8												
			118.0	119.5	1.5	1.0												

PROPERTY - McMillan, Yukon Territory | HOLE NO. 17 | SHEET #3

LOCATION: _____ | STARTED _____

BEARING: _____ | OVERBURDEN: _____ | COMPLETED: _____

ELEVATION: _____ | TOTAL LENGTH: _____ | LOGGED BY: _____

DIP: _____ | CORE RECOVERY: _____ | DATE: _____

GEOLOGY			Core Recovery				Core Samples							Sludge Samples				
Footage		DESCRIPTION	Footage		Width	Core Length	Sample No.	Footage		Width	Assays			Sample No.	Footage		Width	Assays
From	To		From	To				From	To		Ag-Oz	Pb- %	Zn. %		From	To		Ag-oz
		section.	119.5	121.0	1.5	0.5	5193	116.0	121.0	5.0	1.35	2.80	5.20	5305	115.0	120.0	5.0	
121.0	123.0	Argillite-broken buttons, creamy colored. 4" band of gray quartzite with some mineralization at 121.3' at a 2" band at 122.8'. Banding 80-85° to core.	121.0	123.0	2.0	1.8	5194	121.0	123.0	2.0	0.30	0.10	2.20	5306	120.0	125.0	5.0	
123.0	153.0	Mainly cream colored argillite with some interbands of gray quartzite. Weak mineralization associated with the quartzite.	123.0	124.6	1.6	1.6								5307	125.0	130.0	5.0	
			124.6	126.2	1.6	0.8												
			126.2	129.3	3.1	3.1												
			129.3	130.5	1.2	0.2												
			130.5	132.2	1.7	1.7												
			132.2	134.5	2.3	1.3												
			134.5	136.0	1.5	1.0												
			136.0	137.5	1.5	1.0												
153.0	159.2	Quartzite-fine grained, no banding.	137.5	138.7	1.2	0.4												
			138.7	140.5	1.8	0.3												
			140.5	141.0	0.5	0.3												
			141.0	143.0	2.0	1.1												
159.2	160.3	Argillite-gray, buttons.	143.0	145.0	2.0	1.0												
			145.0	146.3	1.3	1.0												
160.3	163.5	Quartzite-gray, buttons	146.3	147.5	1.2	0.4												
			147.5	151.0	3.5	1.2												
163.5	167.0	Argillite-gray.	151.0	152.0	1.0	0.3												
			152.0	153.0	1.0	0.1												
		NOTE: From 92.0-111.6' possible silicified limestone zone. The section effervesces slightly in dilute HCl. The section may be calcareous quartzite. quartzite. Possibly same zone as seen in DD#16 from 159.0-176.0'.	153.0	154.0	1.0	0.4												
			154.0	156.5	2.5	1.0												
			156.5	158.0	1.5	0.5												
			158.0	159.2	1.2	0.4												
			159.2	160.3	1.1	0.4												
			160.3	161.5	1.2	0.3												
		End of hole.	161.5	162.5	1.0	0.5												
		Length of hole 167.0'	162.5	163.5	1.0	0.4												
		Cased to 30.0'	163.5	165.0	1.5	1.0												
		137.0'	165.0	166.5	1.5	0.5												
		Core recovered 90.8'	166.5	167.0	0.5	0.3												
		Core Recovery 90.8 x 100 / 137.0 - 65.5%																

HOLE NO. 87 SHEET NO. 4

BEARING | DIP | CORE RECOVERY | STARTED

PROPERTY MacMillan, Yukon Territory | TOTAL LENGTH | VERT. | HORZ. | COMPLETED

DISTRICT | ELEVATION | OVERBURDEN | LOGGED BY

CO-ORDINATES | PURPOSE | DATE

GEOLOGY			CORE RECOVERY			CORE			SAMPLES					SLUDGE SAMPLES						RE-COVERY	COLOR PLOT
FOOTAGE			FOOTAGE		SHORTS	SAMPLE NO.	FOOTAGE		WIDTH	ASSAYS				SAMPLE NO.	FOOTAGE		WIDTH	ASSAYS				
FROM	TO	DESCRIPTION	FROM	TO			FROM	TO		Ag	Cu	Pb	Zn	Combined	FROM	TO		Ag	Pb	Zn	Combined.		
		Sulphide Intersections	[illegible]	[illegible]			98.0	121.0	23.0	1.10	2.57	5.40		7.97	94.0	120.0	26.0		1.71	1.98	5.72		

[illegible] ROLL

PROPERTY - McMillan, Yukon Territory
LOCATION: 6+00 N 1+00 W
BEARING: _____
ELEVATION: 474.7'
DIP: -90°

HOLE NO. 18
OVERBURDEN: 6.0'
TOTAL LENGTH: 130.0'
CORE RECOVERY: 65.7%

SHEET #1
STARTED _____
COMPLETED: _____
LOGGED BY: C. J. Coveney
DATE: July 8, 1952

GEOLOGY			Core Recovery				Core Samples							Sludge Samples						
Footage		DESCRIPTION	Footage		Width	Core Length	Sample No.	Footage		Width	Assays			Sample No.	Footage		Width	Assays			Recoveries
From	To		From	To				From	To		Ag-Oz	Pb- %	Zn. %		From	To		Ag oz	Pb oz	Zn %	
0.0	6.0	Overburden. Hole reamed to 25.0'																		
6.0	26.1	Argillite-dark gray with irregular patches of olive green scattered throughout the section and showing many minute faults. At 12.5' a well illustrated dragfold the axis of which is about 50° to the core. The limbs of the fold show minute faults. Banding at 25.0' is 20° to the core	6.0 9.0 11.0 22.0	9.0 11.0 22.0 26.1	3.0 2.0 11.0 4.1	3.0 1.0 11.0 3.6														
26.1	26.5	Quartzite-calcareous, porous on outer surface.	26.1	26.5	0.4	0.4														
26.5	28.5	Argillite-gray. Some thin laminations 55° to the core.	26.5	28.5	2.0	1.0														
28.5	32.3	Quartzite-gray. Broken buttons and chips.	28.5 29.9 30.8	29.9 30.8 32.3	1.4 0.9 1.5	0.8 0.2 0.2														
32.3	33.5	Mud-probably ground argillite.	32.3	33.5	1.2	0.3								5327	30.0	35.0	5.0			
33.5	34.3	Argillite and Quartzite-broken buttons.	33.5 34.0	34.0 34.3	0.5 0.3	0.3 0.3														
34.3	36.0	Argillite-gray, with olive green argillite partings. Banding 66° to core.	34.3	36.0	1.7	1.7														
36.0	40.5	Quartzite (?)-calcareous - hard - slight effervescence. Numerous calcite veinlets from 36.0-37.5'. Parts of the core show minute grains of gray quartz, (less than 1 mm.) suggesting the original rock may have been a quartzite, although the outward physical appearance suggest a silicified limestone. Core somewhat mottled.	36.0	40.5	4.5	4.5								5328	35.0	40.0	5.0			
40.5	45.0	Quartzite-fine grained. Barren.	40.5 42.0 44.8	42.0 44.8 45.0	1.5 2.8 0.2	1.0 2.8 0.1	5311	40.5	45.0	4.5	0.3	trace	trace	5329	40.0	45.0	5.0			
45.0	47.3	Quartzite-fine grained. Gray with fair mineralization.	45.0 46.7	46.7 47.3	1.7 0.6	0.5 0.6	5312	45.0	47.3	2.3	3.6	9.9	8.7	5330	45.0	49.0	4.0			

PROPERTY - McMillan, Yukon Territory HOLE NO. 18 SHEET #2

LOCATION: _____ STARTED _____

BEARING: _____ OVERBURDEN: _____ COMPLETED: _____

ELEVATION: _____ TOTAL LENGTH: _____ LOGGED BY: _____

DIP: _____ CORE RECOVERY _____ DATE: _____

GEOLOGY			Core Recovery				Core Samples						Sludge Samples						
Footage		DESCRIPTION	Footage		Width	Core Length	Sample No.	Footage		Width	Assays			Sample No.	Footage		Width	Assays			Recoveries
From	To		From	To				From	To		Ag-Oz	Pb- %	Zn. %		From	To		Ag oz	Pb oz	Zn %	
47.3	51.8	Well mineralized with lead and zinc and fine pyrite. Mineralization has completely replaced the rock.	47.3	51.0	3.7	3.0															
			51.0	51.8	0.8	0.8	5313	47.3	51.8	4.5	7.2	19.6	15.0	5331	49.0	52.0	3.0				
51.8	55.6	Similar to above except for considerable increase in pyrite.	51.8	53.6	1.8	1.4															
			53.6	54.5	0.9	0.4	5314	51.8	55.6	3.8	5.7	12.8	10.7	5332	53.6	56.8	3.2				
			54.5	55.6	1.1	0.3															
55.6	60.6	Well mineralized. Original rock completely replaced.	55.6	56.8	1.2	1.2	5315	55.6	60.6	5.0	2.3	3.2	18.2	5333	56.8	58.5	1.7				
			56.8	57.4	0.6	0.5								5334	58.5	60.6	2.1				
			57.4	58.5	1.1	1.1	5316	60.6	64.5	3.9	6.1	21.7	19.6	5335	60.6	65.0	4.4				
			58.5	59.0	0.5	0.4															
			59.0	59.7	0.7	0.4															
			59.7	60.6	0.9	0.2															
60.6	64.5	Similar to above.	60.6	61.5	0.9	0.4															
			61.5	62.3	0.8	0.3															
			62.3	64.5	2.2	0.3															
64.5	70.0	Similar to above. Original rock completely replaced by lead, zinc and pyrite.	64.5	67.0	2.5	2.2															
			67.0	68.0	1.0	0.5															
			68.0	68.8	0.8	0.2	5317	64.5	70.0	5.5	9.9	28.6	10.5	5336	65.0	70.0	5.0				
			68.8	70.0	0.1	0.1															
70.0	75.0	High mineralization. Heavy lead and zinc with some narrow pyrite bands. Some boulangerite?	70.0	73.7	3.7	3.7															
			73.7	75.0	1.3	0.7	5318	70.0	75.0	5.0	9.5	21.8	24.5	5337	70.0	75.0	5.0				
75.0	79.6	High mineralization. Association similar to above.	75.0	75.3	0.3	0.3															
			75.3	76.5	1.2	0.9	5319	75.0	79.6	4.6	9.5	23.0	25.7	5338	75.0	80.0	5.0				
			76.5	78.3	1.8	0.8															
			78.3	79.6	1.3	1.3															
79.6	81.0	High mineralization. Original rock completely replaced	79.6	81.0	1.4	1.4	5320	79.6	81.0	1.4	9.5	24.7	21.5								
81.0	82.2	Limestone-(?) siliceous - partly dolomitic. Fair mineralization. Some mottling.	81.0	82.2	1.2		5321	81.0	82.2	1.2	2.5	5.6	8.0	5339	80.0	84.0	4.0				
82.2	86.6	Quartzite-(?) calcareous. Possibly siliceous limestone. Quartz grains similar section 36.0-40.5'. Some irregular argillite partings. Rock may originally an impure limestone marking the grad-	82.2	84.0	1.8	1.8															
			84.0	84.7	0.7	0.4															
			84.7	86.3	1.9	1.9	5322	82.2	86.6	4.4	0.5	0.64	0.6	5340	84.0	87.3	3.3				

PROPERTY - McMillan, Yukon Territory | HOLE NO. 18 | SHEET #3

LOCATION: _____ | STARTED _____

BEARING: _____ | OVERBURDEN: _____ | COMPLETED: _____

ELEVATION: _____ | TOTAL LENGTH: _____ | LOGGED BY: _____

DIP: _____ | CORE RECOVERY: _____ | DATE: _____

GEOLOGY			Core Recovery				Core Samples							Sludge Samples						
Footage		DESCRIPTION	Footage		Width	Core Length	Sample No.	Footage		Width	Assays			Sample No.	Footage		Width	Assays		Recoveries
From	To		From	To				From	To		Ag-Oz	Pb- %	Zn. %		From	To		Ag oz	Pb oz	Zn %	
		ation zone. Weakly mineralized. some mottling.																		
86.6	88.5	Quartzite (?)-Fair mineralization between 86.6-87.7', Heavy mineralization 87.7-88.5'.	86.6	88.5	1.9	1.9	5323	86.6	88.5	1.9	5.6	11.8	8.2	5341	87.3	89.0	1.7		6.3	8.7	
88.5	91.0	Argillite-broken buttons. Practically barren.	88.5	89.2	0.7	0.3	5324	88.5	91.0	2.5	0.4	0.1	1.3								
			89.2	90.3	1.1	0.7															
			90.3	91.0	0.7	0.5															
91.0	94.5	Quartzite-fine to medium grained. Pyrit	91.0	94.5	3.5	0.7	5325	91.0	94.5	3.5	0.3	trace	trace	5342	89.0	94.0	5.0				
94.5	95.0	Argillite-Broken buttons.	94.5	95.0	0.5	0.5	5326	94.5	95.0	0.5	0.3	trace	trace								
95.0	100.0	Argillite-green, broken buttons and chips.	95.0	97.5	2.5	2.5								5343	94.0	99.0	5.0				
			97.5	100.0	2.5	0.5															
100.0	104.9	Quartzite-gray, broken buttons and chip	100.0	101.5	1.5	0.6								5344	99.0	102.0	3.0				
			101.5	104.9	3.4	1.4															
104.9	106.8	Argillite-green.	104.9	106.9	1.9	0.4								5345	102.0	106.7	4.7				
106.8	130.0	Hole drilled from 106.8-130.0' with plugged bit and sludge carefully inspected. Sludge showed rock to be argillite.												5346	106.7	110.9	4.2				
														5347	110.9	115.0	4.1				
														5348	115.0	120.0	5.0				
														5349	120.0	125.0	5.0				
														5350	125.0	130.0	5.0				
		End of hole.																			

Length of hole 130.0'

Footage drilled with plugged bit 23.2'

106.8'

Core recovered 70.2'

Core lost 36.6'

Core recovery $\frac{70.2 \times 100}{106.8} = 65.7\%$

PROPERTY - McMillan, Yukon Territory
LOCATION: 8+00 N 2+00 W
BEARING: _____
ELEVATION: 481.09'
DIP: -90°

HOLE NO. 19
OVERBURDEN: 8.0'
TOTAL LENGTH: 150.0'
CORE RECOVERY: 53.3%

SHEET #1
STARTED July 9, 1952
COMPLETED: July 13, 1952
LOGGED BY: C. J. Coveney
DATE: July 15, 1952

GEOLOGY			Core Recovery				Core Samples							Sludge Samples						
Footage		DESCRIPTION	Footage		Width	Core Length	Sample No.	Footage		Width	Assays			Sample No.	Footage		Width	Assays			Recoveries
From	To		From	To				From	To		Ag-Oz	Pb- %	Zn. %		From	To		Ag oz	Pb oz	Zn %	
0.0	8.0	Overburden.																			
0.0	15.0	Casing drilled to 15.0'.																			
15.0	21.8	Quartzite-mainly buttons, gray, rusted on broken surface.	10.0	13.0	3.0	0.6															
			13.0	17.0	4.0	0.7															
			17.0	19.0	2.0	1.0															
			19.0	19.9	0.9	0.9															
			19.9	21.8	1.9	1.1															
21.8	33.3	Mainly ground gray argillite and a few chips and broken buttons. At 24.0' a few buttons of white quartzite.	21.8	24.0	2.2	0.7															
			24.0	27.0	3.0	0.5															
			27.0	28.3	1.3	0.5															
			28.3	31.0	2.7	0.5															
			31.0	32.3	1.3	0.8															
			32.3	33.3	1.0	0.5															
33.3	45.4	Argillite-gray with irregular parting of olive green argillite. Some minute faulting. Banding at 42.0' is 50° to core. Banding at 45.5' is 55° " " Some contortions at 42.0' with a small fragment of gray quartzite in the argillite. Drag folding at 44.0'.	33.3	36.2	2.9	1.5															
			36.2	37.5	1.3	0.8															
			37.5	38.7	1.2	0.5															
			38.7	40.1	1.4	0.6															
			40.1	41.5	1.4	0.6															
			41.5	43.0	1.5	1.5															
			43.0	44.4	1.4	0.8															
			44.4	45.4	1.0	0.7															
45.4	57.5	Quartzite-gray massive. Banding at 47' is 40° to core. Between 48.0' and 57.5' mainly buttons. Some brecciation at 57.5'.	45.4	46.2	0.8	0.6															
			46.2	48.0	1.8	1.7															
			48.0	49.5	1.5	0.5															
			49.5	50.4	0.9	0.9															
			50.4	52.2	1.8	0.6															
			52.2	53.0	0.8	0.5															
			53.0	53.7	0.7	0.6															
			53.7	54.9	1.2	0.5															
			54.9	57.5	2.6	0.5															
57.5	60.1	Mainly quartzite buttons. (Probably contained narrow argillite bands)	57.5	58.5	1.0	0.3															
			58.5	60.1	1.6	0.6															
60.1	62.8	Limestone with crisscrossing veinlets of white calcite. At 61.0' some irregular argillite partings	60.1	61.0	0.9	0.5															
			61.0	62.0	1.0	1.0															
			62.0	62.7	0.7	0.4															

PROPERTY - McMillan, Yukon Territory
LOCATION: _____
BEARING: _____
ELEVATION: _____
DIP: _____

HOLE NO. 19
OVERBURDEN: _____
TOTAL LENGTH: _____
CORE RECOVERY: _____

SHEET #2
STARTED _____
COMPLETED: _____
LOGGED BY: _____
DATE: _____

GEOLOGY			Core Recovery				Core Samples							Sludge Samples						
Footage		DESCRIPTION	Footage		Width	Core Length	Sample No.	Footage		Width	Assays			Sample No.	Footage		Width	Assays			Recoveries
From	To		From	To				From	To		Ag-Oz	Pb- %	Zn. %		From	To		Ag oz	Pb oz	Zn %	
62.8	67.7	Argillite-gray with some fine laminations 75° to the core.	62.7	63.5	0.8	0.5														
			63.5	65.0	1.5	0.5														
			65.0	67.0	2.0	1.0														
			67.0	67.7	0.7	0.7														
67.7	70.6	Limestone-gray.	67.7	68.2	0.5	0.5														
			68.2	69.7	1.5	1.2														
			69.7	70.6	0.9	0.9														
70.6	72.0	Quartzite-calcareous. A few specks of pyrite.	70.6	71.4	0.8	0.3														
			71.4	72.0	0.6	0.3														
72.0	79.0	Limestone-gray, minor calcite veinlets. Banding at 77.0' is 50° to core.	72.0	73.0	1.0	0.8														
			73.0	74.4	1.4	0.7														
			74.4	75.2	0.8	0.8														
			75.2	76.3	1.1	1.1														
			76.3	78.3	2.0	1.3														
			78.3	79.0	0.7	0.6														
79.0	82.0	Limestone-brecciated?	79.0	79.8	0.8	0.8	7701	79.0	82.0	3.0	0.40	0.54	trace	7708	75.0	80.0	5.0			
			79.8	80.9	1.1	1.1														
			80.9	81.5	0.6	0.5														
			81.5	82.0	0.5	0.0														
82.0	86.0	Limestone-well mineralized.	82.0	82.4	0.4	0.4	7702	82.0	86.0	4.0	1.45	5.70	24.70	7709	80.0	85.0	5.0		1.4	4.0
			82.4	82.6	0.2	0.2														
			82.6	83.3	0.7	0.7														
			83.3	84.7	1.4	1.1														
			84.7	85.7	1.0	1.0								7710	85.0	90.0	5.0		2.4	7.5
			85.7	86.0	0.3	0.3														
86.0	91.0	Limestone-gray, somewhat brecciated, weak mineralization.	86.0	87.5	1.5	0.5	7703	86.0	91.0	5.0	0.25	0.65	3.80							
			87.5	88.0	0.5	0.5														
			88.0	88.5	0.5	0.5														
			88.5	89.3	0.8	0.5														
			89.3	89.8	0.5	0.5														
			89.8	91.0	1.2	0.7	7704	91.0	95.0	4.0	0.10	trace	0.40	7711	90.0	95.0	5.0		0.6	1.65
91.0	95.0	Limestone-similar to above. Somewhat silicified. A few buttons of sulphide at 95.0'.	91.0	91.3	0.3	0.3														
			91.3	91.6	0.3	0.3														
			91.6	92.5	0.9	0.6														
			92.5	93.1	0.6	0.5														
			93.1	93.9	0.8	0.8														
			93.9	94.5	0.6	0.3														

PROPERTY - McMillan, Yukon Territory
LOCATION: _____
BEARING: _____
ELEVATION: _____
DIP: _____

HOLE NO. 19
OVERBURDEN: _____
TOTAL LENGTH: _____
CORE RECOVERY: _____

SHEET #3
STARTED _____
COMPLETED: _____
LOGGED BY: _____
DATE: _____

GEOLOGY			Core Recovery				Core Samples							Sludge Samples						
Footage		DESCRIPTION	Footage		Width	Core Length	Sample No.	Footage		Width	Assays			Sample No.	Footage		Width	Assays			Recoveries
From	To		From	To				From	To		Ag-Oz	Pb- %	Zn. %		From	To		Ag oz	Pb oz	Zn %	
95.0	98.0	Limestone-partly silicified and pyritized from 97.0 - 98.0'.	94.5	95.0	0.5	0.2														
			95.0	95.8	0.8	0.6	7705	95.0	98.0	3.0	0.40	0.20	trace	7712	95.0	100.0	5.0				
			95.8	96.3	0.5	0.5														
			96.3	97.0	0.7	0.7														
			97.0	98.0	1.0	1.0														
98.0	103.1	Argillite-dark gray, limy in part. Some limestone buttons 102.1 - 103.1'.	98.0	98.7	0.7	0.7	7706	98.0	103.1	5.1	0.40	trace	trace	7713	100.0	105.0	5.0				
			98.7	99.5	0.8	0.4														
			99.5	100.0	0.5	0.5														
			100.0	100.4	0.4	0.4														
			100.4	101.0	0.6	0.4														
			101.0	101.5	0.5	0.3														
			101.5	102.1	0.6	0.5														
			102.1	103.1	1.0	0.8														
103.1	108.7	Argillite-Similar to above. A few pyrite and lead buttons 108.0-108.7'.	103.1	103.7	0.6	0.6	7707	103.1	108.7	5.6	0.55	1.56	2.90	7714	105.0	110.0	5.0				
			103.7	104.2	0.5	0.5														
			104.2	105.2	1.0	1.0														
			105.2	106.0	0.8	0.8														
			106.0	107.0	1.0	0.7														
			107.0	108.0	1.0	0.7														
108.7	113.5	Argillite-gray. 109.3-110.5' ground core.	108.0	108.7	0.7	0.4								7715	110.0	115.0	5.0				
			108.7	109.3	0.6	0.3														
			109.3	110.5	1.2	0.5														
			110.5	113.5	3.0	0.3														
113.5	150.0	Interbanded purple and olive green argillite.	113.5	114.5	1.0	0.5														
		At 123.0' banding 90° to core.	114.5	121.0	6.5	0.5														
		At 138.0' banding 35° to core.	121.0	122.0	1.0	0.5														
		At 145.0' banding 70° to core.	122.0	124.0	2.0	1.1														
		At 149.0' banding 65° to core	124.0	126.0	2.0	0.3														
		Some miniature faulting at 149.0'	126.0	128.5	2.5	0.1														
			128.5	130.5	2.0	0.5														
			130.5	132.0	1.5	0.5														
			132.0	133.5	1.5	0.7														
			133.5	135.0	2.5	1.3														
			135.0	137.0	2.0	0.5														
			137.0	140.0	3.0	1.6														
			140.0	142.0	2.0	0.7														

PROPERTY - McMillan, Yukon Territory
LOCATION: _____
BEARING: _____
ELEVATION: _____
DIP: _____

HOLE NO. 19
OVERBURDEN: _____
TOTAL LENGTH: _____
CORE RECOVERY: _____

SHEET #4
STARTED _____
COMPLETED: _____
LOGGED BY: _____
DATE: _____

GEOLOGY			Core Recovery				Core Samples							Sludge Samples						
Footage		DESCRIPTION	Footage		Width	Core Length	Sample No.	Footage		Width	Assays			Sample No.	Footage		Width	Assays			Recoveries
From	To		From	To				From	To		Ag-Oz	Pb- %	Zn. %		From	To		Ag oz	Pb oz	Zn %	
			142.0	144.3	2.3	0.7														
			144.3	147.0	2.7	1.2														
			147.0	150.0	3.0	1.2														
		End of hole.																		
		Length of hole 150.0'																		
		Casing drilled to 15.0'																		
		135.0'																		
		Core recovered 72.0'																		
		Core Recovery 53.3%																		

PROPERTY - McMillan, Yukon Territory
LOCATION: 10 28 N; 2 10 W
BEARING:
ELEVATION: 517.8'
DIP: -90°

HOLE NO. 20
PURPOSE To trace mineralized zone northward
OVERBURDEN: 38.0'
TOTAL LENGTH: 195.0'
CORE RECOVERY: 52.8%

SHEET #1
STARTED July 15, 1952
COMPLETED: July 21, 1952
LOGGED BY: C. J. Coveney
DATE: July 22, 1952

GEOLOGY			Core Recovery				Core Samples						Sludge Samples						
Footage			Footage		Width	Core	Sample	Footage		Width	Assays			Sample	Footage		Width	Assays			Re-
From	To	DESCRIPTION	From	To		Length	No.	From	To		Ag-Oz	Pb- %	Zn. %	No.	From	To		Ag oz	Pb oz	Zn %	coveries
		Holed reamed to 60.0'.																			
51.3	63.0	Quartzite-gray, broken buttons and chips. At 51.7' button of dark gray argillite banded 80° to core. At 57.0' the quartzite shows obscure banding 50° to core.	51.3	52.7	0.0																
			52.7	60.0	2.3																
			60.0	62.0	1.5																
			62.0	63.0	0.5																
63.0	66.0	Argillite-gray, broken buttons. At 64.5' banding 40° to core. At 65.0' banding 50° to core.	63.0	64.0	0.5																
			64.0	66.0	1.0																
66.0	68.2	Quartzite-gray, broken buttons and chips.	66.0	68.0	1.5																
			68.0	69.2	0.9																
69.2	74.0	Argillite-interbanded cream and dark gray. Banding at 71.5' is 60° to core. Banding at 73.5' is 60° to core. At 72.8' and 75.0' a 2" band of gray quartzite. At 73.5' there are 3 narrow seams of pyrite parallel to the core.	69.2	71.0	0.0																
			71.0	72.0	0.4																
			72.0	72.7	0.3																
			72.7	73.3	0.2																
			73.3	74.0	0.0																
74.0	81.5	Quartzite-broken buttons and chips. At 78.4' there is a ½" band of white quartz 25° to the core.	74.0	75.0	0.7																
			75.0	75.5	0.0																
			75.5	76.2	0.3																
			76.2	76.7	0.0																
			76.7	77.0	0.0																
			77.0	78.0	0.6																
			78.0	78.7	0.3																
			78.7	81.5	2.6																
81.5	83.0	Ground core. Argillite? A few specks of pyrite.	81.5	83.0	1.0																
83.0	98.5	Argillite-mainly green and dark gray in color. Banding at 90.2' is 70° to core and 65° at 93.0'.	83.0	84.8	1.4																
			84.8	86.3	1.5																
			86.3	88.0	1.5																
			88.0	90.1	0.8																
			90.1	91.2	0.6																
			91.2	93.2	2.0																
			93.5	94.9	1.1																
			94.9	95.0	0.5																
			95.0	97.0	0.0																
			97.0	98.5	1.0																

PROPERTY - McMillan, Yukon Territory. HOLE NO. 20 SHEET #2

LOCATION: _____ STARTED _____

BEARING: _____ OVERBURDEN: _____ COMPLETED: _____

ELEVATION: _____ TOTAL LENGTH: _____ LOGGED BY: _____

DIP: _____ CORE RECOVERY: _____ DATE: _____

GEOLOGY

Footage From	Footage To	DESCRIPTION
98.5	115.2	Quartzite-gray, poorly banded, with some thin argillite partings. At 101.9' a few buttons of white quartz and a few specks of pyrite. At 101.0' poor banding 50° to core. At 101.5' a few pyrite seams 45° to core.
115.2	118.7	Argillite-broken buttons. Banding at 117.6' is 80° to core and at 118.1' banding is 65° to core. Minor contortions at 115.7'. A few specks of pyrite in ground core between 116.8' - 117.8'.
118.7	121.1	Mainly buttons of gray quartzite.
121.1	126.0	Mixed buttons of argillite and quartzite. No banding observed. Sparse mineralization with occasional specks of pyrite and galena.
126.0	127.3	Pyrite-massive, fine grained, completely replacing original rock which may have been quartzite as 4 small buttons of quartzite were seen at 126.5'. Some lead and zinc throughout section.
127.3	131.7	Quartzite-gray, massive, mainly broken buttons. Partly pyritized. Sparse zinc. No banding observed.
131.7	137.0	No Core.
137.0	140.0	Broken buttons of heavy pyrite and zinc. Small amount of lead seen in some of the broken buttons. At 137' one zinc band

Core Recovery

Footage From	Footage To	Width	Core Length
98.5	99.0	0.6	
99.0	100.1	0.9	
100.1	100.9	0.4	
100.9	102.0	0.0	
102.0	102.4	0.2	
102.4	103.8	0.7	
103.8	104.8	0.4	
104.8	106.9	1.9	
106.9	108.0	1.0	
108.0	109.3	0.9	
109.3	110.8	1.0	
110.8	112.9	1.5	
112.9	115.2	1.7	
115.2	116.3	0.0	
116.3	116.8	0.0	
116.8	117.8	0.4	
117.8	118.7	0.0	
118.7	120.0	0.8	
120.0	121.1	0.7	
121.1	122.5	0.1	
122.5	124.5	1.2	
124.5	126.0	1.2	
126.0	126.5	0.0	
126.5	127.3	0.0	
127.3	128.2	0.1	
128.2	128.5	0.7	
128.5	130.0	0.2	
130.0	131.7	1.3	
131.7	137.0	5.3	
137.0	139.3	2.3	

Core Samples

Sample No.	Footage From	Footage To	Width	Assays Ag-Oz	Assays Pb- %	Assays Zn. %
7716	121.1	126.0	4.9	0.10	0.10	trace
7717	126.0	127.3	1.3	0.40	1.10	7.80
7718	127.3	131.7	4.4	0.80	2.15	5.80
7719	137.0	140.0	3.0	0.55	2.20	8.20

Sludge Samples

Sample No.	Footage From	Footage To	Width	Assays Ag oz	Assays Pb oz	Assays Zn %	Recoveries
7729	116.0	120.0	5.0				
7730	120.0	125.0	5.0				
7731	125.0	130.0	5.0				
7732	130.0	135.0	5.0				
7733	135.0	140.0	5.0				

PROPERTY - McMillan, Yukon Territory. HOLE NO. 20 SHEET #3

LOCATION: _____ STARTED _____

BEARING: _____ OVERBURDEN: _____ COMPLETED: _____

ELEVATION: _____ TOTAL LENGTH: _____ LOGGED BY: _____

DIP: _____ CORE RECOVERY: _____ DATE: _____

GEOLOGY			Core Recovery				Core Samples						Sludge Samples					
Footage		DESCRIPTION	Footage		Width	Core Length	Sample No.	Footage		Width	Assays			Sample No.	Footage		Width	Assays			Recoveries
From	To		From	To				From	To		oz-Oz	Pb- %	Zn. %		From	To		Ag oz	Pb oz	Zn %	
		is 50° to core. Mineralization replaced original rock.																			
140.0	145.3	Similar to above no banding.	140.0	145.3	4.6		7720	140.0	145.3	5.3	0.95	2.30	14.10	7734	140.0	145.0	5.0				
145.3	147.8	Argillite-pyritized. Minor lead and zinc	145.3	146.3	0.8																
		banding at 146.7' about 70° to core.	146.3	147.8	0.0		7721	145.3	147.8	2.5	0.65	1.29	2.80	7755	145.0	150.0	5.0				
		Last 3" massive fine pyrite.																			
147.8	151.0	No Core.	147.8	151.0	3.2																
151.0	152.3	Argillite-pyritized, buttons. Minor	151.0	152.3	0.8		7722	151.0	152.3	1.3	0.50	0.43	0.25								
		lead and zinc observed.																			
152.3	156.8	Well mineralized between 152.3-155.5'.	152.3	154.5	1.9																
		A few buttons of unreplaced quartzite.	154.5	155.7	0.0																
		Last 3" appears to be ground argillite.	155.7	156.8	0.8		7723	152.3	156.8	4.5	1.20	1.51	8.00	7736	150.0	155.0	5.0				
156.8	161.0	Unreplaced rock green argillite. Well	156.8	158.3	0.3		7724	156.8	161.0	4.2	0.55	1.18	4.00	7737	155.0	160.0	5.0				
		mineralized with pyrite particularly	158.3	160.0	0.2																
		between 158.6-161.0'. At 156.8' there	160.0	161.0	0.0																
		is a 3" band of pyrite followed by 1½"																			
		band of zinc. At 158.6' there is 1½"																			
		band of zinc with narrow bands of lead																			
		less 1/8". Throughout the heavy pyrite																			
		section there are scattered patches of																			
		zinc. At 158.7' there is a small slip																			
		30° to the core.																			
161.0	166.0	Argillite-pyritized - scattered patches	161.0	162.5	0.5																
		of zinc. Vague banding at 166.0' about	162.5	166.2	0.8																
		70° to core.	166.2	166.8	0.0		7725	161.0	166.0	5.0	0.50	1.18	4.10	7738	160.0	165.0	5.0		1.45	3.50	
166.0	169.8	Similar to above except cream colored	166.0	167.1	0.0																
		argillite is quite prominent. Banding	167.1	168.2	0.1																
		at 169.2' is 70° to core.	168.2	169.8	0.3		7726	166.0	169.8	3.8	0.38	1.40	3.40	7739	165.0	170.0	5.0		1.40	3.54	
169.8	172.5	Argillite- gray with some green and cream	169.8	172.5	0.0		7727	166.8	172.5	5.7	0.55	0.84	2.00	7740	170.0	175.0	5.0		2.15	2.70	
		colored argillite partings. 172-172.5'																			
		pyritized quartzite. Minor contortions																			
		at start of section. No banding.																			
172.5	176.3	Argillite- green, banded - 174.4'-176.3'	172.5	174.4	1.4																
		narrow colored bands, 60° to core.	174.4	176.3	1.3		7728	172.5	176.3	3.8	0.03	trace	trace	7741	175.0	180.0	5.0				
		Broken buttons.																			
176.3	185.0	Argillite- green, badly broken. No band-	176.3	178.0	1.0																
		ing observed.	178.0	178.5	0.7																

PROPERTY - McMillan, Yukon Territory. HOLE NO. 20 SHEET #4

LOCATION: _____ STARTED _____

BEARING: _____ OVERBURDEN: _____ COMPLETED: _____

ELEVATION: _____ TOTAL LENGTH: _____ LOGGED BY: _____

DIP: _____ CORE RECOVERY: _____ DATE: _____

GEOLOGY			Core Recovery				Core Samples							Sludge Samples				
Footage		DESCRIPTION	Footage		Width	Core Length	Sample No.	Footage		Width	Assays			Sample No.	Footage		Width	Assa
From	To		From	To				From	To		Ag-Oz	Pb- %	Zn. %		From	To		Ag-Oz
		X	179.5	181.1	1.1													
			181.1	183.3	1.5													
			183.3	185.0	1.2													
185.0	195.0	Argillite-gray buttons. Buttons break perpendicular to core, 181-185' brecciated. No.banding.	185.0	187.7	2.5													
			187.7	189.5	0.9													
			189.5	191.3	0.8													
			191.3	192.7	0.1													
			192.7	195.2	1.2													
		End of Hole																
		Total shorts 77.7'																
		Core recovery $\frac{75 \times 100}{145.7} = 52.8\%$																
		Note: Ground badly broken throughout whole length.																

BEARING

PROPERTY McMillan | TOTAL LENGTH 151.0' | DIP -90 | CORE RECOVERY 48.2%

DISTRICT Yukon Territory | ELEVATION 483.5' | VERT. | HORZ. | OVERBURDEN 20.0'

CO-ORDINATES 12 + 00 N 3 + 87 W | PURPOSE To explore northward continuation of mineralized zone.

HOLE NO. 21 SHEET NO. 1

STARTED July 22, 1952

COMPLETED July 28th, 1952

LOGGED BY C. J. Coveney; D. Olson

DATE

GEOLOGY			CORE RECOVERY			CORE SAMPLES								SLUDGE SAMPLES								RE-COVERY	COLOR PLOT
FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	FOOTAGE FROM	FOOTAGE TO	SHORTS	SAMPLE NO.	FOOTAGE FROM	FOOTAGE TO	WIDTH	ASSAYS					SAMPLE NO.	FOOTAGE FROM	FOOTAGE TO	WIDTH	ASSAYS						
		Holed cased to 30.0'. Hole cemented from 60.0-100.0'.																					
0.0	20.0	Overburden.																					
20.0	20.7	Quartzite-fine grained. Some pyrite at 20.0' and a few specks of lead at 20.7'. A few stringers of white quartz. No banding.	20.0	20.7	.7																		
20.7	24.0	No core.	20.7	24.0	3.3																		
24.0	36.5	Quartzite-fine grained, mainly broken core at 26.0' a few buttons of white quartz. Minor pyrite at 34.5'. No banding.	24.0	25.0	0.0																		
			25.0	26.0	0.1																		
			26.0	27.8	1.4																		
			27.8	28.5	0.5																		
			28.5	29.5	0.7																		
			29.5	30.2	0.4																		
			30.2	31.2	0.5																		
			31.2	33.5	1.6																		
			33.5	34.5	0.6																		
			34.5	36.5	1.3																		
36.5	37.7	White Quartz-Some minor irregular partings of gray argillite.	36.5	36.8	0.0																		
			36.8	37.7	0.3																		
37.7	42.0	Argillite-gray, with some thin laminations of green argillite . Sections largely broken chips and buttons. Banding at 41.0' is 25° to core. At 39.7' there is ½" of white quartz.	37.7	38.9	0.8																		
			38.9	39.2	0.3																		
			39.9	41.0	0.0																		
			41.0	42.0	0.0																		
42.0	45.5	Quartz-WHITE, broken chips.	42.0	44.0	1.7																		
			44.0	45.5	1.1																		
45.5	46.9	Argillite- ground core with a few chips of gray quartzite.	45.5	46.9	0.9																		
46.9	48.3	Quartzite-coarse grained. Easily distinguishable grains of quartz. Broken buttons. No banding.	46.9	48.3	0.9																		
48.3	49.5	White Quartz-broken chips.	48.3	49.5	0.7																		
49.5	51.0	Quartzite-fine grained, grey, broken buttons.	49.5	51.0	1.0																		
51.0	58.3	Argillite-grey. Mainly broken buttons, at 55.0' banding 50° to core. At 55.0'	51.0	51.7	0.3																		
			51.7	53.2	1.7																		

BEARING | DIP | CORE RECOVERY | HOLE NO. | SHEET NO. 2

PROPERTY McMillan | TOTAL LENGTH | VERT. | HORZ. | STARTED | COMPLETED

DISTRICT Yukon Territory | ELEVATION | OVERBURDEN | LOGGED BY

CO-ORDINATES | PURPOSE | DATE

GEOLOGY			CORE RECOVERY			CORE SAMPLES							SLUDGE SAMPLES							RE-COVERY	COLOR PLOT
FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	FOOTAGE FROM	FOOTAGE TO	SHORTS	SAMPLE NO.	FOOTAGE FROM	FOOTAGE TO	WIDTH	ASSAYS					SAMPLE NO.	FOOTAGE FROM	FOOTAGE TO	WIDTH	ASSAYS					
		some crude banding 70° to core. A few specks of zinc at 53.8'	53.8	54.8	0.4																
			54.8	56.3	0.5																
			56.3	57.3	0.3																
			57.3	58.3	0.6																
58.3	59.2	Quartzite-gray with well formed grains of gray quartz. A few specks of lead and zinc. No banding.	58.3	59.2	0.3																
59.2	60.5	Argillite-gray, no banding.	59.2	60.5	0.7																
60.5	68.9	Quartzite-gray, fine grained. From 60.5 to 65.7' broken buttons. Minor lead and zinc at 61.5'. Overall banding about 75-80° to core.	60.5	61.5	0.3																
			61.5	62.3	0.4																
			62.3	63.3	0.5																
			63.3	64.4	0.4																
			64.4	65.0	0.0																
			65.0	65.7	0.4																
			65.7	67.4	0.0																
			67.4	68.9	0.4																
68.9	70.3	Argillite-&-Quartzite-interbanded. Banding 85° to core.	68.9	70.3	0.0																
70.3	72.6	Quartzite-gray with thin argillite partings 80° to core.	70.3	72.6	0.0																
72.6	73.0	Quartzite-limy.	72.6	73.0	0.0																
73.0	75.3	Quartzite-gray, with some narrow argillite partings 65° to core.	73.0	73.5	0.2																
			73.5	74.8	0.5																
			74.8	75.3	0.0																
75.3	76.0	Argillite-grayish. Banding 55° to core.	75.3	76.0	0.0																
76.0	80.3	Quartzite-gray, with some narrow bands and laminations of green argillite. Overall banding 70° to core. Some pyrite at 77.5'. Some brecciation at 78.0'.	76.0	77.2	0.0																
			77.2	79.3	0.8																
			79.3	80.3	0.8																
80.3	81.0	Limestone-brecciated with fragments of green argillite and gray quartzite.	80.3	81.0	0.0																
81.0	93.3	Quartzite-gray but limy to varying degrees. Part of section originally may have been an impure limestone now silicified. Close examination reveals for	81.0	82.0	0.2																
			82.0	82.9	0.5																
			82.9	84.5	0.0																
			84.5	86.0	0.8																

HOLE NO. SHEET NO. 3

BEARING DIP CORE RECOVERY STARTED

PROPERTY McMillan TOTAL LENGTH VERT. HORZ. COMPLETED

DISTRICT Yukon Territory ELEVATION OVERBURDEN LOGGED BY

CO-ORDINATES PURPOSE DATE

GEOLOGY			CORE RECOVERY			CORE SAMPLES							SLUDGE SAMPLES						RE-COVERY	COLOR PLOT
FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	FOOTAGE FROM	FOOTAGE TO	SHORTS	SAMPLE NO.	FOOTAGE FROM	FOOTAGE TO	WIDTH	ASSAYS Ag	ASSAYS Pb	ASSAYS Zn	SAMPLE NO.	FOOTAGE FROM	FOOTAGE TO	WIDTH	ASSAYS			
		the most part easily distinquishable grains of gray quartz renging from fine to medium grained. At 84' some brecciation with minor pyrite. At 91' some pyrite laminations 45° to core.	88.0	88.0	1.5															
			88.0	90.0	0.0															
			90.0	93.3	1.8															
93.3	96.5	Limestone(?)-silicified.	93.3	95.9	2.2								7746	90.0	95.0	5.0				
			95.9	96.5	0.0															
96.5	97.8	Similar to section between 81.0-93.3'.	96.5	97.8	0.0															
97.8	101.9	Quartzite-as above from 97.8-99.8' and limestone from 99.8-101.9'. A little pyrite at 99.8'. At 98.0' crude banding 50° to core.	97.8	99.8	1.0	7742	97.8	101.9	4.1	0.7	0.32	0.15	7747	95.0	100.0	5.0				
			99.8	101.9	1.5															
101.9	103.8	Limestone (?)-pyritized. Quartzite 101.9-102.7'.	101.9	102.7	0.5	7743	101.9	103.8	1.9	0.3	0.48	tr								
			102.7	103.5	0.0															
			103.5	103.8	0.0															
103.8	106.0	Limestone-silicified.	103.8	105.5	1.3	7744	103.8	106.0	2.2	0.5	0.65	0.65	7748	100.0	105.0	5.0				
			105.5	106.0	0.0															
106.0	109.5	Limestone (?)-silicified. Spotty zinc at 108.0'.	106.0	107.8	0.2															
			107.8	109.5	0.7	7745	106.0	109.5	3.5	0.2	0.55	1.10								
109.5	111.0	Ground core with a few buttons of gray quartzite.	109.5	111.0	1.2								7749	105.0	110.0	5.0				
111.0	113.2	Argillite-gray. No banding	111.0	112.2	1.2								7750	110.0	115.0	5.0				
			112.2	113.2	0.0															
113.2	115.0	Quartzite-gray with irregular parting of argillite. Some brecciation at start of section.	113.2	114.8	0.7															
			114.8	115.0	0.0															
115.0	115.8	Ground core. Probable argillite.	115.0	115.8	0.8															
115.8	116.2	Ground gray argillite with a few buttons of gray quartzite.	115.8	116.2	0.2															
116.2	118.4	Only 4 buttons of gray quartzite. Rest of section probably argillite.	116.2	118.4	2.1															
118.4	122.5	No core.																		
122.5	126.7	Argillite-broken buttons of grayish argillite.	118.4	122.5	4.1															
			122.5	125.0	1.9															
			125.0	126.7	1.4															

HOLE NO. 21 SHEET NO. 4

BEARING DIP CORE RECOVERY STARTED

PROPERTY McMillan TOTAL LENGTH VERT. HORZ. COMPLETED

DISTRICT Yukon Territory ELEVATION OVERBURDEN LOGGED BY

CO-ORDINATES PURPOSE DATE

GEOLOGY			CORE RECOVERY			CORE SAMPLES							SLUDGE SAMPLES						RE-COVERY	COLOR PLOT
FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	FOOTAGE FROM	FOOTAGE TO	SHORTS	SAMPLE NO.	FOOTAGE FROM	FOOTAGE TO	WIDTH	ASSAYS			SAMPLE NO.	FOOTAGE FROM	FOOTAGE TO	WIDTH	ASSAYS			
126.7	131.8	Only 1 button of gray quartzite and three buttons of greenish argillite.	126.7	131.8	5.0															
131.8	136.8	A few chips of gray quartzite.	131.8	136.8	4.8															
136.8	151.0	No core.	136.8	151.0																

End of Hole

Note: Core badly broken throughout entire length.

Length of hole 151.0'
Overburden 20.0'

131.0'

Shorts 63.2

% Core Recovery $\frac{63.2 \times 100}{131.0}$ = 48.2%

PROPERTY McMillan

DISTRICT Yukon Territory

CO-ORDINATES 2 +00 W; 12+00 N

BEARING

TOTAL LENGTH 243.0'

ELEVATION 539.9'

PURPOSE

DIP -90

VERT.

OVERBURDEN 103.8'

CORE RECOVERY 64.7%

HORZ.

HOLE NO. 22 SHEET NO. 1

STARTED July 29th 1952

COMPLETED August 5th 1952

LOGGED BY C. J. Coveney & D. Olson

DATE August 5th 1952

GEOLOGY			CORE RECOVERY			CORE SAMPLES						SLUDGE SAMPLES						RE-COVERY	COLOR PLOT
FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	FOOTAGE FROM	FOOTAGE TO	SHORTS	SAMPLE NO.	FOOTAGE FROM	FOOTAGE TO	WIDTH	ASSAYS		SAMPLE NO.	FOOTAGE FROM	FOOTAGE TO	WIDTH	ASSAYS			
0.0	103.8	Overburden																	
103.8	110.9	Argillite-purple, banded 80° to core.	103.8	105.1	0.3														
			105.1	107.0	0.9														
			107.0	107.6	0.1														
			107.6	109.7	1.4														
			109.7	110.5	0.2														
			110.5	110.9	0.0														
110.9	119.5	Argillite-green with small lenses, patches and narrow stringers of gray quartz. Banding at 116.0' is obscure but appears to be 50° to core. At 118.0' crude banding 65° to core.	110.9	113.5	2.3														
			113.5	115.7	1.2														
			115.7	117.1	0.1														
			117.1	118.6	0.4														
			118.6	119.5	0.3														
119.5	123.3	Argillite-purple, banded 65° to core.	119.5	122.3	0.0														
			122.3	123.3	0.3														
123.3	144.5	Argillite-cream colored with small, lenses, patches and narrow bands of gray quartz uniformly distributed throughout section. At 132.0' banding 55°. At 135.0' banding 65°. Between 136.0' and 137.0' mainly gray quartzite with cream colored argillite partings. Between 140.3' - 140.8' mainly gray quartzite. At 144.0' banding 75° to core. Some gray quartzite at end of section.	123.3	124.3	0.3														
			124.3	126.7	0.0														
			126.7	131.0	0.7														
			131.3	136.0	0.6														
			136.0	136.8	0.0														
			136.8	139.0	0.5														
			139.0	141.2	0.0														
			141.2	142.3	0.1														
			142.3	144.3	0.1														
144.5	150.0	Argillite-mainly dark gray with narrow intersends of creamy argillite. Some minor quartzitic sections. Banding fair 80-85° to core.	144.5	145.0	0.1														
			145.0	147.3	0.4														
			147.3	150.0	0.0														
150.0	152.0	No core - sub gash (drillers note)	150.0	152.0	2.0														
152.0	154.0	Mainly gray quartzite.	152.0	153.5	0.3														
			153.5	154.0	0.1														
154.0	170.5	Argillite-Similar to section between 144.5-150.0'. Banding 80-85° to core. At 159.5' some minor pyrite seams.	154.0	155.4	0.5														
			155.4	156.4	0.0														
			156.4	158.2	1.8														

HOLE NO. 22 SHEET NO. 2

BEARING | DIP | CORE RECOVERY | STARTED

PROPERTY McMillan | TOTAL LENGTH | VERT. | HORZ. | COMPLETED

DISTRICT Yukon Territory | ELEVATION | OVERBURDEN | LOGGED BY

CO-ORDINATES | PURPOSE | DATE

GEOLOGY			CORE RECOVERY			CORE SAMPLES								SLUDGE SAMPLES					RE-COVERY	COLOR PLOT
FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	FOOTAGE FROM	FOOTAGE TO	SHORTS	SAMPLE NO.	FOOTAGE FROM	FOOTAGE TO	WIDTH	ASSAYS A-Oz	ASSAYS B-%	ASSAYS Zn.-%		SAMPLE NO.	FOOTAGE FROM	FOOTAGE TO	WIDTH	ASSAYS				
		At 166.5' small stringer of zinc.	159.3	161.0	0.2															
			161.0	166.0	0.5															
			166.0	170.0	1.0															
			170.0	170.3	0.0															
170.3	179.0	Quartzite-grey. At 176.0' 2" band of green argillite. At 176.5' minor pyrite to core. At 177.8' minor zinc.	170.3	172.5	0.4															
			172.5	175.0	0.5									7764	175.0	180.0	5.0			
			175.0	177.0	0.2															
			177.0	177.9	0.0															
			177.9	179.0	0.5															
179.0	181.7	Quartzite-gray partly pyritized. 179.5-180.5 banded argillite 75° to core.	179.0	181.7	0.4	7751	179.0	181.7	2.7	0.35	0.30	tr.								
181.7	184.3	Mainly buttons of gray quartzite with a few buttons of green argillite weakly pyritized. Crude banding 75° to core.	181.7	184.3	0.6	7752	181.7	184.3	2.6	0.20	tr.	tr.		7765	180.0	185.0	5.0			
184.3	186.7	Quartzite-gray. At 185.0 there is 1½" band of green argillite. Banding at 185.5 is 80°. Between 184.3 - 185.0 well mineralized with zinc. Between 185.5 - 186.0 heavy pyrite.	184.3	186.7	0.0	7753	184.3	186.7	2.3	0.55	1.78	5.50								
186.7	188.0	Quartzite-pyritized. Scattered zinc. Banding not distinct, possibly 75° to core.	186.7	188.0	0.1	7754	186.7	188.0	1.3	0.30	0.15	1.20		7766	185.0	190.0	5.0			
188.0	192.0	Heavy pyrite mineralization at 189.0'. Some banded zinc 75° to core in gray quartzite.	188.0	192.0	2.0	7755	188.0	192.0	4.0	0.25	0.05	2.25								
192.0	196.5	Well mineralized with pyrite, zinc and lead. Bulk of mineralization is pyrite. Original rock completely replaced. At 192.0' crude banding 75° to core.	192.0	196.5	2.4	7756	192.0	196.5	4.5	1.50	6.45	7.30		7767	190.0	195.0	5.0			
196.5	198.8	No core.	196.5	198.8	2.3															
198.8	200.9	Heavily mineralized with pyrite. Considerable amount of zinc . No banding observed.	198.8	200.9	0.9	7757	198.8	200.9	2.1	0.90	1.83	8.50								
200.9	202.9	Heavily mineralized with zinc and pyrite. Some visible lead. Rock for	200.9	202.9	0.0	7758	200.9	202.9	2.0	2.10	3.13	18.0		7768	195.0	200.0	5.0			

BEARING | DIP | CORE RECOVERY | HOLE NO.

PROPERTY McMillan | TOTAL LENGTH | VERT. | HORZ. | STARTED

DISTRICT Yukon Territory | ELEVATION | OVERBURDEN | COMPLETE

CO-ORDINATES | PURPOSE | LOGGED

DATE

GEOLOGY			CORE RECOVERY			CORE SAMPLES							SLUDGE SAMPLES				
FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	FOOTAGE FROM	FOOTAGE TO	SHORTS	SAMPLE NO.	FOOTAGE FROM	FOOTAGE TO	WIDTH	ASSAYS Ag-oz	Pb-%	Zn-%	SAMPLE NO.	FOOTAGE FROM	FOOTAGE TO	WIDTH	ASSAYS
		section at 200.0' show zinc banding 75° to core in grey quartzite.															
202.9	206.0	Quartzite and Argillite mixed. Between 202.9 - 203.0 band of zinc and lead. Between 205.4 - 203.9 pyritized green argillite. From 205.6 - 205.9 heavy zinc. 1" band of cream argillite at 205.9 Banding at 205.9 is 70 - 75° to core.	202.9	206.0	1.3	7759	202.9	206.0	3.1	3.35	6.58	14.3	7769	200.0	205.0	5.0	
206.0	207.8	Argillite-green. Between 206.4 - 208.0 Gray quartzite with numerous thin bands of zinc at 75° to core.	206.0	207.8	0.4	7760	206.0	207.8	1.8	1.05	2.26	12.5	7770	205.0	210.0	5.0	
207.8	210.4	Argillite-green with narrow interbands of grey quartzite. Well mineralized 208.0 - 208.2 with lead, pyrite and some zinc. Between 208.7 - 208.9 pyritized. 210.3 - 210.4 grey quartzite with some zinc bands 75° to core.	207.8	210.4	0.5	7761	207.8	210.4	2.6	3.45	3.78	2.00					
210.4	212.5	Argillite-green with some narrow bands of grey quartzite 75° to core. Between 210.0 - 211.5 the quartzite bands carry zinc mineralization.	210.4	212.5	0.3	7762	210.4	212.5	2.1	0.70	1.18	3.00	7771	210.0	215.0	5.0	
212.5	217.7	Argillite-greenish. Spotty lead and zinc at 217.0.	212.5	214.3	1.4	7763	212.5	217.7	5.2	0.80	1.40	4.80					
			214.3	217.0	2.1												
			217.0	217.7	0.5									215.0	220.0	-	missing
217.7	220.8	No core.	217.7	220.8	3.1												
220.8	221.4	Quartzite-grey, massive, barren of mineralization.	220.8	220.9	0.0												
			220.9	221.4	0.0	7773	220.8	221.4	0.6	0.20	tr.	tr.	7772	220.0	225.0	5.0	
221.4	226.0	Mud Seam (drillers' note)	221.4	226.0	4.6												
226.0	226.5	Quartzite-grey, massive, broken.	226.0	226.5	0.0												
226.5	235.7	Argillite-creamy green in color. No observable banding.	226.5	232.4	4.9												
			232.4	235.7	2.0												
235.7	243.0	Argillite-purple banded.	235.7	237.5	0.5												
		At 242.0' 1" white quartz.	237.5	240.0	0.6												
		At 241.0' 1½" white quartz.	240.0	243.0	0.0												
		At 238.0' banding 60° to core.															
		At 240.0' banding 70° to core.															
		End of Hole															

BEARING | DIP | CORE RECOVERY | HOLE NO.

PROPERTY McMillan | TOTAL LENGTH | VERT. | HORZ. | STARTED

DISTRICT Yukon Territory | ELEVATION | OVERBURDEN | COMPLETE

CO-ORDINATES | PURPOSE | LOGGED B

DATE

GEOLOGY			CORE RECOVERY			CORE SAMPLES						SLUDGE SAMPLES				
FOOTAGE		DESCRIPTION	FOOTAGE		SHORTS	SAMPLE NO.	FOOTAGE		WIDTH	ASSAYS					SAMPLE NO.	FOOTAGE		WIDTH	ASSAYS				
FROM	TO		FROM	TO			FROM	TO								FROM	TO						
		Length of hole 243.0' Overburden 103.8' 139.2' Shorts 49.2' Length of core recovered 90.0' % Recovery 90 x 100 / 139.2 - 64.7																					

BEARING

PROPERTY McMillan | TOTAL LENGTH 218' | DIP -90° | CORE RECOVERY 57.9%

DISTRICT Yukon Territory | ELEVATION 509.4' | VERT. | HORZ.

CO-ORDINATES 14 - 04 N; 1 - 99 W | PURPOSE To explore northward continuation of mineralized zone.

HOLE NO.

STARTED A

COMPLETED

LOGGED BY

DATE

SEP 10 1952

GEOLOGY			CORE RECOVERY			CORE SAMPLES					SLUDGE SAMPLES				
FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	FOOTAGE FROM	FOOTAGE TO	SHORTS	SAMPLE NO.	FOOTAGE FROM	FOOTAGE TO	WIDTH	ASSAYS	SAMPLE NO.	FOOTAGE FROM	FOOTAGE TO	WIDTH	ASSAYS
		Hole cased to 106.0'. Hole cemented at 192.0' and recemented at 193.8'.													
0	80.5	Overburden.													
80.5	96.0	Argillite-pink with some lenses and minute stringers of pink and grey quartzite. Banding at 83.8 is 55° to core. Small drag folds and convolutions throughout the section. Possibly a soft rock structure?	80.5	83.5	2.5										
			83.5	85.5	1.0										
			85.5	87.2	1.2										
			87.2	88.0	0.3										
			88.0	90.2	1.3										
			90.2	91.0	0.1										
			91.0	96.0	4.7										
96.0	97.0	Quartzite-grey. Broken chips, showing a few specks of pyrite.	96.0	97.0	0.7										
97.0	99.3	Mud seam (Drillers Note)	97.0	99.3	2.2										
93.3	101.0	No core (Drillers Note)	99.3	101.0	1.7										
101.0	101.5	Quartzite-grey. Broken buttons and chips	101.0	101.5	0.2										
101.5	108.5	Quartzite-grey with some interbands of pink argillite. Section mainly broken buttons. Banding at 105.5 is 65° to core. Banding at 107.0' is 70° to core.	101.5	103.0	1.3										
			103.0	103.7	0.5										
			103.7	104.0	0.0										
			104.0	107.5	3.0										
			107.5	108.5	0.5										
108.5	114.2	Quartzite-grey with some narrow scattered bands of green argillite. Section mainly broken buttons. Banding at 110.9 is 70° to core. Banding at 111.2' is 60° to core. Banding at 113.7 is 70° to core. At 109.0' there is a ⅛" band of white quartz cutting the core at 20°.	108.5	109.8	0.2										
			109.8	110.8	0.6										
			110.8	112.2	0.2										
			112.2	113.7	1.0										
			113.7	114.2	0.0										
114.2	118.7	Argillite-pink with narrow interbands of pinkish grey quartzite. At 115.9' a minute fault. Banding at 115.0' is 60° to core.	114.2	115.1	0.0										
			115.1	118.7	0.1										
118.7	121.1	Mainly Quartzite-Between 118.7-119.0' the bedding virtually parallels the core as shown in the following diagram.	118.7	121.1	0.5										

PROPERTY McMillan | BEARING | DIP | CORE RECOVERY | HOLE NO. 23 | SHEET NO. 2

DISTRICT Yukon Territory | TOTAL LENGTH | VERT. | HORZ. | STARTED

CO-ORDINATES | ELEVATION | OVERBURDEN | | COMPLETED

PURPOSE | | | | LOGGED BY

DATE

GEOLOGY		CORE RECOVERY			CORE SAMPLES								SLUDGE SAMPLES							RE-COVERY	COLOR PLOT
FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	FOOTAGE FROM	FOOTAGE TO	SHORTS	SAMPLE NO.	FOOTAGE FROM	FOOTAGE TO	WIDTH	ASSAYS Ag-Oz	ASSAYS Pb.%	ASSAYS Zn.%		SAMPLE NO.	FOOTAGE FROM	FOOTAGE TO	WIDTH	ASSAYS					
121.1	125.2	Mainly Quartzite-Broken buttons. Occasional thin parting of cream green argillite. No banding.	121.1	122.2	0.5																
			122.2	123.7	0.7																
			123.7	125.2	0.9																
125.2	130.8	Grey Quartzite and Green Argillite-interbanded about 50-50. Well banded 75° to core.	125.2	126.5	0.0																
			126.5	128.5	0.9																
			128.5	129.2	0.1																
130.8	134.7	Mainly pink and green Argillite interbanded well banded. Banding at 133.0 is 70° to core. At 134.0' is 70° to core.	129.2	130.8	1.4																
			130.8	131.5	0.2																
			131.5	134.7	0.1																
134.7	151.6	Interbanded cream green and grey Argillite with an occasional narrow band of grey quartzite. Section well banded. Banding at 140.0' is 60° to core; at 149.6' is 70° to core.	134.7	136.5	0.4																
			136.5	138.3	0.0																
			138.3	142.8	0.0																
			142.8	144.1	0.0																
			144.1	148.0	2.2																
151.6	161.5	Quartzite-grey. Broken buttons and chips. No banding.	148.0	150.0	0.5																
			150.0	151.6	0.0																
			151.6	152.8	0.4																
			152.8	154.8	0.8									7781	155.0	160.0	5.0				
			154.8	156.8	1.0																
			156.8	159.0	1.7	7774	161.5	166.1	4.6	0.10	tr.	tr.									
161.5	166.1	Quartzite-grey. Banding obscure; 80° to core approximately.	159.0	161.5	1.7									7782	160.0	165.0	5.0				
			161.5	163.1	1.1																
166.1	169.5	Quartzite-grey, slightly pyritized. No banding observed.	163.1	164.2	0.8																
			164.2	166.1	1.5	7775	166.1	169.5	3.4	tr.	0.30	tr.									
			166.1	167.7	1.3									7783	165.0	170.0	5.0				
			167.7	169.5	1.3																
169.5	171.4	Mainly white quartz with minor zinc and lead. No banding.	169.5	171.4	0.8	7776	169.5	171.4	1.9	0.10	0.75	1.30									
171.4	174.0	Mainly quartzite with a few narrow partings of dark green argillite. Both are slightly pyritized. Few specks of zinc. Banding obscure about 75° to core	171.4	172.0	0.0	7777	171.4	174.0	2.6	0.05	0.35	tr.									
			172.0	174.0	1.7									7784	170.0	175.0	5.0				
174.0	175.0	Well mineralized. Original rock appears to be quartzite which is badly broken. No banding.	174.0	175.0	0.3	7778	174.0	175.0	1.0	1.20	4.50	10.5									

BEARING | DIP | CORE RECOVERY | HOLE NO. 23 | SHEET NO. 3

PROPERTY McMillan | TOTAL LENGTH | VERT. | HORZ. | STARTED

DISTRICT Yukon Territory | ELEVATION | OVERBURDEN | COMPLETED

CO-ORDINATES | PURPOSE | LOGGED BY

DATE

GEOLOGY		CORE RECOVERY			CORE			SAMPLES						SLUDGE			SAMPLES						RE-COVERY	COLOR PLOT
FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	FOOTAGE FROM	FOOTAGE TO	SHORTS	SAMPLE NO.	FOOTAGE FROM	FOOTAGE TO	WIDTH	ASSAYS Au Oz	Pb. %	Zn. %		SAMPLE NO.	FOOTAGE FROM	FOOTAGE TO	WIDTH	ASSAYS							
175.0	176.5	Several broken chips of white quartz. Remainder of rock appears to be ground grey argillite. Quartz chips show occasional specks of lead.	175.0	176.5	0.5	7779	175.0	176.5	1.5	tr.	0.10	0.20												
														7785	175.0	180.0	5.0							
176.5	178.0	No core (Drillers Note)																						
178.0	180.0	No core (Drillers Note)	176.5	180.0	3.5																			
180.0	185.5	Quartzite-grey. Broken buttons. A 1" band of white quartz at 181.3'.	180.0	185.5	4.3	7780	180.0	185.5	5.5	tr.	0.15	tr.		7786	180.0	185.0	5.0							
185.5	190.0	No core (Drillers Note)	185.5	190.0	4.5									7787	185.0	190.0	5.0							
190.0	191.5	Quartzite-grey. Broken buttons. Minor specks of zinc.	190.0	191.5	1.1																			
191.5	192.0	No core (Drillers Note)	191.5	192.0	0.5																			
192.0	193.8	No core. Plug bit used.												7790	192.0	194.0	2.0							
193.8	196.9	Quartzite-grey. 194.0-194.2 green argillite. At 194' is a 1/8" stringer of pyrite 85° to core.	193.8	196.9	2.2									7791	194.0	195.0	1.0							
196.9	198.6	No core (Drillers Note)	196.9	198.6	1.7									7792	195.0	200.0	5.0							
198.6	198.8	Argillite-cream green.	198.6	198.8	0.0																			
198.8	200.3	Quartzite-light grey. Broken buttons and chips. 197.0 - 197.2 white quartz. Few broken chips of green argillite at the start of this section.	198.8	200.3	0.6									7793	200.0	205.0	5.0							
200.3	202.2	Argillite-green. Broken buttons and chips.	200.3	202.2	0.8																			
202.2	205.1	No core (Drillers Note)	202.2	205.1	2.9																			
205.1	210.7	Quartzite-grey. Occasional speck of pyrite.	205.1	206.1	0.3									7794	205.0	210.0	5.0							
			206.1	209.0	2.3																			
210.7	211.5	No core (Drillers Note)	209.0	210.7	1.5									7788	210.0	214.5	4.5							
211.5	212.5	No core (Drillers Note)																						
212.5	214.3	No core (Drillers Note)	210.7	214.5	3.6																			
214.3	218.0	Plug bit used and sludge saved.												7789	214.5	218.0	3.5							
		End of hole.																						
		Length of Hole 218.0'																						
		Overburden 80.5'																						
		Length of hole drilled with plug bit 5.5'																						
		Footage drilled 132.0'																						
		Total Shorts 76.4'																						

BEARING | DIP | CORE RECOVERY | HOLE NO. 23 | SHEET NO. 4

PROPERTY McMillan | TOTAL LENGTH | VERT. | HORZ. | STARTED

DISTRICT Yukon Territory | ELEVATION | OVERBURDEN | COMPLETED

CO-ORDINATES | PURPOSE | LOGGED BY

DATE

GEOLOGY			CORE RECOVERY			CORE SAMPLES							SLUDGE SAMPLES						RE-COVERY	COLOR PLOT
FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	FOOTAGE FROM	FOOTAGE TO	SHORTS	SAMPLE NO.	FOOTAGE FROM	FOOTAGE TO	WIDTH	ASSAYS					SAMPLE NO.	FOOTAGE FROM	FOOTAGE TO	WIDTH	ASSAYS						
		Core Recovery $\frac{76.4}{132.0}$ x 100% - 57.9%																				
		Remarks:																				
		Hole #23 was badly broken and caved between 175' and 218'. The hole was cemented at 192' and allowed to set for 18 hours. Further caving necessitated recementing the hole at 193.8'.																				

BEARING | DIP -90 | CORE RECOVERY 55.3

PROPERTY McMillan | TOTAL LENGTH 209.0' | VERT. | HORZ.

DISTRICT Yukon Territory | ELEVATION 505.6 | OVERBURDEN 64.2'

CO-ORDINATES 3 - 05 W; 14 - 12 N | PURPOSE To test ground to west of DH #23

HOLE NO. 24 | SHEET NO. 1

STARTED August 18, 1952

COMPLETED August 25, 1952

LOGGED BY C. J. Coveney

DATE August 26, 1952

SEP 10 1952

GEOLOGY			CORE RECOVERY			CORE SAMPLES					SLUDGE SAMPLES					RE-COVERY	COLOR PLOT
FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	FOOTAGE FROM	FOOTAGE TO	SHORTS	SAMPLE NO.	FOOTAGE FROM	FOOTAGE TO	WIDTH	ASSAYS	SAMPLE NO.	FOOTAGE FROM	FOOTAGE TO	WIDTH	ASSAYS		
		Hole cased to 84.0'.															
0.0	64.2	Overburden.															
64.2	65.9	Argillite-purple to pink in color. Vague banding 75° to core.	64.2	65.2	0.4												
			65.2	65.9	0.3												
65.9	67.2	No core.	65.9	67.2	1.3												
67.2	70.0	Argillite-greenish colored. Obscure banding 70° to core.	67.2	70.0	2.1												
70.0	78.2	Argillite-purple. Banding at 71' is 70-75° to core.	70.0	71.0	0.3												
			71.0	73.5	1.3												
			73.5	74.8	0.9												
			74.8	75.7	0.0												
			75.7	77.2	1.3												
			77.2	78.0	0.7												
			78.0	79.2	0.8												
78.2	90.5	Mainly buttons of pinkish gray quartzite; 83.7-87.9 purple argillite. Good evidence of brecciation at 82.0. Banding obscure. 1" stringer of white quartz at 85.7'. Sections grade into the following	79.2	81.8	1.9												
			81.8	84.0	1.1												
			84.0	85.5	1.2												
			85.5	87.0	0.9												
			87.0	87.7	0.1												
			87.7	90.5	0.7												
90.5	94.0	Argillite-purple, with some narrow (1/8") bands of gray quartzite 70° to core. Some minor pyrite.	90.5	92.0	0.9												
			92.0	94.0	0.8												
94.0	98.8	Argillite-purple. Section similar to previous section but with a considerable increase in the number of gray quartzite bands. Last 3" section is green argillite. Banding distinct. At 95.0' it is 60° to core, at 97.0' it is 75° to core. Brecciated at 94.0'. Section grades into following.	94.0	95.5	0.3												
			95.5	97.5	0.4												
			97.5	98.8	0.0												
98.8	101.7	Quartzite-gray with a pinkish tint and a few narrow partings of gray argillite. 100.5-101.0 white quartz. Crude banding in argillite about 65° to core.	98.8	101.7	0.3												

BEARING | DIP | CORE RECOVERY | HOLE NO. 24 | SHEET NO. 2

PROPERTY McMillan | TOTAL LENGTH | VERT. | HORZ. | STARTED

DISTRICT Yukon Territory | ELEVATION | OVERBURDEN | COMPLETED

CO-ORDINATES | PURPOSE | LOGGED BY

DATE

GEOLOGY FOOTAGE FROM	TO	DESCRIPTION	CORE RECOVERY FOOTAGE FROM	TO	SHORTS	CORE SAMPLES SAMPLE NO.	FOOTAGE FROM	TO	WIDTH	ASSAYS Ag-Oz	Pb. %	Zn. %		SLUDGE SAMPLES SAMPLE NO.	FOOTAGE FROM	TO	WIDTH	ASSAYS	RE-COVERY	COLOR PLOT
101.7	105.8	Argillite-purple with interbands of gray quartzite, which vary from 1/8" - ½" in thickness. Section well banded with overall banding about 65° to core. Section grades into following.	101.7	103.0	0.0															
			103.0	104.9	0.8															
			104.9	105.8	0.1															
105.8	109.0	Quartzite-pinkish with a few narrow partings of green argillite 80° to core	105.8	107.2	0.1															
			107.2	109.0	0.7															
109.0	110.3	Quartzite-gray. At 109.3' 4" white quartz. No observed banding.	109.0	110.3	0.6															
110.3	131.8	Argillite-green, well banded with interbands of gray quartzite varying from 1/8" to 1" in width and uniformly scattered throughout the section and making up about 15% of the section. The quartzite bands contain small specks of pyrite. Banding at 116.5 is 60° to core and at 126.0 is 75° to core. Miniature fault at 124.0 with ¼" displacement.	110.3	113.0	0.5															
			113.0	114.9	1.4															
			114.9	116.2	0.3															
			116.2	119.5	0.6															
			119.5	121.2	0.4															
			121.2	124.8	0.0															
			124.8	126.1	0.2															
			126.1	128.5	0.0															
			128.5	130.3	0.0															
			130.3	131.8	0.0															
131.8	134.2	Interbanded green argillite and gray quartzite. approximately 50-50 proportion. Banding 60 - 70° to core.	131.8	132.5	0.1															
			132.5	133.5	0.5															
			133.5	134.2	0.2															
134.2	150.8	Mainly gray quartzite with a few thin partings of green argillite. Banding obscure but appears to be about 65° to the core.	134.2	135.5	0.2									7107	145.0	150.0	5.0			
			135.5	138.2	1.9															
			138.2	140.0	0.9															
			140.0	142.7	1.9															
			142.7	145.2	0.7															
			145.2	147.7	2.0															
			147.7	149.0	0.9															
			149.0	150.9	1.5															
150.8	152.5	Quartzite-gray, with a few narrow partings of green argillite, 151.7-152.0 white quartz. Banded 60° to core.	150.8	152.5	0.0	7795	150.8	152.5	1.7	tr.	tr.	tr.		7108	150.0	155.0	5.0			
152.5	154.2	Quartzite-gray, pyritized. Banding 65° to core.	152.5	154.2	0.9	7796	152.5	154.2	1.7	0.10	tr.	tr.								

BEARING | DIP | CORE RECOVERY | HOLE NO. 24 | SHEET NO. 3

PROPERTY McMillan | TOTAL LENGTH | VERT. | HORZ. | STARTED

DISTRICT Yukon Territory | ELEVATION | OVERBURDEN | COMPLETED

CO-ORDINATES | PURPOSE | LOGGED BY

DATE

GEOLOGY		CORE RECOVERY			CORE SAMPLES							SLUDGE SAMPLES							RE-COVERY	COLOR PLOT
FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	FOOTAGE FROM	FOOTAGE TO	SHORTS	SAMPLE NO.	FOOTAGE FROM	FOOTAGE TO	WIDTH	ASSAYS Ag oz	Pb %	Zn %		SAMPLE NO.	FOOTAGE FROM	FOOTAGE TO	WIDTH	ASSAYS				
154.2	158.2	Quartzite-gray. 3" white quartz at 158. Banding at 156 is 70° to core. AT 154.3 a feathery seam of lead (1/16") that appears to parallel banding. At few specks of zinc at 156.0. Minor pyrite 156.5-158'.	154.2	156.5	0.4															
			154.3	156.5	0.7	7797	154.2	158.2	4.0	0.10	tr.	tr.								
			156.5	158.2	0.7															
158.2	162.0	Quartzite-well pyritized. At 161.0 some visible lead and zinc that appears to follow a fracture rather than following bedding. At 160.8 some irregular shaped sederite (?) that gives the rock a mottled appearance.	158.2	160.5	2.0									7109	155.0	160.0	5.0			
			160.5	162.0	0.1	7798	158.2	162.0	3.8	0.55	0.05	tr.								
162.0	163.9	Quartzite-gray, partly pyritized. Small (1/16") seam of zinc at 162.5 parallel to banding which is 65° to core.	162.0	163.0	0.1															
			163.0	163.9	0.5	7799	162.0	163.9	1.9	0.50	tr.	tr.								
163.9	165.4	Quartzite-partly pyritized and slightly mottled in appearance due to the small grains of quartz. Crude banding 65°-70° to core. At 164.5 minor zinc.	163.9	165.4	0.0	7800	163.9	165.4	1.5	0.30	0.10	0.70		7110	160.0	165.0	5.0			
165.4	168.7	Quartzite-gray, mottled. At 167.0' some pyrite seams 70° to core. 168.0-168.8' minor zinc in hair-like seams. 166-167.5 scattered pyrite.	165.4	166.0	0.0															
			166.0	166.8	0.2															
			166.8	168.7	0.0	7101	165.4	168.7	3.3	0.05	0.25	tr.								
168.7	172.7	Quartzite-gray, fine grained. At 169.0 a small thread like fracture of zinc (1/16"). 169.7-172.7 mainly buttons weakly pyritized. No banding.	168.7	169.7	0.3															
			169.7	171.2	1.2															
			171.2	172.7	1.1	7102	168.7	172.7	4.0	0.10	0.43	0.90		7111	165.0	170.0	5.0			
172.7	174.0	Argillite-green, dense. No banding. Occasional speck of lead.	172.7	174.0	0.4	7103	172.7	174.0	1.3	0.10	tr.	tr.								
174.0	175.8	Quartzite-gray, pyritized. Crude banding 75° to core.	174.0	174.8	0.3															
			174.8	175.8	0.5	7104	174.0	175.8	1.8	0.40	tr.	tr.		7112	170.0	175.0	5.0			
175.8	177.6	Argillite-buttons, minor quartzite stringers.	175.8	176.8	0.8															
			176.8	177.6	0.6	7105	175.8	177.6	1.8	0.05	tr.	tr.		7113	175.0	180.0	5.0			
177.6	179.8	Quartzite-gray, fine grained. No banding. A few zinc filled thread-like fractures.	177.6	179.8	1.7	7106	177.6	179.8	2.2	0.05	0.05	tr.								

BEARING | DIP | CORE RECOVERY | HOLE NO. 24 | SHEET NO. 4

PROPERTY McMillan | TOTAL LENGTH | VERT. | HORZ. | STARTED

DISTRICT Yukon Territory | ELEVATION | OVERBURDEN | COMPLETED

CO-ORDINATES | PURPOSE | LOGGED BY

DATE

GEOLOGY			CORE RECOVERY			CORE SAMPLES							SLUDGE SAMPLES						RE-COVERY	COLOR PLOT
FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	FOOTAGE FROM	FOOTAGE TO	SHORTS	SAMPLE NO.	FOOTAGE FROM	FOOTAGE TO	WIDTH	ASSAYS					SAMPLE NO.	FOOTAGE FROM	FOOTAGE TO	WIDTH	ASSAYS						
179.8	187.0	No core - mud seem (Drillers Note)	179.8	187.0	7.2										7114	180.0	185.0	5.0							
187.0	200.3	Quartzite-gray, fine grained. Buttons. Part of ground core shows some cubes of pyrite. Brecciated(?) at 193.8'.	187.0	189.0	1.2										7115	185.0	190.0	5.0							
			189.0	192.1	2.8										7116	190.0	195.0	5.0							
			192.1	193.8	1.4										7117	195.0	200.0	5.0							
			193.8	198.0	4.9										7118	200.0	204.0	4.0							
			198.0	200.3	1.1										7119	204.0	209.0	5.0							
200.3	209.1	Drilled with plug bit and sludge carefully examined. Rock grey quartzite. Hole caving badly from 179.8-209.0																							
		End of Hole																							
		Core Recovery 55.3%																							

HOLE NO. 25 SHEET NO. 1

BEARING DIP -50 CORE RECOVERY 34.3%

PROPERTY McMillan TOTAL LENGTH 133.0' VERT. HORZ.

DISTRICT Yukon Territory ELEVATION 464.97 OVERBURDEN 24.0'

CO-ORDINATE 16 - 00 N; 4 - 00 W PURPOSE To test for northward continuation of mineralization zone

STARTED August 28, 1952

COMPLETED September 3, 1952

LOGGED BY C. J. Coveney

DATE September 5, 1952

GEOLOGY			CORE RECOVERY			CORE SAMPLES								SLUDGE SAMPLES								RE-COVERY	COLOUR PLOT
FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	FOOTAGE FROM	FOOTAGE TO	SHORTS	SAMPLE NO.	FOOTAGE FROM	FOOTAGE TO	WIDTH	ASSAYS					SAMPLE NO.	FOOTAGE FROM	FOOTAGE TO	WIDTH	ASSAYS						
		Stand Pipe to 24.0'. Cased to 61.0'. Cemented 61.0' - 111.0'.																					
0.0	24.0	Overburden.																					
24.0	30.3	Argillite-deep purple in color; banding 70° to core.	24.0 26.0 27.5	26.0 27.5 30.3	0.0 0.0 0.4																		
30.3	52.7	Interbanded light purple and greenish argillite. Some minor narrow interbands of grey quartzite. At 37.0 some specks of pyrite parallel to banding. Section well banded 70 - 75° to core. A few buttons of white quartz at 51.0'.	30.3 31.2 34.2 37.9 39.8 41.5 44.5 48.7 50.8	31.2 34.2 37.9 39.8 41.5 44.5 48.7 50.8 52.7	0.0 0.0 2.0 1.7 1.4 2.2 3.5 1.6 1.3																		
52.7	54.3	Round argillite.	52.7	54.3	1.3																		
54.3	62.2	Mainly broken buttons and chips of pink argillite and grey quartzite with the quartzite predominating. Banding in argillite buttons 75° to core.	54.3 57.0 58.5 59.5 61.0	57.0 58.5 59.5 61.0 62.2	2.5 0.6 0.0 1.0 0.9																		
62.2	68.0	Mainly ground core. Numerous buttons of grey quartzite in the argillite paste. Section probably similar to the previous section. Some white quartz buttons at 67.5.	62.2 65.8	65.8 68.0	1.8 1.4																		
68.0	74.7	Argillite-greenish with two or three narrow interbands of grey quartzite. At 68.2 a narrow seam of pyrite at 50° may represent original banding. Banding at 74.0' is 80° to core.	68.0 69.6 71.2 73.0	69.6 71.2 73.0 74.7	1.1 0.5 0.4 0.6																		
74.7	77.3	Quartzite-grey, broken buttons.	74.7 76.0	76.0 77.3	1.0 1.0																		

HOLE NO. 25 SHEET NO. 2

BEARING DIP CORE RECOVERY STARTED

PROPERTY McMillan TOTAL LENGTH VERT. HORZ. COMPLETED

DISTRICT Yukon Territory ELEVATION OVERBURDEN LOGGED BY

CO-ORDINATES PURPOSE DATE

GEOLOGY FOOTAGE FROM	TO	DESCRIPTION	CORE RECOVERY FOOTAGE FROM	TO	SHORTS	CORE SAMPLES NO.	FOOTAGE FROM	TO	WIDTH	ASSAYS Ag-Oz	Pb.%	Zn.%	SLUDGE SAMPLES NO.	FOOTAGE FROM	TO	WIDTH	ASSAYS Ag-Oz	Pb.%	Zn.%	RE-COVERY	CORE PLOT
77.3	78.8	Ground core with buttons of grey quartzite.	77.3	78.8	1.2																
78.8	81.0	Quartzite-grey, broken buttons.	78.8	81.0	1.6																
81.0	86.2	No core.	81.0	86.2	5.2																
86.2	88.0	Quartzite-grey, broken buttons. Probably some argillite in ground core.	86.2	88.0	1.1																
88.0	90.2	Ground core - some quartzite buttons	88.0	90.2	1.7																
90.2	93.0	No core.	90.2	93.0	2.8																
93.0	95.8	No core.	93.0	95.8	2.8																
95.8	98.5	No core.	95.8	98.5	2.7								7129	95.0	100.0	5.0					
98.5	103.0	Quartzite-grey- some pyritization. A few specks of visible zinc. No banding. Mainly broken buttons.	98.5	101.9	2.9	7120	98.5	103.0	4.5	0.30	0.30	tr.									
			101.9	103.0	0.3																
103.0	104.9	Quartzite-grey, mineralized with pyrite and zinc. At 103.5 the mineralization appears to parellel the banding which is 85° to the core.	103.0	104.9	0.7	7121	103.0	104.9	1.9	0.40	0.65	7.20	7130	100.0	105.0	5.0					
104.9	106.9	No core.	104.9	106.9	2.0																
106.9	109.3	Heavy mineralization. Original rock completely replaced. No definite banding.	106.9	109.3	1.1	7122	106.9	109.3	2.4	2.40	5.90	19.10									
109.3	110.8	Quartzite-gray, mineralized. Last 2" of core is ground.	109.3	110.8	0.9	7123	109.3	110.8	1.5	0.25	2.70	7.70	7131	105.0	110.0	5.0	1.05	1.85	4.30		
110.8	112.1	Quartzite-gray, mineralization appears to follow thread-like fractures.	110.8	112.1	0.4	7124	110.8	112.1	1.3	0.95	3.40	2.90									
112.1	113.3	Argillite-green, partly pyritized, mainly broken buttons. Small button of zinc at 113.3'. No banding.	112.1	113.3	0.7	7125	112.1	113.3	1.2	0.30	0.55	tr.	7132	110.0	114.3	4.3	0.80	1.45	4.00		
113.3	114.3	No core.	113.3	114.3	1.0																
114.3	116.9	Argillite-green, broken buttons, slightly pyritized. A few buttons of grey quartzite at end of section.	114.3	116.9	1.7	7126	114.3	116.9	2.6	0.40	0.86	tr.	7133	114.3	116.9	2.6					
116.9	118.2	No core.	116.9	118.2	1.3								7134	116.9	118.2	1.3	0.70	1.00	1.70		
118.2	119.0	No core.	118.2	119.0	0.8								7135	118.2	119.0	0.8	1.05	2.50	5.40		

BEARING | DIP | CORE RECOVERY | HOLE NO. 25 | SHEET NO. 3

PROPERTY: McMillan | TOTAL LENGTH | VERT. | HORZ. | STARTED

DISTRICT Yukon Territory | ELEVATION | OVERBURDEN | COMPLETED

CO-ORDINATES | PURPOSE | LOGGED BY

DATE

GEOLOGY			CORE RECOVERY			CORE SAMPLES							SLUDGE SAMPLES							RE-COVERY	COLOR PLOT
FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	FOOTAGE FROM	FOOTAGE TO	SHORTS	SAMPLE NO.	FOOTAGE FROM	FOOTAGE TO	WIDTH	ASSAYS Ag-Oz	ASSAYS Pb. %	ASSAYS Zn. %	SAMPLE NO.	FOOTAGE FROM	FOOTAGE TO	WIDTH	ASSAYS Ag-Oz	ASSAYS Pb. %	ASSAYS Zn. %		
119.0	120.5	Ground core - black in color.	119.0	120.5	0.9	7127	119.0	120.5	1.5	1.85	4.90	6.10	7136	119.0	120.5	1.5	0.90	1.80	4.20		
120.5	124.1	Quartzite-gray, weakly pyritized; some visible lead and zinc specks at start of section - no banding - broken buttons. At 122.5' pyrite follows thread-like fractures. 3" white quartz at 123.0 Last 6" of section ground core.	120.5	122.3	1.3	7128	120.5	124.1	3.6	0.05	0.15	tr.	7137	120.5	122.3	1.8					
			122.3	124.1	0.3								7138	122.3	124.1	1.8					
124.1	125.4	No Core.	124.1	125.4	1.3								7139	124.1	125.4	1.3	0.40	0.80	1.80		
125.4	128.0	Only 2 buttons of white quartz.	125.4	128.0	2.4								7140	125.4	128.0	2.6					
128.0	130.8	No core.	128.0	130.8	2.8								7141	128.0	130.8	2.8					
130.8	133.0	Quartzite-gray buttons.	130.8	132.0	0.9																
			132.0	133.0	0.6																

End of Hole

Rock badly broken, much caving.

Length of hole 133.0'
Overburden 24.0'
109.0'
Shorts 71.6'
Core recovered 37.4'

Core recovery $\frac{37.4 \times 100}{109}$ - 34.3%

BEARING

PROPERTY McMillan | TOTAL LENGTH 215.0 | DIP -90 | CORE RECOVERY 46.4

DISTRICT Yukon Territory | ELEVATION 518.01 | VERT. | HORZ.

CO-ORDINATES 13 - 00 N; 0 - 90 W | PURPOSE To trace mineralized zone to east of DH #22 | OVERBURDEN 93.0

HOLE NO. 26 SHEET NO. 1

STARTED Sept. 5, 1952

COMPLETED Sept. 10, 1952

LOGGED BY C. J. Coveney & D. Olson

DATE Sept. 10, 1952

GEOLOGY			CORE RECOVERY			CORE SAMPLES						SLUDGE SAMPLES						RE-COVERY	COLOR PLOT
FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	FOOTAGE FROM	FOOTAGE TO	SHORTS	SAMPLE NO.	FOOTAGE FROM	FOOTAGE TO	WIDTH	ASSAYS		SAMPLE NO.	FOOTAGE FROM	FOOTAGE TO	WIDTH	ASSAYS			
		Holed cased to 97.0'																	
0.0	93.0	Overburden.																	
93.0	100.8	Argillite-purple with interbands of green argillite and the occasional band and patch of gray quartzite. Banding at 97.0' is 60° to core.	93.0	96.0	2.7														
			96.0	97.0	0.7														
			97.0	99.5	0.0														
			99.5	100.8	0.0														
100.8	117.0	Similar to previous section, but with an increase of the gray quartzite bands and patches which become more pronounced towards the end of the section. Minor pyrite throughout section. Overall banding 65°-70° to core. At 116.0' some narrow seams of pyrite parallel to the banding. Also some miniature faulting at 116.0'	100.8	104.2	0.2														
			104.2	106.4	0.0														
			106.4	107.8	0.0														
			107.8	109.5	0.2														
			109.5	111.0	0.0														
			111.0	113.5	1.2														
			113.5	117.0	1.4														
117.0	141.5	Mainly broken buttons of gray quartzite. Last 3'-4' of section shows buttons of green argillite. Good evidence of brecciation at 124.2. At 138.7 banding in argillite buttons is 60° to core. Minor pyrite at 141.5'. Section grades into the following section.	117.0	120.2	1.8														
			120.2	122.2	1.3														
			122.2	124.0	0.6														
			124.0	126.7	2.1														
			126.7	130.0	2.9														
			130.0	132.0	1.8														
			132.0	135.2	1.9														
			135.2	137.1	1.1														
			137.1	138.5	0.0														
			138.5	141.5	2.2														
141.5	151.8	Interbanded dark gray and green argi- with a few minor interbands of gray quartzite. Overall banding 60°-65° to core.	141.5	143.2	0.6														
			143.2	147.0	2.7														
			147.0	148.2	0.6														
			148.2	148.2	0.0														
			148.2	151.8	0.3														
151.8	155.0	Mud seam - (driller's note) 6 buttons of gray quartzite buttons between 151.8 - 154.0'.	151.8	154.0	1.9														
			154.0	155.0	1.0														
155.0	162.5	Quartzite-gray, fine grained, occasional thin parting of gray argillite. Some miniature faulting at 155.1. Section mainly broken buttons.	155.0	157.0	1.6														
			157.0	157.8	0.5														
			157.8	160.5	2.0														
			160.5	162.5	1.4														

BEARING | DIP | CORE RECOVERY | HOLE NO. 26 | SHEET NO. #2

PROPERTY McMillan | TOTAL LENGTH | VERT. | HORZ. | STARTED

DISTRICT Yukon Territory | ELEVATION | OVERBURDEN | COMPLETED

CO-ORDINATES | PURPOSE | LOGGED BY

DATE

GEOLOGY			CORE RECOVERY			CORE SAMPLES							SLUDGE SAMPLES							RE-COVERY	COLOR PLOT
FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	FOOTAGE FROM	FOOTAGE TO	SHORTS	SAMPLE NO.	FOOTAGE FROM	FOOTAGE TO	WIDTH	ASSAYS Ag-Oz	Pb.%	Zn.%	SAMPLE NO.	FOOTAGE FROM	FOOTAGE TO	WIDTH	ASSAYS Ag-Oz	Pb.%	Zn.%		
162.5	165.6	No core.	162.5	165.6	3.1																
165.6	180.0	Similar to previous section. 2" gray argillite at 174.2' and 175.2'. Broken buttons from 165.6 - 168.0'. Section probably contained interbands of gray argillite now represented by broken buttons of argillite. Banding at 168.5' is 45° to core. From 176.0 the section grades into the following section.	165.6	167.0	0.9																
			167.0	168.0	0.0																
			168.0	170.0	0.5																
			170.0	171.8	0.7																
			171.8	172.7	0.6																
			172.7	174.2	1.2																
			174.2	176.5	0.2																
			176.5	178.6	1.5																
			178.6	180.0	0.8																
180.0	182.0	Argillite-interbanded dark gray and green. Well banded 50° to core. Section shows some minute faulting.	180.0	182.0	0.4																
182.0	184.0	Quartzite-gray, broken buttons. Brecciated? No banding.	182.0	184.0	1.6																
184.0	184.6	Quartzite-gray, broken buttons with scattered zinc.	184.0	184.6	0.3	7142	184.0	184.6	0.6	0.25	0.80	4.20									
184.6	186.5	No Core.	184.6	186.5	1.9								7147	180.0	185.0	5.0	0.10	tr.	1.20		
186.5	188.8	Quartzite-gray. Banding 65° to core. Visible light brown zinc and some lead. The zinc mineralization appears to parallel the banding.	186.5	187.8	0.9	7143	186.5	188.8	2.3	0.30	0.85	2.20									
			187.8	188.8	0.3																
188.8	190.8	Broken buttons of gray quartzite heavily mineralized with zinc and lead.	188.8	190.8	1.7	7144	188.8	190.8	2.0	3.45	12.10	8.30	7148	185.0	190.0	5.0	0.80	2.30	5.50		
190.8	194.0	No core.	190.8	191.4	0.6								7149	190.0	191.4	1.4	1.30	3.00	9.20		
			191.4	194.0	2.6								7150	191.4	194.0	2.6	0.20	3.10	5.30		
194.0	195.6	Well mineralized. All broken buttons, some of which appear to be mineralized argillite (?)	194.0	195.6	0.8	7145	194.0	195.6	1.6	2.70	8.30	26.00	7151	194.0	196.5	2.5	2.80	7.20	24.70		
195.6	198.0	No core.	195.6	196.5	0.9	XXXX	XXXX						7152	196.5	198.0	1.5	2.30	6.80	19.20		
198.0	199.0	4 broken buttons, 2 of which are gray quartzite, the other 2 are solid mineralization mainly zinc. (Possible caving?)	196.5	198.0	1.5																
			198.0	199.0	0.8	7146	198.0	199.0	1.0	1.20	1.90	10.20									
199.0	200.0	No core.	199.0	200.0	1.0								7153	198.0	202.0	4.0	0.95	1.55	4.60		

BEARING | DIP | CORE RECOVERY | HOLE NO. 56 | SHEET NO. 3

PROPERTY McMillan | TOTAL LENGTH | VERT. | HORZ. | STARTED

DISTRICT Yukon Territory | ELEVATION | OVERBURDEN | COMPLETED

CO-ORDINATES | PURPOSE | LOGGED BY

DATE

GEOLOGY			CORE RECOVERY			CORE SAMPLES					SLUDGE SAMPLES					RE-COVERY	COLOR PLOT
FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	FOOTAGE FROM	FOOTAGE TO	SHORTS	SAMPLE NO.	FOOTAGE FROM	FOOTAGE TO	WIDTH	ASSAYS	SAMPLE NO.	FOOTAGE FROM	FOOTAGE TO	WIDTH	ASSAYS		
200.0	203.0	Argillite-green, mainly broken buttons. A few broken buttons of gray quartzite, at start of section. At 202.0' banding is 35° to the core. No mineralization.	200.0	201.8	1.5												
			201.8	203.0	0.6												
203.0	207.0	Quartzite-gray - 204.5 - 205.8 green argillite. Some white quartz at 206.5'. No banding. Quartzite appears to be shattered.	203.0	204.2	0.7						7154	202.0	207.0	5.0			
			204.2	207.0	1.2												
207.0	215.0	Argillite-Interbanded green and dark gray between 207.0 - 208.5. Banding at 208.0 is 50° to core. Between 208.5 - 215.0 mainly broken buttons of green argillite with some minor interbands of gray quartzite. Between 209.5 - 210.0 ground argillite. From 210.0 - 212.0 the argillite has a faint pinkish tint. Banding in the argillite buttons at 211.0 is 40° to the core and 25° to core at 212.5	207.0	210.0	0.1												
			210.0	212.0	0.8												
			212.0	213.0	0.6												
			213.0	215.0	0.4												
		End of Hole.															

Length of hole 215.0'
Overburden 93.0'
122.0'

Shorts 65.4'
Amount of core recovered 56.6'

Core Recovery $\frac{100.0 \times 56.6}{122.0}$ - 46.4%

BEARING — DIP -90 — CORE RECOVERY 46.1%

PROPERTY McMillan — TOTAL LENGTH 182.0' — VERT. - — HORZ.

DISTRICT Yukon Territory — ELEVATION 517.47 — OVERBURDEN 71.0'

CO-ORDINATES 11-00N; 0-52W — PURPOSE To test eastern extension of mineralized zone

HOLE NO. 27 SHEET NO. 1

STARTED September 12, 1952

COMPLETED September 16, 1952

LOGGED BY C. J. Coveney

DATE September 16th, 1952

GEOLOGY			CORE RECOVERY			CORE SAMPLES								SLUDGE SAMPLES								RE-COVERY	COLOR PLOT
FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	FOOTAGE FROM	FOOTAGE TO	SHORTS	SAMPLE NO.	FOOTAGE FROM	FOOTAGE TO	WIDTH	ASSAYS					SAMPLE NO.	FOOTAGE FROM	FOOTAGE TO	WIDTH	ASSAYS						
		Hole cased to 87.0'.																					
0.0	71.0	Overburden.																					
71.0	73.3	Broken bits of purplish argillite. (May be part of overburden)	71.0	73.3	1.2																		
73.3	81.0	No Core (Drillers note)	73.3	81.0	7.7																		
81.0	83.0	Quartzite-grey, fine grained; broken buttons. Some ground core at 85.0'. Between 91.5 - 92.5 quartzite is purplish tinted.	81.0	81.8	0.5																		
			81.8	83.0	0.2																		
			83.0	85.0	1.4																		
			85.0	89.0	3.5																		
			89.0	92.5	2.1																		
			92.5	93.0	0.1																		
93.0	93.8	Argillite-green. Minor brecciation. Banding about 75° to core.	93.0	93.8	0.2																		
93.8	109.6	Quartzite-grey, fine grained; dense. No observed banding. Irregular patch of white quartz at 105.0' with minor pyrite.	93.8	95.0	1.6																		
			95.0	95.8	0.3																		
			95.8	97.0	0.7																		
			97.0	99.5	2.5																		
			99.5	102.1	2.1																		
			102.1	102.5	0.3																		
			102.5	104.3	1.0																		
			104.3	106.2	0.1																		
			106.2	108.8	0.9																		
			108.8	109.6	0.0																		
109.6	112.8	Argillite-interbanded dark grey and light green. Well banded 80° to core. Patch white quartz at 111.7'.	109.6	110.4	0.0																		
			110.4	112.8	0.4																		
112.8	114.5	Quartzite-grey, fine grained. Minor argillite at start of section. Banding 80° to core.	112.8	114.5	0.0																		
114.5	124.0	Argillite-interbanded dark grey and light green. Minor contortion that probably represent a soft rock structure.	114.5	117.1	0.3																		
			117.1	120.2	0.5																		
			120.2	123.0	0.0																		
			123.0	124.0	0.0																		
124.0	125.3	Quartzite-dark grey, fine grained. 2" band of argillite at 124.5'. Banding 80° to core.	124.0	125.3	0.0																		

BEARING | DIP | CORE RECOVERY | HOLE NO. 27 | SHEET NO. 2

PROPERTY McMillan | TOTAL LENGTH | VERT. | HORZ. | STARTED

DISTRICT Yukon | ELEVATION | OVERBURDEN | COMPLETED

CO-ORDINATES | PURPOSE | LOGGED BY

DATE

GEOLOGY			CORE RECOVERY			CORE SAMPLES							SLUDGE SAMPLES							RE-COVERY	COLOR PLOT
FOOTAGE FROM	TO	DESCRIPTION	FOOTAGE FROM	TO	SHORTS	SAMPLE NO.	FOOTAGE FROM	TO	WIDTH	ASSAYS Ag-Oz	Pb. %	Zn. %	SAMPLE NO.	FOOTAGE FROM	TO	WIDTH	ASSAYS Ag-Oz	Pb. %	Zn. %		
125.3	129.2	Mainly light grey quartzite. A few scattered buttons of argillite probably representing narrow interbands. Minor brecciation at 127.3'. Some buttons of white quartz at 128.0'. Crude banding 80° to core.	125.3	127.3	0.0																
			127.3	129.2	0.0																
129.2	136.7	Argillite-green. Banding 80-85o to core.	129.2	132.3	2.6																
			132.3	133.3	1.7																
			133.3	134.8	0.6																
136.7	143.4	Quartzite-grey, broken buttons. Between 140.0 - 140.8' white quartz buttons, Also, between 143.0 - 143.4'.	135.7	140.0	1.8																
			140.0	140.8	0.4																
			140.8	142.5	1.0																
			142.5	143.4	0.2																
143.4	144.9	Quartzite-white, limy in part. Broken buttons. No banding . Barren of mineralization.	143.4	144.9	0.5	7155	143.4	144.9	1.5	0.1	0.05	0.19									
144.9	147.1	Quartzite-limy, weekly pyritized. Banding 80° to core.	144.9	146.1	0.2																
			146.1	147.1	0.1	7156	144.9	147.1	2.2	0.40	0.10	0.50	7163	145.0	147.1	2.1					
147.1	148.8	Argillite-quartzitic, some pyritization. Banding 70° to core. Pyrite and zinc generally parallel banding but there are some ramifying thread-like fractures filled with lead and zinc.	147.1	148.8	0.0	7157	147.1	148.8	1.7	0.70	2.20	2.40	7164	147.1	150.7	3.6	1.35	3.30	8.30		
148.8	149.2	No core.	148.8	149.2	0.4																
149.2	150.7	Quartzite-grey, well mineralized. Definite banding 75° - 80° to core.	149.2	150.7	0.2	7158	149.2	150.7	1.5	3.45	9.70	14.20									
150.7	151.8	No core.	150.7	151.8	1.1								7165	150.7	151.8	1.1	1.20	3.80	19.30		
151.8	154.0	Well mineralized with lead and zinc. Original rock completely replaced, although there are two buttons of unreplaced argillite at the end of section.	151.8	152.8	0.3																
			152.8	154.0	0.6	7159	151.8	154.0	2.2	3.10	6.80	15.80	7166	151.8	152.8	1.0					
													7167	152.8	154.0	1.2					
154.0	157.1	154.0 - 155.6 dark grey argillite. 155.6 - 157.1 heavily mineralized with lead and zinc. No definite banding. At 156.4 there is 2" of mineralized green argillite. Remainder of section heavily mineralized and original rock completely	154.0	155.6	1.3								7168	154.0	155.6	1.6					
			155.6	157.1	0.4	7160	154.0	157.1	3.1	2.00	4.00	10.00	7169	155.6	157.1	1.5					

PROPERTY McMillan

DISTRICT Yukon

CO-ORDINATES

BEARING

TOTAL LENGTH

ELEVATION

PURPOSE

DIP

VERT.

OVERBURDEN

CORE RECOVERY

HORZ.

HOLE NO. 27

STARTED

COMPLETED

LOGGED BY

DATE

SHEET NO. 3

GEOLOGY			CORE RECOVERY			CORE SAMPLES							SLUDGE SAMPLES						RE-COVERY	COLOR PLOT
FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	FOOTAGE FROM	FOOTAGE TO	SHORTS	SAMPLE NO.	FOOTAGE FROM	FOOTAGE TO	WIDTH	ASSAYS Ag-Oz	ASSAYS Pb. %	ASSAYS Zn.%	SAMPLE NO.	FOOTAGE FROM	FOOTAGE TO	WIDTH	ASSAYS Ag-Oz	ASSAYS Pb. %	ASSAYS Zn.%		
		replaced.																		
157.1	161.0	Argillite-greenish. 157.1-157.5 heavily pyritized with fair zinc. Remainder of section weakly pyritized.	157.1	159.0	0.5								7170	157.1	159.0	1.9				
			159.0	161.0	1.0	7161	157.1	161.0	3.9	0.40	0.75	2.70	7171	159.0	161.0	2.0				
													7172	161.0	162.0	1.0	xx	1.15	5.20	
161.0	162.0	No core.	161.0	162.0	1.0								7173	162.0	165.0	3.0				
162.0	165.4	Argillite-greenish with a 3" band of heavily pyritized quartzite at 163.0'. No banding.	162.0	165.4	2.4	7162	162.0	165.4	3.4	0.40	0.30	3.70								
165.4	168.0	No Core.	165.4	168.0	2.6												xx Insufficient material			
168.0	171.5	No Core.	168.0	171.5	3.5															
171.5	176.4	Quartzite-grey, broken buttons	171.5	176.4	4.8															
176.4	178.0	Argillite-green, broken buttons.	176.4	178.0	0.6															
178.0	180.0	Quartzite-grey, broken buttons with some scattered buttons of green argillite. Cruds banding at 179.0' 60° to core.	178.0	179.5	0.9															
			179.5	180.0	0.0															
180.0	182.0	Argillite-broken buttons, dark grey. Banding 80° to core. Minor faulting at 181.0'.	180.0	182.0	0.0															
		End of hole.																		

Length of hole 182.0'
Overburden 71.0'
Rocked drilled 111.0'
Shorts 59.8'
51.2

Core recovery $\frac{51.2 \times 100.0}{111.0}$ - 46.1%

BEARING | DIP -90° | CORE RECOVERY 45.8% | HOLE NO. 28 | SHEET NO. 1

PROPERTY McMillan Option | TOTAL LENGTH 165.0' | VERT. Vertical | HORZ. | STARTED April 24th, 1953

DISTRICT Watson Lake, Y. T. | ELEVATION 506.0' | OVERBURDEN 56.0' | COMPLETED April 29th, 1953

CO-ORDINATES 1 + 05 N and 8 + 99 N | PURPOSE To explore ore zone to the east. | LOGGED BY D. N. Olson | DATE May 26th, 1953.

GEOLOGY			CORE RECOVERY			CORE				SAMPLES				SLUDGE SAMPLES								RECOVERY	COLOR PLOT
FOOTAGE		DESCRIPTION	FOOTAGE		SHORTS	SAMPLE #	FOOTAGE		WIDTH	ASSAYS				SAMPLE #	FOOTAGE		WIDTH	ASSAYS					
FROM	TO		FROM	TO			FROM	TO		oz. Ag	% Pb	% Zn			FROM	TO							
0.0	38.0	Pipe.																					
0.0	60.0	Casing.																					
0.0	56.0	Overburden.																					
56.0	56.5	Quartzite, dark gray, fine grained. No banding observed.	56.0	56.5	0.0																		
			56.5	60.5	3.2																		
56.5	66.0	Interbanded dark gray and greenish argillite. 4" band of quartzite at 64.0' is brecciated. 1" button of white quartz at 66.0'. Banding at 57' is 45° to core; at 61' banding is 45° to core.	60.5	64.0	2.5																		
			64.0	66.0	1.5																		
			66.0	70.0	4.0																		
			70.0	72.0	1.7																		
			72.0	73.5	0.2																		
66.0	70.0	No core (drillers note).	73.5	75.5	1.0																		
70.0	76.0	Interbanded dark gray and greenish argillite. Banding at 72.0' is 50° to core; at 73.0' banding is 40 - 45° to core; at 75.0' banding is 50° to core.	75.5	79.0	2.2																		
			79.0	81.0	1.4																		
			81.0	83.0	1.5																		
			83.0	84.0	0.0																		
76.0	92.0	Quartzite, light gray with anoccasional thin parting of dark gray and greenish argillite. Occasional narrow quartzite bands occur throughout the section. Miniature faulting occurs throughout the section. Minor pyritisation at the end of the section. Core is brecciated at 81.5'. Banding at 79.0' is 50° to the core; at 83.5' it is 75° to core; at 84.0' it is 60° to core; at 86.0' it is 50° to core; at 90.0' it is 60° to core.	84.0	85.0	0.1																		
			85.0	89.0	1.3																		
			89.0	92.0	0.1																		
92.0	93.2	Quartzite, light gray with an occasional speck of Pb and Zn. Section has 1/8" cross cutting fractures filled with white quartz. No banding observed.	92.0	93.0	0.2																		
93.2	94.5	Interbanded light gray and green argillite with an occasional band of light gray quartzite. Banding at 94.0' is 60° to core.	93.0	97.0	0.9																		
94.5	97.0	Quartzite, light gray, brecciated between 94.5 - 95.5'. Banding at 96.5' is 50° to core.																					
97.0	105.0	Limy quartzite? brecciated. Minor mineralization consisting of pyrite Pb and Zn. Banding at 104.0' is 55° to core.	97.0	101.0	0.7																		
			101.0	103.0	0.7	7201	97.0	104.5	7.5	trace	0.64	1.20											
			103.0	104.5	0.7																		
105.0	109.5	Original rock completely replaced with heavy pyrite, Pb and Zn. Possible limestone horizon. No banding observed.	104.5	109.5	3.2	7202	104.5	109.5	5.0	1.05	3.70	6.20											
109.5	111.5	Original rock completely replaced with pyrite, Pb and Zn. Banding at 110.0' is 50° to core.	109.5	111.5	0.7																		
						7203	109.5	114.0	4.5	1.65	5.60	10.70											
111.5	114.0	Original rock completely replaced with Zn and Pb. Some quartz gangue. No banding observed.	111.5	114.0	1.7																		
114.0	115.0	Well mineralized but has heavy pyrite. Last 3" of section is limy gray quartzite with minor mineralization. No banding observed.				7204	114.0	115.0	1.0	0.80	4.10	2.10											
			114.0	115.0	0.0																		
115.0	118.0	Quartzite, light gray, limy, and brecciated. Section has minor Pb and Zn.	115.0	116.0	0.2																		
			116.0	118.0	0.8	7205	115.0	118.0	3.0	trace	trace	0.70											

BEARING | DIP | CORE RECOVERY | HOLE NO. STARTED 28 | SHEET NO. 2

PROPERTY McMillan Option | TOTAL LENGTH | VERT. | HORZ. | COMPLETED

DISTRICT Watson Lake, Y.T. | ELEVATION | OVERBURDEN | LOGGED BY

CO-ORDINATES | PURPOSE | DATE

GEOLOGY			CORE RECOVERY			CORE SAMPLES							SLUDGE SAMPLES									
FOOTAGE		DESCRIPTION	FOOTAGE		SHORTS	SAMPLE #	FOOTAGE		WIDTH	ASSAYS			SAMPLE #	FOOTAGE		WIDTH	ASSAYS				RECOVERY	COLOR PLOT
FROM	TO		FROM	TO			FROM	TO		Oz. Ag.	% Pb.	% Zn.		FROM	TO							
118.0	120.0	Well mineralised with pyrite, Pb and Zn in brecciated, limy, dark gray, fine grained quartzite. At 119.0' indistinct banding is 70° to core.	118.0	120.0	0.0	7206	118.0	120.0	2.0	4.40	10.40	14.80										
120.0	128.5	Original rock completely replaced with Zn and Pb. Banding obscure.	120.0	128.5	5.2	7207	120.0	128.5	8.5	4.40	9.70	22.70										
128.5	133.0	Section well mineralised except from 132.0 - 133.0' which is dark gray argillite containing minor Zn and pyrite. At 132.0' vague banding 70° to core.	128.5	133.0	3.0	7208	128.5	133.0	4.5	0.20	2.20	3.60										
133.0	136.0	Well mineralised with pyrite, Pb and Zn in quartzite with dark gray argillite partings. No banding observed.	133.0	136.0	2.2	7209	133.0	136.0	3.0	3.20	9.20	8.20										
136.0	137.0	Quartzite buttons and chips with an occasional speck of Zn. No banding.	136.0	137.0	0.4	7210	136.0	138.0	2.0	4.00	8.80	27.70										
137.0	138.0	Heavy Zinc mineralization in light gray quartzite?	137.0	138.0	0.0																	
138.0	138.8	Light gray quartzite, well mineralised with Pb and Zn. Banding at 138.8 approximately 60° to core.	138.0	142.0	0.0	7211	138.0	142.0	4.0	3.70	8.30	16.70										
138.8	141.0	Argillite, dark gray, with minor zinc filled fractures. Section is contorted and shows many small drag folds. Banding obscure.																				
141.0	142.0	Quartzite, light-gray, well mineralized. Banding obscure.																				
142.0	144.5	Argillite, dark-gray containing minor Zn and pyrite. Banding at 143.0' is 60° to core.	142.0	144.5	0.0	7212	142.0	144.5	2.5	0.80	3.10	3.60										
144.5	145.0	Argillite, greenish with minor pyrite and Zn. Several miniature step faults. Banding at 144.8 is 10° to core.	144.5	145.0	0.3																	
145.0	150.0	No core. Mud seam. (drillers Note).	145.0	150.0	5.0																	
150.0	153.0	Quartzite, light-gray and fine grained. Section appears barren. No banding observed.	150.0	153.0	2.5																	
153.0	155.0	No core. (mud seam) (drillers note).																				
155.0	157.5	No core, mud seam. (drillers note).	153.0	157.5	4.5																	
157.5	163.5	Broken buttons and chips of light-gray quartzite with minor pyritization. Banding 80° to core.	157.5	163.5	5.5																	
163.5	165.0	Broken buttons and chips of dard and light-gray argillite. Banding at 174.0 is 75° to core.	163.5	165.0	0.0																	

END OF HOLE

Depth of hole - 165.0'
Overburden - 56.0'
Bedrock drilled 109.0'
Shorts 59.1'
Core recovered 49.9'

% core recovery $\frac{49.9}{109.0} \times 100 = 45.8\%$

BEARING | DIP -90° | CORE RECOVERY 33.1% | HOLE NO. 29 | SHEET NO. 1

PROPERTY McMillan Option | TOTAL LENGTH 187.0' | VERT. Vertical | HORZ. | STARTED April 30th, 1953

DISTRICT Watson Lake, Y.T. | ELEVATION 520.6' | OVERBURDEN 78.0' | COMPLETED May 6th, 1953.

CO-ORDINATES 0 + 92 E; 9 + 00 N | PURPOSE To explore eastward extension of ore zone | LOGGED BY D. Olson and C. J. Coveney | DATE May 26th, 1953.

GEOLOGY			CORE RECOVERY			CORE SAMPLES								SLUDGE SAMPLES								RECOVERY	COLOR PLOT
FOOTAGE		DESCRIPTION	FOOTAGE		SHOTS	SAMPLE #	FOOTAGE		WIDTH	ASSAYS				SAMPLE #	FOOTAGE		WIDTH	ASSAYS					
FROM	TO		FROM	TO			FROM	TO		Oz. Ag	% Pb	% Zn			FROM	TO							
0.0	61.0	Pipe.																					
0.0	78.0	Casing.																					
0.0	78.0	Overburden.																					
78.0	101.0	Mainly creamy-green argillite with scattered narrow bands of dark-gray quartzite. These quartzite bands become more numerous towards the end of the section. Miniature faulting at 80.5'. Miniature folds at 95.0', 97.0 - 98.6 brecciated and mud seam.	78.0	80.0	1.0																		
			80.0	86.0	3.0																		
			86.0	86.5	0.0																		
			86.5	89.5	2.5																		
			89.5	90.0	0.0																		
			90.0	91.5	0.3																		
101.0	124.7	Broken buttons and chips of dark gray quartzite with thin partings of greenish argillite throughout the section. Banding at 107.0' is 60° to core; at 111.0' it is 45° to core.	91.5	92.5	0.0																		
			92.5	94.0	0.0																		
			94.0	96.0	0.5																		
			96.0	98.5	1.7																		
124.7	127.0	Quartzite light-gray, fine grained and brecciated.	98.5	99.0	0.0																		
			99.0	101.5	0.7																		
127.0	128.3	Argillite dark-gray, broken buttons.	101.5	103.0	1.7																		
128.3	133.3	Mainly light-gray, fine grained quartzite with narrow interbands of dark-gray and greenish argillite. Visible Pb and Zn throughout the shattered section. Banding at 130.0' is 65° to 70° to core.	103.0	104.0	0.8																		
			104.0	106.0	1.5																		
			106.0	111.5	4.5																		
			111.5	116.0	3.1																		
			116.0	119.0	2.1																		
133.3	136.0	Well mineralized in light-gray quartzite, medium grained.	119.0	121.8	2.6																		
			121.8	124.7	2.6																		
136.0	137.0	Quartzite, light-gray, containing occasional speck Zn. Section is brecciated. No banding observed.	124.7	126.2	1.8																		
			126.2	127.0	0.6																		
			127.0	128.3	0.8	7213	126.2	128.3	2.1	trace	0.32	0.60											
137.0	138.0	Quartzite, light-gray, fine grained, mineralized and predominantly with Zn. Band 70° to core.	128.3	130.7	1.4																		
			130.7	133.3	1.8	7214	128.3	133.3	5.0	trace	0.54	1.70											
			133.3	136.0	1.9																		
138.0	143.0	Quartzite, light-gray. Broken chips with minor Pb and Zn.	136.0	137.0	0.5																		
			137.0	138.0	0.1	7215	133.3	138.0	4.7	0.80	3.50	15.20											
143.0	144.0	Ground argillite, dark-gray.	138.0	143.0	4.5	7216	138.0	143.0	5.0	0.25	1.20	2.30											
144.0	147.0	No core; mud and sand (driller's note).	143.0	144.0	0.8																		
147.0	161.0	Quartzite, whitish-gray, medium grained with recognizable quartz grains. Broken chips. Barren.	144.0	147.0	0.0																		
			147.0	151.0	3.6																		
			151.0	156.0	4.8																		
161.0	163.0	Quartzite, dark-gray with few narrow interbands of greenish argillite. Banding at 161' is approximately 55° to core; at 163.0' is 80° to core.	156.0	157.3	0.8																		
			157.3	161.0	3.1																		
			161.0	162.0	0.7																		
			162.0	164.0	0.7																		
163.0	164.2	Quartzite, dark-gray, fine grained.	164.0	168.0	3.2																		
164.2	185.0	Interbanded dark and light-gray argillite with an odd ½" band of light-gray quartzite. Mostly broken buttons and chips. Banding at 173.0' is 60° to core; at 180.0' it is 85° to core; at 182.0' it is 80° to core. 168.2 - 172.0' is ground dark-gray argillite.	168.0	172.0	3.4																		
			172.0	176.5	3.2																		
			176.5	179.5	2.1																		
			179.5	183.0	1.3																		
			183.0	185.0	1.7																		

BEARING | DIP | CORE RECOVERY 33.1% | HOLE NO. STARTED 29 | SHEET NO. 2

PROPERTY McMillan Option | TOTAL LENGTH | VERT. | HORZ. | COMPLETED

DISTRICT Watson Lake, Y. T. | ELEVATION | OVERBURDEN | LOGGED BY

CO-ORDINATES | PURPOSE | DATE

GEOLOGY			CORE RECOVERY			CORE SAMPLES								SLUDGE SAMPLES								RECOVERY	COLOR PLOT
FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	FOOTAGE FROM	FOOTAGE TO	SHORTS	SAMPLE #	FOOTAGE FROM	FOOTAGE TO	WIDTH	ASSAYS				SAMPLE #	FOOTAGE FROM	FOOTAGE TO	WIDTH	ASSAYS					
185.0	187.0	Interbanded, light and dark gray quartzite illustrated by a few broken chips.	185.0	187.0	1.5																		
		END OF HOLE																					
		Depth of Hole 187.0'																					
		Overburden 78.0'																					
		Bedrock drilled 109.0'																					
		Shorts 72.9'																					
		Bedrock Recovered 36.1'																					
		% core recovery $\frac{36.1}{109.0} \times 100 = 33.1\%$																					

BEARING | DIP 90° | CORE RECOVERY 33.0% | HOLE NO. 30 | SHEET NO. 1

PROPERTY McMillan Option | TOTAL LENGTH 57.0' | VERT. ertical | HORZ. | STARTED May 7th, 1953

DISTRICT Watson Lake, Y.T. | ELEVATION 48.7' | OVERBURDEN 5.0' | COMPLETED May 9th, 1953

CO-ORDINATES 3 + 06 W, 9 + 00 N | PURPOSE to find Western limit of ore zone | LOGGED BY D. Olson | DATE May 26th, 1953

GEOLOGY			CORE RECOVERY			CORE			SAMPLES					SLUDGE	SAMPLES					RECOVERY	COLOR PLOT
FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	FOOTAGE FROM	FOOTAGE TO	SHORTS	SAMPLE #	FOOTAGE FROM	FOOTAGE TO	WIDTH	ASSAYS Oz.Ag.	% Pb	% Zn		SAMPLE #	FOOTAGE FROM	FOOTAGE TO	WIDTH	ASSAYS				
0.0	17.0	Casing.																			
0.0	5.0	Overburden.	5.0	16.5	11.5																
5.0	28.2	Broken chips of light-gray quartzite, brecciated from 16.0 to 22.0' and from 25.6 to 28.2'. Banding at 22.2 is 55 - 60° to core.	16.5	22.0	4.7																
			22.0	23.7	0.8																
			23.7	25.5	1.2																
28.2	30.0	Limestone blue-gray with green argillite partings at 29.0'. Limestone has many 1/8" calcite filled vienlets. Banding at 29.0' is 75 - 80° to core.	25.5	28.0	1.9																
			28.0	30.0	0.6																
30.0	31.0	Limy quartzite? light-gray and brecciated. Minor pyrite in the first 4" of section.	30.0	32.0	0.8																
31.0	40.2	Limestone, blue-gray with multiple calcite-filled veinlets. Section barren. Banding at 35.3' is 60° to core. At 38.0' is 60° to core	32.0	34.0	0.3																
			34.0	35.0	0.0																
			35.0	37.0	0.5																
40.2	41.5	Broken chips of pyritized limy quartzite? light gray. No visible mineralisation. No banding.	37.0	40.0	0.8																
			40.0	41.5	0.5	7222	40.0	41.5	1.5	0.05	trace	0.20									
41.5	44.0	Pyrited light gray quartzite with mud seam at the end of section.	41.5	44.0	1.5	7223	41.5	44.0	2.5	trace	trace	trace									
44.0	47.5	Broken chips of brecciated, dark gray quartzite, fine grained. No banding observed	44.0	47.5	2.6																
47.5	49.5	Few chips of light gray, fine grained quartzite.	47.5	49.5	1.6																
49.5	51.5	Ground greenish and dark gray argillite. Banding at 51' is 25° to 30° to core.	49.5	51.5	0.0																
51.5	55.0	No core: mud and sand (driller's note)	51.5	55.0	3.5																
55.0	57.0	No core: mud and sand (driller's note)	55.0	57.0	2.0																

END OF HOLE

Depth of hole -	57.0'
Overburden -	5.0'
Bedrock drilled	52.0'
Shorts	34.8'
Bedrock recovered	17.2'

% core recovery $\frac{17.2}{52.0} \times 100 = 33.0\%$

BEARING | DIP 90° | CORE RECOVERY 29.2% | HOLE NO. 31 | SHEET NO. 1

PROPERTY McMillan Option | TOTAL LENGTH 151.0' | VERT. Vertical | HORZ. | STARTED May 10th, 1953.

DISTRICT Watson Lake, Y. T. | ELEVATION 518.7' | OVERBURDEN 92.0' | COMPLETED May 11th, 1953.

CO-ORDINATES 2 + 04 E; 9 + 04 N | PURPOSE To explore east side of ore zone. | LOGGED BY D. Olson. | DATE May 26th, 1953.

GEOLOGY			CORE RECOVERY			CORE SAMPLES							SLUDGE SAMPLES							RECOVERY	COLOR PLOT
FOOTAGE		DESCRIPTION	FOOTAGE		SHORTS	SAMPLE #	FOOTAGE		WIDTH	ASSAYS			SAMPLE #	FOOTAGE		WIDTH	ASSAYS				
FROM	TO		FROM	TO			FROM	TO		Oz. Ag.	% Pb	% Zn		FROM	TO						
0.0	77.0	Pipe.																			
0.0	93.0	Casing.																			
0.0	92.0	Overburden.																			
92.0	98.0	Mixed buttons of quartzite and green argillite	92.0	98.0	5.5																
98.0	104.5	Quartzite of light-gray and fine grained,	98.0	100.0	1.8																
		broken buttons and chips. ¼" veinlet of	100.0	102.0	1.3																
		pyrite at 100.5'. No banding observed.	102.0	103.5	1.1																
104.5	109.5	Argillite, dark-gray having 1/8" partings of	103.5	105.5	1.2																
		gray quartzite towards end of section. Band-	105.5	107.0	0.6																
		ing at 106.0' is 70° to core.	107.0	108.5	0.5																
109.5	113.5	Quartzite, dark-gray, fine grained. Broken	108.5	110.5	1.3																
		buttons and chips. 110.5 - 113.5' is brec-	110.5	112.5	1.6																
		ciated limy quartzite.	112.5	113.5	0.3	7217	110.5	113.5	3.5	trace	trace	0.60									
113.5	115.5	Probably quartzite well mineralized with Pb	113.5	115.5	1.1	7218	113.5	115.5	2.0	4.40	15.10	19.20									
		and Zn. Considerable siderite? or ankerite																			
		in this section. Vague banding at 114.6' is																			
		60 - 65° to core.																			
115.5	117.0	Well mineralized and original rock completely	115.5	117.0	0.2																
		replaced with Pb and Zn. May have been quart-																			
		zite. Section similar to the above section.																			
		No banding observed.																			
117.0	118.0	Limy quartzite? brecciated and mineralized	117.0	118.0	0.0																
		with Pb and Zn. Considerable ankerite? or																			
		siderite in the section. No banding observed.																			
118.0	122.5	Limy quartzite, light-gray, containing oc-	118.0	120.0	1.3	7219	115.5	120.0	5.0	3.45	10.00	14.80									
		casional specks of Pb and Zn. Broken buttons	120.0	122.5	1.7																
		and chips. Vague banding at 121.0 is 70° to																			
		core.																			
122.5	124.2	Mud seam (driller's note). few chips of dark-	122.5	124.2	1.6	7220	120.0	124.2	4.2	1.70	6.20	2.70									
		gray argillite containing minor Pb and Zn.																			
124.2	125.4	Quartzite, limy, light-gray with minor Pb and	124.2	125.4	0.4																
		Zn in the last 5" of the section. Banding at																			
		125.0' is 65 - 70° to core.																			
125.4	128.0	Broken buttons and chips of fine-grained wh-	125.4	128.0	2.3	7221	124.2	128.0	3.8	1.60	6.10	4.20									
		ite quartzite with 1 button of greenish arg-																			
		illite with minor Pb and Zn. No banding																			
		observed.																			
128.0	130.7	No core; mud seam. (driller's note).	128.0	130.7	2.7																
130.7	131.6	No core; mud seam (driller's note).	130.7	131.6	0.9																
131.6	136.0	Quartzite mainly; light-gray, fine-grained	131.6	136.0	3.5																
		and brecciated. Few narrow interbands of greenish																			
		argillite. Section slightly pyritized. No																			
		banding observed.																			
136.0	137.5	Chips of light-gray, fine-grained quartzite	136.0	137.5	0.6																
		and greenish argillite. No banding. Ground																			
		core.																			
137.5	141.0	Argillite greenish with narrow interbands of	137.5	141.0	1.3																
		light-gray, fine-grained quartzite. Last 4"																			
		of section is white quarts. Banding at 140.0'																			
		is 60° to core. First 6" of section broken																			

BEARING | DIP | CORE RECOVERY | HOLE NO. 31 | SHEET NO. 2

PROPERTY McMillan Option | TOTAL LENGTH | VERT. | HORZ. | STARTED

DISTRICT Watson Lake, Y. T. | ELEVATION | OVERBURDEN | COMPLETED

CO-ORDINATES | PURPOSE | LOGGED BY | DATE

GEOLOGY			CORE RECOVERY			CORE SAMPLES						SLUDGE SAMPLES								RECOVERY	COLOR PLOT
FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	FOOTAGE FROM	FOOTAGE TO	SHORTS	SAMPLE #	FOOTAGE FROM	FOOTAGE TO	WIDTH	ASSAYS				SAMPLE #	FOOTAGE FROM	FOOTAGE TO	WIDTH	ASSAYS					
142.0	146.0	Mainly white quartz containing few specks of Pb with siderite? and/or ankerite? Narrow lense of light-gray quartzite containing few specks Pb at start of section. Few chips of greenish argillite at 143.0'. No banding observed.	142.0 143.0	143.0 146.0	1.5 2.5																
146.0	148.5	No core (driller's note).	146.0	148.5	2.5																
148.5	151.0	No core (driller's note).	148.5	151.0	2.5																
		END OF HOLE Ore section in holes 29 and 31 may be a hard silicified limestone rather than a limy quartzite. Some effervescence with dilute HCl. Some quartz grains can be seen under hand lens but in sludge calcite crystals can be readily discernable in addition to quartz grains.																			

Depth of hole 151.0'
Overburden 92.0'
Bedrock drilled 59.0'
Shorts 41.8'
Bedrock recovered 17.2'

% core recovery $\frac{17.2}{59.0} \times 100 = 29.2\%$

BEARING | DIP 90° | CORE RECOVERY 37.8% | HOLE NO. 32 | SHEET NO. 1

PROPERTY McMillan Option | TOTAL LENGTH 217.0' | VERT. Vertical | HORZ. | STARTED May 16th, 1953

DISTRICT Eaton Lake, Y. T. | ELEVATION 507.3' | OVERBURDEN 100.0' | COMPLETED May 21st, 1953.

CO-ORDINATES 0 - 48 W; 11 - 01 N | PURPOSE To explore eastward trend of ore zone | LOGGED BY D. Olson | DATE May 26th, 1953.

GEOLOGY			CORE RECOVERY			CORE SAMPLES								SLUDGE SAMPLES								RECOVERY	COLOR PLOT
FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	FOOTAGE FROM	FOOTAGE TO	SHORTS	SAMPLE #	FOOTAGE FROM	FOOTAGE TO	WIDTH	ASSAYS				SAMPLE #	FOOTAGE FROM	FOOTAGE TO	WIDTH	ASSAYS					
0.0	100.0	Pipe.																					
0.0	101.0	Casing.																					
0.0	100.0	Overburden.																					
100.0	102.0	Argillite, green with thread-like pyrite filled veinlets.	100.0	102.0	1.5																		
102.0	105.0	Mainly broken buttons and chips of light-gray quartzite and 2 buttons of greenish argillite.	102.0	105.0	2.0																		
105.0	108.5	Mainly pink argillite with few scattered bands ½" to 1" of light-gray quartzite. Banding at 106.5' is 60° to core.	105.0	108.5	0.8																		
108.5	110.0	No core; mud seam. (driller's note).	108.0	110.2	2.0																		
110.0	116.0	Argillite pink having thread-like fractures filled with quartz and pyrite. No banding observed.	110.0	113.0	2.5																		
			113.0	115.5	2.2																		
			115.5	117.5	1.5																		
116.0	119.6	Quartzite, light-gray, fine-grained with thin green argillite partings. Quartzite is shattered and has visible pyrite.	117.5	118.5	0.2																		
			118.5	121.0	0.9																		
119.6	127.5	Interbanded pink and green argillite blobs and lenses with miniature faults and drag folds throughout the section. 1" button at 127.5' well mineralised with pyrite, Pb and Zn. Banding throughout the section is 65 - 70° to core.	121.0	122.0	0.0																		
			122.0	123.5	0.2																		
			123.5	125.5	0.8																		
			125.5	127.5	0.4																		
127.5	128.0	Quartzite, light-gray, fine-grained, contains minor Zn.	127.5	128.0	0.2																		
128.0	135.0	Mainly light-gray and pinkish quartzite, fine-grained. Brecciated at 134.0'. No banding observed.	128.0	129.0	0.7																		
			129.0	133.0	3.1																		
			133.0	135.0	1.3																		
135.0	145.0	Mainly light gray, fine grained, quartzite, with narrow interbands of pink and green argillite. Brecciated at 135.5'. Last 3" in section is greenish argillite. Banding at 135.0' is 60° to core; at 136.0' is 70° to core.	135.0	138.0	0.5																		
			138.0	141.0	2.5																		
			141.0	145.0	2.7																		
145.0	151.0	No core; mud seam. (driller's note).	145.0	151.5	6.0																		
151.0	152.0	Mainly light-gray, fine-grained quartzite with partings of green argillite. Banding obscure.	151.5	154.0	1.6																		
152.0	167.5	Interbanded green and dark-gray argillite. Banding at 155.0' is 70° to core; at 159.0' is 65° to core; at 161.0' is 70° to core; at 166.0' is 70° to core.	154.0	156.0	0.5																		
			156.0	158.0	0.6																		
			158.0	160.0	0.3																		
			160.0	161.5	0.0																		
167.5	173.0	Quartzite, light-gray, fine-grained and brecciated. Mud seam at 173.0' (driller's note).	161.5	162.0	0.0																		
			162.0	164.0	1.5																		
			164.0	165.0	0.0																		
			165.0	166.5	0.0																		
			166.5	168.5	0.7																		
			168.5	173.0	3.0																		

BEARING | DIP | CORE RECOVERY | HOLE NO. STARTED 32 | SHEET NO. 2

PROPERTY McMillan Option | TOTAL LENGTH | VERT. | HORZ. | COMPLETED

DISTRICT Watson Lake, Y. T. | ELEVATION | OVERBURDEN | LOGGED BY

CO-ORDINATES | PURPOSE | DATE

GEOLOGY			CORE RECOVERY			CORE				SAMPLES				SLUDGE	SAMPLES						RECOVERY	COLOR PLOT
FOOTAGE		DESCRIPTION	FOOTAGE		SHORTS	SAMPLE #	FOOTAGE		WIDTH	ASSAYS				SAMPLE #	FOOTAGE		WIDTH	ASSAYS					
FROM	TO		FROM	TO			FROM	TO		Oz. Ag.	% Pb.	% Zn.			FROM	TO							
173.0	176.5	Argillite, dark-gray and green interbanded with light-gray, fine-grained quartzite. Banding 75° to core.	173.0	175.0	0.7																	
			175.0	176.0	0.2																	
176.5	179.0	Quartzite, light-gray and fine-grained, contains minor Pb.	176.0	177.0	0.3																	
			177.0	179.0	1.4																	
179.0	181.8	Quartzite, light-gray and brecciated. Mud seam at end of section. (driller's note).	179.0	181.8	2.0																	
181.8	182.5	Chips of dark-gray argillite and light-gray quartzite containing minor Zn.	181.8	182.5	0.0	7224	181.8	186.0	4.2	trace	0.54	2.70										
182.6	185.0	Ground green argillite and brecciated quartzite containing occasional speck of Zn and pyrite.	182.5	186.0	2.2																	
185.0	186.0	No core; returned black sludge. (driller's note).																				
186.0	189.5	Few chips of light-gray argillite.	186.0	189.5	3.1	7225	186.0	189.5	3.5	0.25	0.43	0.30										
189.5	192.0	No core; mud seam (driller's note).	189.5	192.0	2.5																	
192.0	192.6	No core; sludge returned black (driller's note).	192.0	192.6	0.6																	
192.6	194.0	1 button of dark-gray quartzite.	192.6	194.0	1.3																	
194.0	196.3	No core; mud seam (driller's note)	194.0	196.3	2.3																	
196.3	198.5	No core; mud seam (driller's note)	196.3	198.5	2.2																	
198.5	205.5	Dark-gray argillite. No banding observed.	198.5	203.5	4.6	7226	198.5	203.5	5.0	0.25	trace	trace										
			203.5	207.0	1.2																	
205.5	209.5	Quartzite, dark-gray, medium grained and mottled. Minute fractures filled with quartz & and calcite? Minor pyrite at 209.5'.	207.0	209.5	0.5																	
209.5	214.5	No core; mud and sand (driller's note)	209.5	214.5	5.0																	
214.5	217.0	No core; mud and sand (driller's note)	214.5	217.0	2.5																	

END OF HOLE

Assay sludge 181.8 - 203.5

Sludge samples will be analyzed

Depth of hole	217.0'
Overburden	100.0'
Bedrock drilled	117.0'
Shorts	72.8'
Bedrock recovered	44.2'

% core recovery $\frac{44.2}{117.0} \times 100 = 37.8\%$

BEARING | DIP -90° | CORE RECOVERY Very poor | HOLE NO. 33 | SHEET NO. 1

PROPERTY McMillan Option | TOTAL LENGTH 150.0' | VERT. | HORZ. | STARTED May 24, 1953.

DISTRICT Watson Lake, Y. T. | ELEVATION 465' approximately | OVERBURDEN 21.0' | COMPLETED May 28, 1953.

CO-ORDINATES 4 + 00 W, 18 + 00 N approx. | PURPOSE | LOGGED BY D. Olson | DATE May 28, 1953.

GEOLOGY			CORE RECOVERY			CORE SAMPLES								SLUDGE SAMPLES									
FOOTAGE		DESCRIPTION	FOOTAGE		SHO-	SAMP-	FOOTAGE		WI-	ASSAYS				SAMP-	FOOTAGE		WI-	ASSAYS				RECO	COLOR
FROM	TO		FROM	TO	RTS	LE #	FROM	TO	DTH					LE #	FROM	TO	DTH					VERY	PLOT
0.0	21.0	Overburden.																					
0.0	61.0	Casing.																					
21.0	33.0	No core (mud and sand) (drillers note).																					
33.0	33.5	Few chips of fine grained, light gray quartzite.																					
33.5	36.6	Broken buttons and chips of light gray quartzite and pinkish-yellow argillite. One quartzite button shows stibnite.																					
36.6	41.0	Ground green argillite with 2 chips of pinkish-white quartzite.																					
41.0	42.0	Broken buttons and chips of purple and pink argillite. Banding 45° to core.																					
42.0	47.0	No core (drillers note).																					
47.0	52.0	No core (drillers note).																					
52.0	54.0	Broken buttons and chips of pink argillite with occasional chip of gray, fine grained quartzite. Banding at 53.0' is 60° to core. Occasional chlorite (dark green) parting.																					
54.0	55.0	Two chips of pink argillite coated with dark green chlorite.																					
55.0	59.0	No core (drillers note).																					
59.0	61.0	No core (drillers note).																					
61.0	65.0	4" of chips of pink argillite and medium grained gray quartzite.																					
65.0	66.6	Mainly fine grained, light gray quartzite. First 2" of section is pink argillite with narrow quartzite lenses. No Banding observed.																					
66.6	71.0	Similar to the above section except that greenish argillite is probably interbanded with the quartzite.																					
71.0	72.0	Mainly gray quartzite, fine grained with pink and green argillite partings. A 1" button at the end of section is pyritized and brecciated quartzite. Banding 55° to core																					
72.0	85.0	Light gray quartzite, fine grained with green argillite partings. Quartzite is brecciated near end of section. Numerous pyritized eyes at 73.0' in argillite. Vague banding at 73.0' is 50° to core. Vague banding at 81.0' is 80° to core.																					
85.0	89.5	Green argillite with minor narrow quartzite interbands. Brecciated at 89.0'. Crude banding at 86.0' is 85° to core. Banding at 90.0' is 85° to core.																					
89.5	95.0	Interbanded green and light gray argillite with an occasional band of light gray quartzite. Banding obscure.																					
95.0	96.0	Broken buttons and chips of light gray, medium grained quartzite and green argillite.																					

BEARING | DIP | CORE RECOVERY | HOLE NO. STARTED 33 | SHEET NO. 2

PROPERTY McMillan Option. | TOTAL LENGTH | VERT. | HORZ. | COMPLETED

DISTRICT Watson Lake, Y. T. | ELEVATION | OVERBURDEN | LOGGED BY

CO-ORDINATES | PURPOSE | DATE

GEOLOGY			CORE RECOVERY			CORE				SAMPLES				SLUDGE SAMPLES									
FOOTAGE		DESCRIPTION	FOOTAGE		SHO-	SAMP-	FOOTAGE		WI-	ASSAYS				SAMP-	FOOTAGE		WI-	ASSAYS				RECO	COLOR
FROM	TO		FROM	TO	RTS	LE #	FROM	TO	DTH					LE #	FROM	TO	DTH					VERY	PLOT
		Quartzite contains yellowish-brown siderite? and/or ankerite? near the end of section. Crude banding 75° to core.																					
96.0	99.0	No core; mud seam (drillers note).																					
99.0	101.0	No core; mud seam (drillers note).																					
101.0	103.5	Chips of dark gray quartzite, fine grained. One chip light gray quartzite.																					
103.5	113.0	Chips of quartzite, gray and fine grained. Minor pyrite. At 104.0' and 105.5' there is 2" of white quartz containing yellowish-brown siderite? and/or ankerite?																					
113.0	115.0	No core; mud seam (drillers note).																					
115.0	121.5	No core; mud seam (drillers note).																					
121.5	124.0	Chips and buttons of gray quartzite, fine grained. 2" piece of core shows some zinc <1%. Some of the chips appear to be brecciated.																					
124.0	126.0	Few broken chips of light gray, fine grained quartzite.																					
126.0	128.5	Broken chips of light gray quartzite and ground green argillite.																					
128.5	131.5	No core; mud seam (drillers note).																					
131.5	134.0	No core; mud seam (drillers note).																					
134.0	137.0	No core; mud seam (drillers note).																					
137.0	139.0	2 buttons of dark gray argillite and 2 buttons of light gray quartzite.																					
139.0	140.5	2 buttons of gray fine grained quartzite.																					
140.5	143.5	Quartzite gray with sugary texture, and contains small vugs. Quartzite has partings of dark gray argillite.																					
143.5	147.5	Quartzite, light gray, and medium grained. slightly pyritized. 1" button of white quartz at start of section. No banding observed.																					
147.5	150.0	No core; mud seam. (Drillers note).																					
		END OF HOLE																					

BEARING — DIP -90° — CORE RECOVERY 57.7% — HOLE NO. — SHEET NO. 1

PROPERTY McMillan Option — TOTAL LENGTH 173.0' — VERT. 173.0' — HORZ. — STARTED May 31st, 1953.

DISTRICT Watson Lake, Y. T. — ELEVATION 518.5' — OVERBURDEN 91.0' — COMPLETED June 4th, 1953.

CO-ORDINATES 9 + 00 N; 4 + 09 E — PURPOSE To explore ground to east of drill hole #31 — LOGGED BY C.J. Coveney & B. Olson — DATE June 6th, 1953.

GEOLOGY			CORE RECOVERY			CORE SAMPLES					SLUDGE SAMPLES								RECOVERY	COLOR PLOT
FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	FOOTAGE FROM	FOOTAGE TO	SHORTS	SAMPLE #	FOOTAGE FROM	FOOTAGE TO	WIDTH	ASSAYS Oz.Ag.	ASSAYS % Pb.	ASSAYS % Zn.		SAMPLE #	FOOTAGE FROM	FOOTAGE TO	WIDTH	ASSAYS				
0.0	91.0	Overburden. Stand pipe 91.0'. Holed cased to 98.0'.																		
91.0	92.0	Broken buttons of purple quartzite.	91.0	92.0	0.3															
92.0	105.5	Argillite, cream colored, dense. At 93.7' two irregular ½" patches of gray quartzite; 102.0' to 103.0' some miniature drag folds. The axis of some of the folds appear to be 30° to the core (??) Banding at 105.0' is 50° to the core	92.0	95.0	2.1															
			95.0	97.0	0.3															
			97.0	99.3	0.0															
			99.3	100.0	0.0															
			100.0	103.7	1.0															
105.5	125.0	Argillite, green with scattered interbands and patches of gray argillite. Banding at 108.0' is 60° to core. Banding at 120' is 80° to core. Section appear to grade into the following:-	103.7	105.5	1.0															
			105.5	108.5	2.7															
			108.5	111.0	1.2															
			111.0	113.0	0.2															
			113.0	116.7	0.5															
125.0	135.5	Argillite, mainly green colored. Banding indistinct.	116.7	121.0	2.2															
			121.0	124.0	2.2															
135.5	143.0	Argillite, gray with some interbands and irregular patches of green argillite. At 138.0' banding 20° to core. Some minor drag folds at 143.0'. (Possible soft rock structure?)	124.0	125.0	0.4															
			125.0	127.5	0.2															
			127.5	130.5	1.0															
			130.5	132.5	0.5															
			132.5	135.5	1.5															
143.0	157.0	Argillite, green, dense. No banding observed.	135.5	138.0	0.3															
			138.0	140.5	1.3															
			140.5	143.5	0.9															
			143.5	145.0	0.7															
			145.0	149.0	0.8															
			149.0	152.0	1.2															
			152.0	154.0	1.1															
			154.0	159.0	2.8															
157.0	171.0	Argillite, interbanded green and dark-gray. Overall banding 80° to core. At 157.0 - 159.0' minor thread-like seams of pyrite.	159.0	163.0	1.4															
			163.0	166.0	1.7															
			166.0	169.0	2.1															
			169.0	171.0	1.6															
171.0	173.0	Argillite, green with quartzite interbands varying from 1/8" to ½". Banding about 75° to the core.	171.0	172.0	0.5															
			172.0	173.0	0.5															

END OF HOLE

Depth of hole	173.0'
Overburden	91.0'
Bedrock drilled	82.0'
Shorts	34.7'
Bedrock recovered	47.3'

% core recovery $\frac{47.3}{82.0} \times 100 = 57.7$

BEARING — DIP -90° — CORE RECOVERY 34.1% — HOLE NO. 35 — SHEET NO. 1

PROPERTY Macmillan Option — TOTAL LENGTH 218.0' — VERT. 218.0' — HORZ. — STARTED June 5th, 1953

DISTRICT Watson Lake, Y. T. — ELEVATION 531.0' — OVERBURDEN 96.0' — COMPLETED June 13th, 1953.

CO-ORDINATES 0 + 90 S; 12 + 05 W — PURPOSE to test ground to east of D.H. #26 and D.H. #27. — LOGGED BY C. J. Coveney & D. Olson — DATE June 11th, 1953.

GEOLOGY			CORE RECOVERY			CORE SAMPLES								SLUDGE SAMPLES								RECOVERY	COLOR PLOT
FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	FOOTAGE FROM	FOOTAGE TO	SHORTS	SAMPLE #	FOOTAGE FROM	FOOTAGE TO	WIDTH	ASSAYS oz.	%	% Pb.	% Zn.	SAMPLE #	FOOTAGE FROM	FOOTAGE TO	WIDTH	ASSAYS					
0.0	96.0	Overburden. Standpipe 97.0'. EX casing 121.0'.																					
96.0	105.0	Argillite, pink colored. Minor drag folds near 100.0'. No definite banding.	96.0	100.0	3.5																		
			100.0	102.0	1.3																		
			102.0	104.0	1.0																		
			104.0	105.0	0.2																		
105.0	108.5	Argillite, dark purple. Minor drag folds. No distinct banding.	105.0	107.0	1.0																		
			107.0	109.0	0.9																		
108.5	115.0	Argillite, pinkish. Minor drag folds. No distinct banding. Quartzite interbands in last foot of section.	109.0	110.0	0.2																		
			110.0	112.5	1.4																		
			112.5	115.5	1.6																		
115.0	117.5	Quartzite, gray, fine grained, broken buttons.	115.5	117.5	1.5																		
117.5	118.0	Argillite, pinkish, banding indistinct about 40° to core.	117.5	118.0	0.0																		
118.0	120.5	No core (drillers note).	118.0	120.5	2.5																		
120.5	123.0	Quartzite, grayish white, a few buttons.	120.5	123.0	2.0																		
123.0	128.5	Argillite, pinkish tinted with some irregular patches and lenses of quartzite. 30% of rock is argillite.	123.0	124.5	1.0																		
			124.5	128.5	2.5																		
128.5	133.5	No core; mud seam (driller's note).	128.5	133.5	5.0																		
133.5	138.5	Quartzite, gray, broken buttons with several small buttons of gray argillite. Occasional speck of pyrite.	133.5	138.5	4.5																		
138.5	140.0	Quartzite, gray, a few buttons.	138.5	140.0	1.1																		
140.0	140.5	Argillite, gray. Banding 45° to core.	140.0	140.3	0.3																		
140.5	143.5	Quartzite, grayish, mainly broken buttons. Some brecciation at 143.0'. Scattered specks of pyrite. 141.0 - 142.0 a few buttons of white quartz.	141.0	142.0	0.5																		
			142.0	143.5	1.0																		
143.5	145.0	No core.	143.5	145.0	1.5																		
145.0	148.0	Quartzite, gray, somewhat brecciated. Mainly broken buttons. No banding.	145.0	145.5	0.3																		
			145.5	147.0	0.4																		
			147.0	148.0	0.2																		
148.5	151.5	QUARTZITE; gray, medium grained, broken but-																					
148.0	149.5	No core; mud seam (driller's note).	148.0	149.5	1.5																		
149.5	151.5	Quartzite, gray, medium grained, broken buttons. Indistinct banding 45° to core.	149.5	151.5	1.1																		
151.5	154.0	No core.	151.5	154.0	2.5																		
154.0	157.0	Quartzite, gray, light to dark, calcareous. Banding at 154.5' is 50° to core. Fairly coarse and somewhat brecciated with scattered specks of zinc.	154.0	157.0	1.0	7281	154.0	157.0	3.0	0.15	trace	0.30											
157.0	161.0	Mud seam 159.0 - 160.0 - quartzite, dark gray, brecciated, slightly calcareous.	157.0	159.0	0.8	7282	157.0	161.0	4.0	0.15	0.20	5.20											
			159.0	160.5	1.0																		
			160.5	161.0	0.5																		
161.0	165.0	Quartzite, gray, partly calcareous, broken buttons. 161.0 - 161.5 irregular patches of siderite and/or ankerite? Scattered Pb, Zn and pyrite.	161.0	161.5	0.0	7283	161.0	165.0	4.0	0.65	1.30	4.10											
			161.5	163.0	0.8																		
			163.0	163.7	0.0																		
			163.7	165.0	0.6																		

K.W. JUN 27 1953

BEARING | DIP | CORE RECOVERY | HOLE NO. 35 | SHEET NO. 2

PROPERTY Macmillan option | TOTAL LENGTH | VERT. | HORZ. | STARTED

DISTRICT Watson Lake, Y. T. | ELEVATION | OVERBURDEN | COMPLETED

CO-ORDINATES | PURPOSE | LOGGED BY | DATE

GEOLOGY			CORE RECOVERY			CORE SAMPLES								SLUDGE SAMPLES									
FOOTAGE		DESCRIPTION	FOOTAGE		SHORTS	SAMPLE #	FOOTAGE		WIDTH	ASSAYS				SAMPLE #	FOOTAGE		WIDTH	ASSAYS				RECOVERY	COLOR PLOT
FROM	TO		FROM	TO			FROM	TO		Oz./T.	% Pb.	% Zn.			FROM	TO							
165.0	171.0	Quartzite, calcareous, weakly mineralised with occasional specks of Zn, Pb and pyrite.	165.0	168.0	1.6																		
			168.0	171.0	2.5	7284	165.0	171.0	6.0	0.20	1.00	2.20											
171.0	172.0	Well mineralised in gray quartzite. One button showing banding 20° to core.	171.0	172.0	0.1																		
						7285	171.0	172.0	1.0	4.60	10.60	35.30											
172.0	175.0	172.0 - 173.7 white quartzite, massive, no banding. 173.7 - 175.0 broken buttons of grey-ish-white argillite. Minor zinc at 174.5'.	172.0	173.3	0.8	7286	172.0	175.0	3.0	0.10	0.10	0.20											
			173.3	173.7	0.0																		
			173.7	175.0	0.3																		
175.0	180.0	Quartzite, gray, medium grained, broken buttons. First 2 inches of section is greenish gray argillite. Indistinct banding 70° to core.	175.0	178.0	2.3																		
			178.0	180.0	1.6																		
180.0	188.0	Argillite, green, roughly banded about 70° to core with some thin interbands of gray quartzite.	180.0	181.0	3.3																		
		80% of rock is argillite. Some miniature faulting.	181.0	189.0	3.3																		
188.0	188.5	Quartzite, gray, medium grained.																					
188.5	191.0	Argillite, green, broken buttons and chips.	189.0	191.5	0.5																		
191.0	196.0	Quartzite, gray, medium grained.	191.5	196.5	1.1																		
196.0	200.0	Interbanded dark gray argillite and quartzite. Rough banding about 70° to core. Some minor brecciation.	196.5	200.0	1.5																		
200.0	201.5	Quartzite, gray, impure.	200.0	203.0	1.6																		
201.5	202.0	Argillite, broken buttons, green colored. Vague banding 70° to core.																					
202.0	204.0	Quartzite, gray broken buttons.	203.0	204.0	0.5																		
204.0	208.0	No core; mud seam. (drillers note).	204.0	208.0	4.0																		
208.0	213.5	Quartzite, gray, mainly broken buttons. 209.0-210.0' green argillite.	208.0	210.0	0.7																		
			210.0	211.0	0.1																		
			211.0	212.5	1.0																		
			212.5	213.5	0.5																		
213.5	218.0	No core; mud seam. (driller's note).	213.5	218.0	4.5																		

END OF HOLE

Depth of hole 218.0'
Overburden 96.0'
Rock drilled 122.0'
Shorts 80.0'
Core recovered 42.0'

Recovery $\frac{42.0}{122.0} \times 100 = 34.4\%$

BEARING | DIP - 90° | CORE RECOVERY 24.8% | HOLE NO. 36 | SHEET NO. 1

PROPERTY McMillan Option | TOTAL LENGTH 220.5' | VERT. Vertical | HORZ. | STARTED June 14, 1953

DISTRICT Watson Lake, Y. T. | ELEVATION 502.5' | OVERBURDEN 88.0' | COMPLETED June 20, 1953

CO-ORDINATES 0 + 98 N; 18 + 05 W | PURPOSE To test for structures similar to the one at 9 + 00 N | LOGGED BY D. H. Olson | DATE June 20, 1953

GEOLOGY			CORE RECOVERY			CORE SAMPLES								SLUDGE SAMPLES								RECOVERY	COLOR PLOT
FOOTAGE		DESCRIPTION	FOOTAGE		SHORTS	SAMPLE #	FOOTAGE		WIDTH	ASSAYS				SAMPLE #	FOOTAGE		WIDTH	ASSAYS					
FROM	TO		FROM	TO			FROM	TO							FROM	TO							
0.0	88.0	Overburden.																					
0.0	96.0	Casing.																					
88.0	90.6	Pink argillite. No banding	88.0	90.0	1.6																		
90.6	93.0	No core; mud seam. (driller's note).	90.0	93.5	3.2																		
93.0	93.5	Gray Quartzite, fine grained with thin cream green argillite partings. Scattered specks of pyrite occur throughout the section.	93.5	96.0	2.5																		
			96.0	97.5	1.0																		
93.5	96.0	No core.																					
96.0	97.0	Pink argillite. No banding.																					
97.0	97.5	Ground core with an odd chip of gray quartzite containing an occasional speck of pyrite.																					
97.5	101.0	Argillite, cream green with numerous miniature drag folds and small ¼" irregular quartzite patches. The drag folds probably represent a soft rock structure. The axes of the drag folds are at various angles to the core.	97.5	100.0	0.8																		
			100.0	102.0	0.7																		
101.0	121.7	Broken buttons and chips; mainly pink argillite with small irregular patches of light gray quartzite. Vague banding at 115.0' is 70° to core; at 119.0' banding is 70° to core.	102.0	106.0	2.5																		
			106.0	111.0	4.5																		
			111.0	114.0	2.6																		
			114.0	116.5	1.9																		
			116.5	119.0	1.9																		
			119.0	121.5	2.2																		
121.7	126.0	No core. mud and soft rock. (driller's note).	121.5	126.0	4.3																		
126.0	130.0	Ground core showing cream green argillite. (mud and soft rock; driller's note).	126.0	130.0	3.8																		
130.0	139.0	Broken buttons and chips; mainly gray quartzite with a few chips of pink argillite. One button at 133.0' shows banding approximately 5° to core.	130.0	132.0	1.7																		
			132.0	133.5	0.9																		
			133.5	137.5	3.5																		
			137.5	139.0	1.1																		
139.0	140.0	Cream green argillite having banding 70° to core.	139.0	139.5	0.2																		
			139.5	142.0	1.8																		
140.0	146.0	Broken buttons and chips; mainly gray quartzite, fine grained. Few chips of pink argillite. No banding.	142.0	146.0	3.1																		
146.0	148.0	No core.	146.0	148.0	2.0																		
148.0	150.0	Quartzite gray and massive. No banding.	148.0	150.0	1.7																		
150.0	153.5	No core; mud seam. (driller's note).	150.0	153.5	3.5																		
153.5	156.5	Chips of gray quartzite with 3 chips of cream green argillite.	153.5	156.5	2.7																		
156.5	158.0	No core.	156.5	158.0	1.5																		
158.0	161.5	Mainly cream green argillite with a few broken buttons and chips of dark gray quartzite. Indistinct banding at 160.0' is 15° to core; Banding at 161' is 40° to core	158.0	159.5	1.3																		
			159.5	160.3	0.2																		
			160.3	161.0	0.4																		
161.5	164.0	Contorted rock mainly dark gray quartzite with some narrow cream green argillite partings.	161.0	164.0	1.9																		
164.0	166.5	No core.	164.0	166.5	2.5																		
166.5	173.0	Cream green argillite with vague banding at 170.0' being 30° to core.	166.5	169.5	2.0																		
			169.5	172.0	1.5																		
			172.0	174.5	1.5																		

BEARING | DIP | CORE RECOVERY | HOLE NO. 36 | SHEET NO. 2

PROPERTY McMillan Option | TOTAL LENGTH | VERT. | HORZ. | STARTED

DISTRICT Watson Lake, Y. T. | ELEVATION | OVERBURDEN | COMPLETED

CO-ORDINATES | PURPOSE | LOGGED BY | DATE

GEOLOGY			CORE RECOVERY			CORE SAMPLES							SLUDGE SAMPLES						RECOVERY	COLOR PLOT
FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	FOOTAGE FROM	FOOTAGE TO	SHORTS	SAMPLE #	FOOTAGE FROM	FOOTAGE TO	WIDTH	ASSAYS Oz.Ag.	ASSAYS % Pb.	ASSAYS % Zn.	SAMPLE #	FOOTAGE FROM	FOOTAGE TO	WIDTH	ASSAYS				
173.0	178.0	Broken buttons and chips of cream green and dark gray argillite with a few scattered chips of dark gray quartzite	174.5	178.0	2.2															
178.0	182.0	Chips of light gray quartzite, fine grained.	178.0	182.0	3.4															
182.0	184.0	No core; mud seam (driller's note).	182.0	184.0	2.0															
184.0	187.7	Broken buttons and chips of light gray quartzite brecciated at 184.5'.	184.0	186.5	1.3															
			186.5	187.7	0.9															
187.7	192.0	Broken buttons and chips. Mainly dark gray argillite with a few narrow cream green argillite partings. Crude banding at 190.0' is 60° to core. Minor pyrite in the section.	187.7	189.6	1.1															
			189.6	191.0	0.3	7300	187.8	191.0	3.3	trace	0.20	trace								
			191.0	193.0	0.8	7301	191.0	195.0	4.0	trace	0.15	trace								
192.0	195.0	Broken buttons and chips of light gray quartzite with occasional speck of Zn. No banding observed.	193.0	195.0	1.6															
195.0	198.5	Section well mineralised with pyrite and zinc. Original rock quartzite. Vague banding at 195.5' is 60° to core.	195.0	196.3	0.4	7302	195.0	198.5	3.5	trace	0.10	trace								
			196.3	198.5	1.4															
198.5	200.5	Broken buttons and chips of dark gray argillite with an occasional small irregular patch of gray quartzite. Few specks of pyrite throughout the section.	198.5	199.5	0.7	7303	198.5	200.5	2.0	0.10	0.10	trace								
			199.5	200.5	0.0															
200.5	202.0	Well mineralized with pyrite, Pb and Zn. First 2" of section is gray quartzite. Thin dark gray argillite partings throughout section are 70° to core.	200.5	202.0	0.3	7304	200.5	202.0	1.5	0.20	0.60	3.20								
202.0	205.0	Chips of gray quartzite with ground green argillite and bluish clay.	202.0	205.0	1.4	7305	202.0	205.0	3.0	1.20	3.20	14.30								
			205.0	209.5	3.6															
205.0	205.5	White quarts.																		
205.5	218.0	Broken buttons and chips of light gray, medium grained quartzite. (210.5-214.5 - blue clay - driller's note).	209.5	210.5	0.3	7306	205.0	210.5	5.5	trace	0.05	trace								
			210.5	216.5	5.7															
			216.5	218.0	1.3															
218.0	220.5	No core. Mud seam. (driller's note).	218.0	220.5	2.5															

END OF HOLE

Length of hole	220.5'
Overburden	88.0'
Bedrock drilled	132.5'
Shorts	99.7'
Core Recovered	32.8'

% core recovery $\frac{32.8}{132.5} \times 100 = 24.8\%$

BEARING — DIP - 90° — CORE RECOVERY 29.1% — HOLE NO. 37 — SHEET NO. 1

PROPERTY McMillan Option — TOTAL LENGTH 206.0' — VERT. Vertical — HORZ. — STARTED June 21, 1953

DISTRICT Watson Lake, Y. T. — ELEVATION 504.2' — OVERBURDEN 68.0' — COMPLETED June 24, 1953

CO-ORDINATES 1 + 96 W; 15 + 05 N — PURPOSE To test ore zone east of Hole #25 — LOGGED BY D. Olson — DATE June 25, 1953

GEOLOGY			CORE RECOVERY			CORE SAMPLES								SLUDGE SAMPLES									
FOOTAGE		DESCRIPTION	FOOTAGE		SHORTS	SAMPLE #	FOOTAGE		WIDTH	ASSAYS				SAMPLE #	FOOTAGE		WIDTH	ASSAYS				RECOVERY	COLOR PLOT
FROM	TO		FROM	TO			FROM	TO							FROM	TO							
0.0	68.0	Overburden.																					
0.0	69.0	Casing.																					
68.0	69.3	Broken buttons and chips of dark purple argillite. Banding 80° to core.	68.0	69.0	0.8																		
69.3	86.0	Light gray quartzite very fine grained and having an odd thin parting of yellow green argillite. Few broken buttons and chips of green argillite at 74.0'. Banding at 73.0' is 70° to core.	69.0	73.0	2.8																		
			73.0	75.0	1.0																		
			75.0	81.0	5.9																		
			81.0	86.0	4.8																		
86.0	92.0	Mainly pink argillite with an odd irregular ½" patch of gray quartzite. Well banded at 91.0' - 30° to core; Banding at 92.0' is 50° to core.	86.0	91.0	3.9																		
			91.0	92.0	0.5																		
92.0	94.0	Mainly pinkish gray quartzite badly fractured. At 93.0' there is 3" of interbanded pink and gray argillite 40° to core.	92.0	94.0	0.9																		
94.0	96.5	Mainly pink and light gray argillite interbanded. 2 or 3 ½" bands of gray quartzite are scattered throughout the section. At 95.0' tiny threadlike fractures are pyrite filled. 3" bang of gray quartzite at 96.0'. Excellent banding at 95.0' is 40° to core.	94.0	95.5	0.0																		
			95.5	97.5	0.0																		
96.5	97.0	Few broken buttons of dark purple argillite. Crude banding 60° to core.																					
97.0	98.0	Gray quartzite with ½" pink quartzite patches. Crude banding 80° to core.	97.5	99.0	0.6																		
98.0	100.0	Brick red and dark purple argillite with an occasional irregular ½" patch of gray quartzite. Crude banding at 100.0' is 50° to core.	99.0	100.0	0.1																		
100.0	105.0	Mainly pinkish gray quartzite, fine grained. 100.2 - 100.8 band of pinkish green argillite crudely banded 50° to core. From 101.0 to 105 the core is badly fractured and distorted.	100.0	105.0	3.3																		
105.0	108.0	Broken buttons and chips of dark purple argillite with a few chips of light gray, fine grained quartzite.	105.0	108.0	2.3																		
108.0	114.0	Mainly pinkish argillite with a few buttons & chips of light gray, fine grained quartzite. The argillite is spotted with tiny specks of pyrite. Banding at 113.0 is 40° to core.	108.0	110.0	1.4																		
			110.0	114.0	2.6																		
114.0	115.0	No core; mud seam. (driller's note).	114.0	115.5	1.4																		
115.0	115.5	Few chips of pinkish gray quartzite and pink argillite.																					
115.5	118.5	No core; mud seam. (driller's note).	115.5	118.5	3.0																		
118.5	125.0	Broken buttons and chips; mainly pinkish gray quartzite with some pink argillite. Crude banding at 124.0' is 80° to core.	118.5	121.5	2.0																		
			121.5	125.0	2.7																		
125.0	143.5	Mainly pink argillite with 1/8" interbands of gray argillite. There is an occasional chip of gray quartzite throughout the section.	125.0	129.0	3.2																		
			129.0	131.5	0.7																		
			131.5	136.0	3.5																		

BEARING | DIP | CORE RECOVERY | HOLE NO. | SHEET NO. 2

PROPERTY McMillan Option | TOTAL LENGTH | VERT. | HORZ. | STARTED 37 | COMPLETED

DISTRICT Watson Lake, Y.T. | ELEVATION | OVERBURDEN

CO-ORDINATES | PURPOSE | LOGGED BY | DATE

GEOLOGY			CORE RECOVERY			CORE SAMPLES								SLUDGE SAMPLES									
FOOTAGE		DESCRIPTION	FOOTAGE		SHORTS	SAMPLE #	FOOTAGE		WIDTH	ASSAYS				SAMPLE #	FOOTAGE		WIDTH	ASSAYS				RECOVERY	COLOR PLOT
FROM	TO		FROM	TO			FROM	TO		Oz. Ag.	% Pb.	% Zn.			FROM	TO							
		Section is totally broken buttons and chips. Between 129.0 and 130.0 some small drag folds show soft rock structure (slumping)? Crude banding at 130.0' is 50° to core. The pink argillite is spotted with tiny specks of pyrite. Pinkish quartzite becomes the predominant rock towards the end of the section.	136.0	140.0	3.2																	
			140.0	143.5	3.2																	
143.5	146.0	No core.	143.5	146.0	2.5																	
146.0	153.0	Chips of pinkish gray quartzite very fine grained. A thin film of yellow green argillite suggests thin partings of argillite. No banding.	146.0	150.0	3.0																	
			150.0	152.0	1.2																	
153.0	163.0	Broken buttons and chips of greenish argillite with an odd chip of gray quartzite. Between 158.5 and 163.0 threadlike bands parallel to the banding are pyritized. Banding at 155.5 is 50° to core; at 160.0 it is 65° to core.	152.0	154.5	1.9																	
			154.5	155.5	0.5																	
			155.5	158.5	2.4																	
			158.5	160.0	0.5																	
			160.0	161.5	0.4																	
			161.5	163.0	0.9																	
163.0	165.0	No core; mud seam. (driller's note).	163.0	165.0	2.0																	
165.0	166.0	Similar to section 153.0 - 163.0.	165.0	166.0	0.6																	
166.0	167.5	Few chips of fine grained gray quartzite.	166.0	167.5	1.2																	
167.5	168.5	Chips of dark gray argillite. No banding observed.	167.5	168.5	0.5																	
168.5	171.0	Few chips of gray, fine grained quartzite.	168.5	171.0	2.1																	
171.0	174.0	Broken buttons and chips; mainly gray quartzite with greenish gray argillite partings. Last 4" of section is well mineralized with pyrite, Zn & Pb. Remainder of section has an occasional speck of pyrite and Zn. Crude banding at 172.0' is 50° to core.	171.0	174.0	1.3	7307	171.0	174.0	3.0	0.40	3.20	6.60										
174.0	175.0	Quartzite gray and fine grained with thin partings of greenish argillite. First 5" and last 2" of section well mineralized with Zn and Pb. Crude banding at 174.5 is 50° to the core.	174.0	175.0	0.2	7308	174.0	177.7	3.7	3.44	11.60	25.70										
175.0	177.7	Major portion of original rock replaced with pyrite, Zn & Pb. A few thin partings of dark gray and green argillite show banding 55° to core.	175.0	176.0	0.0																	
			176.0	177.7	0.7																	
177.7	180.0	Gray, fine grained quartzite with irregular green argillite partings showing crude banding 70° to core. First 3" of section well mineralized with pyrite, Zn and Pb.	177.7	180.0	1.1	7309	177.7	180.0	2.3	1.12	4.80	10.30										
180.0	180.5	White quartz. No visible mineral.	180.0	181.0	0.4	7310	180.0	185.0	5.0	trace	0.55	trace										
180.5	186.5	Broken buttons and chips; mainly gray quartzite with ground dark gray and green argillite. No banding observed.	181.0	185.0	3.4																	
			185.0	186.0	2.5																	

BEARING | DIP | CORE RECOVERY | HOLE NO. 37 | SHEET NO. 3

PROPERTY McMillan Option | TOTAL LENGTH | VERT. | HORZ. | STARTED

DISTRICT Watson Lake, Y.T. | ELEVATION | OVERBURDEN | COMPLETED

CO-ORDINATES | PURPOSE | LOGGED BY | DATE

GEOLOGY			CORE RECOVERY			CORE SAMPLES								SLUDGE SAMPLES									
FOOTAGE		DESCRIPTION	FOOTAGE		SHORTS	SAMPLE #	FOOTAGE		WIDTH	ASSAYS				SAMPLE #	FOOTAGE		WIDTH	ASSAYS				RECOVERY	COLOR PLOT
FROM	TO		FROM	TO			FROM	TO							FROM	TO							
188.5	190.0	Dark gray, medium grained, impure quartzite with crude banding at 190.0 being 80° to core.	188.0	189.0	0.4																		
190.0	192.0	Fine grained grayish quartzite. Broken buttons and chips.	189.0	191.0	0.9																		
			191.0	192.0	0.8																		
192.0	197.0	No core; mud seam (driller's note).	192.0	197.0	5.0																		
197.0	199.5	Few chips of light gray, fine grained quartzite.	197.0	197.5	2.2																		
199.5	202.0	No core.	199.5	202.0	2.5																		
202.0	206.0	Chips of gray fine grained quartzite with 3 buttons of dark gray argillite at 203 showing crude banding 75° to core.	202.0	204.0	1.2																		
			204.0	206.0	1.3																		

END OF HOLE

Length of hole	206.0'
Overburden	68.0'
Bedrock drilled	138.0'
Shorts	97.9'
Core recovered	40.1'

Core recovery $\frac{40.1}{138.0}$ x 100 = 29.1%

BEARING | DIP - 90° | CORE RECOVERY 23.3% | HOLE NO. 38 | SHEET NO. 1

PROPERTY McMillan Option | TOTAL LENGTH 114.0' | VERT. 114.0' | HORZ. | STARTED June 27, 1953.

DISTRICT Watson Lake, Y. T. | ELEVATION | OVERBURDEN 20.0' | COMPLETED June 30, 1953.

CO-ORDINATES 22 + 18 N; 5 + 98 W | PURPOSE To test ground to north of DH #37 | LOGGED BY C. J. Coveney. | DATE July 5, 1953.

GEOLOGY			CORE RECOVERY			CORE SAMPLES							SLUDGE SAMPLES							RECOVERY	COLOR PLOT
FOOTAGE		DESCRIPTION	FOOTAGE		SHORTS	SAMPLE #	FOOTAGE		WIDTH	ASSAYS			SAMPLE #	FOOTAGE		WIDTH	ASSAYS				
FROM	TO		FROM	TO			FROM	TO		Oz. Ag	% Pb.	% Zn.		FROM	TO						
0.0	20.0	Overburden.																			
20.0	24.0	No core.																			
24.0	30.5	Ground pyritized core. Possibly the host rock is quartzite as the buttons seen are quartzite, in part limy. Undoubtedly some narrow argillite bands are included in the ground core.	24.0	25.5	0.7	7329	24.0	30.5	6.5	0.65	1.20	2.70									
			25.5	27.0	1.0																
			27.0	30.5	2.8																
30.5	34.0	Similar to above. A few buttons of gray-white quartzite between 32.0' - 33.0'.	30.5	32.0	0.6	7330	30.5	34.0	3.5	0.15	0.20	trace									
			32.0	34.0	1.5																
34.0	36.5	Similar to above with only slight pyritization. Minor zinc mineralisation at end of section.	34.0	36.0	1.2	7331	34.0	36.5	2.5	0.50	0.40	0.60									
			36.0	36.5	0.4																
36.5	41.5	A few small buttons of gray quartzite. Several of the buttons between 40 - 41.5' show minor threadlike veinlets of Pb.	36.5	38.0	1.3	7332	36.5	41.5	5.0	0.30	0.20	trace									
			38.0	40.0	1.5																
			40.0	41.5	1.2																
41.5	46.0	Mud and sand (drillers note). no core.	41.5	46.0	4.5																
46.0	59.0	Quartzite, gray-white, broken buttons. From 56 - 58' a few buttons of white quartz. 50.0-54.0' more or less ground core with quartzite fragments	46.0	50.0	3.8																
			50.0	54.0	3.0																
			54.0	56.0	1.5																
			56.0	58.0	1.5																
			58.0	59.0	0.5																
59.0	65.0	No core - soft ground (driller's note).	59.0	65.0	6.0																
65.0	73.0	Quartzite, gray, broken buttons - minor pyrite at 72.0'.	65.0	70.0	4.7																
			70.0	71.0	0.7																
			71.0	72.7	1.0																
			72.7	73.0	0.0																
73.0	74.0	No Core.	73.0	74.0	1.0																
74.0	76.0	Argillite, black.	74.0	76.0	1.5																
76.0	81.0	Quartzite, gray - minor coarse pyrite at 76'. Between 78.5 - 81.0' the broken edge of the quartzite buttons show a black graphitic material with slickensided surfaces.	76.0	77.5	1.5																
			77.5	78.5	0.6																
			78.5	80.0	0.3																
			80.0	81.0	0.7																
81.0	83.0	No core - mud seam (driller's note)	81.0	83.0	2.0																
83.0	88.5	Similar to section from 76.0-81.0'. One small button coarse pyrite at about 85.0'.	83.0	84.5	0.7																
			84.5	88.5	3.7																
88.5	92.0	No core - soft ground. (driller's note).	88.5	92.0	3.5																
92.0	97.0	Broken buttons of grayish quartzite and black colored argillite with quartzite predominating.	92.0	94.5	2.2																
			94.5	97.0	2.0																
97.0	100.5	No core. (driller's note).	97.0	100.5	3.5																
100.5	104.0	Similar to section from 92.0 - 97.0'. Core brecciated towards end of section with a few specks of pyrite.	100.5	103.0	2.2																
			103.0	104.0	1.0																
104.0	107.0	Brecciated core. The fragments are gray quartzite and the matrix is composed of blackish argillite (?). Some coarse pyrite at 107.0'. Fault Zone.	104.0	105.0	0.5																
			105.0	107.5	0.7																
			107.5	108.0	0.2																
107.0	108.0	Quartzite, broken buttons, gray.																			
108.0	111.5	No core - mud. (driller's note).	108.0	111.5	3.5																

BEARING | DIP | CORE RECOVERY | HOLE NO. | SHEET NO. 2

PROPERTY McMillan Option | TOTAL LENGTH | VERT. | HORZ. | STARTED 38

DISTRICT Watson Lake, Y. T. | ELEVATION | OVERBURDEN | COMPLETED

CO-ORDINATES | PURPOSE | LOGGED BY | DATE

GEOLOGY			CORE RECOVERY			CORE			SAMPLES					SLUDGE	SAMPLES						RECOVERY	COLOR PLOT
FOOTAGE		DESCRIPTION	FOOTAGE		SHORTS	SAMPLE #	FOOTAGE		WIDTH	ASSAYS				SAMPLE #	FOOTAGE		WIDTH	ASSAYS				
FROM	TO		FROM	TO			FROM	TO							FROM	TO						
111.5	114.0	Quartzite, broken buttons, gray.	111.5	113.0	0.7																	
			113.0	114.0	0.7																	
		NOTE The section between 24.0 - 36.5' may represent the mineralized zone. If so the mineralization is higher in the section than on the east side of Quarts creek. The mineralisation in the ground core is pyrite with no Pb and Zn. Between 104.0 - 107.0' possible fault zone. No banding observed in the core. Hole cemented at 104.0'. Rock in this hole was difficult to core. Stand pipe 22.0' EX casing 66.0' Length of Hole 114.0' Overburden 20.0' Rock drilled 94.0' Shorts 72.1' Core recovered 21.9' Core Recovery $\frac{21.9}{94.0}$ x 100 = 23.3%																				

BEARING | DIP | CORE RECOVERY 19.2% | HOLE NO. 39 | SHEET NO. 1

PROPERTY Macmillan Option | TOTAL LENGTH 176.0' | VERT. 176.0' | HORZ. | STARTED July 2, 1953.

DISTRICT Watson Lake, Y. T. | ELEVATION 477.2' | OVERBURDEN 22.0' | COMPLETED July 11, 1953.

CO-ORDINATES 24 + 20 N; 5 + 13 W | PURPOSE To test ground to north of DH #38 | LOGGED BY C. J. Coveney | DATE July 23, 1953.

GEOLOGY			CORE RECOVERY			CORE SAMPLES							SLUDGE SAMPLES							RECOVERY	COLOR PLOT
FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	FOOTAGE FROM	FOOTAGE TO	SHORTS	SAMPLE #	FOOTAGE FROM	FOOTAGE TO	WIDTH	ASSAYS Oz.	Ag.	% Pb.	% Zn.	SAMPLE #	FOOTAGE FROM	FOOTAGE TO	WIDTH	ASSAYS					
		Hole cased to 119.0' and cemented at 80' and 162.0'																			
0.0	22.0	Overburden.																			
22.0	25.0	Quartzite, broken buttons - slightly mottled (?) some weak pyrite.	22.0	23.5	0.7	7333	22.0	30.0	8.0	0.10	trace	0.20									
			23.5	25.0	1.2																
25.0	30.0	Similar to above but part of core consists of a pasty material (from grinding)	25.0	30.0	4.5																
30.0	35.0	Mostly ground core with a few buttons of gray quartzite some of which are weakly pyritized. One button shows some specks of Pb & Zn.	30.0	35.0	4.1	7334	30.0	35.0	5.0	0.40	trace	0.15									
35.0	38.0	The first foot is buttons and chips of gray quartzite. The remainder of section consists of mixed pasty quartzite and green argillite (ground core).	35.0	38.0	2.1																
38.0	38.5	Broken buttons of white quartz and greenish argillite.	38.0	38.5	0.0																
38.5	41.0	Mainly gray quartzite buttons with minor white quartz buttons. Some pasty material which is difficult to distinguish.	38.5	41.0	2.0																
41.0	45.0	Only one button of white quartz. The remainder of the section is paste and probably ground quartzite.	41.0	45.0	3.2																
45.0	54.0	Mainly buttons of white quartz with a few buttons and chips of gray quartzite.	45.0	50.0	4.1																
			50.0	52.0	1.4																
			52.0	54.0	1.3																
54.0	60.0	No core (unable to core-driller's note)	54.0	60.0	6.0																
60.0	62.0	Broken buttons white quartz and minor buttons of greenish argillite. This section is similar to that from 38.0 to 38.5'.	60.0	62.0	1.3																
62.0	66.0	No core (unable to core-driller's note)	62.0	66.0	4.0																
66.0	68.0	Only 3 buttons of white quartz - the remainder of the section is a pasty material that probably represents ground white quartz and green argillite.	66.0	68.0	1.5																
			68.0	68.5	0.0																
68.0	73.0	White quartz buttons.	68.5	73.0	4.3																
73.0	76.0	No core.	73.0	76.0	3.0																
76.0	80.0	Mixed buttons of white quartz, gray quartzite and minor buttons of green argillite. One ¾" button of coarse pyrite at 80.0'.	76.0	80.0	3.2																
80.0	84.0	Buttons and chips of dark gray argillite and quartzite. Some of the argillite surfaces appear to be slickensided.	80.0	82.0	1.3																
			82.0	84.0	1.0																
84.0	87.0	Quartzite gray brecciated. A few minor feathery fractures filled with a reddish brown material (zinc ?).	84.0	87.0	1.7																
87.0	89.0	Quartzite, broken buttons.	87.0	89.0	1.3																
89.0	90.5	Quartzite broken buttons. Some green argillite showing on the broken surfaces of the quartzite buttons. Minor pyrite.	89.0	90.5	1.0																
			90.5	92.5	1.5																
			92.5	95.0	2.0																
			95.0	96.0	0.6																

BEARING | DIP | CORE RECOVERY | HOLE NO. 39 | SHEET NO. 2

PROPERTY McMillan Option | TOTAL LENGTH | VERT. | HORZ. | STARTED

DISTRICT Yukon Territory. | ELEVATION | OVERBURDEN | COMPLETED

CO-ORDINATES | PURPOSE | LOGGED BY | DATE

GEOLOGY			CORE RECOVERY			CORE				SAMPLES				SLUDGE SAMPLES									
FOOTAGE		DESCRIPTION	FOOTAGE		SHORTS	SAMPLE #	FOOTAGE		WIDTH	ASSAYS				SAMPLE #	FOOTAGE		WIDTH	ASSAYS				RECOVERY	COLOR PLOT
FROM	TO		FROM	TO			FROM	TO		Oz.	Ag.	% Pb.	% Zn.		FROM	TO							
90.5	96.0	Quartzite, gray buttons. Weakly pyritized 95.0 - 96.0'.	96.0	97.0	0.9																		
96.0	100.0	Argillite, dark gray. Finely pyritized with some minor Pb specks.	97.0	100.0	1.2																		
100.0	107.0	Broken buttons gray quartzite. No mineralization.	100.0	102.5	2.1																		
			102.5	107.0	3.8																		
107.0	113.0	Broken buttons gray quartzite.	107.0	111.0	3.3																		
113.0	115.0	Mud - no core (driller's note).	111.0	113.0	1.6																		
			113.0	115.0	2.0																		
115.0	123.0	Broken buttons gray quartzite.	115.0	117.0	1.6																		
123.0	126.0	Broken buttons gray quartzite. The large buttons appear to be brecciated. Some pyritization.	117.0	121.0	3.5																		
			121.0	123.0	1.4																		
			123.0	124.0	0.1																		
			124.0	126.0	1.5																		
126.0	127.0	No core.	126.0	127.0	1.0	7335	123.0	130.5	7.5	trace	0.25	trace											
127.0	132.0	Quartzite, gray broken buttons brecciated; 127.0-131.0' weakly pyritized; 131.0-132.0' dark gray pyritized argillite. Similar to section 96.0-100.0'.	127.0	130.5	2.6																		
						7336	130.5	132.0	1.5	0.25	trace	trace											
			130.5	132.0	0.0																		
132.0	138.0	Buttons brecciated gray quartzite. Some pyritized paste 135.0-138.0'.	132.0	135.0	2.5	7337	132.0	138.0	6.0	trace	trace	trace											
			135.0	138.0	2.5																		
138.0	140.0	No core.	138.0	140.0	2.0	7338	138.0	145.5	7.5	0.80	1.02	2.30											
140.0	142.0	Buttons pyritized gray quartzite.	140.0	142.0	1.6	7339	145.5	148.0	2.5	0.25	trace	trace											
142.0	145.5	Mud - no core.	142.0	145.5	3.5																		
145.0	148.0	Broken buttons and chips grayish quartzite - minor pyrite.	145.5	148.0	1.7																		
148.0	151.5	No core.	148.0	151.5	3.5																		
151.5	156.0	Broken buttons gray quartzite.	151.5	156.0	4.2																		
156.0	158.5	Mud - no core.	156.0	158.5	2.5																		
158.5	162.0	Mud - no core.	158.5	162.0	3.5																		
162.0	165.0	Quartzite grayish.	162.0	165.0	1.9																		
165.0	167.5	Pasty material (ground quartzite?).	165.0	167.5	2.0																		
167.5	172.0	No core.	167.5	172.0	4.5																		
172.0	175.0	No core.	172.0	175.0	3.0																		
175.0	176.0	Quartzite, gray, buttons. Some of the buttons have a graphitic slickensided appearance.	175.0	176.0	0.3																		

END OF HOLE

NOTE - This hole was difficult to drill. The core throughout consisted mainly of broken buttons and chips. The hole appears to have been in or near a fault zone. No bunting was observed in the core. Possibly the fault passes between 35 feet and 80 feet from the collar of the hole (??)

Length of hole	176.0'
Overburden	22.0'
~~XXXXX~~	154.0'
Shorts	124.1'
	29.9'

Core Recovery $\frac{29.9}{154.0} \times 100 = 19.2\%$

BEARING | DIP -90° | CORE RECOVERY 36.9% | HOLE NO. 40 | SHEET NO. 1

PROPERTY Hamilton Option | TOTAL LENGTH 150.0' | VERT. 150.0' | HORZ. | STARTED July 15, 1953.

DISTRICT Watson Lake, Y.T. | ELEVATION 419.8' | OVERBURDEN 22.0' | COMPLETED July 18, 1953.

CO-ORDINATES 13 + 93 N; 6 + 05 W | PURPOSE To test ground west of DH #24 | LOGGED BY C. J. Coveney. | DATE July 19, 1953.

GEOLOGY			CORE RECOVERY			CORE SAMPLES								SLUDGE SAMPLES									
FOOTAGE		DESCRIPTION	FOOTAGE		SHO-	SAMP-	FOOTAGE		WI-	ASSAYS				SAMP-	FOOTAGE		WI-	ASSAYS				RECO	COLOR
FROM	TO		FROM	TO	RTS	LE #	FROM	TO	DTH	oz.	g.	% lb.	% Cu.	LE #	FROM	TO	DTH					VERY	PLOT
		Stand pipe 22.0'. Casing 31.0'.																					
0.0	22.0	Overburden.																					
22.0	23.5	Quartzite, gray, buttons.	22.0	23.5	1.1																		
23.5	26.0	No core.	23.5	26.0	2.5																		
26.0	40.0	Quartzite, dense, fine grained. Some pyrite between 35.0-37.0'	26.0	27.0	0.6																		
			27.0	31.0	3.6																		
			31.0	32.0	1.5																		
			32.0	34.0	1.6																		
			34.0	35.0	0.6																		
			35.0	37.0	1.5																		
40.0	42.0	Mud - nom core - driller's note.	37.0	42.0	2.0																		
42.0	47.5	Quartzite, fine grained, dense. At 47.5' some dark gray buttons of argillite broken at 70° to core.	42.0	46.0	3.7																		
			46.0	47.5	0.6																		
47.5	49.5	Mud - no core (driller's note).	47.5	49.5	2.0																		
49.5	50.0	Chips of gray quartzite.	49.5	50.0	0.1																		
50.0	53.0	Mud - no core.	50.0	53.0	3.0																		
53.0	56.0	Mud - no core.	53.0	56.0	3.0																		
56.0	64.0	Buttons of gray quartzite. Many of the buttons have black graphitic slickensided surfaces on the broken edges.	56.0	58.5	1.7																		
			58.5	61.0	1.7																		
			61.0	63.5	1.1																		
			63.5	65.0	0.4																		
64.0	68.0	Quartzite, fine grained, dense. Some minor pyrite at 67.5'.	65.0	68.0	1.5																		
68.0	69.2	Brecciated zone. Core consists of gray quartzite fragments in a black graphitic material that has slickensided surfaces. (Possible hardened fault gouge - Fault?).	68.0	70.5	1.0																		
			70.5	73.5	1.6																		
69.2	70.5	Quartzite, fine grained, dense with graphitic slickensided edges.																					
70.5	73.5	Similar to above but with minor pyrite.																					
73.5	77.0	Quartzite gray - slightly pyritized from 75.0-77.0'. Some brecciation 76.5-77.0'. The 6" brecciated section is similar to section from 68.0-69.2'.	73.5	75.0	0.9	7349	70.5	73.5	3.0	0.20	tr.	tr.											
			75.0	77.0	0.7	7350	73.5	77.0	3.5	0.16	trace	trace											
77.0	77.5	Mud - no core (driller's note).	77.0	77.5	0.5																		
77.5	80.5	Quartzite, gray, buttons.	77.5	80.5	0.2																		
80.5	82.0	Mud - no core - driller's note.	80.5	82.0	1.5																		
82.0	86.0	Quartzite, gray, buttons. Minor pyrite at 85'.	82.0	83.0	0.3																		
			83.0	85.5	1.2																		
86.0	88.5	Black slickensided argillite. One ¼" band of gray quartzite is 45° to core.	85.5	88.5	1.5																		
88.5	91.0	Mud - no core (driller's note).	88.5	91.0	2.5																		
91.0	109.5	Quartzite, gray, fine grained.	91.0	93.5	2.1																		
			93.5	95.5	1.8																		
			95.5	98.0	1.2																		
			98.0	101.0	2.7																		
			101.0	103.0	0.7																		

BEARING | DIP | CORE RECOVERY | HOLE NO. 40 | SHEET NO. 2

PROPERTY McMillan Option | TOTAL LENGTH | VERT. | HORZ. | STARTED | COMPLETED

DISTRICT Watson Lake, Y. T. | ELEVATION | OVERBURDEN

CO-ORDINATES | PURPOSE | LOGGED BY | DATE

GEOLOGY			CORE RECOVERY			CORE SAMPLES				SLUDGE SAMPLES								
FOOTAGE		DESCRIPTION	FOOTAGE		SHORTS	SAMPLE #	FOOTAGE		WIDTH	ASSAYS				SAMPLE #	FOOTAGE		WIDTH	ASSAYS				RECOVERY	COLOR PLOT
FROM	TO		FROM	TO			FROM	TO							FROM	TO							
			103.0	105.0	1.2																		
			105.0	107.0	1.5																		
			107.0	108.0	0.2																		
			108.0	109.0	0.2																		
109.5	111.5	Black graphitic argillite with some quartzite fragments - brecciated.	109.0	112.0	1.2																		
			112.0	115.0	2.0																		
111.5	126.0	Quartzite, gray.	115.0	116.0	0.5																		
			116.0	119.0	1.5																		
			119.0	121.0	1.2																		
			121.0	123.0	0.9																		
			123.0	126.0	2.5																		
126.0	128.0	Brecciated gray quartzite and black argillite.	126.0	128.0	1.2																		
128.0	132.0	Quartzite, gray buttons.	128.0	129.5	1.0																		
			129.5	131.0	0.7																		
132.0	132.5	Brecciated - gray quartzite fragments in black graphitic argillite.	131.0	132.5	1.0																		
			132.5	134.5	1.6																		
132.5	149.0	Buttons and chips of gray quartzite.	134.5	136.5	1.2																		
			136.5	139.5	1.6																		
			139.5	141.5	0.4																		
			141.5	144.5	1.2																		
			144.5	145.5	0.3																		
			145.5	149.0	2.8																		
149.0	151.0	Brecciated - fragments of gray quartzite up to 8" in black graphitic material - Fault.	149.0	151.0	1.0																		
			151.0	152.5	1.1																		
151.0	160.0	Quartzite, gray.	152.5	154.5	1.6																		
			154.5	155.5	0.3																		
			155.5	157.0	0.7																		
			157.0	160.0	2.2																		

END OF HOLE

Length of hole	160.0'
Overburden	22.0'
	138.0'
Shorts	87.0'
	51.0'

Recovery $\frac{51}{138} \times 100 = 36.9\%$

General: No banding observed throughout the core. Brecciated zone at 68.0-69.2; 76.0-77.0; 109.0-111.5; 126.0-128.0 and 149.0-151.0. These sections have fragments of gray quartzite in a matrix of black graphitic material that may be hardened fault gouge. Throughout the section many buttons of gray quartzite have black slickensided surfaces. Unable to recognise any repetition of strata due to absence of any marker.

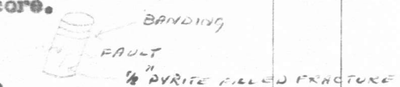
BEARING — DIP -90° — CORE RECOVERY 40.3% — HOLE NO. 41 — SHEET NO. 1

PROPERTY McMillan Option — TOTAL LENGTH 187.0' — VERT. 187.0' — HORZ. — STARTED July 21, 1953.

DISTRICT Watson Lake, Y. T. — ELEVATION 496.0' — OVERBURDEN 17.0' — COMPLETED July 25, 1953.

CO-ORDINATES 5 + 95 N; 5 + 95 W — PURPOSE To test ground on west side of Quartz Creek and south of DH #40 — LOGGED BY C. J. Coveney, DATE July 25, 1953.

GEOLOGY			CORE RECOVERY			CORE SAMPLES								SLUDGE SAMPLES								RECOVERY	COLOR PLOT
FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	FOOTAGE FROM	FOOTAGE TO	SHORTS	SAMPLE #	FOOTAGE FROM	FOOTAGE TO	WIDTH	ASSAYS Oz. Ag.	% Pb.	% Zn.		SAMPLE #	FOOTAGE FROM	FOOTAGE TO	WIDTH	ASSAYS					
0.0	17.0	Overburden. Standpipe to 21.0'.																					
17.0	22.0	Chopped chips of gray quartzite with scattered pyrite.	17.0	22.0	3.5																		
			22.0	25.0	2.3																		
22.0	30.0	Quartzite, gray buttons.	25.0	26.5	1.0																		
30.0	32.5	Mud - no core (drillr's note).	26.5	28.0	1.0																		
			28.0	30.0	1.5																		
			30.0	32.5	2.5																		
32.5	38.5	Chips and buttons of dark gray quartzite.	32.5	34.5	1.5																		
			34.5	38.5	3.5																		
38.5	40.0	Mud - no core (driller's note)	38.5	40.0	1.5																		
40.0	46.0	Buttons of dark and light gray argillite.	40.0	41.0	0.5																		
46.0	49.0	Buttons of gray quartzite - easily recognisable quarts grains.	41.0	46.0	4.0																		
			46.0	49.0	2.0																		
49.0	52.0	Mainly buttons of gray quartzite with some chips of dark gray argillite.	49.0	52.0	2.5																		
52.0	58.0	Mainly buttons of gray argillite with a few buttons of gray quartzite. One button of argillite near 53.0' is pyritised.	52.0	55.0	2.1																		
			55.0	57.0	1.2																		
			57.0	60.0	1.7																		
58.0	62.0	Buttons of white quarts.	60.0	62.0	1.8																		
62.0	65.2	Argillite, green, dense - no banding. Last 2" of core shows several 1/8" bands of gray quartzite in green argillite at 60° to the core.	62.0	64.0	1.2																		
			64.0	65.0	0.0																		
			65.0	67.0	1.0																		
65.2	67.2	Quartzite, grayish-white, fine to medium grained. At 66.0' quarts grains are easily recognized at 65.5' there is a 2" band of irregular quartzite in green argillite with minor pyrite.	67.0	70.0	1.1																		
67.2	74.5	Argillite greenish gray. Banding at 68.0' is 80° to core. Banding at 71.0' is 80° to core. Banding at 72.5' is 80-85° to core.	70.0	71.0	0.5																		
			71.0	73.0	0.5																		
			73.0	76.0	1.5																		
74.5	80.7	Greenish argillite with pinkish interbands & patches. At 78' banding is 50° to core. There are several fractures 1/8" in width filled with pyrite which show slight faulting with the fault paralleling the banding w ich at 79.0' is 80° to the core.	76.0	77.5	0.7																		
			77.5	79.0	0.0																		
			79.0	81.0	1.0																		
80.7	81.0	Buttons of white quartz.																					
81.0	82.0	Argillite, greenish, vaguely banded 40° to core. At 81.5' a 1/16" fracture filled with pyrite about 10° to core.	81.0	82.5	0.1																		
82.0	86.0	Argillite, greenish, with a pinkish tint. Banding at 83.0' approximately 75-80° to core.	82.5	85.0	1.2																		
			85.0	87.0	0.2																		
86.0	88.5	Argillite, green, no definite banding.	87.0	90.0	0.7																		
88.5	98.5	Pink argillite with bands of green argillite up to ¼" throughout section. The green	90.0	95.0	0.0																		
			95.0	96.5	1.8																		



BEARING | DIP | CORE RECOVERY | HOLE NO. 41 | SHEET NO. 2

PROPERTY McMillan Option | TOTAL LENGTH | VERT. | HORZ. | STARTED

DISTRICT Watson Lake, Y. T. | ELEVATION | OVERBURDEN | COMPLETED

CO-ORDINATES | PURPOSE | LOGGED BY | DATE

GEOLOGY			CORE RECOVERY			CORE				SAMPLES				SLUDGE				SAMPLES					
FOOTAGE		DESCRIPTION	FOOTAGE		SHO-	SAMP-	FOOTAGE		WI-	ASSAYS				SAMP-	FOOTAGE		WI-	ASSAYS				RECO VERY	COLOR PLOT
FROM	TO		FROM	TO	RTS	LE #	FROM	TO	DTH	Oz.Ag.	% Pb.	% Zn.		LE #	FROM	TO	DTH						
		argillite bands are approximately 2" apart. Banding well defined 70° to core.																					
98.5	99.0	White quartz.	98.5	101.5	1.7																		
99.0	111.0	Similar to section from 88.5-98.5' but mainly buttons. Banding 75° to core.	101.5	102.5	0.2																		
			102.5	105.0	2.2																		
			105.0	107.0	0.7																		
			107.0	111.0	3.3																		
111.0	116.0	Mainly buttons and chips of argillite with a few chips of gray quartzite.	111.0	116.0	3.6																		
116.0	121.0	Similar to above but with more gray quartzite buttons. Some minor pyrite at 116.0'.	116.0	119.0	2.5																		
			119.0	121.0	1.5																		
121.0	129.5	Grayish argillite with quartzite fragments. Core has the appearance of being shattered rather than brecciated, particularly between 125.0'-127.0'. Minor pyrite at 128.0'.	121.0	125.0	3.4																		
			125.0	127.0	1.2																		
			127.0	129.5	1.8																		
129.5	132.0	Mud - no core (driller's note).	129.5	132.0	2.5																		
132.0	134.0	Buttons similar to 121.0-129.5' except the buttons appear to be more quartzitic.	132.0	134.0	1.4																		
			134.0	136.0	0.0																		
134.0	140.0	Impure argillaceous rock.	136.0	138.0	1.5																		
			138.0	139.0	0.6																		
			139.0	140.0	0.4																		
140.0	152.0	Brecciated zone. Core consists of gray quartzite fragments in a black argillaceous matrix. FAULT. Slightly pyritized.	140.0	144.0	1.6	7351	148.0	152.5	4.5	0.60	trace	trace											
			144.0	145.5	1.0	7352	152.5	156.0	3.5	0.30	trace	trace											
			145.5	148.0	0.8	7353	156.0	159.5	3.5	0.60	trace	trace											
			148.0	149.0	0.0																		
			149.0	152.5	0.9																		
152.0	160.5	Similar to above except the quartzite fragments are in a quartzitic matrix.	152.5	155.0	1.5																		
			155.0	156.0	0.3																		
			156.0	159.5	0.2																		
			159.5	160.5	0.5																		
160.5	162.0	One button black chert.	160.5	162.0	1.4																		
162.0	165.5	Mud - No core. (driller's note).	162.0	165.5	3.5																		
165.5	187.0	Quartzite, gray. Some pyrite around 180.0 & 183.0'. One white quartz button at 168.0' and another at 175.0'.	165.5	168.0	2.2																		
			168.0	169.5	1.0																		
			169.5	175.0	4.5																		
			175.0	177.5	2.1																		
			177.5	180.0	1.3																		
			180.0	183.0	2.2																		
			183.0	186.0	2.2																		
			186.0	187.0	0.1																		

END OF HOLE

Length of hole	187.0'
Overburden	17.0'
Rock drilled	170.0'
Shorts	101.4'
Core recovered	68.6'

Recovery $\frac{68.6}{170.0} \times 100 = 40.3\%$

BEARING — DIP -90° — CORE RECOVERY 72.5% — HOLE NO. 42 — SHEET NO. 1

PROPERTY McMillan Option — TOTAL LENGTH 92.0' — VERT. 92.0' — HORZ. — STARTED July 27, 1953.

DISTRICT Watson Lake, Y. T. — ELEVATION 509.0' — OVERBURDEN 16.0' — COMPLETED July 29, 1953.

CO-ORDINATES 3 + 95 N; 3 + 89 W — PURPOSE To test ground to west of Quartz creek and south of DH #41 — LOGGED BY C. J. Coveney — DATE July 29, 1953.

GEOLOGY			CORE RECOVERY			CORE SAMPLES							SLUDGE SAMPLES							RECOVERY	COLOR PLOT
FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	FOOTAGE FROM	FOOTAGE TO	SHORTS	SAMPLE #	FOOTAGE FROM	FOOTAGE TO	WIDTH	ASSAYS Oz. Ag.	ASSAYS % Pb.	ASSAYS % Zn.	SAMPLE #	FOOTAGE FROM	FOOTAGE TO	WIDTH	ASSAYS				
		Standpipe to 16.0'. Cased to 17.0'. Water Lost at 90.0'.																			
0.0	16.0	Overburden.																			
16.0	19.0	Gray argillite - some paper thin quartzite bands near start of section. Banding at 16.5' about 75° to core.	16.0	18.0	0.6																
19.0	19.2	Gray limestone.																			
19.2	22.8	Green-gray banded argillite. Banding 75° to core. Gray quartzite 20.9-21.0' and mainly gray quartzite with narrow interbands of gray argillite 21.9-22.8'.	18.0	20.0	0.4																
			20.0	23.0	0.0																
			23.0	25.0	0.4																
			25.0	26.5	0.5																
22.8	29.8	Gray quartzite. Banding 70-75° to core.	26.5	28.0	0.7																
29.8	31.8	Limestone, gray. 1" solid pyrite at start of section.	28.0	29.5	0.4																
			29.5	31.0	0.3																
31.8	34.0	Quartzite, gray.	31.0	33.0	0.0																
34.0	43.5	Limestone, gray. Gray quartzite 35.1-35.3' & 36.2-36.3'. A small irregular patch of green argillite at 36.2'. Banding at 42.0' about 70° to core. 1" band of green argillite at 43.0'.	33.0	35.0	1.1																
			35.0	39.0	1.0																
			39.0	44.0	2.6																
			44.0	46.0	0.6																
43.5	57.0	Limestone, dark gray to black with a multiplicity of criss-crossing veinlets of white calcite. Some marmorization at 49.0'.	46.0	48.0	0.0																
			48.0	51.0	0.2																
			51.0	54.0	0.1																
57.0	63.0	Limestone - conglomerate or breccia (?) Sub-rounded to sub-angular fragments of gray limestone in a dark gray limestone matrix.	54.0	56.0	0.1																
			56.0	59.0	0.0																
			59.0	63.0	0.0																
63.0	64.8	Limestone, dark gray. One speck of Pb at 63.7'. A few criss-crossing veinlets towards end of section. Minor conglomerate (?) or breccia (?) at 63.5'.	63.0	65.5	0.3																
			65.5	68.0	0.0																
			68.0	70.0	0.0																
64.8	68.0	Limestone (?) silicified. Some conglomerate or breccia at 66.0'. Fair mineralization.																			
68.0	72.5	Limestone (?) silicified. Well pyritized from 69.5-70.5'. Rest of section fair to weak pyritization. Weak zinc.	70.0	72.5	0.0																
72.5	78.5	72.5-73.5' Limestone (?) silicified weakly pyritized. 73.5-75.0' chips of gray-green argillite. 75.0-78.5' Mud - no core - drillers note.	72.5	73.5	0.0																
			73.5	75.0	0.9	7354	63.0	64.8	1.8	0.40	0.20	trace									
			75.0	78.5	3.5																
			78.5	80.0	0.1	7355	64.8	68.0	3.2	0.80	1.40	6.10									
78.5	80.0	Buttons of argillite and quartzite.	80.0	83.0	1.2	7356	68.0	72.5	4.5	0.55	0.30	0.35									
80.0	92.0	Mainly gray quartzite. Some buttons gray-green argillite between 83.5-87.0'. Limy in part.	83.0	83.5	0.0																
			83.5	85.0	0.7																
			85.0	87.0	1.0																
			87.0	90.0	2.4																
			90.0	92.0	1.6	7357	72.5	78.5	6.0	0.15	trace	trace									

END OF HOLE

Length of hole	92.0'
Overburden	16.0'
Rock drilled	76.0'
Shorts	20.9'
	55.1'

RECOVERY $\frac{55.1}{76.0} \times 100 = 72.5\%$

PROPERTY McMillan Option — BEARING — DIP -90° — CORE RECOVERY 51.5% — HOLE NO. 13 — SHEET NO. 1

DISTRICT Watson Lake, Y. T. — TOTAL LENGTH 147.0' — VERT. 147.0' — HORZ. — STARTED July 30, 1953.

CO-ORDINATES 0 - 15 N; 4 - 05 W — ELEVATION 582.3' — OVERBURDEN — COMPLETED August 3, 1953.

PURPOSE To test area south of DH #12 and west of DH #14 — LOGGED BY C. J. Coveney. — DATE August 5, 1953.

FOOTAGE FROM	FOOTAGE TO	GEOLOGY DESCRIPTION
		Stand Pipe 35'. Casing 51.0'. Lost water at 82.0'.
0.0	50.0	Overburden. Core recovered consisted of mixed quartzite, argillite, some chert and a few pieces of limestone. The limestone float suggests that limestone has been eroded in this area. No evidence of limestone was found in the rest of the core.
50.0	51.0	Coarse gray quartzite.
51.0	53.0	Grayish quartzite. Two chips of purple argillite at 51.0'. Some rusty chips of quartzite near start of the section. Green argillite 52.0-52.4'.
53.0	54.0	Grayish green argillite.
54.0	55.0	Quartzite, gray, buttons; a few chips of gray-green argillite at 55.0'.
55.0	62.0	Quartzite, gray, broken buttons and chips. A few green argillite chips at 58.0'. Banding at 58.5' is 50° to the core. Minor pyrite at 60.0'.
62.0	77.5	Argillite, greenish grey, dense. Minor faulting at 65.0' with banding 45° to core. At 77' a 1/8" irregular stringer of pyrite approximately 30° to the core. Another irregular stringer at 77.2' which is 35°-40° to core.
77.5	81.0	Argillite, similar to above but with scattered specks of pyrite giving the rock a spotted appearance. In addition there are some irregular seams of pyrite. The last 2" of core is heavy pyrite in quartzite. No visible Pb or Zn.
81.0	85.0	Argillite, greenish; At 81.7' banding is 50° to core and 70° at 84.8'. Drillers have noted the sludge was brownish black from 81.0 - 81.6'. In this section (81.0-81.6) there are only a few buttons of quartzite heavily mineralized. Other than these few buttons the rest of the section is barren.
85.0	95.5	Argillite greenish. Pyritized 89.0-91.0'. Some coarse pyrite at 91.5' and 93.5'. About 2" of gray quartzite at 90.0, 93.0 and 94.0'. Crude banding at 85' about 70° to core.
95.5	97.0	Argillite, dark gray. Mainly buttons.
97.0	98.5	Quartzite, Gray. Minor pyrite.

CORE RECOVERY FOOTAGE FROM	CORE RECOVERY FOOTAGE TO	SHORTS
50.0	51.0	0.5
51.0	53.0	0.9
53.0	54.0	0.6
54.0	55.0	0.6
55.0	56.0	0.7
56.0	58.0	1.3
58.0	60.5	1.5
61.5	63.0	0.7
63.0	64.5	0.1
64.5	66.0	0.8
68.0	71.0	0.2
71.0	72.0	0.0
72.0	73.5	0.0
73.5	74.5	0.4
74.5	76.5	1.0
76.5	77.5	0.0
77.5	78.5	0.1
78.5	81.0	0.7
81.0	81.5	0.3
81.5	85.0	2.3
85.0	88.0	1.7
88.0	89.0	0.1
89.0	91.0	1.0
91.0	93.0	1.1
93.0	93.5	0.0
93.5	95.5	1.1
95.5	98.0	1.5
98.0	100.0	0.7
100.0	103.0	1.9
103.0	106.0	2.0
106.0	110.0	3.5
110.0	112.5	1.8
112.5	114.5	1.0
114.5	118.0	2.1
118.0	119.0	0.0

CORE SAMPLE #	CORE FOOTAGE FROM	CORE FOOTAGE TO	WIDTH	CORE SAMPLES ASSAYS Oz. Ag.	% Pb.	% Zn.
7358	77.5	81.0	3.5	0.15	0.32	trace
7359	81.0	85.0	4.0	0.36	0.43	1.50

SLUDGE SAMPLE #	SLUDGE FOOTAGE FROM	SLUDGE FOOTAGE TO	WIDTH	SLUDGE SAMPLES ASSAYS	RECOVERY	COLOUR PLOT

BEARING | DIP | CORE RECOVERY | HOLE NO. | SHEET NO. 2

PROPERTY McMillan Option | TOTAL LENGTH | VERT. | HORZ. | STARTED 43

DISTRICT Watson Lake, Y. T. | ELEVATION | OVERBURDEN | COMPLETED

CO-ORDINATES | PURPOSE | LOGGED BY | DATE

GEOLOGY			CORE RECOVERY			CORE				SAMPLES				SLUDGE				SAMPLES				RECOVERY	COLOR PLOT
FOOTAGE		DESCRIPTION	FOOTAGE		SHORTS	SAMPLE #	FOOTAGE		WIDTH	ASSAYS				SAMPLE #	FOOTAGE		WIDTH	ASSAYS					
FROM	TO		FROM	TO			FROM	TO							FROM	TO							
98.5	106.0	Argillite, dark gray. Some coarse pyrite at 97.0'. Crude banding 75° to core.	119.0	120.0	0.3																		
106.0	110.0	Quartzite, gray, chips and buttons.	120.0	122.0	0.3																		
110.0	147.0	The rock throughout the section is mainly dark gray argillite. Narrow quartzite bands (2") at 119.5; 120.0 and 132.0. Banding at 115.5 about 70° to core. Banding at 138.0' about 45° to core. Some coarse pyrite at 143.5. Minor brecciation at 136.5'.	122.0	123.5	0.1																		
			123.5	126.0	0.0																		
			126.0	128.0	2.8																		
			128.0	131.0	1.5																		
			131.0	132.0	0.5																		
			132.0	136.0	2.5																		
			136.0	138.0	0.6																		
			138.0	141.0	2.4																		
			141.0	142.0	0.5																		
			142.0	143.5	1.2																		
			143.5	145.5	1.1																		
			145.5	147.0	1.0																		

END OF HOLE

Length of hole	147.0'
Overburden	50.0'
Rock drilled	97.0'
Shorts	47.0'
Recovery	50.0'

RECOVERY $\frac{50}{97}$ x 100 = 51.5%

BEARING | DIP | CORE RECOVERY 61.3% | HOLE NO. 14 | SHEET NO. 1

PROPERTY McMillan Option | TOTAL LENGTH 172.0' | VERT. | HORZ. | STARTED August 7th, 1953.

DISTRICT Watson Lake, Y. T. | ELEVATION 568.0' | OVERBURDEN 25.0' | COMPLETED August 11th, 1953.

CO-ORDINATES 1+ 92 N; 1 + 85 S | PURPOSE To test ground east of DH #13 | LOGGED BY C. J. Coveney | DATE August 12th, 1953.

GEOLOGY			CORE RECOVERY			CORE				SAMPLES					SLUDGE SAMPLES							RECOVERY	COLOR PLOT
FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	FOOTAGE FROM	FOOTAGE TO	SHORTS	SAMPLE #	FOOTAGE FROM	FOOTAGE TO	WIDTH	ASSAYS Oz.Ag.	% Pb.	% Zn.			SAMPLE #	FOOTAGE FROM	FOOTAGE TO	WIDTH	ASSAYS					
		Stand Pipe 25'. Cased to 65.0'.																					
0.0	25.0	Overburden.																					
25.0	29.0	Argillite, greenish. Banding at 25.5' approximately 80° to core.	25.0	28.0	2.1																		
			28.0	29.0	0.3																		
29.0	31.0	Mud (driller's note).	29.0	31.0	2.0																		
31.0	36.0	Argillite, greenish colored.	31.0	32.0	0.4																		
36.0	43.0	Chips of pink argillite - no banding.	32.0	36.0	3.4																		
43.0	50.0	Appears to be mainly pink to gray quartzite chips and buttons. A few pink argillite chips at start of section.	36.0	43.0	6.5																		
			43.0	45.0	0.8																		
			45.0	50.0	4.4																		
50.0	56.0	Mud (driller's note).	50.0	56.0	6.0																		
56.0	58.5	A few chips of pink and gray quartzite.	56.0	58.5	2.0																		
58.5	60.0	Chips of green argillite with narrow gray bands. Banding 70° to core.	58.5	60.0	0.9																		
			60.0	63.0	2.5																		
60.0	70.5	Quartzite, gray, broken buttons and chips.	63.0	65.0	1.0																		
		Some chips show banding 75-80° to core. 4" white quartz at 69.7'.	65.0	68.0	2.6																		
			68.0	69.5	0.9																		
70.5	71.2	Argillite, green. Banding 65-70° to core.	69.5	71.0	0.2																		
71.2	71.4	Limestone. No Banding.																					
71.4	71.9	Argillite, green.																					
71.9	72.0	Limestone, gray buttons.	71.0	72.0	0.0																		
72.0	74.0	Argillite, green. Minor brecciation at 72.0' with small angular fragments consisting of limestone, gray argillite and gray quartzite in green argillite matrix. Banding 70° to core at 73.0'.	72.0	74.0	1.0																		
74.0	75.8	Quartzite, gray; banding approximately 75° to core.	74.0	76.0	1.0																		
			76.0	77.0	0.0																		
75.8	76.5	Limestone, dark gray, banding 75° to core.																					
76.5	77.5	Argillite green with some narrow quartzite bands 75° to core.	77.0	78.0	0.0																		
77.5	78.5	Quartzite, limy gray, banding 75° to core.	78.0	79.2	0.1																		
78.5	79.7	Quartzite, gray.	79.2	80.0	0.0																		
79.7	84.5	Limestone, gray, some crisscrossing narrow veinlets of white calcite. At 80.2' dark gray limestone band in a lighter gray limestone at 35° to core.	80.0	82.0	0.2																		
			82.0	83.0	0.0																		
			83.0	84.3	0.0																		
			84.3	86.0	0.6																		
84.5	87.0	Quartzite, gray, buttons with a few green argillite chips at start of section and 2" of green argillite at 86.3'. In the argillite buttons the banding is 80° to core.	86.0	87.0	0.1																		
			87.0	88.5	0.0																		
87.0	88.2	Limestone, gray, banding 80° to core.																					
88.2	91.0	Quartzite, gray, limy in part. Good banding 80° to core.	88.5	90.0	0.0																		
91.0	113.5	Limestone, dark to light gray with crisscrossing calcite veinlets especially between 91.0' and 98.0'. From 103.0'-105.0' the lime-	90.0	91.5	0.4																		
			91.5	94.0	0.0																		
			94.0	96.5	0.0																		

BEARING | DIP | CORE RECOVERY | HOLE NO. 44 | SHEET NO. 2

PROPERTY McMillan Option | TOTAL LENGTH | VERT. | HORZ. | STARTED | COMPLETED

DISTRICT Watson Lake, Y. T. | ELEVATION | OVERBURDEN | LOGGED BY

CO-ORDINATES | PURPOSE | DATE

GEOLOGY			CORE RECOVERY			CORE			SAMPLES					SLUDGE SAMPLES								
FOOTAGE		DESCRIPTION	FOOTAGE		SHORTS	SAMPLE #	FOOTAGE		WIDTH	ASSAYS				SAMPLE #	FOOTAGE		WIDTH	ASSAYS				RECOVERY	COLOR PLOT
FROM	TO		FROM	TO			FROM	TO							FROM	TO							
		stone resembles slightly the limestone conglomerate or breccia exposed near the creek. Around 105.0' the limestone is slightly argillaceous.	96.5	98.0	0.0																	
			98.0	100.0	0.6																	
			100.0	101.5	0.3																	
			101.5	104.0	0.3																	
			104.0	106.2	0.0																	
			106.0	109.0	1.2																	
			109.0	113.0	1.4																	
			113.0	116.0	1.5																	
			116.0	119.0	0.8																	
			119.0	122.0	0.2																	
			122.0	126.0	2.0																	
			126.0	130.0	0.7																	
			130.0	139.0	2.0																	
113.5	139.0	Argillite, green with gray interbands that are themselves well banded. 2" limestone at 116.0 and 119.5' and 5" at 118.5'. Some of the gray argillite interbands show minor cross bedding. Banding at 119.0' is 90°; at 126.0' - 60°; at 130.0' - 80°; at 136.0' - 65°. Section grades into following:	139.0	141.0	0.0																	
			141.0	142.0	1.0																	
			142.0	143.5	0.7																	
			143.5	145.5	0.1																	
139.0	145.5	Argillite, green. Banding at 145.0' is 70° to core. Grades into following:	145.5	147.0	0.0																	
			147.0	146.0	0.0																	
			146.0	149.0	0.0																	
			149.0	150.0	0.1																	
			150.0	153.0	0.0																	
			153.0	156.0	1.8																	
			156.0	159.0	0.3																	
			159.0	162.5	0.1																	
			162.5	165.0	0.6																	
			165.0	168.5	0.1																	
			168.5	170.0	1.0																	
			170.0	172.0	0.6																	
145.5	150.5	Argillite, green with scattered 1/8" bands of dark green argillite. From 147.0 - 149.0' rock has a pinkish tint. Some miniature faulting.																				
150.5	151.2	Quartzite, white.																				
151.2	153.3	Argillite, green with scattered bands of gray quartzite. Well banded 80° to core.																				
153.3	155.5	Quartzite, gray, buttons and chips.																				
155.5	159.0	Argillite, green, well banded with narrow dark gray argillite interbands. Gray quartzite bands at 156.2 - 156.3 - 157.5 - 157.8.																				
159.0	159.8	Quartzite, gray, coarse.																				
159.8	164.5	Argillite, green with narrow quartzite interbands and some gray argillite interbands. Banding 80° to core.																				
164.5	166.3	Quartzite, gray.																				
166.3	172.0	Argillite, green with some narrow interbands of gray quartzite. Overall banding 80° to core.																				

END OF HOLE

Depth of hole	172.0'
Overburden	25.0'
Rock drilled	147.0'
Shorts	56.9'
Recovery	90.1'

% Core Recovery $\frac{90.1}{147.0} \times 100 = 61.3\%$

NOTE: No mineralisation seen in this hole.

BEARING | DIP -90° | CORE RECOVERY 48.5% | HOLE NO. 45 | SHEET NO. 1

PROPERTY Hamilton Option | TOTAL LENGTH 318.0' | VERT. 318.0' | HORZ. | STARTED August 14, 1953

DISTRICT Watson Lake, Y. T. | ELEVATION 658.5' | OVERBURDEN 80.0' | COMPLETED August 29, 1953

CO-ORDINATES 16 + 98 S; 7 + 10 E | PURPOSE To test E.M. conductor at south end of property | LOGGED BY C. J. Coveney | DATE September 3, 1953

GEOLOGY			CORE RECOVERY			CORE SAMPLES								SLUDGE SAMPLES									
FOOTAGE		DESCRIPTION	FOOTAGE		SHOTS	SAMPLE #	FOOTAGE		WIDTH	ASSAYS				SAMPLE #	FOOTAGE		WIDTH	ASSAYS				RECOVERY	COLOR PLOT
FROM	TO		FROM	TO			FROM	TO							FROM	TO							
		Steel Pipe 33.0' Casing 80.0' Cemented 19th Aug. at 180.0' 21st Aug. between 206.0' and 231.0' 22nd Aug. between 206.0' and 231.0' 24th Aug. between 253.0' and 276.0' 25th Aug. between 276.0' and 293.0' 27th Aug. between 293.0' and 295.0' 29th Aug. between 311.0' and 328.0'																				
0.0	80.0	Overburden																				
80.0	89.0	Purple and pinkish argillite. Banding at 82.0' is 10° to the core and at 86.0' banding is 0°.	80.0	84.0	3.0																	
			84.0	86.0	1.0																	
			86.0	89.0	1.7																	
89.0	110.0	Pinkish tinted argillite with narrow 1/8" bands, irregular blobs and patches of gray quartzite and quartz. 91.0-92.0' gray quartzite with one button of white limestone. Minor pyrite at 95.0'. Banding at 98.0' is 40° and at 103.0' banding is approximately 30°. NOTE Slip surfaces (fracture change?) at 107.0' is 30° to core while banding or bedding appears to be 35 - 40° to the core.	89.0	92.0	0.3																	
			92.0	93.0	0.0																	
			93.0	95.0	0.5																	
			95.0	96.5	0.0																	
			96.5	98.5	0.7																	
			98.5	99.5	0.3																	
			99.5	102.0	0.8																	
			102.0	104.5	1.1																	
			104.5	106.5	0.8																	
			106.5	107.5	0.0																	
			107.5	110.0	0.5																	
110.0	120.0	Quartzite, gray with some crisscrossing veinlets of white quartz. At 116.0' there is 2" gray argillite. At 114.0' crude banding 10° to core. At 115.0' the core has a somewhat shattered appearance; 119.0-119.5 pyritized. Section grades into the following	110.0	113.0	1.7																	
			113.0	115.0	0.3																	
			115.0	117.0	0.2																	
			117.0	119.0	0.7																	
			119.0	120.0	0.0																	
			120.0	123.0	1.2																	
120.0	123.0	Similar to above but with some interbands of pink argillite which at 121.5' are 40° to the core. The quartzite predominates over the argillite.	123.0	126.0	0.4																	
123.0	135.0	Interbanded pinkish argillite, gray quartzite and gray quartz. All these occur as indefinite bands, irregular and discontinuous lenses. Around 124.0' banding is 40° to core. At 125.5 the core is brecciated. From 126.0 to 135.0' the core is mainly gray quartzite with green argillite occurring as irregular patches and thready filled fractures and blobs. The last 6" of the section shows gray quartzite and pink argillite buttons and chips.	126.0	131.0	2.9																	
			131.0	135.0	2.8																	
135.0	138.0	Purple argillite.	135.0	138.0	1.8																	

BEARING | DIP | CORE RECOVERY | HOLE NO. STARTED 45 | SHEET NO. 2

PROPERTY McMillan Option | TOTAL LENGTH | VERT. | HORZ. | COMPLETED

DISTRICT Watson Lake, Y. T. | ELEVATION | OVERBURDEN | LOGGED BY

CO-ORDINATES | PURPOSE | DATE

GEOLOGY			CORE RECOVERY			CORE SAMPLES							SLUDGE SAMPLES							RECOVERY	COLOR PLOT
FOOTAGE		DESCRIPTION	FOOTAGE		SHOTS	SAMPLE #	FOOTAGE		WIDTH	ASSAYS				SAMPLE #	FOOTAGE		WIDTH	ASSAYS				
FROM	TO		FROM	TO			FROM	TO							FROM	TO						
138.0	140.0	Mainly gray quartzite chips. The first 6" is white quartz. Some green argillite chips and buttons throughout the section.	138.0	140.0	0.4																
140.0	142.0	Gray quartzite chips and buttons. Some of the chips show graphitic surfaces.	140.0	141.0	0.3																
			141.0	142.0	0.0																
142.0	145.0	Quartzite, gray-white. Some of the broken surfaces show green argillite smears.	142.0	145.0	1.2																
145.0	150.0	Pinkish tinted argillite with some narrow irregular interbanded quartzite patches and lenses. Vague banding at 146.0' 50° to core	145.0	147.0	0.5																
			147.0	150.0	2.6																
150.0	155.0	Mud - no core (drillers note).	150.0	155.0	5.0																
155.0	157.0	Black limy argillite with a multiplicity of crisscrossing calcite veinlets. The fractured surfaces have a graphitic appearance. Possibly some brecciation.	155.0	161.0	0.9																
157.0	160.0	Argillite gray with a few feathery criss-crossing veinlets of white calcite. The last 2" of the section show a few interbands of green argillite approximately 25° to the core. Schistosity at 159.0' appears to be 15° to the core.																			
160.0	162.5	Argillite, greenish. ½" patch of pink calcite at 162.0. Banding at 161.5' about 35° to the core.	161.0	162.5	0.0																
162.5	164.5	Quartzite gray. Some minor pyrite in last 6".	162.5	164.0	0.0																
164.5	167.5	Argillite greenish with irregular patches and lenses of gray quartzite. Minor scattered pyrite. Crude banding 30° to the core. Rock appears to be somewhat sheared.	164.0	167.5	0.7																
167.5	168.5	Mud - no core (driller's note).	167.5	168.5	1.0																
168.5	180.5	Black argillite with a multiplicity of criss-crossing veinlets of white calcite. Some of the core is broken buttons and the buttons have a slickensided appearance. Banding at 177.0' is 50° to the core. Section is similar to section from 155.0' - 157.0'	168.5	171.0	0.7																
			171.0	172.0	0.0																
			172.0	173.0	0.0																
			173.0	175.0	0.4																
			175.0	177.0	0.3																
			177.0	180.0	0.6																
180.5	184.0	Probably originally a gray quartzite with irregular patches and partings of black argillite. The rock now has a blackish gray appearance. There are some white calcite veinlets. The broken surfaces of the black argillite have a graphitic or slickensided appearance. Between 180.0'-182.0' some small irregular patches of white quartz. Good brecciation at 183.5'. Some disseminated pyrite.	180.0	182.0	0.0																
			182.0	184.0	0.0																
184.0	184.5	Quartzite, gray.	184.0	186.0	0.0																
184.5	185.0	Greenish colored schisted argillite.																			

BEARING | DIP | CORE RECOVERY | HOLE NO. 45 | SHEET NO. 3

PROPERTY McMillan Option | TOTAL LENGTH | VERT. | HORZ. | STARTED

DISTRICT Batson Lake, N. T. | ELEVATION | OVERBURDEN | COMPLETED

CO-ORDINATES | PURPOSE | LOGGED BY | DATE

GEOLOGY			CORE RECOVERY			CORE			SAMPLES					SLUDGE SAMPLES									
FOOTAGE		DESCRIPTION	FOOTAGE		SHOTS	SAMPLE #	FOOTAGE		WIDTH	ASSAYS				SAMPLE #	FOOTAGE		WIDTH	ASSAYS				RECOVERY	COLOR PLOT
FROM	TO		FROM	TO			FROM	TO		Pb%	Zn%	Ag(oz)	Au(oz)		FROM	TO							
185.0	188.0	Gray massive quartzite with introduced white quarts.	186.0	188.0	0.0																		
			188.0	193.0	1.6																		
188.0	202.0	Greenish colored schisted argillite. The schistosity is 50° to core at 189.5'. At 192.0 there is 2" of gray brecciated quartzite with minor pyrite.	193.0	196.0	2.3																		
			196.0	198.0	1.4																		
			198.0	199.0	0.0																		
			199.0	201.0	1.1																		
202.0	208.0	Quartzite, gray.	201.0	203.0	0.2																		
			203.0	206.0	1.9																		
			206.0	208.0	1.4																		
208.0	210.5	Mud - no core (driller's note).	208.0	210.5	2.5																		
210.5	211.0	Similar to section from 202.0-208.0'.	210.5	211.5	0.0																		
211.0	214.5	Broken chips of greenish argillite and gray quartzite.	211.5	216.0	1.4																		
			216.0	219.0	1.0																		
214.5	219.0	Brecciated gray quartzite. Minor pyrite at 215.0'.																					
219.0	224.0	Badly brecciated and sheared quartzite. Structure could be described as a coarse mylonite. At 223.5 there is a one inch band of pyrite 60° to core. This section is much more brecciated than the above or following section.	219.0	221.0	1.3																		
			221.0	224.0	1.3																		
224.0	226.5	Brecciated gray quartzite.	224.0	226.5	1.5																		
226.5	228.0	Chips of greenish argillite.	226.5	229.0	1.0																		
228.0	228.2	Brecciated gray quartzite.	229.0	230.0	0.5																		
228.2	229.0	Schisted greenish argillite with irregular patches and lenses of white quartz 55° to core.	230.0	232.0	1.0																		
			232.0	235.0	2.2																		
			235.0	237.0	0.0																		
229.0	232.0	Brecciated gray quartzite.	237.0	239.0	1.3																		
232.0	236.0	Greenish argillite with small irregular patches and lenses of white quartz.	239.0	242.0	1.7																		
			242.0	246.0	3.5																		
236.0	253.0	Brecciated gray quartzite with scattered specks of pyrite.	246.0	249.0	2.2																		
			249.0	253.0	3.4																		
253.0	256.0	Coarse mylonite. Section resembles section from 219.0-224.0. Sheared fragments of gray quartzite and white quartz in a black graphite groundmass; ¼" buttons of solid pyrite at 253.5'.	253.0	256.0	1.9																		
256.0	260.0	Mud - no core (driller's note)	256.0	260.0	4.0																		
260.0	268.0	Broken buttons of brecciated gray quartzite with scattered pyrite.	260.0	265.0	4.8																		
			265.0	268.0	2.0																		
268.0	271.0	Mud - no core - driller's note.	268.0	271.0	3.0																		
271.0	276.0	Pyritized buttons of gray quartzite.	271.0	281.0	4.3				Rec														
276.0	307.0	Brecciated gray quartzite. A few specks of Pb at 293.0'. Slightly pyritized from 291.0'-307.0'.	281.0	286.0	3.9																		
			286.0	291.0	4.5	8039	280	290	1.2'	0.01	0.01	0.01	<0.003	Taken 1968									
			291.0	293.0	1.5	8040	290	300	2.6	0.45	0.80	0.31	<0.003										
			293.0	295.0	1.5																		
			295.0	295.5	0.0																		
			295.5	297.0	1.0																		
			297.0	298.0	1.0																		

BEARING | DIP | CORE RECOVERY | HOLE NO. STARTED 45 | SHEET NO. 4

PROPERTY McMillan Option | TOTAL LENGTH | VERT. | HORZ. | COMPLETED

DISTRICT Watson Lake, Y. T. | ELEVATION | OVERBURDEN | LOGGED BY

CO-ORDINATES | PURPOSE | DATE

GEOLOGY			CORE RECOVERY			CORE SAMPLES								SLUDGE SAMPLES									
FOOTAGE		DESCRIPTION	FOOTAGE		SHORTS	SAMPLE #	FOOTAGE		WIDTH	ASSAYS				SAMPLE #	FOOTAGE		WIDTH	ASSAYS				RECOVERY	COLOR PLOT
FROM	TO		FROM	TO			FROM	TO							FROM	TO							
			298.0	299.0	0.0																		
			299.0	301.3	0.3																		
			301.3	302.5	0.7																		
			302.5	307.0	1.0																		
307.0	311.0	No Core	307.0	311.0	1.0																		
311.0	316.0	Buttons and chips of brecciated gray quartzite.	311.0	316.0	1.3																		
316.0	318.0	No core	316.0	318.0	2.0																		
		END OF HOLE																					
		NOTE																					
		From approximately 214.0' to end of the hole the core is brecciated and probably constitutes a fault zone.																					
		Length of hole 318.0'																					
		Overburden 80.0'																					
		Rock drilled 238.0'																					
		Shorts 122.4'																					
		Core recovered 115.6'																					
		RECOVERY $\frac{115.6}{238.0} \times 100 = 48.5\%$																					

BEARING — DIP -90° — CORE RECOVERY 31.9% — HOLE NO. 46 — SHEET NO. 1

PROPERTY McMillan Option — TOTAL LENGTH 267.3' — VERT. 267.3' — HORZ. — STARTED Sept. 9, 1953 (see page 2)

DISTRICT Watson Lake, Y. T. — ELEVATION 542.7' — OVERBURDEN 30.0' — COMPLETED May 6, 1954

CO-ORDINATES 31 - 81 N & 5 - 10 W — PURPOSE To test EM conductor located by EM Survey — LOGGED BY C.J. Coveney & D.H. Olson — DATE April 27, 1954.

GEOLOGY			CORE RECOVERY			CORE SAMPLES					SLUDGE SAMPLES						
FOOTAGE		DESCRIPTION	FOOTAGE		SHO-	SAMP-	FOOTAGE		WI-	ASSAYS	SAMP-	FOOTAGE		WI-	ASSAYS	RECO	COLOR
FROM	TO		FROM	TO	RTS	LE #	FROM	TO	DTH		LE #	FROM	TO	DTH		VERY	PLOT
		2½" Stand Pipe 39'	30.0	31.0	0.1												
		AX Casing 0.0 - 134.0'	31.0	33.0	0.2												
		EX Casing 0.0 - 207.0'	33.0	34.5	0.9												
0.0	30.0	Overburden	34.5	36.0	0.9												
30.0	33.0	Chopped pyritized gray quartzite.	36.0	40.0	3.7												
33.0	34.5	Chips of gray quartzite.	40.0	41.5	1.1												
34.5	36.0	A few chips of pyritized quartzite; remainder ground core - probably ground quartzite	41.5	43.0	1.5												
			43.0	46.0	2.5												
36.0	40.0	A few chips of brecciated gray quartzite.	46.0	49.0	0.9												
40.0	41.5	4 chips of gray quartzite; remainder ground core.	49.0	50.0	0.1												
			50.0	52.0	1.3												
41.5	43.0	Mud - No core (Drillers Note).	52.0	53.0	0.2												
43.0	46.0	4 buttons of heavy pyritized quartzite.	53.0	56.0	2.3												
46.0	99.0	Brecciated and pyritized gray quartzite; the pyrite occurs as irregular stringers, patches and disseminations	56.0	57.0	0.0												
			57.0	60.0	2.6												
			60.0	62.0	1.5												
99.0	100.0	Ground core - probably gray quartzite.	62.0	66.0	2.2												
100.0	121.0	Similar to section from 46.0-99.0. At 114.0' there is a ½" band of pyrite about 45° to the core.	66.0	69.0	2.2												
			69.0	71.0	1.6												
			76.0	79.5	2.6												
121.0	126.0	Mud - No Core (Drillers Note).	79.5	80.5	0.5												
126.0	132.0	Gray brecciated quartzite - mainly broken buttons. Some small irregular patches and stringers 1/8" of pyrite from 126.0-130.0. The broken buttons have slickensided surfaces.	80.5	82.0	0.3												
			82.0	84.0	1.8												
			84.0	87.0	2.0												
			87.0	89.0	1.4												
132.0	135.2	No Core (Drillers Note).	89.0	89.5	0.0												
135.2	137.0	5 chips of gray brecciated quartzite. One chip shows specks of pyrite. Slicken edges on chips.	89.5	93.0	2.5												
			93.0	95.0	0.5												
			95.0	99.0	3.4												
137.0	144.0	No Core (Cavity - drillers note).	99.0	100.0	0.4												
144.0	149.0	Gray brecciated quartzite pyritized. Patches and disseminations is the manner of occurance of the pyrite. Few specks of resin colored ZnS at 147.0'.	100.0	103.0	2.2												
			103.0	106.0	2.1												
			106.0	108.0	1.5												
			108.0	109.5	1.4												
149.0	181.3	Gray brecciated quartzite with graphitic surfaces. Weakly disseminated pyrite. Occasional speck of ZnS between 150.0 and 151.0.	109.5	115.0	3.9												
			115.0	119.0	3.5												
			119.0	121.0	1.7												
181.3	183.8	Light gray graphitic quartzite. Rock has bleached appearance . At 182.0 there is a 1" massive pyrite stringer. Some of the pyrite stringers appear to make contact with the graphitic slips.	121.0	126.0	5.0												
			126.0	129.6	1.0												
			129.6	130.7	0.2												
			130.7	132.0	0.0												
			132.0	135.2	3.2												
183.8	200.7	Light gray quartzite brecciated but the brecciation is not as prominent as in the previous sections. A few graphitic slips and minor disseminated pyrite but no apparent stringers of pyrite.	135.2	137.0	1.5												
			137.0	144.0	7.0												
			144.0	149.0	3.1												
			149.0	153.0	1.6												
			153.0	156.9	3.3												
200.7	208.0	Gray brecciated quartzite. Brecciation is more prominent than the above section.	156.9	160.0	2.5												
			160.0	161.0	0.5												

BEARING | DIP | CORE RECOVERY | HOLE NO. 46 | SHEET NO. 2

PROPERTY McMillan Option | TOTAL LENGTH | VERT. | HORZ. | STARTED

DISTRICT Watson Lake, Y. T. | ELEVATION | OVERBURDEN | COMPLETED

CO-ORDINATES | PURPOSE | LOGGED BY | DATE

GEOLOGY			CORE RECOVERY			CORE SAMPLES								SLUDGE SAMPLES									
FOOTAGE		DESCRIPTION	FOOTAGE		SHORTS	SAMPLE #	FOOTAGE		WIDTH	ASSAYS				SAMPLE #	FOOTAGE		WIDTH	ASSAYS				RECOVERY	COLOR PLOT
FROM	TO		FROM	TO			FROM	TO							FROM	TO							
		Occasional speck of ZnS. From 200.0-208.0' some irregular patches, disseminations and stringers 1/8" of pyrite. Some graphitic slips were observed.	161.0	165.3	0.6																	
			165.3	170.0	2.7																	
			170.0	175.0	2.2																	
			175.0	176.5	1.5																	
208.0	210.6	Gray brecciated quartzite with only minor disseminated pyrite. At 209.0' some thin contorted green argillite partings.	176.5	181.3	3.7																	
			181.3	185.9	1.9																	
			185.9	190.5	3.3																	
210.6	212.0	Light gray brecciated quartzite, fairly well pyritised; somewhat irregular stringers 1/8" and more to the disseminated characteristic.	190.5	195.4	3.7																	
			195.4	200.7	4.3																	
			200.7	202.8	0.7																	
212.0	237.0	Light to mixed gray quartzite - brecciated. Some graphitic slips and an occasional irregular stringer and patch of pyrite. Stringers of pyrite measure 1/16" to 1/ 8".	202.8	208.0	4.2																	
			208.0	210.6	0.0																	
			210.6	212.4	0.0																	
			212.4	215.7	1.3																	
237.0	248.0	Buttons and chips of light gray quartzite with a narrow parting of olive green argillite. Sections is brecciated. From 242.0-247.0' a few chips of massive pyrite.	215.7	220.0	2.8																	
			220.0	225.0	4.0																	
			225.0	230.0	4.3																	
			230.0	235.2	5.0																	
248.0	249.0	Ground quartzite??	235.2	237.0	1.4																	
249.0	251.7	Gray brecciated quartzite with minor disseminated pyrite.	237.0	242.0	4.0																	
			242.0	247.3	5.0																	
251.7	257.7	Broken buttons and chips of dark gray quartzite, brecciated but not as well defined as section between 247.3-251.7'. Few buttons of white quartzite. Minor disseminated pyrite and a few chips of heavily disseminated pyrite at 255.8'. Part of core is ground	247.3	250.3	0.6																	
			250.3	251.7	1.3																	
			251.7	255.8	3.2																	
			255.8	257.7	1.5																	
			257.7	260.0	1.9																	
			260.0	265.0	4.1																	
			265.0	267.3	2.1																	
257.7	262.5	Broken buttons and chips of light grey quartzite somewhat mottled with dark gray quartzite.																				
262.5	265.0	Very dark gray quartzite brecciated and showing irregular fragments of pyrite 1/32" to 3/16". This section possibly a basic sill?																				
265.0	267.3	Few chips some of which are black argillite and the remaining chips are light gray quartzite. There is 1 chip ¼" of massive pyrite.																				

NOTE - There was no banding observed in the hole. END OF HOLE

Length of Hole - 267.3'
Overburden - 30.0'
Rock drilled - 237.3'
shorts - 161.4
Core Recovered - 75.9

RECOVERY - $\frac{75.9}{237.3} \times 100\% = 31.9\%$

SUMMARY OF HOLE - 1953 (started Sept. 9, 1953 - finished Sept. 14, 1953) 0.0 - 126.0' - Hole Cemented 98.0' to 121.0' (EX Casing only)
1954 (Started April 19, 1954)
(Finished May 6, 1954) 126.0' - 267.3' - Hole lost water at 120.0' and 201.0'
Hole caved from 207.0' - 230.0' (AX & EX casing used)
EX Casing broke at 165.0' and 207.0'. Hole abandoned at 267.3'
because broken EX casing (10') at 207' could not be recovered

BEARING — DIP -90° — CORE RECOVERY 30.7% — HOLE NO. 46 — SHEET NO. 1

PROPERTY McMillan Option — TOTAL LENGTH 126.0' — VERT. 126.0 — HORZ. — STARTED September 9, 1953

DISTRICT Watson Lake, Y. T. — ELEVATION 5h2.7' — OVERBURDEN 30.0 — COMPLETED September 1h, 1953

CO-ORDINATES 31 + 81 N; 5 + 10 W — PURPOSE To test conductor located by E.M. survey — LOGGED BY C. J. Coveney — DATE September 17, 1953.

GEOLOGY FOOTAGE FROM	GEOLOGY FOOTAGE TO	GEOLOGY DESCRIPTION	CORE RECOVERY FOOTAGE FROM	CORE RECOVERY FOOTAGE TO	CORE RECOVERY SHORTS
		Stand pipe 33.0'			
		RX Casing 95.0'			
		Hole cemented from 98.0' - 121.0'			
0.0	30.0	Overburden	30.0	31.0	0.1
30.0	33.0	Chopped, pyritized, gray quartzite.	31.0	33.0	0.2
33.0	3h.5	Chips of gray quartzite.	33.0	3h.5	0.9
3h.5	36.0	A few chips of pyritized quartzite - remainder ground core - probably ground quartzite.	3h.5	36.0	0.9
			36.0	h0.0	3.7
36.0	h0.0	A few chips of brecciated gray quartzite.	h0.0	h1.5	1.1
h0.0	h1.5	h chips of gray quartzite-remainder ground core.	h1.5	h3.0	1.5
			h3.0	h6.0	2.5
h1.5	h3.0	Mud-no core (drillers note)	h6.0	h9.0	0.9
h3.0	h6.0	h buttons heavy pyritized quartzite.	h9.0	50.0	0.1
h6.0	99.0	Brecciated and pyritized gray quartzite - the pyrite occurs as irregular stringers, patches and disseminations.	50.0	52.0	1.3
			52.0	53.0	0.2
			53.0	56.0	2.3
			56.0	57.0	0.0
			57.0	60.0	2.6
			60.0	62.0	1.5
			62.0	66.0	2.2
			66.0	69.0	2.2
			69.0	71.0	1.6
			71.0	76.0	h.0
			76.0	79.5	2.6
			79.5	80.5	0.5
			80.5	82.0	0.3
			82.0	8h.0	1.8
			8h.0	87.0	2.0
			87.0	89.0	1.h
			89.0	89.5	0.0
			89.5	93.0	2.5
			93.0	95.0	0.5
			95.0	99.0	3.h
99.0	100.0	Ground core-probably gray quartzite.	99.0	100.0	0.h
100.0	121.0	Similar to section from h6.0-99.0. At 11h.0' there is a 1/8" band of pyrite about 45° to the core.	100.0	103.0	2.2
			103.0	106.0	2.1
			106.0	108.0	1.5
121.0	126.0	Mud - no core.	108.0	109.5	1.h
			109.5	115.0	3.9
			115.0	119.0	3.5
			119.0	121.0	1.7
			121.0	126.0	5.0

END OF HOLE

Note - no banding observed in the core.

Length of hole	126.0'
Overburden	30.0'
Rock drilled	96.0'
Shorts	66.5'
Recovery	29.5'

RECOVERY $\frac{29.5}{96.0} \times 100 = 30.7\%$

CORE SAMPLES SAMPLE #	CORE SAMPLES FOOTAGE FROM	CORE SAMPLES FOOTAGE TO	CORE SAMPLES WIDTH	CORE SAMPLES ASSAYS	SLUDGE SAMPLES SAMPLE #	SLUDGE SAMPLES FOOTAGE FROM	SLUDGE SAMPLES FOOTAGE TO	SLUDGE SAMPLES WIDTH	SLUDGE SAMPLES ASSAYS	RECOVERY	COLOR PLOT

NOTE - Most of the buttons of brecciated quartzite have a graphitic or carbonaceous film on the broken surfaces.

(South Nahanni #4)

BEARING — DIP -90° — CORE RECOVERY 59.3% — D.D.H. NO. 47 — SHEET NO. 1

PROPERTY McMillan Option — TOTAL LENGTH 538.0' — VERT. 538.0' — HORZ. — STARTED Nov 9, 1954

DISTRICT Watson Lake, Y. T. — ELEVATION 3914.3' — OVERBURDEN 24.0'? — COMPLETED May 22, 1954

CO-ORDINATES 20 + 02 N & 5 + 40 W — PURPOSE To test an EM conductor and possible extension of ore zone northwesterly. — LOGGED BY C. Coveney & D. Olson — DATE May 31, 1954

GEOLOGY			CORE RECOVERY			CORE			SAMPLES		SLUDGE			SAMPLES		
FOOTAGE		DESCRIPTION	FOOTAGE		SHOTS	SAMPLE #	FOOTAGE		WIDTH	ASSAYS	SAMPLE #	FOOTAGE		WIDTH	ASSAYS	RECOVERY	COLOR PLOT
FROM	TO		FROM	TO			FROM	TO				FROM	TO				
0.0	47.0	Standpipe.	24.0	25.0	0.6												
0.0	66.0	EX casing.	25.0	26.0	0.7												
0.0	62.0	AX casing.	26.0	32.0	3.5												
0.0	24.0	Overburden?	32.0	37.0	3.2												
24.0	26.0	Light gray medium grained buttons and chips of quartzite.	37.0	40.0	1.8												
			40.0	45.0	3.3												
26.0	37.0	Light gray medium grained quartzite with particles and flakes of graphite (cuttings from chipping bit)	45.0	47.0	1.3												
			47.0	48.0	0.2												
			47.0	50.0	0.9												
37.0	40.0	Broken buttons and chips of light to dark gray quartzite showing graphitic slickensided surfaces. At 39.0' an irregular 1" stringer of pyrite trends 50° to the core.	50.0	54.0	3.0												
			54.0	57.0	2.3												
			57.0	62.0	3.3												
			62.0	63.0	0.0												
40.0	47.0	Cuttings from the chipping bit show a gray quartzite with particles and flakes of graphite.	63.0	65.0	0.4												
			65.0	67.0	0.2												
			67.0	69.0	1.5												
47.0	54.0	Light gray quartzite - fine to medium grained, with numerous prominent graphitic slickensides. At 49.0' an irregular 3/8" stringer of pyrite. Core is brecciated between 52.0 & 54.0'.	69.0	73.0	1.6												
			73.0	79.0	4.7												
			79.0	83.0	2.1												
			83.0	84.5	1.0												
54.0	68.0	Broken buttons and chips of light gray medium grained quartzite with graphitic slickensides on the broken surfaces. These slickensided surfaces are not quite as prominent as in the previous section. At 63.0' there is a 3" band of heavy disseminated pyrite and scattered pyrite throughout the section. Crude banding at 64.0' and 67.0' is 50° to core.	84.5	87.0	1.3												
			87.0	89.4	1.3												
			89.4	91.0	1.1												
			91.0	93.2	0.7												
			93.2	93.7	0.7												
			93.7	96.2	0.5												
			96.2	97.5	0.3												
			97.5	100.2	1.4												
68.0	83.0	Light gray quartzite with an occasional slickened graphitic surface. At 70.0' there is 4" of irregular stringery pyrite and at 72.5 a 1" button of white quartz. Between 72.0 and 83.0 the quartzite is massive and very fine grained. Banding obscure.	100.2	102.0	1.5												
			102.0	103.9	0.8												
			103.9	107.2	1.9												
			107.2	108.0	0.0												
			108.0	112.7	4.6												
			112.7	115.0	0.2												
83.0	85.0	Light gray quartzite similar to above section but with slightly more graphitic surfaces.	115.0	117.9	1.9												
			117.9	120.0	0.6												
85.0	91.0	Light gray quartzite with an occasional graphitic surface. Banding obscure. Quartzite is coarser in texture than the above section.	120.0	122.0	1.1												
			122.0	124.0	0.7												
			124.0	127.0	0.7												
91.0	92.0	Quartzite, light gray and has numerous graphitic slickensides on broken surfaces.	127.0	129.0	0.8												
			129.0	132.0	1.6												
92.0	96.2	Quartzite, light gray and fine grained with an occasional thin parting of graphite.															
96.2	97.0	Quartzite, dark gray, fine to medium grained with several graphitic slickensided surfaces.															
97.0	99.0	Quartzite, light gray with only an occasional graphitic slip.															
99.0	105.4	Quartzite, dark gray with thin partings of dark gray to black argillite & graphite. Last															

BEARING | DIP | CORE RECOVERY | HOLE NO. 47 | SHEET NO. 2

PROPERTY McMillan Option, Watson Lake, | TOTAL LENGTH | VERT. | HORZ. | STARTED

DISTRICT Yukon Territory. | ELEVATION | OVERBURDEN | COMPLETED

CO-ORDINATES | PURPOSE | LOGGED BY | DATE

GEOLOGY			CORE RECOVERY			CORE SAMPLES					SLUDGE SAMPLES					RECOVERY	COLOR PLOT
FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	FOOTAGE FROM	FOOTAGE TO	SHORTS	SAMPLE #	FOOTAGE FROM	FOOTAGE TO	WIDTH	ASSAYS	SAMPLE #	FOOTAGE FROM	FOOTAGE TO	WIDTH	ASSAYS		
		6" of the section is brecciated black argillite.	132.0	137.0	4.4												
			137.0	141.0	3.3												
105.4	132.0	Quartzite, light to dark gray with numerous thin, irregular partings of black argillite & graphite. Black argillite & quartzite is brecciated. At 123.7 a small irregular patch of pyrite. No banding observed.	141.0	144.0	1.1												
			144.0	146.0	0.1												
			146.0	147.6	0.8												
			147.6	149.4	0.2												
			149.4	152.9	0.7												
132.0	141.0	Quartzite, light to dark gray. Broken buttons.	152.9	156.6	1.9												
141.0	143.3	Black argillite with 2 thin partings of gray quartz.	156.6	157.9	0.1												
			157.9	161.0	0.7												
143.3	147.4	Quartzite, light gray, medium to fine grained with an occasional speck of pyrite at the end of the section.	161.0	162.7	0.7												
			162.7	166.2	3.2												
			166.2	168.4	2.0												
147.4	148.6	Quartzite, darker gray than the above section and with crude banding 35° to the core? Occasional speck of pyrite throughout the section.	168.4	169.9	1.2												
			169.9	171.0	0.0												
			171.0	173.0	0.7												
148.6	151.7	Quartzite, gray and similar to section ending 147.4'. At 150.0' 3-½" bands of white quartz 90° to core and a ¼" stringer 2" long parallel to the core.	173.0	174.5	0.3												
			174.5	178.0	1.2												
			178.0	183.0	2.9												
			183.0	188.0	3.9												
151.7	154.4	Mixed buttons and chips of black argillite and gray quartzite with an occasional graphitic slickenside.	188.0	193.0	3.0												
			193.0	196.0	0.7												
			196.0	201.0	0.4												
154.4	156.7	Quartzite, gray and medium grained with minor disseminated pyrite at end of section.	201.0	202.5	0.7												
			202.5	207.0	0.0												
156.7	157.4	Quartzite, dark gray with thin partings of graphite and black argillite. Possible banding at 157.0 is 75° to the core. Occasional speck of pyrite.	207.0	211.0	1.1												
			211.0	216.0	0.0												
			216.0	219.9	0.5												
			219.9	223.3	1.0												
157.4	172.0	Broken buttons and chips of black argillite with an occasional 1" to 3" button of light and dark gray quartzite. The argillite displays many irregular threadlike, siderite & quartz filled fractures. Good banding at 171.0 is 35° to the core.	223.3	226.0	0.9												
			226.0	228.5	0.3												
			228.5	232.0	0.2												
172.0	189.0	Mainly broken buttons and chips of light to dark gray quartzite with a few scattered chips and buttons of black argillite and an occasional graphitic slickenside. Minor brecciation between 172.0 & 173.0. Banding at 175.0 is 30° to core? Few irregular siderite-filled fractures.															
189.0	195.5	Mainly broken buttons and chips of black argillite with a few scattered buttons of gray quartzite. Vague banding at 191.0 is 80° to core? At 191.0 a few specks of siderite in quartzite chips. A few irregular graphitic slickensides.															
195.5	202.5	Quartzite, light gray and uniformly medium grained. (horizon marker?) with an occasional															

BEARING | DIP | CORE RECOVERY | HOLE NO. 47 | SHEET NO. 3

PROPERTY McMillan Option | TOTAL LENGTH | VERT. | HORZ. | STARTED

DISTRICT Watson Lake, Y.T. | ELEVATION | OVERBURDEN | COMPLETED

CO-ORDINATES | PURPOSE | LOGGED BY | DATE

GEOLOGY			CORE RECOVERY			CORE SAMPLES					SLUDGE SAMPLES					RECOVERY	COLOR PLOT
FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	FOOTAGE FROM	FOOTAGE TO	SHORTS	SAMPLE #	FOOTAGE FROM	FOOTAGE TO	WIDTH	ASSAYS	SAMPLE #	FOOTAGE FROM	FOOTAGE TO	WIDTH	ASSAYS		
		speck of pyrite & siderite at the end of section. Odd grains distinguishable.	232.0	234.7	0.3												
			234.7	238.0	1.9												
202.5	212.5	Argillite, gray to black, fractured and well banded. Brecciated at the beginning of the section. Fractures are filled with quartz & siderite. Good banding at 203.5 is 45° to core; at 204.0 - 60° to core; at 206.5 - 50° to core; at 209.5 - 45° to core and at 212.5 - 35° to core.	238.0	242.0	4.0												
			242.0	243.0	0.3												
			243.0	244.0	0.0												
			244.0	247.5	0.2												
			247.5	252.5	0.0												
			252.5	253.7	0.2												
			253.7	255.3	0.0												
212.5	220.3	Quartzite, light gray and fairly massive with a few irregular, threadlike quartz & siderite filled fractures. 218.1 - 218.4 black argillite chips. Occasional speck of pyrite around 214.5. Banding at 216.0 is 70° to core & at 220.0 it is 90° to core.	255.3	258.0	0.3												
			258.0	261.0	0.4												
			261.0	264.0	1.9												
			264.0	267.0	2.7												
			267.0	270.0	0.8												
			270.0	271.0	0.0												
220.3	226.5	Mainly broken buttons and chips of light gray quartzite and dark gray argillite. Minor brecciation and miniature drag folding and faulting at 220.7'. Several irregular threadlike quartz and siderite filled fractures in both the quartzite and argillite. 223.0 - 223.5 gray quartzite. Banding at 221.0 is 80° to core.	271.0	272.0	0.5												
			272.0	274.0	0.2												
			274.0	277.0	1.4												
226.5	232.0	Quartzite, gray with numerous irregular quartz and siderite filled fractures. First 2" of section is white quartz exhibiting specks of siderite. Banding at 229.5 is 50° to core.															
232.0	238.0	Mainly buttons and chips of black argillite with numerous irregular threadlike fractures filled with quartz and siderite. At 234.0 2" of brecciation. Banding obscure.															
238.0	242.0	No core (drillers note).															
242.0	256.7	Quartzite, light gray, medium grained and massive. An occasional threadlike fracture of quartz and siderite. Last 6" of section is brecciated. Vague banding at 252.6 is 85° to core. Good banding on an argillite button at 253.0 is 80° to core and at 254.0 - 85° to core. 246.5 to 247.0 suggests pebble grit. At 255.5 there is a suggestion that the sediments are overturned. (top of bed toward the bottom of the hole)?															
256.7	257.0	Quartzite, dark gray, with thin irregular partings of black argillite. Good banding at 257.0 is 70° to core.															
257.0	261.6	Quartzite, gray with an occasional interband of gray to black argillite. At 259.7 a 2" band of dark gray to black argillite 80° to															

BEARING | DIP | CORE RECOVERY | HOLE NO. 47 | SHEET NO. 4

PROPERTY McMillan Option | TOTAL LENGTH | VERT. | HORZ. | STARTED

DISTRICT Watson Lake, Y. T. | ELEVATION | OVERBURDEN | COMPLETED

CO-ORDINATES | PURPOSE | LOGGED BY | DATE

GEOLOGY			CORE RECOVERY			CORE SAMPLES					SLUDGE SAMPLES					RECOVERY	COLOR PLOT
FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	FOOTAGE FROM	FOOTAGE TO	SHOTS	SAMPLE #	FOOTAGE FROM	FOOTAGE TO	WIDTH	ASSAYS	SAMPLE #	FOOTAGE FROM	FOOTAGE TO	WIDTH	ASSAYS		
		the core. Some irregular threadlike siderite filled fractures.	277.0	280.0	0.5												
			280.0	285.0	3.2												
261.6	275.0	Mainly black argillite with mixed buttons of medium gray quartzite. Miniature faulting with irregular patches and stringers of siderite & quartz. Obscure banding at 275.0' is 85° to core.	285.0	286.2	0.1												
			286.2	287.2	0.1												
			287.2	290.2	2.0												
			290.2	292.0	0.5												
			292.0	294.2	0.0												
275.0	281.2	Quartzite, light gray, medium grained with an occasional irregular patch and threadlike stringer of siderite. Banding obscure.	294.2	299.0	1.9												
			299.0	302.0	0.2												
281.2	292.5	Mainly buttons & chips of gray to black argillite. Several 1/32" to 1/8" stringers or fractures of siderite and quartz.	302.0	305.0	0.1												
			305.0	308.0	0.8												
			308.0	313.0	1.0												
			313.0	317.0	1.5												
292.5	300.0	Argillaceous quartzite, dark gray with some evidence of brecciation. Banding at 293.0' is 70° to core; at 296.0 = 70° to core and at 301.5 = 70° to core.	317.0	321.0	2.0												
			321.0	322.0	0.8												
			322.0	327.0	1.2												
			327.0	328.0	0.0												
300.0	316.5	Broken buttons and chips of gray to black argillite with an occasional 2" button of gray quartzite.	328.0	332.0	3.0												
			332.0	334.0	0.3												
			334.0	335.2	0.0												
316.5	322.6	Quartzite, light gray and medium grained. Some irregular patches of white quartz at 318.0 and the quartzite is vuggy at 320.0'. The last 6" of the section exhibits 1/16" blue quartz "eyes".	335.2	340.5	2.3												
			340.5	343.3	1.1												
			343.3	345.2	0.5												
322.6	328.0	Mainly quartzite, medium gray and medium grained. 322.6 - 323.1 is gray argillaceous quartzite. 323.1 - 323.7 is black argillite. 323.7 - 325.0 dark gray argillaceous quartzite. 325.0 - 325.2 is black argillite. 325.2 - 328.0 is dark gray argillaceous quartzite. Banding is 60° to the core.															
328.0	332.0	Thin buttons and chips of dark gray to black argillite.															
332.0	344.2	Quartzite, light gray, massive and medium grained with an occasional graphitic slickenside. 334.0 - 335.0 is dark gray argillaceous quartzite. The beginning of the section shows a 1/8" band of pyrite and a 1" band of pyrite at the end of the section. At 338.2 there is a few chips of white quartz. Banding is obscure because of some brecciation. There is an occasional irregular threadlike siderite stringer while the last 6" of the section is vuggy.															
344.2	348.0	Argillite, dark gray to black, brecciated, and has a few irregular threadlike stringers siderite and quartz filled.															
		Between 345.4 and 345.8 there are some															

BEARING | DIP | CORE RECOVERY | HOLE NO. 47 | SHEET NO. 5

PROPERTY McMillan Option | TOTAL LENGTH | VERT. | HORZ. | STARTED | COMPLETED

DISTRICT Watson Lake, Y. T. | ELEVATION | OVERBURDEN | LOGGED BY | DATE

CO-ORDINATES | PURPOSE

GEOLOGY			CORE RECOVERY			CORE SAMPLES							SLUDGE SAMPLES							RECOVERY	COLOR PLOT
FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	FOOTAGE FROM	FOOTAGE TO	SHOTS	SAMPLE #	FOOTAGE FROM	FOOTAGE TO	WIDTH	ASSAYS				SAMPLE #	FOOTAGE FROM	FOOTAGE TO	WIDTH	ASSAYS					
		miniature drag folds. Banding obscure.	345.2	349.0	2.4																
348.0	380.3	Quartzite, light gray and medium grained.	349.0	352.0	1.7																
		Between 360.5 and 364.0 the quartzite has a	352.0	357.0	3.9																
		mottled appearance (grit)? 1½" of white quartz	357.0	360.0	1.8																
		at 357.0 and between 373.5 to 374.0. Also a	360.0	363.0	0.2																
		few chips at 374.5 and 376.0. A 1/8" irregular	363.0	366.5	0.8																
		stringer of pyrite at 361.0 while there is 6"	366.5	371.0	1.7																
		of vuggy core at 361.5. 3" of stringery	371.0	373.0	1.8																
		pyrite at 364.0. 3 buttons of black argillite	373.0	376.0	0.6																
		at 372.0 & 373.5'. An occasional speck of	376.0	376.5	0.0																
		siderite. Banding obscure.	376.5	381.0	0.0																
380.3	384.5	Mainly broken buttons & chips of light gray	381.0	386.2	0.2																
		quartzite and black argillite brecciated.	386.2	389.2	0.0																
		Minor amount of stringery pyrite at 381.0' &	389.2	394.5	0.0																
		381.5'. 380.3 - 381.3 is mainly quartzite	394.5	397.4	0.3																
		with thin irregular partings of black argillite.																			
		Some of the quartzite fragments are ½" in	397.4	401.8	0.4																
		diameter. (Fault zone)?	401.8	401.5	0.0																
384.5	404.0	Quartzite, light gray, medium grained. First	401.5	409.0	0.0																
		2" of section has 2 - ¼" stringers of pyrite.	409.0	411.0	0.9																
		At 385.4 and 386.5 there are 1" buttons of	411.0	416.0	0.1																
		brecciated black argillite. At 387.0 there is	416.0	419.3	1.3																
		a 1" band of white quartz 65° to the core.	419.3	424.0	3.8																
		Several irregular 1/8" to ¼" stringers and	424.0	426.0	0.0																
		patches of white quartz with specks of sid-	426.0	431.0	0.5																
		erite throughout the section. Banding at																			
		391.5 is 60° to the core.																			
404.0	405.0	Quartzite buttons showing graphitic slicken-																			
		sides.																			
405.0	406.0	Argillite, black and brecciated buttons.																			
406.0	408.0	Quartzite, gray with a few irregular patches																			
		and stringers of siderite. A few mixed but-																			
		tons of black argillite. An occasional gra-																			
		phitic slickenside. Banding obscure.																			
408.0	413.8	Argillite, dark gray to black with 1/8" length																			
		lenses of pyrite (eyes). Several threadlike																			
		irregular quartz and siderite filled fractures																			
		with an occasional graphitic slickenside.																			
		Banding at 410.0 is 55° to the core & at 413 -																			
		50° to the core.																			
413.8	423.9	Quartzite, light gray and medium grained. An																			
		occasional irregular ¼" to ½" patch of quartz																			
		and siderite. No banding observed.																			
423.9	425.4	Quartzite similar to previous section but																			
		darker in color. At 425.0 a 1" button with																			
		irregular patches of quartz and siderite.																			
		Vague banding at 425.4 is 60° to the core.																			
425.4	430.0	Quartzite, light gray & medium grained. 429.0																			
		to 430.0 is brecciated & shows irregular patches																			

BEARING | DIP | CORE RECOVERY | HOLE NO. 47 | SHEET NO. 6

PROPERTY McMillan Option | TOTAL LENGTH | VERT. | HORZ. | STARTED

DISTRICT Watson Lake, Y. T. | ELEVATION | OVERBURDEN | COMPLETED

CO-ORDINATES | PURPOSE | LOGGED BY | DATE

GEOLOGY			CORE RECOVERY			CORE SAMPLES						SLUDGE SAMPLES					RECOVERY	COLOR PLOT
FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	FOOTAGE FROM	FOOTAGE TO	SHORTS	SAMPLE #	FOOTAGE FROM	FOOTAGE TO	WIDTH	ASSAYS				SAMPLE #	FOOTAGE FROM	FOOTAGE TO	WIDTH	ASSAYS					
		of quartz & siderite. An occasional thin irregular parting of gray argillite. No banding.	431.0	434.0	1.2															
430.0	434.8	Broken buttons & chips of gray quartzite and black argillite brecciated. Occasional speck of siderite. 431.2 - 432.2 mud & grit. No banding observed.	434.8	438.2	2.9															
			438.2	443.5	3.9															
			443.5	449.5	1.5															
			449.5	453.2	0.0															
434.8	445.7	Broken buttons & chips of black argillite & an occasional chip of gray quartzite. Occasional speck of siderite in the quartzite buttons.	453.2	457.7	4.4															
			457.7	463.0	3.6															
			463.0	468.0	1.3															
			468.0	473.0	1.8															
445.7	449.0	Quartzite, dark gray, showing a few eyes of white quartz and an occasional 1/8" stringer of white quartz & siderite. 447.0 - 448.0' a few chips of black argillite. Good banding at 449.0 is 45° to the core.	473.0	478.0	2.7															
			478.0	483.2	1.7															
			483.2	485.5	0.9															
			485.5	487.3	0.3															
			487.3	490.7	0.0															
			490.7	493.9	0.0															
449.0	450.0	Broken buttons & chips of black argillite.	493.9	499.2	1.6															
450.0	451.4	Quartzite, dark gray with numerous criss crossing fractures filled with quartz & siderite. Minor brecciation. Crude banding 75° to the core.	499.2	502.0	0.9															
			502.0	507.0	0.3															
			507.0	511.8	2.1															
			511.8	515.0	2.9															
451.0	528.0	Buttons & chips of dark gray to black argillite with a greenish gray quartzite at the following footages: 2" button at 486; 488 to 488.7 & 2" at 489. Several random irregular patches & threadlike fractures filled with quartz & siderite. Miniature faulting & local brecciation acattered throughout the section somewhat obscures banding. However at 495 contorted banding generally parallels the core but fine linial lines (fracture cleavage)? superimposed upon the banding cut the core at 55°. Banding at 453.0 is 30° to core; at 465 excellent banding 35° to the core; rough banding at 482 is 45° to core; at 486 - 60° to the core; at 490 - 70° to the core; at 492 - 80° to core and good banding at 495 is 60° to core.	515.0	517.0	1.6															
			517.0	521.0	3.4															
			521.0	523.0	1.4															
			523.0	527.0	3.2															
			527.0	529.0	1.0															
			529.0	530.0	0.8															
			530.0	535.0	1.6															
			535.0	538.0	1.4															
528.0	538.0	Quartzite, dark gray with an occasional thin parting of dark gray argillite. Several irregular patches and threadlike stringers of quartz and siderite. 532.8 - 533.8 black argillite with a couple of buttons of gray quartzite. Vague banding at 534 is 45° to the core and at 536 is 70° to the core.																		
		END OF HOLE																		

BEARING | DIP | CORE RECOVERY | HOLE NO. 47 | SHEET NO. 7

PROPERTY McMillan Option | TOTAL LENGTH | VERT. | HORZ. | STARTED

DISTRICT Watson Lake, Y. T. | ELEVATION | OVERBURDEN | COMPLETED

CO-ORDINATES | PURPOSE | LOGGED BY | DATE

GEOLOGY			CORE RECOVERY			CORE				SAMPLES		SLUDGE			SAMPLES			RECOVERY	COLOR PLOT
FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	FOOTAGE FROM	FOOTAGE TO	SHORTS	SAMPLE #	FOOTAGE FROM	FOOTAGE TO	WIDTH	ASSAYS		SAMPLE #	FOOTAGE FROM	FOOTAGE TO	WIDTH	ASSAYS			
		Length of Hole 538.0' Overburden 27.0' Rock drilled 511.0' shorts 209.0' Core recovered 305.0' Recovery $\frac{305}{511}$ x 100% = 59.3% Remarks Hole 47 core recovery good in quartzitic sections. Unable to distinguish tops and bottoms of beds by grain size because of uncertainty of definite beds.																	

(South Nahanni #3) PROPERTY McMillan Option | BEARING | DIP - 90° | CORE RECOVERY 45.0% | HOLE NO. 48 | PAGE 1

DISTRICT Watson Lake, Y. T. | TOTAL LENGTH 352.0' | VERT. 352.0' | HORZ. | STARTED May 24, 1954

CO-ORDINATES 25 + 08 N & 3 + 40 E | ELEVATION 427.7' | OVERBURDEN 26.0' | COMPLETED May 30, 1954

PURPOSE To test an EM conductor and a possible northeast extension of the known ore zone | LOGGED BY C. Coveney & D. Olson | DATE June 2, 1954

GEOLOGY			CORE RECOVERY			CORE SAMPLES					SLUDGE SAMPLES						
FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	FOOTAGE FROM	FOOTAGE TO	SHOTS	SAMPLE #	FOOTAGE FROM	FOOTAGE TO	WIDTH	ASSAYS	SAMPLE #	FOOTAGE FROM	FOOTAGE TO	WIDTH	ASSAYS	RECOVERY	COLOR PLOT
0.0	26.0	2½" Pipe.	26.0	28.5	1.0												
0.0	62.0	AX Casing.	28.5	29.7	0.0												
0.0	65.0	EX Casing.	29.7	31.0	0.9												
0.0	26.0	Overburden.	31.0	33.0	0.5												
26.0	38.5	Argillite, pink to purple, mainly purple. Banding at 27.0' about 10° to the core.	33.3	38.5	4.4												
			38.5	40.0	0.4												
38.5	40.0	White quartz with a ½" irregular patch of pyrite at the start of the section.	40.0	42.0	0.9												
			42.0	43.7	0.0												
40.0	42.0	Broken buttons of greenish gray argillite. Banding at 41.5 is 40° to the core.	43.7	46.9	0.1												
			46.9	50.5	0.0												
42.0	42.8	White quartz.	50.5	53.2	1.2												
42.8	45.2	Argillite, grayish green. Banding is somewhat contorted but approximately 15° to the core. At 44.2 an irregular patch of purple argillite.	53.0	55.5	2.5												
			55.5	56.4	0.3												
			56.4	58.0	0.7												
			58.0	59.6	0.7												
45.2	48.0	White quartz. 46.7 - 46.9 chips of grayish green argillite.	59.6	63.9	3.5												
			63.9	66.2	1.1												
48.0	49.0	Argillite, grayish green.	66.2	69.0	0.4												
49.0	50.5	White quartz.	69.0	73.9	3.0												
50.5	53.0	Argillite grayish green. At 51.0' banding is 35° to the core	73.9	76.3	0.2												
			76.3	79.0	0.5												
53.0	55.5	No core (drillers note).	79.0	83.5	1.9												
55.5	63.9	Broken buttons of pink argillite and a few buttons of greenish gray argillite.	83.5	87.9	0.7												
			87.9	90.6	1.0												
63.9	66.0	Argillite, greenish gray. Slight amount of brecciation.	90.6	95.6	0.3												
			95.6	98.0	1.6												
66.0	69.0	Argillite, purple. Contorted banding at 66.4 approximately 45° to the core.	98.0	101.0	1.6												
			101.0	106.0	5.0												
69.0	73.9	Argillite, cream colored and very dense. At 69.5 banding is rythmic and parallel to the core.	106.0	108.0	1.7												
			108.0	111.0	2.5												
			111.0	114.0	3.0												
			114.0	115.0	0.5												
73.9	83.5	Argillite, pink. At 75.5 banding is 70° to core.	115.0	119.0	2.9												
			119.0	121.0	1.1												
83.5	84.5	Argillite, cream colored and dense. Banding 40° to core.	121.0	123.2	1.4												
			123.2	126.5	2.6												
84.5	87.0	Argillite, pink generally well banded and at 84.5 banding is 45° to core. At 87.0' banding is 45° to the core. Minute specks of pyrite are scattered throughout the section.	126.5	129.5	3.0												
			129.5	131.0	0.4												
			131.0	133.4	1.7												
			133.4	136.4	2.4												
87.0	90.6	Argillite, purple. Indistinct banding at 90.0' is 55° to core.	136.4	138.2	1.2												
			138.2	140.5	2.0												
90.6	95.6	Argillite, pink, with 8" of greyish green banded argillite from 91.0 to 91.6. Crude banding at 91.0' is 55° to core. Very minute specks of pyrite.	140.5	145.0	4.0												
			145.0	150.0	3.9												
			150.0	155.7	5.7												
95.6	98.0	Argillite, greenish gray. Broken buttons.	155.7	157.9	1.4												
98.0	101.0	Mainly gray quartzite with some chips of pink argillite. At 100.0' there is 3" of coarse massive pyrite with some siderite.															

BEARING | DIP | CORE RECOVERY | HOLE NO. L8 | SHEET NO. 2

PROPERTY McMillan Option | TOTAL LENGTH | VERT. | HORZ. | STARTED

DISTRICT Watson Lake, Y. T. | ELEVATION | OVERBURDEN | COMPLETED

CO-ORDINATES | PURPOSE | LOGGED BY | DATE

GEOLOGY			CORE RECOVERY			CORE SAMPLES						SLUDGE SAMPLES						RECOVERY	COLOR PLOT
FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	FOOTAGE FROM	FOOTAGE TO	SHOTS	SAMPLE #	FOOTAGE FROM	FOOTAGE TO	WIDTH	ASSAYS			SAMPLE #	FOOTAGE FROM	FOOTAGE TO	WIDTH	ASSAYS				
101.0	106.0	No core (drillers note).	157.9	162.8	4.9														
106.0	111.0	Chips of pink argillite.	162.8	165.2	0.9														
111.0	114.0	No core (drillers note).	165.2	168.0	1.6														
114.0	126.5	Mainly chips of pink argillite with some greenish gray chips of argillite. Few quartzite (?) chips of gray quartzite at 120.0'.	168.0	173.1	3.6														
			173.1	177.0	3.6														
			177.0	181.0	3.4														
			181.0	184.0	2.5														
126.5	129.5	No core (drillers note).	184.9	184.5	0.0														
129.5	133.5	Buttons and chips of purple argillite.	189.5	190.0	3.1														
133.5	138.2	Argillite, greenish gray. An 1" button of gray quartzite.	190.0	192.0	1.6														
			192.0	197.0	0.0														
138.2	150.0	Mixed chips of greenish gray and pink argillite.	197.0	199.8	2.3														
			199.8	201.4	0.9														
150.0	155.7	No core (drillers note).	201.4	204.7	1.1														
155.7	162.8	Mainly chips of gray quartzite. One chip at 162.8 shows banding 80° to core.	204.7	205.7	0.3														
			205.7	209.9	0.1														
162.8	165.2	Mainly chips of pink argillite with an occasional chip of light pink quartzite. Banding at 164.0' is 45° to core.	209.9	211.3	0.0														
			211.3	213.2	0.3														
			213.2	215.5	1.6														
> 165.2	177.0	Chips of broken buttons of pinkish quartzite. At 165.2 there is a 1/8" stringer of PbS and ZnS about 15° to the core.	215.5	216.7	0.6														
			216.7	221.0	3.2														
			221.0	222.0	0.0														
			222.0	227.2	4.6														
177.0	193.2	Broken buttons of pinkish gray argillite. Banding at 185.0' is vague but 45° to core. At 190.0' 2 buttons of gray quartzite.																	
193.2	195.0	Greenish argillite. Banding at 194.0' is 60° to core.																	
> 195.0	201.4	Quartzite, gray, with ¼" stringer of PbS and ZnS at 196.0'. 196.5 to 197.0' broken greenish gray argillite. Banding at 200' is 15° to core.																	
201.4	204.0	Greenish argillite. Banding at 203.5 is 40° to core.																	
> 204.0	205.4	Pinkish quartzite slickensided at the start of the section. A ¼" stringer of PbS and ZnS about 25° to core at the start of the section.																	
> 205.4	221.0	Pink tinted argillite. At 207.0' banding 20° to core. Minute drag folds at 210.5' and banding 25° to the core. 207.3 - 208.3 purple argillite; 210.4 - 211.4 purple argillite. At 215.9 1/16" featherlike fracture of PbS.																	
> 221.0	227.2	Gray and pinkish quartzite chips with a few chips of pink argillite at 221.0'. 2 buttons show some thin feathery fractures ZnS filled 1/32" to 1/16" width.																	
227.2	242.9	Broken chips of dark gray quartzite with some chips of gray argillite 230 - 237. At 242.9'																	

BEARING | DIP | CORE RECOVERY | HOLE NO. 18 | SHEET NO. 3

PROPERTY McMillan Option | TOTAL LENGTH | VERT. | HORZ. | STARTED

DISTRICT Watson Lake, Y. T. | ELEVATION | OVERBURDEN | COMPLETED

CO-ORDINATES | PURPOSE | LOGGED BY | DATE

GEOLOGY			CORE RECOVERY			CORE				SAMPLES					SLUDGE				SAMPLES					
FOOTAGE		DESCRIPTION	FOOTAGE		SHORTS	SAMPLE #	FOOTAGE		WIDTH	ASSAYS					SAMPLE #	FOOTAGE		WIDTH	ASSAYS				RECOVERY	COLOR PLOT
FROM	TO		FROM	TO			FROM	TO								FROM	TO							
		1 chip with 1/16" fracture of ZnS and at	227.3	229.5	1.9																			
		232.0' a ½" button of thin stringery pyrite.	229.5	231.9	1.3																			
242.9	248.7	No core (drillers note).	231.9	237.0	4.1																			
248.7	272.2	Buttons of dark gray quartzite with thin dark	237.0	242.9	5.2																			
		gray argillite partings and where broken have	242.9	245.7	2.3																			
		slickensided surfaces. At 263.5 and 268.0'	245.7	250.0	1.1																			
		some stringery pyrite.	250.0	253.0	2.4																			
272.2	276.0	Broken buttons of dark to black argillite.	253.0	257.0	3.4																			
276.0	321.0	Dark gray quartzite with thin bands and part-	257.0	259.0	1.2																			
		ings of dark gray to black argillite.	259.0	263.0	3.6																			
		Brecciated 288.0 - 295.0' and slickensided	263.0	266.0	1.9																			
		surfaces. The concentration of partings and	266.0	268.0	1.5																			
		bands and irregular patches of black argillite	268.0	269.2	0.6																			
		gives the rock a darker appearance in cont-	269.2	272.2	2.3																			
		rast to the normal light gray of the quartzite	272.2	275.3	1.4																			
		Few scattered 1/8" stringers and irregular	275.3	277.5	1.2																			
		patches and disseminations of pyrite in the	277.5	282.7	0.2																			
		section.	282.7	285.6	1.9																			
321.0	331.9	Light gray quartzite with thin partings and	285.6	288.3	1.3																			
		patches of black brecciated argillite. 1½"	288.3	293.5	3.8																			
		of stringery pyrite at 330.4'. Slickensides	293.5	298.5	1.0																			
		on black argillite surfaces.	298.5	303.5	3.1																			
331.9	333.9	No core (drillers note).	303.5	306.5	1.2																			
333.9	336.6	Similar to section 321.0 - 331.9.	306.5	311.5	2.1																			
336.6	339.7	Gray quartzite with minor black argillite	311.5	316.5	1.3																			
		partings. No banding.	316.5	320.2	1.5																			
339.7	351.0	Grading from the above section into black	320.2	322.5	0.0																			
		argillite.	322.5	326.0	0.7																			
351.0	352.0	Light gray quartzite with minor brecciation	326.0	331.9	2.2																			
		at the start of the section.	331.9	333.9	2.0																			
			333.9	336.6	0.2																			
		END OF HOLE	336.6	341.7	0.0																			

Length of Hole 352.0'
Overburden 26.0'
Rock drilled 326.0'
shorts 179.3'
Core Recovered 146.7'

Core Recovery - $\frac{146.7}{326.0} \times 100\% = 45.0\%$

BEARING — DIP - 90° — CORE RECOVERY 42.4% — HOLE NO. 49 — SHEET NO. 3

PROPERTY McMillan Option — TOTAL LENGTH 352.0' — VERT. 352.0' — HORZ. — STARTED ~~June 15, 1954~~

DISTRICT Watson Lake, Y. T. — ELEVATION 521.1' — OVERBURDEN 156.0' — COMPLETED June 15, 1954

CO-ORDINATES 20 + 78 N & 4 + 05 E — PURPOSE To test electromagnetic data and a northeastward extension of the known ore zone. — LOGGED BY C. Coveney & D. Olson — DATE June 16, 1954.

GEOLOGY			CORE RECOVERY			CORE SAMPLES								SLUDGE SAMPLES									
FOOTAGE			FOOTAGE		SHOTS	SAMPLE #	FOOTAGE		WIDTH	ASSAYS				SAMPLE #	FOOTAGE		WIDTH	ASSAYS				RECOVERY	COLOR PLOT
FROM	TO	DESCRIPTION	FROM	TO			FROM	TO							FROM	TO							
0.0	156.0	2" pipe.	156.0	159.0	2.5																		
0.0	231.0	EX casing.	159.0	161.2	1.6																		
0.0	156.0	Overburden.	161.2	162.5	0.7																		
156.0	166.5	Broken chips and buttons of purple argillite. At 161.3 banding 45° to core.	162.5	164.0	0.7																		
			164.0	166.0	1.3																		
166.5	167.0	Mud seam (drillers note).	166.0	166.5	0.0																		
167.0	195.6	Interbanded pink and greenish gray argillite. Banding 80 - 85° to core.	166.5	167.0	0.3																		
			167.0	170.9	3.0																		
195.6	198.5	Mainly chips of gray quartzite with a few chips of greenish gray argillite.	170.9	173.9	2.3																		
			173.9	176.5	1.6																		
198.5	231.7	Gray fine grained quartzite. 3" botton white quartz at start of section. At 216.0 there is a 6" band of dark gray and greenish gray argillite interbanded 65° to core; at 218.0 one or two chips of gray quartzite with disseminated ZnS.	176.5	178.0	0.9																		
			178.0	135.5	7.0																		
			185.5	190.5	3.3																		
			190.5	193.0	1.3																		
			193.0	195.6	1.4																		
			195.6	198.5	2.0																		
231.7	257.2	Argillite, pale olive green with patchy dark gray argillite. Banding at 239.5 is 35° to core.	198.5	203.7	4.3																		
			203.7	208.8	4.8																		
			208.8	213.6	3.8																		
		No Core 236.8 - 239.2.	213.6	218.5	3.8																		
257.2	272.0	Broken buttons of gray quartzite. Vague banding 264.5 is 60° to core. Between 261.0 - 262.0 some white quartz buttons. Around 267.0 a few white quartz buttons.	218.5	221.2	2.7																		
			221.2	222.8	0.9																		
			222.8	227.6	2.4																		
			227.6	231.7	3.8																		
272.0	275.0	Broken buttons of gray argillite; at 277.5 banding 65° to core.	231.7	234.2	0.6																		
			234.2	235.2	0.1																		
275.0	277.6	Mixed broken buttons of gray argillite and quartzite. Buttons mainly argillite.	235.2	236.8	0.3																		
			236.8	239.2	2.4																		
277.6	305.0	Gray argillite with pale olive green argillite in shreds, irregular patches and thin bands. Banding at 280.0 is 50° to core, at 289.5 is 60° to core. At 291.5 some convolutions of banding (soft rock structure). Banding at 295.5 is 45° to core and at 304.0 is 50° to core.	239.2	242.3	0.7																		
			242.3	247.0	2.6																		
			247.0	251.5	3.5																		
			251.5	252.6	0.8																		
			252.6	257.2	2.7																		
			257.2	261.0	2.3																		
			261.0	264.4	1.3																		
305.0	321.1	Grades from the above with a few buttons of greyish argillite at the start of the section into broken buttons and chips of gray quartzite.	264.4	267.0	2.0																		
			267.0	269.4	1.9																		
			269.4	272.0	1.9																		
			272.0	275.0	1.4																		
321.1	325.9	Mud seam (drillers note).	275.0	277.6	1.3																		
325.9	329.0	Broken buttons of gray quartzite. A few of the buttons exhibit minor PbS and ZnS.	277.6	279.3	1.0																		
			279.3	281.0	0.4																		
329.0	334.7	Broken chips of pale olive green argillite.	281.0	283.2	0.9																		
334.7	336.4	Dark gray quartzite somewhat brecciated.	283.2	285.3	1.1																		
336.4	339.5	Gray quartzite, fine grained. 2" of coarse stringery pyrite at 337.0.	285.3	287.4	1.4																		
			287.4	289.2	0.0																		
339.5	342.0	Mainly buttons of black argillite with two bottons of gray quartzite.	289.2	293.8	0.0																		
			293.8	296.2	0.0																		

BEARING | DIP | CORE RECOVERY | HOLE NO. 49 | SHEET NO. 2

PROPERTY McMillan Option, | TOTAL LENGTH | VERT. | HORZ. | STARTED

DISTRICT Watson Lake, Y. T. | ELEVATION | OVERBURDEN | COMPLETED

CO-ORDINATES | PURPOSE | LOGGED BY | DATE

GEOLOGY			CORE RECOVERY			CORE SAMPLES								SLUDGE SAMPLES									
FOOTAGE			FOOTAGE		SHO	SAMP-	FOOTAGE		WI-	ASSAYS				SAMP	FOOTAGE		WI-	ASSAYS				RECO	COLOR
FROM	TO	DESCRIPTION	FROM	TO	RTS	LE #	FROM	TO	DTH					LE #	FROM	TO	DTH					VERY	PLOT
342.0	352.0	Dark gray argillaceous quartzite with black argillite partings from start of section to 347.0 and also from 351.0 - 352.0. Some stringery pyrite at 345.0. Banding at 348.0 is 65° to core.	296.2	297.0	0.0																		
			297.0	301.7	1.7																		
			301.7	305.4	0.3																		
			305.4	310.7	3.7																		
			310.7	315.0	2.1																		
			315.0	317.8	1.8																		
			317.8	321.1	1.1																		
			321.1	325.9	4.8																		
			325.9	329.7	2.0																		
			329.7	334.8	4.1																		
			334.8	337.8	1.1																		
			337.8	339.5	0.2																		
			339.5	342.8	0.8																		
			342.8	344.8	1.1																		
			344.8	347.5	0.5																		
			347.5	352.0	0.6																		

END OF HOLE

Length of hole	352.0'
Overburden	156.0'
Rock drilled	196.0'
Shorts	112.9'
Core recovered	83.1'

% Recovery $\frac{83.1}{196.0}$ x 100% = 42.4%

SUMMARY OF HOLE

2½" pipe driven to 143' and AX casing to 140'. EX casing was drilled to 153' and the pipe was found to be bent causing the EX casing and rods to break so the hole was unable to continue. Pipe broke and 55' of 2½" pipe was not recovered. Drill was moved 2 feet west and another hole drilled. Piping was done with 2" pipe and when hole was completed pipe broke and drillers were unable to recover 100' of 2" pipe.

(South Nahanni #49)

BEARING | DIP - 90° | CORE RECOVERY 60.6% | HOLE NO. 50 | SHEET NO. 1

PROPERTY McMillan Option | TOTAL LENGTH 219.0' | VERT. 219.0' | HORZ. | STARTED June 8, 1954

DISTRICT Watson Lake, Y.T. | ELEVATION 617.6' | OVERBURDEN 21.0' | COMPLETED June 15, 1954

CO-ORDINATES | PURPOSE To test the electromagnetic conductor south of known mineralization. | LOGGED BY C. Coveney & D. Olson | DATE June 16, 1954

GEOLOGY FOOTAGE FROM	TO	DESCRIPTION	CORE RECOVERY FOOTAGE FROM	TO	SHORTS	CORE SAMPLES SAMPLE #	FOOTAGE FROM	TO	WIDTH	ASSAYS				SLUDGE SAMPLES SAMPLE #	FOOTAGE FROM	TO	WIDTH	ASSAYS				RECOVERY	COLOR PLOT
0.0	21.0	2½" pipe.	21.0	26.5	0.2																	
0.0	72.0	AX casing.	26.5	32.0	0.0																	
0.0	122.0	EX casing.	32.0	35.0	0.0																	
0.0	21.0	Overburden	35.0	39.2	0.0																	
21.0	59.5	Quartzite, light gray, dense and fine grained with scattered flecks of very fine grained pyrite sparsely distributed throughout the section. 2 inches of well defined brecciation at 27.5'. 6" of brecciation at 37.3'. 4" of white quartz at 34.8'; at 44.5' and at 54.5'. No visible banding.	39.2	42.2	0.0																	
			42.2	45.0	0.0																	
			45.0	48.0	0.4																	
			48.0	49.5	0.0																	
			49.5	51.2	0.0																	
			51.2	53.8	0.2																	
			53.8	59.5	1.7																	
59.5	68.0	Broken buttons of mainly pinkish gray argillite and a few buttons of quartzite. One quartzite button shows good brecciation.	59.5	62.0	1.7																	
			62.0	64.0	0.8																	
			64.0	68.0	2.7																	
68.0	76.0	Broken buttons of light gray quartzite. One of the buttons shows thin partings of green and gray argillite.	68.0	71.0	2.8																	
			71.0	76.0	4.0																	
			76.0	79.0	2.2																	
76.0	79.0	Similar to section above but with increase in argillite partings. Rough banding about 40° to core.	79.0	81.0	1.6																	
			81.0	85.0	2.2																	
			85.0	89.0	2.8																	
79.0	81.0	Broken buttons of light gray quartzite. No banding.	89.0	91.0	0.2																	
			91.0	94.0	1.7																	
81.0	81.5	Broken buttons of gray quartzite with partings of grayish green argillite.	94.0	97.0	0.0																	
			97.0	101.0	2.8																	
81.5	85.0	Broken buttons of light gray quartzite.																				
85.0	91.5	Broken buttons and chips of medium gray to dark gray quartzite. At 89.5 some dark gray argillite partings. At 87.0 there is 4" of white quartz and at 90.5 also a few buttons of white quartz. At start of section a 1" button of brecciated quartzite showing some fine stringery ZnS and PbS. 3" of irregular stringery pyrite at 90.0'. A few specks of PbS at 88.5'.	101.0	103.2	0.0																	
			103.2	105.0	0.4																	
			105.0	108.0	0.4																	
			108.0	111.5	1.6																	
91.5	96.0	Limestone, blue gray with criss-crossing veinlets of calcite and some argillite partings that appear to be 35° to core?																				
96.0	101.0	Dolomitized limestone, blue-gray, dense and fine grained with irregular calcite veinlets towards the end of section.																				
101.0	102.0	Dolomitized limestone, blue-gray, with xx a disseminated speck of tetrahedrite and pyrite and some calcite veinlets.				7399	101.0	105.0	4.0		Tr	Tr	Tr									Rec 86.6%
						7400	105.0	110.0	5.0		1.3	0.1	4.9									± 75.0 %
102.0	105.0	Similar to above with a considerable amount of calcite and quartz buttons probably representing veinlets.																				
105.0	110.0	Dolomitized limestone, blue-gray, fine-grained with crude banding at 107.5 about 60° to core																				

PROPERTY | BEARING | DIP | CORE RECOVERY | HOLE NO. 50 | SHEET NO. 2

DISTRICT | TOTAL LENGTH | VERT. | HORZ. | STARTED

CO-ORDINATES | ELEVATION | OVERBURDEN | COMPLETED

PURPOSE | LOGGED BY

DATE

GEOLOGY			CORE RECOVERY			CORE			SAMPLES				SLUDGE				SAMPLES					
FOOTAGE			FOOTAGE		SHOTS	SAMPLE #	FOOTAGE		WIDTH	ASSAYS				SAMPLE #	FOOTAGE		WIDTH	ASSAYS				RECOVERY	COLOR PLOT
FROM	TO	DESCRIPTION	FROM	TO			FROM	TO		Ag	Pb	Zn	%		FROM	TO							
		ZnS with some PbS occurs as disseminations & irregular patches throughout the section. Fair amount of siderite between 106.0 and 108	111.5	113.0	0.0								Rec.									
			113.0	115.0	0.0																	
			115.0	117.5	0.2																	
110.0	115.5	Dolomitized limestone, blue-gray with minor ZnS and pyrite and considerable amount of criss-crossing veinlets of quartz and (calcite? Possible jamesonite as thin needles.	117.5	120.5	0.9																	
			120.5	125.0	3.3																	
			125.0	127.0	0.1	5801	110.0	113.0	3.0	0.2	Tr	0.8	75%									
			127.0	131.5	1.3					0.7												
115.5	119.5	Dolomitized limestone, blue-gray with massive pyrite and visible tetrahedrite and possibly Zns. An occasional graphitic slickenside.				5802	113.0	115.5	2.5		Tr	Tr	63.3%									
						5803	115.5	119.5	4.0	0.4	0.8	Tr	63.3%									
119.5	125.0	Quartzite, light gray with pale olive green irregular argillite partings to 124.5. Last 6" is gray quartzite.				5804	119.5	125.0	5.5	Tr	Tr	Tr	63.3%									
125.0	130.5	Brecciated gray quartzite and broken surfaces showing graphitic slickensides. 3" of pyrite at 125.0; ½" at 127.0 and 1½" at 130.5'. Each of these sections show visible ZnS and a black metallic mineral that may possibly be jamesonite or boulangerite probably tetrahedrite.				5805	125.0	130.5	5.5	0.2	Tr	0.1	45.5%									
			131.5	134.0	0.4	5806	130.5	134.0	3.5	0.8	Tr	Tr	45.5%									
130.5	131.5	Gray Quartzite.	134.0	136.0	0.8																	
131.5	143.5	Dolomitized and silicified limestone which effervesces with cold dilute Hcl (6%) on scratched surfaces. Also flakes and irregular thin partings dark argillite scattered throughout the section. Between 134.0 - 136.0 some feathery quartz and calcite filled fractures. At 133.0' - 3" of massive pyrite.	136.0	138.5	1.2	5807	134.0	138.5	4.5	Tr	Tr	Tr	55.6%									
			138.5	143.5	0.5	5808	138.5	143.5	5.0	0.4	Tr	Tr	90.0%									
			143.5	145.5	1.3																	
			145.5	147.5	1.4																	
			147.5	150.0	1.7																	
			150.0	152.7	0.0																	
			152.7	155.4	2.5	5809	143.5	149.5	6.0	Tr	Tr	0.3	42.0%									
143.5	147.5	Quartzite, light gray and brecciated with vissible jamesonite or boulangerite? Last 6" of section is white quartzite with a feathery fracture of ZnS 15° to core.	155.4	160.0	3.5																	
			160.0	163.0	2.2																	
			163.0	167.0	2.8																	
			167.0	169.0	1.6																	
147.5	149.5	Broken buttons of pink tinted quartzite. Buttons show thin partings of olive green argillite.	169.0	171.0	1.2																	
			171.0	176.0	0.0																	
			176.0	177.0	0.2																	
149.5	155.4	Light quartzite heavily replaced with massive fine grained pyrite. Some tetrahedrite scattered throughout the section.	177.0	182.0	0.7	5810	149.5	155.4	5.9	Tr	0.2	Tr	42.0%									
155.4	163.0	Brecciated gray quartzite with minor pyrite somewhat stringery and patchy.				5811	155.4	163.0	7.6	Tr	Tr	Tr	25.0%									
163.0	178.0	Brecciated light gray quartzite with thin irregular feathery black argillite partings. A few scattered feathery stringers of pyrite.																				
178.0	183.5	Well defined light gray brecciated quartzite with thin irregular black argillite patches and partings which on the broken surfaces are somewhat slickensided (Fault Zone?)	182.0	183.5	0.4																	
			183.5	188.0	0.0																	
			188.0	193.5	0.5																	
			193.5	197.5	1.5																	
183.5	188.0	Light gray somewhat brecciated quartzite. At 184.5 a 1/8" irregular zinc-filled fracture.	197.5	202.0	3.8	5812	180.0	183.5	3.5	Tr	Tr	Tr	80.0%									
			202.0	207.0	4.5																	

BEARING | DIP | CORE RECOVERY | HOLE NO. 50 | SHEET NO 3

PROPERTY | TOTAL LENGTH | VERT. | HORZ. | STARTED

DISTRICT | ELEVATION | OVERBURDEN | COMPLETED

CO-ORDINATES | PURPOSE | LOGGED BY | DATE

GEOLOGY			CORE RECOVERY			CORE				SAMPLES				SLUDGE				SAMPLES					
FOOTAGE			FOOTAGE		SHO	SAMP-	FOOTAGE		WI-	ASSAYS				SAMP	FOOTAGE		WI-	ASSAYS				RECO	COLOR
FROM	TO	DESCRIPTION	FROM	TO	RTS	LE #	FROM	TO	DTH		Ag	Pb	Zn	LE #	FROM	TO	DTH					VERY	PLOT
		At 186.0 there is 3" of massive tetrahedrite and coarse pyrite. 1/8" to 1/4" irregular stringers of pyrite scattered throughout the section.				5813	183.5	188.0	4.5		14.5	0.9	tr	%	% Recovery								
188.0	193.0	Light gray quartzite similar to the above section but without any visible jamesonite or boulangerite. Slight increase in the amount of stringery pyrite.				5814	188.0	190.0	2.0		0.3	tr	tr	100	90.0 %								
193.0	193.8	Well defined brecciated gray quartzite. (Fault Zone)?																					
193.8	202.0	Light gray quartzite somewhat brecciated and with stringery pyrite. At start of section there is about 12 broken chips 1/4" to 1/2" of massive ZnS.																					
202.0	207.0	Cave (drillers note) only a few chips of gray quartzite recovered.																					
207.0	219.0	Quartzite, light gray .	207.0	212.0	4.4																		
			212.0	217.0	4.2																		
			217.0	219.0	1.0																		

END OF HOLE

Length of hole	219.0'
Overburden	21.0'
Rock drilled	198.0'
shorts	78.5'
Core recovered	119.5'

Recovery $\frac{119.5}{198.0} \times 100\% = 60.4\%$

Note

Section from 96.0 - 119.5' effervesces with about 5 - 6% Hcl on a scratched surface. This section is probably a dolomitized and silicified limestone.

uth Nahanni #49) PROPERTY McMillan Option

DISTRICT Watson Lake, Y. T.

CO-ORDINATES 97119N
99105E

BEARING

TOTAL LENGTH 207.0'

ELEVATION 730.9'

PURPOSE To test ground to east of DH #50

DIP -90°

VERT. 207.0'

OVERBURDEN 134.0'

CORE RECOVERY

HORZ.

HOLE NO. 51 SHEET NO. 1
STARTED June 17, 1954
COMPLETED June 9, 1954
LOGGED BY C.J. Coveney & D. Olson
DATE June 11, 1954

GEOLOGY FOOTAGE FROM	GEOLOGY FOOTAGE TO	GEOLOGY DESCRIPTION	CORE RECOVERY FOOTAGE FROM	CORE RECOVERY FOOTAGE TO	CORE RECOVERY SHORTS	CORE SAMPLE #	CORE FOOTAGE FROM	CORE FOOTAGE TO	CORE WIDTH	CORE SAMPLES ASSAYS % Pb	% Zn	oz Ag	oz Au	SLUDGE SAMPLE #	SLUDGE FOOTAGE FROM	SLUDGE FOOTAGE TO	SLUDGE WIDTH	SLUDGE SAMPLES ASSAYS				RECOVERY	COLOR PLOT
		Stand pipe 112.0'	134.0	140.0	3.8																		
		EX casing 146.0'	140.0	143.0	3.0																		
		AX casing 130.0'	143.0	148.0	4.1																		
0.0	134.0	Overburden.	148.0	152.0	3.9																		
134.0	152.0	Pinkish argillite with green argillite interbands. The whole section being somewhat siliceous.	152.0	154.5	2.1																		
			154.5	157.0	2.0																		
			157.0	160.0	2.6																		
152.0	160.0	Broken chips of gray quartzite. 1 or 2 buttons of pink argillite & pink quartzite.	160.0	163.0	2.2				Rec														
160.0	163.0	Broken chips of pinkish argillite.	163.0	165.0	1.3																		
163.0	165.5	Buttons of gray quartzite.	165.0	169.0	2.6																		
165.5	190.0	Pink argillite. Minor pyrite at 181.0. At 178 an 8" band of olive green argillite. 169.0 - 190.0 rock has a somewhat shattered appearance and there is evidence of brecciation. Possible overall banding is 40-45° to core but in some cases is 30° to core.	169.0	174.0	3.4	8014	170	180	2.3%	<0.01	<0.01	<0.01	<0.003										
			174.0	178.0	3.6																		
			178.0	181.0	0.2	8015	180	190	5.4	<0.01	<0.01	<0.01	<0.003										
			181.0	186.0	1.5																		
			186.0	190.0	1.5	8016	190	200	3.0	0.01	0.02	0.02	<0.003										
			190.0	194.0	3.1																		
			194.0	197.0	0.7	8017	200	210	3.5	0.01	<0.01	0.02	<0.003										
			197.0	199.0	0.4	8018	210	220	5.0	0.01	0.05	0.03	<0.003										
190.0	197.0	Mainly shattered quartzite with irregular thin partings of green argillite. At 196.8 a thin film of ZnS on broken surface of core. This section grades into the following.	199.0	201.5	0.0																		
			201.5	203.0	0.7	8019	220	230	3.2	<0.01	<0.01	0.02	<0.003										
			203.0	206.0	2.0																		
197.0	200.5	Similar to above but the amount of greenish argillite has increased. Small drag fold at end of section. At 200.0' minor tetrahedrite in siderite?	206.0	209.5	2.7																		
			209.5	213.0	0.8																		
			213.0	214.5	0.3																		
			214.5	215.5	0.0																		
			215.5	217.0	0.0																		
200.5	201.5	Grey argillite with small irregular feathery bands of pink argillite and grey quartzite.	217.0	220.0	1.7																		
201.5	210.0	Gray quartzite somewhat shattered. Between 206.0 and 209.5 some coarse grained siderite with disseminated pyrite.	220.0	223.0	1.5																		
			223.0	226.0	1.0																		
			226.0	228.0	0.8																		
210.0	214.5	Fault Zone? Dolomite with black argillite and graphitic slickensides. Weak ZnS at 216.0.	228.0	230.0	1.2																		
			230.0	234.0	0.6																		
		Gray quartzite with black argillite and graphitic partings between 213.0 and 214.0'.	234.0	239.0	0.8																		
			239.0	240.0	0.0																		
214.5	235.0	Grey quartzite appears somewhat speckled because of darker quartz grains. Minor brecciation at 228.5'.	240.0	244.0	2.7																		
			244.0	245.0	0.7																		
			245.0	248.0	0.9																		
235.0	239.0	Similar to above except graphitic slickensides or black argillite partings on broken surfaces. Quartzite has the appearance of being somewhat shattered towards the end of the section.	248.0	251.0	0.1																		
			251.0	254.0	1.7																		
			254.0	257.0	0.6																		
			257.0	260.0	0.3																		
			260.0	261.0	0.0	8020	260	270	2.6	<0.01	1.55	0.04	<0.003										
239.0	271.5	Gray quartzite. 249.5 minor siderite. At 261.5 a ½" band of ZnS about 70° to core. Some siderite at 261.7.	261.0	266.2	2.3																		
			266.2	271.5	4.7	8021	270	280	2.8	0.05	0.04	0.06	<0.003										
			271.5	275.0	3.0																		
271.5	287.8	Grey limestone with flecks and feathery partings of black argillite and graphite. Some minor ZnS at 279.4. Scattered zinc with minor Pb and tetrahedrite between 282.0' & 283.5'.	275.0	277.0	0.7	8022	280	290	3.5	0.60	2.00	0.35	<0.003										
			277.0	280.0	0.3																		
			280.0	281.0	0.0																		

Taken 1968

Taken 1968

BEARING | DIP | CORE RECOVERY | HOLE NO. 51 | SHEET NO. 2

PROPERTY McMillan Option | TOTAL LENGTH | VERT. | HORZ. | STARTED

DISTRICT Watson Lake, Y. T. | ELEVATION | OVERBURDEN | COMPLETED

CO-ORDINATES | PURPOSE | LOGGED BY | DATE

GEOLOGY FOOTAGE FROM	TO	DESCRIPTION	CORE RECOVERY FOOTAGE FROM	TO	SHORTS	CORE SAMPLE #	FOOTAGE FROM	TO	WIDTH	SAMPLES ASSAYS Ag.Oz.	Pb.%	Zn.%	Cu.%	SLUDGE SAMPLE #	SAMPLES FOOTAGE FROM	TO	WIDTH	SAMPLES ASSAYS				RECOVERY	COLOR PLOT
		At 282.5 crude banding 70° to core. Some of the mineralization parallels the banding and some occurs as fracture fillings.	281.0	283.0	0.0																	
287.8	297.0	Gray quartzite with graphitic or black argillite partings. Banding at 290° is 60° to core. (Fault zone?).	283.0	285.0	0.0																	
			285.0	288.8	1.4																	
			288.8	294.0	1.8																	
297.0	302.5	Green siliceous argillite somewhat brecciated.	294.0	294.0	0.0																	
302.5	305.0	Gray-white quartzite with irregular filmy green argillite. Some siderite.	296.0	197.5	0.5																	
			297.5	302.5	3.1																	
305.0	310.0	Gray quartzite - minor pyrite and tetrahedrite from 309.5-310.0.	302.5	305.0	1.2	952	305.0	310.3	5.3	1.6	2.3	trace	trace									
			305.0	308.0	1.9	953	310.3	315.0	4.7	trace	trace	trace	trace									
310.0	322.5	Green siliceous argillite. Some coarse siderite at 312.5. This section grades into the following section.	308.0	310.0	0.3	954	315.0	322.5	7.5	trace	trace	trace	trace									
			310.0	312.5	2.1	955	322.5	328.0	5.5	trace	trace	trace	trace									
			312.5	315.0	1.0	956	328.0	332.7	4.7	trace	trace	trace	trace									
322.5	328.0	The first 3" of section is massive pyrite and also from 325.5 to 327.0. The remainder of the section is gray quartzite with a few specks of tetrahedrite at 325.0.	315.0	320.0	3.6	957	332.7	337.0	4.3	trace	trace	trace	trace									
			320.0	322.5	2.0	958	337.0	342.5	5.5	trace	trace	trace	trace									
			322.5	325.5	1.4																	
			325.5	328.0	0.8																	
328.0	342.5	Massive pyrite. A few buttons of the unreplaced rocks are gray quartzite.	328.0	329.5	1.2																	
			329.5	331.0	1.2																	
342.5	347.0	Gray quartzite, weakly pyritized. A few black argillite partings.	331.0	332.7	0.6																	
			332.7	335.0	1.0																	
347.0	350.0	Pyritized gray quartzite with green argillite partings. At 347.5' crude banding is 60° to the core.	335.0	337.0	0.1																	
			337.0	341.0	2.1																	
			341.0	342.5	0.0																	
350.0	361.0	Pyritized gray quartzite - the pyrite occurring as irregular stringers and patches. Occasional spotty tetrahedrite.	342.5	346.0	1.4	959	342.5	347.0	4.5	trace	trace	trace	trace									
			346.0	347.0	0.3	960	347.0	350.0	3.0	0.3	0.8	trace	0.2									
			347.0	349.5	0.3	961	350.0	356.0	6.0	0.1	trace	trace	trace									
361.0	365.0	Heavy pyritized gray quartzite with spotty tetrahedrite.	349.5	352.5	1.6	962	356.0	361.0	5.0	trace	trace	trace	0.1									
			352.5	353.5	0.3	966	361.0	365.0	4.0	0.4	1.4	trace	trace									
365.0	367.5	Nearly massive pyrite in brecciated quartzite. The pyrite at start of section is fine-grained becoming coarse and vuggy towards end of section.	353.5	356.0	1.3	967	365.0	367.5	2.5	0.4	0.7	trace	trace									
			356.0	358.5	0.0																	
			358.5	361.0	0.2																	
			361.0	365.0	1.3																	
367.5	407.0	Gray quartzite with black graphite partings. From 393.0 - 407.0 there are coarse angular fragments of gray quartzite in an almost black matrix- coarse mylonite.	365.0	367.5	0.7																	
			367.5	370.0	0.6																	
			370.0	372.0	0.2																	
			372.0	375.0	1.4																	
			375.0	377.0	1.3																	
		FAULT ZONE.	377.0	380.0	1.5																	
			380.0	383.0	1.1																	
			383.0	387.0	2.6																	
			387.0	388.5	1.0																	
			388.5	390.5	1.7																	
			390.5	393.0	1.6																	
			393.0	398.0	1.7																	
			398.0	403.0	0.9																	
			403.0	406.0	2.0																	
			406.0	407.0	0.5																	

END OF HOLE

Length of hole	407.0'
Overburden	134.0'
	273.0'
Shorts	126.9'
Rock recovered	146.1'

Core recovery $\frac{146.1}{273.0} \times 100 = 53.5\%$

Black Fl 30°

(South Mahanni #4)

BEARING — DIP −90° — CORE RECOVERY 34.1% — HOLE NO. 52 — SHEET NO. 1

PROPERTY McMillan Option — TOTAL LENGTH 201.0' — VERT. 201.0' — HORZ. — STARTED June 18, 1954

DISTRICT Watson Lake, Y. T. — ELEVATION 379.1' — OVERBURDEN 14.0' — COMPLETED June 22, 1954

CO-ORDINATES Drill Grid 22 + 30 N and 1 + 04 W — PURPOSE To test for northward continuation of known ore zone — LOGGED BY C. Coveney & D. Olson — DATE June 25, 1954

N. end of ore zone

GEOLOGY FOOTAGE FROM	TO	DESCRIPTION	CORE RECOVERY FOOTAGE FROM	TO	SHORTS	CORE SAMPLES SAMPLE #	FOOTAGE FROM	TO	WIDTH	ASSAYS % Pb	% Zn	oz Ag	oz Au	SLUDGE SAMPLES SAMPLE #	FOOTAGE FROM	TO	WIDTH	ASSAYS				RECOVERY	COLOR PLOT
0.0	3.5	AX Casing.																					
0.0	5.0	EX Casing.																					
0.0	14.0	2½ pipe.																					
0.0	14.0	Overburden.	14.0	17.0	1.0																		
14.0	29.2	Mainly broken buttons and chips of pink argillite with thin partings and patches of olive green argillite. Banding at 28.0' is about 40° to core, at 24.0' a few buttons of white quartzite.	17.0	21.0	2.9																		
			21.0	25.2	2.8																		
			25.2	29.2	3.2																		
			29.2	32.0	2.2																		
			32.0	24.7	2.3																		
29.2	34.7	A few chips of green argillite with a few chips of pink argillite.	34.7	38.5	3.2																		
			36.5	42.2	3.7																		
34.7	43.3	Broken chips of gray quartzite with few scattered chips of pink and olive green argillite. 2 white quartzite buttons at start of section. Few specks of ZnS observed.	42.2	44.5	1.6																		
			44.5	47.0	1.6																		
			47.0	50.0	1.9																		
			50.0	52.0	1.1																		
43.3	44.5	Broken chips of pink argillite.	52.0	53.8	0.3																		
44.5	50.0	Broken buttons of gray quartzite with a few buttons of pink quartzite and pink argillite.	53.8	55.7	0.1																		
			55.7	58.5	0.1																		
50.0	52.0	Gray quartzite with few buttons of gray argillite at start of section. No banding observed.	58.5	60.6	1.7																		
			60.6	62.5	0.7																		
			62.5	64.0	1.0																		
52.0	53.0	Pale olive green argillite. 1 button of gray quartzite.	64.0	66.8	2.2																		
			66.8	69.0	1.5																		
53.0	57.0	Pink tinted gray argillite. Banding at 55.0' is 50° to core.	69.0	71.0	1.3																		
			71.0	72.7	0.0																		
57.0	60.6	Pinkish tinted quartzite.	72.7	73.6	0.1																		
60.6	64.0	Olive green argillite mainly. A few chips of pink argillite and gray quartzite.	73.6	76.2	1.4																		
			76.2	78.8	1.3				Rec														
64.0	72.3	Pinkish tinted argillite.	78.8	32.3	3.1	8001	70	80	2.6	<0.01	<0.01	<0.01	<0.003									Taken 1968	
72.3	73.6	Broken buttons and chips of gray quartzite. No banding observed.	82.3	87.2	4.3																		
			87.2	92.2	3.5	8002	80	90	1.3	<0.01	<0.01	<0.01	<0.003										
73.6	77.5	Pinkish tinted argillite with banding at 74.0' being 65° to core.	92.2	93.3	0.4																		
			93.3	98.2	3.3	8003	90	100	1.5	<0.01	<0.01	<0.01	<0.003										
77.5	87.2	Broken buttons of gray quartzite.	98.2	103.2	4.4																		
87.2	96.3	Broken chips of gray quartzite and pink argillite with quartzite chips predominating. Few specks of PbS and ZnS around 90.0'. Banding approximately 30° to core?	103.2	106.3	2.6																		
			106.3	108.5	1.5																		
			108.5	110.7	1.4																		
			110.7	111.7	0.0																		
96.3	110.7	Broken chips of gray quartzite.	111.7	113.0	0.1																		
110.7	113.0	Broken buttons and chips of gray quartzite. Some of the chips effervesce with dilute Hcl (5%). Some spotty zinc and pyrite throughout the section. Rock extremely hard. Possible ore horizon??	113.0	115.8	1.6																		
			115.8	119.1	2.3																		
			119.1	122.2	2.4																		
			122.2	124.1	1.0																		
			124.1	126.1	1.7																		
113.0	126.1	Broken buttons and chips of gray quartzite and between 113.0 - 115.0 ground core.	126.1	128.0	1.0																		
			128.0	130.3	2.2																		
126.1	186.5	Broken buttons and chips of gray quartzite with black graphitic or black argillaceous	130.8	133.5	2.1																		
			133.5	135.1	0.9																		

BEARING | DIP | CORE RECOVERY | HOLE NO. 52 | SHEET NO. 2

PROPERTY McMillan Option | TOTAL LENGTH | VERT. | HOR. | STARTED

DISTRICT Watson Lake, Y. T. | ELEVATION | OVERBURDEN | COMPLETED

CO-ORDINATES | PURPOSE | LOGGED BY | DATE

GEOLOGY			CORE RECOVERY			CORE SAMPLES								SLUDGE SAMPLES									
FOOTAGE			FOOTAGE		SHORTS	SAMPLE #	FOOTAGE		WIDTH	ASSAYS				SAMPLE #	FOOTAGE		WIDTH	ASSAYS				RECOVERY	COLOR PLOT
FROM	TO	DESCRIPTION	FROM	TO			FROM	TO							FROM	TO							
		partings and patches. Minor stringery pyrite (Brecciated zone)	135.1	137.2	1.1																		
			137.2	139.5	1.5																		
136.5	196.8	Gray Quartzite, medium grained. Few criss-crossing fractures quartz filled.	139.5	142.0	2.0																		
			142.0	144.3	1.4																		
196.8	201.0	Gray quartzite with a few graphitic or black argillite partings. Minor (2 - ½" buttons) stringery pyrite.	144.3	148.7	2.3																		
			148.7	153.8	4.8																		
			153.8	158.7	3.8																		
			158.7	161.2	1.5																		
			161.2	163.5	1.6																		
			163.5	166.0	2.0																		
		END OF HOLE	166.0	168.0	1.4																		
			168.0	170.5	1.3																		
			170.5	173.8	2.2																		
		Length of hole 201.0'	173.8	176.5	1.4																		
		Overburden 14.0'	176.5	179.7	2.4																		
		Rock drilled 187.0'	179.7	184.7	4.4																		
		Shorts 123.3'	184.7	186.5	0.9																		
		Core recovered 63.7'	186.5	190.0	1.9																		
			190.0	192.0	0.7																		
			192.0	195.7	2.3																		
		Core Recovery $\frac{63.7}{187.0} \times 100 = 34.1\%$	195.7	198.0	1.6																		
			198.0	201.0	1.8																		

(South Nahanni #4)

BEARING — DIP -90° — CORE RECOVERY 40.5% — HOLE NO. 53 — SHEET NO. 1

PROPERTY McMillan Option — TOTAL LENGTH 168.0' — VERT. 168.0' — HORZ. — STARTED June 24, 1954

DISTRICT Watson Lake, Y. T. — ELEVATION 394.6' — OVERBURDEN 30.0' — COMPLETED June 29, 1954

CO-ORDINATES Drill Grid 20 + 02 N and 3 + 02 W — PURPOSE To test ground north of drill hole #33. — LOGGED BY C. Coveney & D. Olson — DATE June 29, 1954

GEOLOGY FOOTAGE FROM	GEOLOGY FOOTAGE TO	GEOLOGY DESCRIPTION	CORE RECOVERY FOOTAGE FROM	CORE RECOVERY FOOTAGE TO	CORE RECOVERY SHORTS
0.0	30.0	2½" pipe.	30.0	44.0	13.0
0.0	42.0	AX Casing.	44.0	45.2	0.7
0.0	44.0	EX Casing.	45.2	48.2	3.0
0.0	30.0	Overburden.	48.2	50.3	1.4
30.0	45.2	Broken chips of pale olive green argillite.	50.3	55.0	4.3
45.2	48.2	No core. (drillers note).	55.0	56.2	0.6
48.2	56.2	Chips of light grey quartzite and an occasional button of olive green argillite. A few minor specks of visible tetrahedrite.	56.2	57.7	0.8
			57.7	60.0	1.7
			60.0	60.8	0.2
56.2	62.5	Buttons and chips of gray olive green argillite. Few specks of tetrahedrite at 57.8'. Minor occasional feathery fractures of ZnS, one of which is 40° to core.	60.8	63.8	1.6
			63.8	65.0	0.5
			65.0	71.0	5.5
			71.0	74.0	2.3
62.5	74.0	Mainly chips of grey quartzite and a few scattered chips of olive green argillite.	74.0	77.4	2.8
			77.4	78.3	0.0
74.0	77.4	Chips of olive green argillite with one ½" chip of massive tetrahedrite with some zinc.	78.3	79.1	0.0
			79.1	84.0	4.1
77.4	79.1	Ground core (probably representing mud seam)	84.0	89.1	4.4
79.1	84.0	Buttons and chips of light gray quartzite. A few of the buttons look somewhat bleached.	89.1	91.9	1.7
			91.9	95.2	2.1
84.0	90.0	Chips of gray to olive green argillite .	95.2	100.3	4.0
90.0	100.2	Broken buttons and chips of light gray quartzite.	100.3	103.3	1.4
			103.3	106.2	2.1
100.2	103.2	Massive gray quartzite.	106.2	109.0	2.1
103.2	136.5	Gray quartzite with abundant black graphitic and argillaceous partings. Minor stringery and patchy pyrite. Core consists of broken chips and buttons.	109.0	112.2	2.6
			112.2	114.7	1.9
			114.7	117.9	2.3
			117.9	119.0	0.5
			119.0	121.5	2.5
			121.5	125.6	3.5
			125.6	127.5	1.6
			127.5	130.2	2.2
			130.2	132.5	1.8
			132.5	134.2	1.3
			134.2	136.5	1.6
136.5	138.5	No core (drillers note).	136.5	138.5	2.0
138.5	168.0	Similar to section 103.2 to 136.5.	138.5	140.6	1.2
			140.6	145.3	4.3
			145.3	148.4	2.5
			148.4	151.5	2.1
			151.5	156.4	3.7
			156.4	159.5	2.2
			159.5	163.5	3.1
			163.5	168.0	3.8

CORE SAMPLES: SAMPLE # | FOOTAGE FROM | FOOTAGE TO | WIDTH | ASSAYS

SLUDGE SAMPLES: SAMPLE # | FOOTAGE FROM | FOOTAGE TO | WIDTH | ASSAYS

RECOVERY | COLOR PLOT

END OF HOLE

Depth of hole	168.0'
Overburden	30.0'
Rock drilled	138.0'
Shorts	82.1'
Core recovered	55.9'

% Core Recovery $\frac{55.9}{138.0} \times 100 = 40.5\%$

PROPERTY McMillan Option

DISTRICT Watson Lake, Y. T.

CO-ORDINATES 100 425 E
100 223 N

BEARING

TOTAL LENGTH 228.0'

ELEVATION 518.1'

DIP -90°

VERT. 228.0'

OVERBURDEN 71.0'

CORE RECOVERY

HORZ.

PURPOSE To test ground to east of D.H. #16

HOLE NO. 54 SHEET NO. 1
STARTED July 1, 1954.
COMPLETED July 6, 1954
LOGGED BY C.J. Coveney & D. Olson
DATE July 7, 1954.

GEOLOGY FOOTAGE FROM	TO	DESCRIPTION
0.0	71.0	Overburden.
71.0	80.0	Olive green argillite.
80.0	84.0	No core (drillers note).
84.0	84.5	Few buttons of gray quartzite.
84.5	86.5	Ground core.
86.5	98.0	Broken chips of gray quartzite and a few chips of pinkish argillite between 86.5 - 91.5'.
98.0	138.5	Purple argillite. At 103.7 there is 4" of grey quartzite. At 115.0' 2" of gray quartzite. At 103.5 banding 25° to core. At 115.0' banding is 55° to core. At 122.5 banding appears to parallel the core.
138.5	141.0	Chips of olive green and gray argillite.
141.0	145.5	Chips of grey quartzite with a few narrow argillite partings. Banding at 145.5 is 55° to core.
145.5	147.4	A few chips of greyish green argillite.
147.4	150.2	Chips and buttons of gray quartzite. At 149.2 2" of grayish-green argillite chips. Towards the end of section there is some thin green argillite partings. Banding at end of section is 50° to core.
150.2	152.0	Banded gray and olive green argillite. Good banding at 151.0' is 70° to core.
152.0	157.3	Chips of gray quartzite. Banding at 153.4 is 65° to core. From 153.2 there is 6" of banded gray and green argillite.
157.3	161.5	Gray and olive green argillite. Good banding at 161.0' is 80° to core.
161.5	162.8	Mainly gray quartzite with two bands of gray and olive green argillite. Banding at 162.6' is 70° to core.
162.8	166.5	Buttons of gray and olive green argillite.
166.5	169.6	Buttons of gray quartzite with a 2" band grayish argillite at 167.7'.
169.6	171.5	Interbanded argillites and quartzites in equal proportions . Few specks of ZnS at end of the section.
171.5	175.5	Mainly grayish argillite. At 174.1 there is an 1½" button of white quartz slickensided on one surface followed by 1½" button of well brecciated argillite (Possible fault here). Overall banding of section is about 70° to core.
175.5	177.9	Limy gray quartzite.
177.9	190.0	Gray to blue gray limestone in part well banded. 183.0 to 189.0 Limestone has thin

CORE RECOVERY FOOTAGE FROM	TO	SHOTS
71.0	73.8	0.6
73.8	76.5	2.3
76.5	80.0	3.2
80.0	84.0	4.0
84.0	86.5	1.3
86.5	91.5	3.8
91.5	93.8	1.9
93.8	98.0	3.5
98.0	100.7	1.9
100.7	103.2	1.5
103.2	105.0	0.7
105.0	106.9	1.2
106.9	108.4	0.8
108.4	110.0	0.7
110.0	111.3	0.5
111.3	112.9	0.9
112.9	115.2	1.5
115.2	116.4	0.2
116.4	121.3	3.5
121.3	122.9	0.0
122.9	127.9	3.4
127.9	131.9	3.1
131.9	133.8	0.9
133.8	138.4	4.1
138.4	141.0	2.1
141.0	142.4	0.7
142.4	145.5	2.0
145.5	149.2	2.5
149.2	150.8	0.0
150.8	153.2	0.0
153.2	155.2	1.0
155.2	156.4	0.3
156.4	157.3	0.0
157.3	160.7	2.1
160.7	162.8	0.2
162.8	165.7	2.7
165.7	168.2	0.7
168.2	169.6	0.7
169.6	171.2	0.2
171.2	172.9	0.5
172.9	175.5	1.3
175.5	177.9	1.4
177.9	179.7	0.1
179.7	181.9	0.2
181.9	183.5	0.1
183.5	185.3	0.3
185.3	188.1	0.6
188.1	189.0	0.2
189.0	190.0	0.1

CORE SAMPLES SAMPLE #	FOOTAGE FROM	TO	WIDTH	ASSAYS			

SLUDGE SAMPLES SAMP LE #	FOOTAGE FROM	TO	WIDTH	ASSAYS				RECOVERY	COLOR PLOT

BEARING | DIP | CORE RECOVERY | HOLE NO. 54 | SHEET NO. 2

PROPERTY McMillan Option | TOTAL LENGTH | VERT. | HORZ. | STARTED

DISTRICT Watson Lake, Y. T. | ELEVATION | OVERBURDEN | COMPLETED

CO-ORDINATES | PURPOSE | LOGGED BY | DATE

GEOLOGY			CORE RECOVERY			CORE			SAMPLES				SLUDGE			SAMPLES					
FOOTAGE			FOOTAGE		SHO	SAMP-	FOOTAGE		WI-	ASSAYS			SAMP	FOOTAGE		WT	ASSAYS			RECO	COLOR
FROM	TO	DESCRIPTION	FROM	TO	RTS	LE #	FROM	TO	DTH	Ag.Oz.	Pb.%	Zn.%	LE #	FROM	TO	DTH				VERY	PLOT
		irregular carbonaceous fractures scattered.	190.0	192.0	0.8																
		At 186.0 - 187.0 Limestone shows evidence of	192.0	193.5	0.2																
		brecciation. 5" of grayish argillite preced-	193.5	194.5	0.3																
		ing the brecciated section. Banding at 172' is	194.5	195.8	0.4	963	185.3	190.0	4.7	trace	trace	trace									
		55° to core. At 187.5 banding is 60° to core.	195.8	196.8	0.0																
		A few specks of PbS at 182.0 and 189.0'.	196.8	198.0	0.2																
190.0	194.5	Gray limestone in part dolomitic. Scattered	198.0	199.7	0.7																
		mineralization mainly ZnS but with visible	199.7	200.8	0.0																
		PbS.	200.8	202.3	0.5																
194.5	198.0	Limestone, dolomitic;at 195.9 a 6" band of	202.3	203.1	0.1	964	190.0	194.5	4.5	0.4	1.4	4.3									
		olive green argillite.	203.1	204.6	0.0	965	194.5	198.0	3.5	trace	trace	trace									
198.0	210.0	Olive green to gray argillite with limestone	204.6	204.9	0.0																
		button 1" at 200.8' and limy quartzite at	204.9	206.9	1.0																
		205 (2"), 2" at 203.1'. At 204' 3" of limy	206.9	208.4	0.1																
		olive green argillite. At 205.8' 1½" of gray	208.4	210.0	0.7																
		quartzite impure . Banding at 204.0' is 55°	210.0	211.7	0.5																
		to core. This section appears to grade into	211.7	213.2	1.0																
		the following section.	213.2	215.2	1.2																
210.0	210.8	Argillaceous quartzite - banding 70° to core.	215.2	217.0	0.9																
210.8	213.2	Buttons and chips of gray quartzite and	217.0	219.0	1.0																
		greenish argillite.	219.0	220.7	1.4																
213.2	219.0	Mainly olive green argillite with narrow	220.7	222.2	1.1																
		bands of gray argillite 65° - 70° to core.	222.2	225.7	2.6																
219.0	225.7	Mainly chips of gray quartzite with a few	225.7	226.2	0.0																
		chips of olive green argillite.	226.2	227.0	0.2																
225.7	228.0	Olive green argillite.	227.0	228.0	1.0																

END OF HOLE

Depth of hole	228.0'
Overburden	71.0'
	157.0'
Shorts	81.4
	75.6'

Core Recovery $\frac{75.6}{157.0} \times 100 = 48.1\%$

(South Nabanni #5 M.C.) PROPERTY McMillan Option

DISTRICT Whitehorse M.D.

CO ORDINATES 99,994
100,572

BEARING

TOTAL LENGTH 252.0'

ELEVATION 555.0'

DIP -90°

VERT. 252.0'

OVERBURDEN 71.0'

CORE RECOVERY 43.4%

PURPOSE To test for ore horizon southeast of D.H. #54

HOLE NO. 55 SHEET NO. 1
STARTED July 8, 1954
COMPLETED July 14, 1954
LOGGED BY C. J. Coveney
DATE July 17, 1954

GEOLOGY FOOTAGE FROM	GEOLOGY FOOTAGE TO	GEOLOGY DESCRIPTION	CORE RECOVERY FOOTAGE FROM	CORE RECOVERY FOOTAGE TO	CORE RECOVERY SHORTS	CORE SAMPLES SAMPLE #	CORE SAMPLES FOOTAGE FROM	CORE SAMPLES FOOTAGE TO	CORE SAMPLES WIDTH	CORE SAMPLES ASSAYS	SLUDGE SAMPLES SAMPLE #	SLUDGE SAMPLES FOOTAGE FROM	SLUDGE SAMPLES FOOTAGE TO	SLUDGE SAMPLES WIDTH	SLUDGE SAMPLES ASSAYS	RECOVERY	COLOR PLOT
		Stand Pipe 71.0'.	71.0	73.5	2.2												
		AX Casing 72.0'.	73.5	77.0	2.9												
		EX Casing 77.0'	77.0	80.0	2.2												
0.0	71.0	Overburden.	80.0	82.2	1.4												
71.0	87.2	Buttons of purple argillite.	82.2	84.2	1.0												
87.2	89.8	Greenish argillite.	84.2	87.2	2.3												
89.8	130.0	Purple argillite. Minor contortions at 116.5'. Banding at 123' is 60° to core.	87.2	89.8	1.9												
			89.8	93.0	2.3												
130.0	130.3	Purple quartzite.	93.0	96.0	1.6												
130.3	130.5	Purple argillite - mainly broken chips.	96.0	100.3	2.6												
130.5	133.5	Purple quartzite. Banding at 133.5 is 35° to core.	100.3	105.5	0.4												
			105.5	110.2	3.4												
133.5	136.5	Purple argillite.	110.2	111.2	0.0												
136.5	139.8	Purple argillite with crisscrossing veinlets of white quartz.	111.2	116.4	3.2												
			116.4	120.0	2.2												
139.8	142.0	Purple argillite. Either cleavage or bedding at 45 to the core.	120.0	123.1	1.6												
			123.1	124.5	0.1												
142.0	148.2	Purple quartzite with numerous fractures filled with white quartz.	124.5	126.5	1.1												
			126.5	128.7	0.6												
148.2	149.0	Purple argillite with some green argillite bands. One button shows banding about 80° to core.	128.7	130.7	0.8												
			130.7	132.8	0.4												
			132.8	135.0	1.5												
149.0	150.0	Purple quartzite.	135.8	139.8	1.6												
150.0	153.0	Purple argillite - Banding about 60° to core.	139.8	144.1	2.3												
153.0	158.8	Chips of purple argillite.	144.1	145.7	0.5												
158.8	162.8	Grayish green to purple quartzite.	145.7	147.5	0.2												
162.8	165.4	Fault gouge?	147.5	148.2	0.0												
165.4	166.0	Brecciated quartzite.	148.2	150.0	0.2												
166.0	169.8	Gray argillite with interbands and patches of green argillite. Banding at 165.0' is 70° to core.	150.0	151.4	0.0												
			151.1	155.2	2.9												
			155.2	157.7	2.0												
169.8	171.0	Grayish quartzite.	157.7	158.8	0.7												
171.0	172.6	Gray argillite - no banding.	158.8	160.7	0.3												
172.6	173.5	Grayish quartzite - Banding 60° to the core.	160.7	162.8	1.7												
173.5	175.5	Gray to green argillite.	162.8	165.4	1.8												
175.5	176.4	Buttons of gray quartzite.	165.4	167.8	0.0												
176.4	181.5	Grayish argillite; banding about 70° to the core. A few buttons of gray quartzite at 179.5 and 180.5. 180.5 - 181.0 gray quartzite.	167.8	168.6	0.2												
			168.6	170.2	0.3												
181.5	182.4	Buttons and chips of gray quartzite.															
182.4	183.0	Grayish to greenish banded argillite. Banding 65° to core.															
183.0	189.7	Gray quartzite. A few buttons of gray argillite at 184.6'.															
189.7	190.5	Mainly sand (probably from cave).															
190.5	191.4	Buttons and chips of gray argillite.															
191.4	198.7	Blue gray limestone - no mineralization.															
198.7	200.0	Grayish argillite.															

BEARING | DIP | CORE RECOVERY | DRILL NO. 55 | SHEET NO. 2

PROPERTY McMillan Option | TOTAL LENGTH | VERT. | HORZ. | STARTED

DISTRICT Whitehorse M.D. | ELEVATION | OVERBURDEN | COMPLETED

CO-ORDINATES | PURPOSE | LOGGED BY | DATE

GEOLOGY			CORE RECOVERY			CORE SAMPLES								SLUDGE SAMPLES									
FOOTAGE			FOOTAGE		SHORTS	SAMPLE #	FOOTAGE		WIDTH	ASSAYS				SAMPLE #	FOOTAGE		WIDTH	ASSAYS				RECOVERY	COLOR PLOT
FROM	TO	DESCRIPTION	FROM	TO			FROM	TO		Ag oz/t	Pb %	Zn %	Cu %		FROM	TO							
200.0	202.2	Blue-gray limestone.	170.2	172.0	0.4																		
202.2	203.6	Gray quartzite.	172.0	173.6	0.0																		
203.6	226.5	Light to dark blue-gray limestone with scattered brecciated sections. (Some of these brecciated sections may represent interformational conglomerate) Scattering of crisscrossing veinlets of calcite. At 225.0' there are dark gray limestone fragments in blue-gray limestone which resembles the limestone conglomerate? seen in the mineralized trench south of D.H. #3.	173.6	175.5	1.0																		
			175.5	177.2	1.0																		
			177.2	179.6	0.9																		
			179.6	180.5	0.1																		
			180.5	182.0	0.5																		
			182.0	183.5	0.3																		
			183.5	184.6	0.0																		
			184.6	187.1	1.1																		
			187.1	189.7	0.8																		
226.5	232.2	Gray limy quartzite-mineralized broken buttons and chips.	189.7	191.4	0.0																		
			191.4	193.4	0.5																		
232.2	238.5	Mainly buttons of gray quartzite.	193.4	195.7	1.0																		
238.5	239.2	Ground core- Probably does not represent fault zone.	195.7	197.5	0.1																		
			197.5	199.7	0.2																		
239.2	241.2	Buttons of gray quartzite. From 232.2 - 241.2 foreign rock as evidenced by fragments of purple argillite caving from near the collar of the hole.	199.7	201.1	0.4																		
			201.1	202.2	0.2																		
			202.2	203.4	0.4																		
			203.4	204.2	0.6																		
241.2	242.5	Gray quartzite with one button of olive green argillite at start of section. Banding 70° to core.	204.8	206.0	0.6																		
			206.0	206.7	0.1																		
			206.7	207.6	0.3																		
242.5	252.0	Olive green argillite banded 70° to core but from 247.0' to 252.0' argillite has a slight pinkish tint.	207.6	209.8	0.0																		
			209.8	212.0	0.3																		
			212.0	217.0	0.0																		
			217.0	219.2	0.6																		
			219.2	222.2	0.0																		
			222.2	227.2	0.7																		
			227.2	232.2	3.6	968	226.5	232.2	5.7	0.5	0.9	4.9											
			232.2	235.0	2.1																		
			235.0	237.2	1.9																		
			237.2	238.5	0.2																		
			238.5	239.2	0.0																		
			239.2	241.2	1.3																		
			241.2	242.5	0.6																		
			242.5	244.4	1.3																		
			244.4	245.3	0.7																		
			245.3	247.2	0.7																		
			247.2	249.3	1.5																		
			249.3	252.0	2.1																		

END OF HOLE

Length of hole 252.0'
Overburden 71.0'
181.0'

Shorts 78.5'

Core Recovery $\frac{78.5}{181.0} \times 100 = 43.4\%$

CLAIM NO. .....

DIAMOND DRILL RECORD

PROPERTY McMillan Property HOLE NO. 57 Sheet 1

LATITUDE Core Recovery 64.2% ELEVATION 616.0' Length - 458.0' BEARING DEPTH Vert. - 458.0' STARTED COMPLETED July 30, 1954.

DEPARTURE SECTION DIP - 90° (Recovery) DRILLED BY LOGGED BY C. J. Coveney

DEPTH FEET	FORMATION	From	To	Core Lgth	SAMPLE NO.	FROM	TO	WIDTH	ASSAYS
	Pipe 88.0'	90.0	98.2	4.0					
	EX casing 180.0'.	98.2	105.2	1.0					
	AX casing 94.0'.	105.2	112.3	5.0					
0.0-90.0	Overburden.	112.3	117.3	4.0					
90.0-98.2	Chipped core - grayish green argillite.	117.3	119.3	1.2					
98.2-106.0	A few buttons of purple argillite. Some	119.3	121.5	1.4					
	ground purple argillite.	121.5	126.2	2.8					
106.0-162.5	Well banded pink and purple argillite.	126.2	128.3	2.0					
	Uniformly distributed throughout the	128.3	130.8	0.9					
	section are narrow 1/8" up to ½" bands	130.8	133.6	1.8					
	of gray argillite. Banding varies from	133.6	135.7	1.5					
	70° to 85° to the core.								
162.5-168.0	Well banded creamy colored argillite.	135.7	138.3	0.9					
	Olive green and darker green bands	138.3	143.5	0.4					
	form the interbands. Banding 75° to	143.5	146.2	1.1					
	the core.								
168.0-169.2	Rhythmic banded purple and creamy	146.2	150.8	0.8					
	Banding 75°.	150.8	153.3	2.3					
169.2-187.5	Banded creamy and olive green argil-	153.3	157.2	0.7					
	lite.								
	Banding 75-80° to core.	157.2	158.9	1.5					
187.5-203.7	Rhythmic banded purple argillite. Band-	158.9	162.2	2.0					
	ing to core.	162.2	164.9	1.4					
203.7-215.0	Buttons of purple argillite.	164.9	166.6	1.7					
215.0-229.5	Olive green to grayish green argillite.	166.6	168.3	1.7					
	Banding 75°. Becoming pink tinted to-	168.3	171.7	3.4					
	wards end of section and grading into	171.7	172.7	0.9					
	the following section.	172.7	176.4	3.1					
229.5-235.0	Pink banded argillite. Banding 80° to	176.4	177.7	1.0					
	85° to core.	177.7	180.5	2.8					
235.0-236.8	Buttons and chips of purple argillite.	180.5	184.4	3.6					
236.8-246.4	Pink argillite. Banding at 238.5 is 50°	184.4	186.7	2.3					
	to core. Banding at 246 approximately	186.7	187.8	1.0					
	80° to core. d	187.8	188.7	0.8					
246.4-259.3	Purple argillite. Banding 80° to core.	188.7	191.5	2.4					
259.3-288.5	Purple banding argillite. Banding 75°	191.5	195.3	3.8					
	to 90° to core.	195.3	198.6	2.1					
288.5-292.0	Pink argillite with some narrow bands	198.6	203.7	3.7					
	and patches of quartzite. Banding at	203.7	208.8	1.4					
	291.0' is 65° to core.	208.8	212.2	1.9					

CLAIM NO. .....

DIAMOND DRILL RECORD

PROPERTY MxMillan Property HOLE NO. 57 Sht 2

LATITUDE Core Recovery 64.2% ELEVATION 616.0' Length - 458.0' BEARING Vert. - 458.0' DEPTH ..... STARTED ..... COMPLETED July 30, 1954.

DEPARTURE ..... SECTION ..... DIP - 90° (Recovery) DRILLED BY ..... LOGGED BY C. J. Coveney

DEPTH FEET	FORMATION	From	To	Core Lgth	SAMPLE NO.	FROM	TO	WIDTH	ASSAYS
292.0-295.5	Purple banded argillite.	212.2	215.0	1.6					
295.5-303.0	Buttons of pink and purple argillite	215.0	216.3	1.3					
	buttons of gray quartzite particularly	216.3	217.9	1.6					
	from 299.5 to 302.0.	217.9	220.3	2.1					
303.0-344.6	Banded gray and olive green argillite.	220.3	221.5	1.2					
	Banding at 306.0' is 80°.	221.5	225.4	1.2					
	324.5' is 45°	225.4	229.5	2.5					
	329.5 is 20°	229.5	231.7	1.7					
		231.7	235.8	1.5					
		235.8	238.1	1.5					
		238.1	241.4	0.4					
344.6-356.0	Similar to above except the gray ar-	241.4	246.4	1.3					
	gillite occurs as irregular patches	246.4	250.0	2.0					
	as well as narrow bands. Some minor	250.0	253.0	0.9					
	convulations that probably represent	253.0	255.5	2.1					
	soft rock structures. Banding at 346.0'	255.5	259.3	1.7					
	is 55° to the core.								
356.0-408.0	Olive green argillite with narrow bands	259.3	261.6	1.3					
	of gray argillite. Banding at 366' is	261.6	263.3	1.7					
	55°; at 372.0' is 65°.	263.3	266.7	3.4					
	Below pink argillite is similar to that	266.7	271.7	1.9					
	hole #34.	271.7	275.5	2.1					
408.0-413.5	Gray limestone - barren.	275.5	279.0	3.0					
413.5-458.0	Olive green argillite with some narrow								
	bands of gray argillite about 75° - 80°	279.0	284.5	2.9					
	to core.	284.5	287.5	1.5					
		287.5	292.0	3.1					
		292.0	296.2	2.8					
		296.2	299.8	1.6					
		299.8	303.2	3.4					
		303.2	304.6	1.3					
		304.6	308.5	3.4					
		308.5	311.2	2.5					
		311.2	313.8	2.1					
		313.8	317.2	3.3					
		317.2	323.7	5.5					
		323.7	328.0	4.0					
		328.0	331.3	2.2					
		331.3	334.8	2.3					
		334.8	337.8	2.5					

CLAIM NO. .....

DIAMOND DRILL RECORD

PROPERTY McMillan Property HOLE NO. 57 Sht 3

LATITUDE ..... ELEVATION 616.0' BEARING ..... DEPTH ..... STARTED ..... COMPLETED July 30, 1954

Core Recovery 64.2% Length - 458.0' Vert. - 458.0'

DEPARTURE ..... SECTION ..... DIP - 90° (Recovery) DRILLED BY ..... LOGGED BY C. J. Coveney

DEPTH FEET	FORMATION	From	To	Core Lgth	SAMPLE NO.	FROM	TO	WIDTH	ASSAYS
		337.8	342.8	5.0					
		342.8	344.6	1.3					
		344.6	349.6	5.0					
		349.6	352.8	3.0					
		352.8	353.8	1.0					
		353.8	356.0	1.9					
		356.0	357.0	1.0					
		357.0	358.3	1.3					
		358.3	361.4	1.7					
		361.4	362.7	1.1					
		362.7	365.7	2.9					
		365.7	368.2	2.5					
		368.2	372.5	2.6					
		372.5	375.5	1.0					
		375.5	377.0	1.0					
		377.0	378.2	1.1					
		378.2	379.8	1.4					
		379.8	382.0	1.7					
		382.0	384.0	0.8					
		384.0	385.0	1.0					
		385.0	386.8	2.0					
		386.8	388.4	1.6					
		388.4	390.5	1.2					
	END OF HOLE	390.5	393.2	0.8					
		393.2	395.5	1.2					
		395.5	397.2	1.0					
	Depth of hole 458.0'	397.2	402.3	2.0					
	Overburden 90.0'	402.3	407.3	1.3					
	368.0'	407.3	410.3	1.0					
		410.3	411.5	1.1					
		411.5	413.2	0.9					
	Core length 235.2'	413.2	415.8	1.7					
		415.8	418.0	1.8					
	Core recovery 235.2 x 100 = 64.2%	418.0	420.2	1.7					
	368.0	420.2	421.0	0.5					
		421.0	425.0	1.5					
		425.0	426.7	1.4					
		426.7	429.3	2.1					
		429.3	431.8	1.1					
		431.8	434.3	1.3					

CLAIM NO. .....

DIAMOND DRILL RECORD

PROPERTY McMillan Property HOLE NO. 57 Sht 4

LATITUDE Core Recovery 64.2% ELEVATION 616.0' Length - 458.0' BEARING Vert. - 458.0' DEPTH ..... STARTED ..... COMPLETED July 30, 1954

DEPARTURE ..... SECTION ..... DIP - 90° (Recovery) DRILLED BY ..... LOGGED BY C. J. Coveney

DEPTH FEET	FORMATION	From	To	Core Lgth	SAMPLE NO.	FROM	TO	WIDTH	ASSAYS
		434.3	437.0	0.7					
		437.0	438.6	0.9					
		438.6	444.0	2.4					
		444.0	448.0	2.3					
		448.0	451.0	1.2					
		451.0	453.0	0.7					
		453.0	455.6	2.5					
		455.6	458.0	2.3					

CLAIM NO. .....

DIAMOND DRILL RECORD

PROPERTY McMillan Property HOLE NO. 58 Sht 1

LATITUDE ..... ELEVATION 629.0' BEARING ..... DEPTH ..... STARTED July 17/54 COMPLETED July 25/54

Core Recovery 32.2% Length - 170.0' Vert. - 170.0'

DEPARTURE ..... SECTION ..... DIP 90° (Recovery) DRILLED BY ..... LOGGED BY C. J. Coveney

DEPTH FEET	FORMATION	From	To	Core Lgth	SAMPLE NO.	FROM	TO	WIDTH	ASSAYS
0.8-49.0	Overburden.	49.0	53.0	1.9					
49.0-58.0	Well pyritized gray quartzite. Scattered	53.0	56.0	1.9					
	siderite. Rock is slightly limy in part.	56.0	58.0	1.2					
	Some black argillite partings.	58.0	60.0	0.7					
58.0-59.5	Silicified greenish argillite. Rock has a	60.0	62.0	1.3					
	sheared appearance.	62.0	64.5	0.5					
59.5-68.0	Well pyritized gray quartzite. The pyrite	64.5	67.0	0.0					
	occurs as disseminations and irregular	67.0	70.0	1.7					
	patches and some stringers. Minor black	70.0	73.0	1.5					
	argillite partings on the broken surfaces.	73.0	76.3	2.1					
	between 64.0 - 65.0'. Scattered siderite.	76.3	78.0	0.5					
	Several sections 2" - 4" are nearly mas-	78.0	79.0	0.4					
	sive pyrite.	79.0	80.5	1.1					
68.0-73.0	Buttons of gray brecciated quartzite.	80.5	82.0	0.3					
73.0-79.0	Silicified greenish argillite. Some minor	82.0	85.0	1.8					
	fractures filled with pyrite. Rock has a	85.0	86.5	0.0					
	sheared appearance.	86.5	88.5	1.4					
79.0-95.0	Gray quartzite - somewhat brecciated.	88.5	91.0	1.1					
	Scattered stringery pyrite. Some minor	91.0	95.0	2.7					
	pyrite filled fractures. A few greenish	95.0	98.0	1.6					
	argillite partings and patches 85.0 - 86.0'	98.0	99.5	0.8					
95.0-124.0	Gray quartzite, brecciated with black arg-	99.5	1o2.0	0.3					
	illite partings or graphitic slips on the	102.0	106.0	3.6					
	broken surfaces. From 120.0 - 124.0'	106.0	111.0	4.6					
	either blackish ground argillite or	111.0	112.5	0.6					
	gouge. Probably FAULT ZONE here? From	112.5	116.0	3.0					
	102.0 - 124.0' the core recovery is very	116.0	117.5	1.5					
	poor.								
124.0-167.5	Pea sized buttons of gray quartzite that	117.5	118.5	0.6					
	have scattered black argillite ; films or	118.5	122.0	2.6					
	graphitic slips on the broken surfaces.	122.0	124.0	1.3					
167.5-170.0	No core (cave).	124.0	128.0	3.8					
	END OF HOLE	128.0	129.6	1.2					

CLAIM NO. .....

DIAMOND DRILL RECORD

PROPERTY McMillan Property HOLE NO. 58 Sht 2

LATITUDE Core Recovery 32.2% ELEVATION 629.0' Length - 170.0' BEARING DEPTH Vert. - 170.0' STARTED July 17/54 COMPLETED July 25/54

DEPARTURE SECTION DIP - 90° (Recovery) DRILLED BY LOGGED BY C. J. Coveney

DEPTH FEET	FORMATION	From	To	Core Lgth	SAMPLE NO.	FROM	TO	WIDTH	ASSAYS
	NOTE: No observable banding in core.								
	Possible BLACK FAULT 120.0 - 124.0.								
	Core recovery from 102.0 to 167.0								
	very poor.								
	Length of hole 170.0'								
	Overburden 49.0'								
	121.0'								
	Shorts 82.0'								
	39.0'								
	Core recovery $\frac{39.0}{121.0} \times 100 = 32.2\%$								

CLAIM NO. .....

DIAMOND DRILL RECORD

PROPERTY McMillan Property HOLE NO. 59 Sht 1

LATITUDE Core Recovery 60.8% ELEVATION 617' Length -243' BEARING Vert - 24.3' DEPTH STARTED July 26/54 COMPLETED July 30/54

DEPARTURE SECTION DIP - 90° (Recovery) DRILLED BY LOGGED BY D. Olson

DEPTH FEET	FORMATION	From	To	Core Lgth	SAMPLE NO.	FROM	TO	WIDTH	ASSAYS
0.0-15.0	Overburden.								
0.0-20.0	Pipe 2½".								
0.0-29.0	AX Casing.								
0.0-29.0	EX Casing.								
15.0-30.8	Limestone, gray, having a shattered and	15.0	20.0	0.9					
	appearance. Numerous graphitic slicken-	20.0	22.0	1.1					
	sides on broken surfaces. The core ex-	22.0	24.0	0.9					
	hibits a multiple of criss-crossing	24.0	26.5	1.9					
	calcite filled fractures in sizes 1/32"	26.5	28.0	1.1					
	to ½" wide. Limestone appears barren.	28.0	30.0	1.8					
	Crude banding at 25.0' is 30° to core.	30.0	33.0	2.4					
30.8-32.8	Quartzite, gray, somewhat limy at the	33.0	35.0	2.0					
	start of section. Broken surfaces show	35.0	36.0	1.0					
	graphitic and black argillite partings	36.0	38.0	1.9					
	with the last inch of section being brec-	38.0	42.5	2.9					
	ciated.								
32.8-44.6	Gray limestone with criss-crossing cal-	42.5	45.0	3.9					
	cite filled fractures. Broken surfaces	45.0	47.5	2.7					
	have graphitic slickensides. Banding 30°	47.5	49.0	1.4					
	to core.								
44.6-45.0	Grey quartzite.	49.0	51.0	1.1					
45.0-48.4	Mainly limestone with irregular bands of	51.0	54.0	0.3					
	dark gray argillite. Numerous graphitic	54.0	55.5	0.7					
	slips on the broken surfaces. Rough band-	55.5	59.5	3.2					
	ing between 20° - 30° to the core. Minor	59.5	62.0	2.3					
	brecciation at 45.0' and 46.5'.	62.0	66.5	2.5					
48.4-60.0	Buttons & chips of gray argillite. Band-	66.5	69.7	3.2					
	ing at 57.0' is 30° to the core while at	69.7	71.0	1.5					
	60.0' banding is 50° to core.	71.0	76.5	5.5					
60.0-62.0	Gray limestone with numerous calcite	76.5	80.0	2.5					
	filled fractures and a few gray argillite	80.0	85.2	2.8					
	partings which are thin and irregular.	85.2	88.0	1.7					
62.0-69.7	Gray quartzite, medium grained with an	88.0	92.0	1.8					
	occasional thin parting of gray argillite.	92.0	94.5	1.9					
	At 66.0' a 6" band of gray argillite and								
	at 66.7' a 3" band of gray argillite. At								
	62.7 very heavy graphite slickensided. Mi-								
	nor brecciation at 63.5'. Banding at 66.5'								
	is 60° to core.								

CLAIM NO. .....

DIAMOND DRILL RECORD

PROPERTY McMillan Property HOLE NO. 59 Sht 2

LATITUDE ..... ELEVATION 617' BEARING ..... DEPTH ..... STARTED July 26/54 COMPLETED July 30/54

Core Recovery - 60.8% Length - 24.3' Vert - 24.3'

DEPARTURE ..... SECTION ..... DIP - 90° (Recovery) DRILLED BY ..... LOGGED BY D. Olson

DEPTH FEET	FORMATION	From	To	Core Lgth	SAMPLE NO.	FROM	TO	WIDTH	ASSAYS
69.7-70.6	Dark gray argillite with banding 50° to core.								
70.5-81.5	Dark gray limestone with numerous calcite filled fractures. 79.8 gray quartzite with minor brecciation at 79.4'. Possible banding in limestone is about 30° to core.								
81.5-86.3	Mainly yellowish green argillite with irregular patches and thin bands of quartzite.								
86.3-86.8	Gray quartzite.								
86.8-89.3	Mainly yellowish green argillite with irregular patches and bands of quartzite.								
89.3-92.3	Gray quartzite with disseminated pyrite in the last 3" of the section.								
92.3-97.0	Mainly yellowish-green argillite with some irregular, thin bands and patches of quartzite.	94.5 96.0	96.0 101.0	1.9 2.5					
97.0-104.0	Gray quartzite buttons and chips.	101.0	104.0	0.3					
104.0-115.0	Mainly broken buttons and chips of yellowish green argillite with an occasional ½" band of quartzite. The first 8" of section is weakly pyritized. Possible banding at 113.0 is 60° to core. This section grades in to the following section.	104.0 107.0 110.5 113.5 118.0 119.5	107.0 110.5 113.5 118.0 119.5 122.5	2.2 2.2 1.5 3.4 1.0 1.3					
115.0-121.0	Mainly quartzite with thin irregular partings and patches of yellowish green argillite.	122.5 125.5	125.5 127.5	2.1 2.0					
121.0-122.6	Gray medium grained quartzite.	127.5	132.0	0.8					
122.6-125.2	Dolomite, gray, somewhat brecciated and has numerous calcite filled fractures.	132.0 135.5	135.5 138.5	3.0 3.0					
125.2-127.2	Gray quartzite, fine-grained with an occasional thin gray argillite parting.	138.5 143.5	143.5 147.0	3.2 3.6					
127.2-133.2	Broken buttons and chips of green argillite. Last 4" is dark gray argillite.	147.0 150.5	150.5 153.0	1.9 1.8					
133.2-136.3	Light gray quartzite with irregular thin partings and patches of dark gray argillite.	153.0 157.0	157.0 161.5	2.2 3.2					
136.3-140.1	Mainly dark gray argillite with irregular	161.5	165.4	3.4					

CLAIM NO. .....

DIAMOND DRILL RECORD

PROPERTY McMillan Property HOLE NO. 59 Sht 3

LATITUDE Core Recovery - 60.8% ELEVATION 617' Length - 24.3' BEARING Vert - 24.3' DEPTH STARTED July 26/54 COMPLETED July 30/54

DEPARTURE SECTION DIP - 90° (Recovery) DRILLED BY LOGGED BY C. Olson

DEPTH FEET	FORMATION	From	To	Core Lgth	SAMPLE NO.	FROM	TO	WIDTH	ASSAYS
	patches of light gray quartzite. At 136.8' - 2" of disseminated and stringery pyrite.	165.4	169.0	1.8					
		169.0	171.4	0.3					
140.1-171.5	Light gray quartzite with irregular thin partings and patches of dark gray to black argillite. 143.5 - 143.9 - green argillite. 146.3 - 147.0 - green argillite and gray quartzite. 153.5 - 154.1 - green argillite brecciated 165.2 - 165.9 heavy pyrite.	171.4	174.0	2.1					
		174.0	178.0	3.7					
		178.0	183.0	2.7					
		183.0	185.0	2.3					
		185.0	188.5	2.4					
		188.5	192.0	3.5					
171.4-174.0	Massive pyrite.	192.0	194.5	1.9					
174.0-193.5	Mylonitic, light gray quartzite with thin, irregular, black argillite partings and stringery pyrite throughout the section. Massive pyrite between 191.4 - 192.0'.	194.5	197.0	1.1					
		197.0	202.0	1.5					
		202.0	205.0	1.2					
		205.0	207.0	0.9					
193.5-205.0	Light gray quartzite with some stringery and weakly disseminated pyrite. Occasional thin parting of black argillite towards end of section.	207.0	210.0	1.2					
		210.0	214.0	2.7					
		214.0	217.0	0.5					
		217.0	219.0	1.1					
205.0-209.0	Mainly broken buttons and chips of dark gray argillite with a few irregular patches and an occasional ½" band of gray quartzite. The core is somewhat mylonitic; minor stringery pyrite.	219.0	223.0	0.0					
		223.0	226.0	0.2					
		226.0	227.5	0.2					
		227.5	229.5	0.3					
		229.5	232.0	0.9					
209.0-219.0	Broken buttons and chips of light gray quartzite with irregular, thin partings of black argillite and scattered stringery pyrite.	232.0	235.0	0.4					
		235.0	236.0	0.2					
		236.0	238.5	0.3					
219.0-223.0	No core - mud seam (drillers note).	238.5	240.0	0.4					
223.0-243.0	Broken buttons and chips of light gray quartzite with black argillite partings. Between 226.0 - 229.5 there is a few chips of green argillite.								
	END OF HOLE								

CLAIM NO. .....

DIAMOND DRILL RECORD

PROPERTY McMillan Property HOLE NO. 59 Sht 4

LATITUDE Core Recovery - 60.8% ELEVATION 617' Length - 24.3' BEARING Vert - 24.3' DEPTH STARTED July 26/54 COMPLETED July 30/54

DEPARTURE SECTION DIP - 90° (Recovery) DRILLED BY LOGGED BY D. Olson

DEPTH FEET	FORMATION	SAMPLE NO.	FROM	TO	WIDTH	ASSAYS			
	Length of hole 243.0'								
	Overburden 15.0'								
	Rock Drilled 228.0'								
	Core Length 138.6'								
	Shorts 89.4'								
	% Recovery - $\frac{138.6}{228.0} \times 100 = 60.8\%$								

CLAIM NO. .....

DIAMOND DRILL RECORD

PROPERTY McMillan Option HOLE NO. 60 Sht 1

LATITUDE ..... ELEVATION 608.0' BEARING ..... DEPTH ..... STARTED July 30/54 COMPLETED Aug. 10/54

Core Recovery - 42.2% Length - 351.0' Vert. - 351.0'

DEPARTURE ..... SECTION ..... DIP - 90° (Recovery) DRILLED BY ..... LOGGED BY D. Olson & A. Burton

DEPTH FEET	FORMATION	From	To	Core Lgth	SAMPLE NO.	FROM	TO	WIDTH	ASSAYS
0.0-176.0	Overburden.								
0.0-176.0	AX Casing.								
0.0-177.0	EX Casing.	176.0	178.0	0.7					
176.0-182.8	Purple argillite, scattered irregular	178.0	180.0	1.2					
	bands and patches of gray quartzite.	180.0	181.3	1.5					
	Banding at 182' is 50° to core.	181.3	183.2	1.6					
182.8-187.6	Mainly broken buttons and chips pink ar-	183.2	187.5	1.6					
	gillite with 2" button gray quartzite	187.5	192.3	1.3					
	contorted with pink argillite at 184.7'.	192.3	196.2	1.0					
	Excellent banding at 187' is 50° to core.	196.2	197.8	1.2					
187.6-192.0	Mainly purple argillite; occasional ½"	197.8	200.1	0.9					
	button gray quartzite. Banding at 189' is	200.1	202.5	2.3					
	70° to core.	202.5	204.2	1.8					
192.0-194.3	Buttons and chips gray quartzite.	204.2	209.6	2.4					
194.3-197.6	Broken buttons and chips pink argillite	209.6	210.7	0.9					
	with a few scattered bands green argil-	210.7	211.2	0.5					
	lite. Banding at 195' is 60° to core.	211.2	215.1	1.3					
197.6-202.8	Broken buttons and chips pink and purple.	215.1	217.2	0.9					
	argillite. 201.2' to 201.9' is breccia-	217.2	220.3	1.0					
	.ted pink argillite with gray quartzite	220.3	223.8	1.1					
	and white quartz. Banding irregular.	223.8	225.7	0.0					
202.8-208.0	Broken buttons and chips of mainly gray	225.7	227.0	0.7					
	quartzite with thin irregular bands	227.0	227.7	0.7					
	yellowish-green argillite and occasional	227.7	232.3	1.6					
	thin bands pink argillite. Crude banding	232.3	237.3	0.0					
	at 204.2 to 208.0 - minor disseminated	237.3	241.0	0.9					
	pyrite.	241.0	244.3	0.4					
208-0-215.2	Broken buttons and chips of mainly grey	244.3	246.0	0.7					
	quartzite with a few scattered, irregular	246.0	248.5	1.4					
	bands yellowish-green argillite. Banding	248.5	250.0	0.6					
	obscure.	250.0	252.3	0.6					
215.2-223.8	Broken buttons and chips of pinkish-gray	252.3	253.5	0.5					
	quartzite. Some of the quartzitechips	253.5	255.5	0.6					
	show thin films of yellowish-green argil-	255.5	257.0	0.2					
	lite. No banding observed.	257.0	259.3	0.2					
223.8-225.7	No core (Drillers' note).	259.3	262.0	0.8					
225.7-232.3	Broken buttons and chips of pink argil-								
	lite and gray quartzite in equal amounts.								
232.3-237.3	No core (Drillers' note).								

CLAIM NO. .....

DIAMOND DRILL RECORD

PROPERTY McMillan Property HOLE NO. 60 Sht 2

LATITUDE Core Recovery - 42.2% ELEVATION 608.0' Length - 351.0' BEARING Vert. - 351.0' DEPTH STARTED July 30/54 COMPLETED Aug. 10/54

DEPARTURE SECTION DIP - 90° (Recovery) DRILLED BY LOGGED BY D. Olson & A. Burton

DEPTH FEET	FORMATION	From	To	Core Lgth	SAMPLE NO.	FROM	TO	WIDTH	ASSAYS
237.3-241.0	Chips of grey argillite and grey quartzite.								
241.0-248.5	Chips of mainly gray quartzite with white quartz between 244.3 and 246.0.								
	246.0 - 247, few chips gray argillite. Last foot of section slightly limy.								
248.5-252.4	Chips of silicified limestone; very minor calcite and slightly vuggy.								
252.4-255.5	Grey argillite. Crude banding at 252.4' is 60° to core.								
255.5-272.4	Broken buttons and chips gray quartzite.	262.0	265.7	1.9					
	Occasional partings of gray and green	265.7	267.8	0.6					
	argillite.								
	265.0' - one chip shows few specks ZnS.	267.8	272.3	0.7					
	Crude banding at 264.0' is 70° to core.	272.3	274.8	1.2					
272.4-281.3	Broken buttons and chips of mainly im-	274.8	277.4	1.5					
	pure gray quartzite with scattered chips	277.4	279.9	1.1					
	gray argillite. Minor brecciation at	279.9	282.4	1.3					
	274.8'. Some of the quartzite buttons	282.4	284.2	0.5					
	show dark green chlorite or sericite	284.2	285.7	1.2					
	films. (Schisted argillite). 1" of white	285.7	287.5	0.4					
	quartzite at 280.5' and at 281.	287.5	288.6	0.5					
281.3-287.5	Broken buttons and chips of mainly gray	288.6	289.5	0.9					
	quartzite, with scattered chips of gray	289.5	292.3	2.4					
	and green argillite. Banding at 281.3	292.3	293.5	0.4					
	is45° to core.	293.5	295.7	1.4					
287.5-289.5	Broken buttons and chips of mainly gray	293.5	295.7	1.4					
	argillite with scattered chips gray	295.7	296.7	1.1					
	quartzite.								
289.5-291.7	Mainly gray quartzite with gray and	296.7	299.5	1.0					
	argillite interbands. Good banding is	299.5	302.0	1.2					
	55° to 60° through core.	302.0	304.4	0.5					
291.7-302.0	Broken buttons and chips gray quartzite	304.3	305.5	0.2					
	(fine grained) with occasional 1/8"	305.5	307.0	0.4					
	bands gray and green argillite. Possible	307.0	308.0	0.8					
	banding at 295 is about 85° to core;	308.0	310.3	1.1					
	One button white quartz at 299.5'.	310.3	313.7	2.6					
302.0-318.0	Gray and green argillite, with excel-	313.7	318.0	2.0					
	lent banding at 311.5' at 60° to core	318.0	320.0	0.7					
	and at 316 the band is distorted and	320.0	320.5	0.6					

CLAIM NO. .....

DIAMOND DRILL RECORD

PROPERTY McMillan Property HOLE NO. 60 Sht 3

LATITUDE ..... ELEVATION 608.0' BEARING ..... DEPTH ..... STARTED July 30/54 COMPLETED Aug. 10/54

Core Recovery - 42.2% Length - 351.0' Vert. - 351.0'

DEPARTURE ..... SECTION ..... DIP - 90° (Recovery) DRILLED BY ..... LOGGED BY D. Olson & A. Burton

DEPTH FEET	FORMATION	From	To	Core Lgth	SAMPLE NO.	FROM	TO	WIDTH	ASSAYS
	at times parallels the core.	320.5	321.7	1.1					
318.0-320.5	Buttons and chips of white to gray	321.7	325.0	0.4					
	limestone. At 320.0' some sand recovered	325.0	326.0	0.5					
	(probably case).	326.0	328.3	1.0					
320.5-326.0	Mostly chips of mainly green and gray	328.3	330.0	0.7					
	argillite, with a few chips gray quart-	330.0	331.0	0.9					
	zite.								
326.0-329.5	Buttons and chips of gray quartzite with	331.0	332.0	0.7					
	a few chips of greenish argillite.	332.0	333.0	0.9					
329.5-330.5	Limestone - barren.	333.0	334.0	0.6					
330.5-341.4	Broken buttons and chips limy quartzite	334.0	336.7	0.9					
	with scattered chips of green and gray	336.7	338.0	0.4					
	argillite through the section. Minor	338.0	339.5	1.0					
	breeciation at 334.5'. Between 338.0'								
	and 339.5 a few chips and buttons of pink	339.5	341.4	1.3					
	tinted and green argillite; banding	341.4	346.8	1.4					
	approximately 90° to core.								
341.4-351.0	Broken buttons and chips of pale olive	346.8	348.0	0.4					
	green argillite.	348.0	351.0	0.4					

END OF HOLE

Length of hole 351.0'

Overburden 176.0'

Rock drilled 175.0'

Core Length 73.9'

Core Recovery $\frac{73.9}{175.0} \times 100 = 42.2\%$

CLAIM NO. .....

DIAMOND DRILL RECORD

PROPERTY McMillan Property HOLE NO. 60 Sht 4

LATITUDE Core Recovery - 42.2% ELEVATION 608.0' Length - 351.0' BEARING Vert. - 351.0' DEPTH STARTED July 30/54 COMPLETED Aug. 10/54

DEPARTURE SECTION DIP - 90° (Recovery) DRILLED BY LOGGED BY D. Olson & A. Burton

DEPTH FEET	FORMATION	From	To	Core Lgth	SAMPLE NO.	FROM	TO	WIDTH	ASSAYS
	REMARKS:								
	Hole first cemented 324.0 - 341.4.								
	Cement was drilled out and the hole continued to cave. Hole was then								
	cemented between 218.0 - 260.0 and the hole was then deepened from								
	341.4 to 351.0. Any further drilling would necessitate running down cas-								
	ing which appeared unwarranted and the hole was abandoned.								

CLAIM NO. .....

DIAMOND DRILL RECORD

PROPERTY McMillan Property HOLE NO. 61 Sht. 1

LATITUDE Core Recovery 66.1% ELEVATION 626.0' Length - 396.0' BEARING Vert - 396.0' DEPTH STARTED Aug. 1/54 COMPLETED Aug. 9/54

DEPARTURE SECTION DIP - 90° (Recovery) DRILLED BY LOGGED BY D. Olson & A. Burton

DEPTH FEET	FORMATION	From	To	Core Lgth	SAMPLE NO.	FROM	TO	WIDTH	ASSAYS
0.0-35.0	Overburden.	35.0	38.0	1.2					
0.0-35.0	AX Casing.	38.0	41.0	1.0					
0.0-36.0	EX Casing.	41.0	44.0	0.8					
35.0-40.0	Broken buttons and chips brownish-pink	44.0	47.0	1.0					
	argillite with occasional thin 1/8" olive-	47.0	49.5	0.6					
	green band. Banding at 39.0' is 60° to	49.5	51.0	0.8					
	core.								
40.0-48.7	Purple banded argillite. Minor breccia-	51.0	53.0	1.1					
	tion at 44'. Banding at 46.0' is 65° to	53.0	55.0	2.1					
	core. Miniature fault at 46' is 15° to	55.0	60.0	5.0					
	core with ¼ - ½" displacement.	60.0	63.0	2.6					
48.7-54.7	Pink argillite with scattered bands dark	63.0	64.0	1.0					
	olive green argillite - banding at 53.3'	64.0	66.0	2.0					
	is at 70° to core. At 54.0' thread-like	66.0	68.5	2.1					
	fracture pyrite filled.	68.5	71.0	2.4					
54.7-58.8	Mainly purple argillite well banded with	71.0	74.0	2.0					
	some thin green and gray argillite bands.	74.0	79.0	5.0					
	Banding at 55.5' is 60° to core; at 58.0'	79.0	82.0	3.5					
	is 60°.								
58.8-60.6	Well banded pink and green argillite.	82.0	84.0	2.3					
	Banding at 60.3 is 60° to core.	84.0	86.0	1.9					
60.6-62.9	Purple argillite with a few thin inter-	86.0	89.5	2.0					
	bands greenish-gray argillite banded at	89.5	92.0	2.2					
	60° to core. Contact at 60.6 between pur-	92.0	95.5	1.5					
	ple and pink argillites is at 60° to core	95.5	100.0	2.2					
	and normal to general banding.	100.0	105.0	2.0					
62.9-64.0	Mainly pinkish argillite with a few	105.0	107.0	1.6					
	scattered bands of gray quartzite and								
	greenish argillite.								
	Banding 60° to core.	107.0	108.5	1.9					
64.0-69.8	Purple argillite with occasional band	108.5	112.0	3.1					
	(¼") of gray quartzite and green argillite.	112.0	115.0	2.8					
	Banding at 69.0' is 80° to core. At	115.0	119.0	4.4					
	69.7' small fault distorting banding.	119.0	124.0	3.6					
69.8-74.5	Pinkish argillite and odd thin band	124.0	126.5	1.4					
	greenish argillite. Banding obscure,	126.5	130.0	2.1					
	minor brecciation at 74.0'.	130.0	134.0	2.4					
74.5-84.1	Purple argillite; occasional ½" band	134.0	137.0	2.3					
	gray quartzite, banded 80° to core.	137.0	140.0	3.0					

CLAIM NO. .....

DIAMOND DRILL RECORD

PROPERTY McMillan Property HOLE NO. 61 Sht 2

LATITUDE ..... ELEVATION 626.0' BEARING ..... DEPTH ..... STARTED Aug. 1/54 COMPLETED Aug. 9/54

Core Recovery - 66.1% Length - 396.0' Vert. - 396.0'

DEPARTURE ..... SECTION ..... DIP - 90° (Recovery) DRILLED BY ..... LOGGED BY D. Olson & A. Burton

DEPTH FEET	FORMATION	From	To	Core Lgth	SAMPLE NO.	FROM	TO	WIDTH	ASSAYS
	Occasional irregular 1/8" calcite stringers.	140.0	143.0	2.1					
84.1-86.1	Mainly pink argillite with purple argillite from 85.5 to 86.1.	143.0	148.0	5.0					
		148.0	153.0	2.7					
86.1-122.0	Pinkish argillite with narrow green argillite interbands. Banding at 92.0 is	153.0	156.0	1.6					
		156.0	159.0	2.4					
	70° to core.								
	107.0 is 70° to core.	159.0	163.0	2.1					
	112.0 is 70° to core.	163.0	166.0	1.8					
	117.0 is 65° to core.	166.0	170.0	3.8					
	120.0 is 60° to core.	170.0	175.0	3.8					
	At 117.5 minor brecciation accompanied by	175.0	180.0	3.8					
	fractures filled with pyrite, and some	180.0	182.0	1.8					
	white quartz.	182.0	187.0	1.0					
		187.0	190.0	1.7					
122.0-134.2	Greenish Argillite with an odd thin band	190.0	191.0	0.6					
	of gray argillite. Banded 70° to core.	191.0	193.5	1.8					
134.2-135.2	White quartz in green argillite with a	193.5	195.0	1.1					
	few specks pyrite.	195.0	197.0	1.3					
135.2-162.5	Pale olive green argillite. Banding at	197.0	198.0	1.1					
	153 is 60° to core. At 149.1 is 6" of	198.0	201.0	1.0					
	white quartz with a few specks pyrite	201.0	203.0	2.1					
	and siderite.								
162.5-165.0	Interbanded pale and dark olive-green								
	argillite.								
	Banding at 55° to core.	203.0	206.0	2.3					
165.0-167.2	Pink argillite with narrow, green argillite interbands. Banding is at 60°	206.0	210.0	1.8					
		210.0	213.0	1.2					
	to core.								
167.2-169.1	Purple argillite well banded at 60° to	213.0	217.0	2.8					
	core.								
169.1-196.0	Interbanded pink with narrow green argillite bands. Banding at 176.0 is 70°	217.0	221.0	2.1					
		221.0	225.0	2.0					
	to core. Between 191 and 195 the argil-	225.0	228.0	3.0					
	lite is somewhat silicified.	228.0	232.0	1.1					
196.0-198.0	Pinkish argillite brecciated at start	232.0	237.0	3.0					
	and end of section; with few specks PbS	237.0	239.0	2.5					
	and ZnS along with minor stringers pyrite	239.0	242.0	3.2					
	and some siderite mineralizing brecciated	242.0	245.0	3.1					
	zones. (fracture filling)	245.0	248.0	1.1					

CLAIM NO. .....

DIAMOND DRILL RECORD

PROPERTY McMillan Property HOLE NO. 61 Sht 3

LATITUDE ..... ELEVATION 626.0' BEARING ..... DEPTH ..... STARTED Aug. 1/54 COMPLETED Aug. 9/54

Core Recovery - 66.1% Length - 396.0° Vert. - 396.0'

DEPARTURE ..... SECTION ..... DIP - 90° (Recovery) DRILLED BY ..... LOGGED BY D. Olson & A. Burton

DEPTH FEET	FORMATION	From	To	Core Lgth	SAMPLE NO.	FROM	TO	WIDTH	ASSAYS
198.0-270.5	Pink argillite with narrow green argillite interbands.	248.0	252.0	2.7					
		252.0	255.0	1.1					
	199 - 201 - few chips white quartz with odd speck of pyrite and PbS.	255.0	258.5	1.8					
		258.5	261.0	1.9					
	201.5' - is 3/8" stringer of white quartz at 20° from core.	261.0	266.0	1.7					
		266.0	269.0	2.0					
	204.5' - irregular stringer white quartz.	269.0	271.5	1.3					
	213.0' - thread like fractures ZnS & PbS filled.	271.5	274.0	1.7					
		274.0	277.5	4.4					
	214.0' - 6" impregnated by white quartz and minor stringery pyrite.								
	220.5' - 2" of coarse grained siderite with some stringery pyrite and threadlike fractures of boulangerite (?).								
	237.5' - Irregular 1" stringer white quartz with few specks pyrite.								
	240.5' - 1/8" irregular stringer vuggy white quartz.								
	248.0' - Few feathery thread like fractures of PbS and ZnS.								
	260.9 - 269' - Several feathery thread-like fractures with visible PbS & ZnS.								
	Banding at 204 is 60° to core. 205 is 75° to core. 215 is 70° to core. 223 - 224 is 60° to core. 235 is 80° to core. 242 is 65° to core. 260 is 70° to core.								
270.5-279.0	Greenish-gray argillite. Banding at 272' is 70° to core. 271.5 - 272.2 some irregular patches of limy gray quartzite.	277.5	280.0	2.4					
		280.0	282.0	0.8					
		282.0	286.0	1.3					
279.0-282.5	Limy, greenish argillite. Banding at 282 is 55° to core. At 281.0' a 1/8" irregular pyrite filled fracture.	286.0	288.5	1.4					
		288.5	291.5	1.6					
		291.5	296.0	3.8					
282.5-290.0	Pale gray argillite with an occasional speck and threadlike fracture of pyrite.	296.0	298.0	1.2					
		298.0	299.5	1.0					
290.0-291.2	Limy argillite in part silicified with	299.5	303.5	2.0					

CLAIM NO. ..... **DIAMOND DRILL RECORD** PROPERTY McMillan Property HOLE NO. 61 Sht 4

LATITUDE Core Recovery - 66.1% ELEVATION 626.0' Length - 396.0" BEARING Vert. - 396.0° DEPTH STARTED Aug. 1/54 COMPLETED Aug. 9/54

DEPARTURE SECTION DIP - 90° (Recovery) DRILLED BY LOGGED BY D. Olson & A. Burton

DEPTH FEET	FORMATION	From	To	Core Lgth	SAMPLE NO.	FROM	TO	WIDTH Rec.	ASSAYS Pb%	Zn%	Ag oz.	Au oz.
	a few visible specks of PbS and pyrite in fractures.	303.5	305.0	0.7								
291.2-296.0	Greenish gray argillite with an 1½" button at 295.0' being limy quartzite.	305.0	308.5	0.6								
	The core exhibits a few feathery thread-like fractures of pyrite.	308.5	310.0	2.1								
296.0-299.6	Greenish gray argillite somewhat silici-	310.0	313.0	2.0								
	fied and limy. Banding obscure.	313.0	315.0	1.0								
299.6-309.3	Broken buttons and chips mainly pale	315.0	318.0	1.5								
	green argillite with 1" button of dolo-	318.0	321.0	1.3								
	mitic rock at 304.5', 305.0' and 308.5'	321.0	324.0	0.7								
	showing few specks of PbS, ZnS and pyr-	324.0	327.0	2.2								
	ite. At 308.8' there is 3" of dissemin-	327.0	330.0	3.3								
309.3-318.0	Broken buttons and chips; somewhat pink	330.0	333.5	1.0								
	argillite with scattered buttons and thin	333.5	335.5	0.6								
	partings of green argillite. Some PbS,	335.5	339.5	1.6								
	ZnS and pyrite occurs as scattered specks	339.5	344.5	1.7								
	and feathery fractures.	344.5	347.0	1.3								
318.0-326.0	Broken buttons mainly greenish argillite.	347.0	351.0	3.8								
	At 325.5 a ½" button and at the end of	351.0	353.0	1.5								
	section 3" of siliceous limy argillite	353.0	357.0	1.0								
	exhibiting a few specks of PbS. Crude	357.0	360.0	1.0								
	banding at 320.0' is 60° to core.											
326.0-333.0	Broken buttons and chips of pink tinted and green argillite in part silicified											
	at 327.5' and 329.5'. Pyrite occurs as a few scattered specks in these silici-											
	fied parts. Crude banding at 329.0' is 60° to core.											
333.0-335.5	Dolomite?? or Limy quartzite with minor pyrite.											
335.5-344.5	Broken buttons and chips of pale green argillite with an odd chip probably in-				8036	340	350	3.8	0.01	0.03	0.02	0.003
344.5-355.0	troduced quartz. Mainly white limestone with some inter-				8037	350	360	3.1	0.20	0.31	0.13	0.003
	bands and thin partings of green argil-											
	lite in the porportion 75% limestone											
	and 25% argillite. Some scattered specks											
	of PbS and ZnS in the limestone											

CLAIM NO. .....

DIAMOND DRILL RECORD

PROPERTY McMillan Property HOLE NO. 61 Sht 5

LATITUDE ..... ELEVATION 626.0' BEARING ..... DEPTH ..... STARTED Aug. 1/54 COMPLETED Aug. 9/54

Core Recovery - 66.1% Length - 396.0' Vert. - 396.0'

DEPARTURE ..... SECTION ..... DIP - 90° (Recovery) DRILLED BY ..... LOGGED BY D. Olson & A. Burton

DEPTH FEET	FORMATION	From	To	Core Lgth	SAMPLE NO.	FROM	TO	WIDTH Rec.	ASSAYS Ag.Oz.	Pb.%	Zn.%	Au oz.
355.0-360.0	Green silicified argillite with minor pyrite in the first 4" of section.											
360.0-365.0	Crude banding at 357.0 is 55° to core. Mainly greenish argillite with some	360.0	365.0	3.9								
	narrow pink tinted argillite bands. Mineralization consists of several	365.0	367.5	1.3								
	threadlike fractures filled with PbS,	367.5	371.0	2.4								
	ZnS and pyrite. At 364.5' there is	371.0	374.7	2.9								
	a ½" band of massive ZnS.											
365.0-371.0	Similar to above but with more white	374.7	378.5	3.0	974	360.0	365.0	5.0	0.3	0.5	2.8	
	quartz and pyrite filling the frac-	378.5	380.0	1.5								
	tures. At 371.0 a 3" band of heavily	380.0	383.0	2.3								
	disseminated pyrite in which is a 1"	383.0	386.0	3.3								
	band of heavy PbS and ZnS 45° to the	386.0	388.0	2.3	975	365.0	371.0	6.0	1.0	2.7	1.8	
	core.											
371.0-374.7	Green siliceous argillite which has a	388.0	391.3	1.5								
	somewhat shattered appearance. Several	391.3	393.0	1.1								
	irregular threadlike fractures are	393.0	396.0	1.3								
	mineralized with pyrite, PbS and ZnS. At 372.0 there is 6" of coarse mylonite.				901	371.0	374.7	3.7	2.7	4.8	3.3	
	At 374.0' there is a ¼" and a ½" band of heavy PbS and ZnS about 55° to core.				8038	374.7	383	5.2	0.10	0.15	1.05	0.003
	Two chips of heavy PbS, ZnS and pyrite at the end of section.											
374.7-383.0	Green siliceous argillite similar to the above section with a few scattered											
	specks of PbS and ZnS and (Tetrahedrite??). At 379.0 a ¼" band of heavy ZnS 80° to											
	core similarly at 382.8'. At 381.0 a ¼" band of heavy PbS and ZnS 65° to core.											
383.0-393.0	Coarse mylonite with scattered stringery pyrite and an occasional speck of ZnS.											
	(Probably the Black Fault Zone) The coarse fragments that make up the mylonite are											
	light gray quartzite and the black matrix probably resulting from black agrillite.											
393.0-396.0	Mostly cored bluish clay (gouge) with 2 chips of gray brecciated quartzite.											
	END OF HOLE											

CLAIM NO. .....

DIAMOND DRILL RECORD

PROPERTY McMillan Property HOLE NO. 61 Sht 6

LATITUDE Core Recovery - 66.1% ELEVATION 626.0' Length - 396.0' BEARING Vert. - 396.0' DEPTH STARTED Aug. 1/54 COMPLETED Aug. 9/54

DEPARTURE SECTION DIP - 90° (Recovery) DRILLED BY LOGGED BY D. Olson & A. Burton

DEPTH FEET	FORMATION	From	To	Core Lgth	SAMPLE NO.	FROM	TO	WIDTH	ASSAYS
	Length of hole 396.0'								
	Overburden 35.0'								
	Rock drilled 361.0'								
	Core recovered 238.5'								
	Core recovery $\frac{238.5}{361.0} \times 100 = 66.1\%$								

CLAIM NO. .....

DIAMOND DRILL RECORD

PROPERTY McMillan Property HOLE NO. 62, Sht 1

LATITUDE Core Recovery - 67.1% ELEVATION 794.0' Length - 503.0' BEARING Vert - 503.0' DEPTH STARTED Aug. 15/1954 COMPLETED Aug. 26/1954

DEPARTURE SECTION DIP - 90° DRILLED BY LOGGED BY C. Covey & L. Olson

DEPTH FEET	FORMATION	Recovery From	Recovery To	Recovery Core Lgth	SAMPLE NO.	FROM	TO	WIDTH	ASSAYS
	EX - 37.0'. AX - 10.0'.								
	Stand Pipe 0.0'								
0.0-9.0	Overburden.	10.0	14.0	2.1					
9.0-21.0	Gray quartzite grading into dark gray argillite in the last 2.5' of section.	14.0 18.5	18.5 21.0	1.5 1.5					
	There are a few thread-like fractures of quartz, siderite and pyrite. At 19.5' there is 3" of quartz with minor stringers of pyrite.	21.0 25.5 30.9	25.5 30.9 34.5	2.0 1.7 1.9					
21.0-25.5	Dark gray argillite with a few irregular thread-like fractures of quartz and some siderite. A few specks of pyrite. Rock has a shattered and squeezed appearance.	34.5 39.5 40.8 45.8	39.5 40.8 45.8 49.0	1.3 1.1 1.3 0.7					
25.5-28.5	Gray quartzite chips with a few thread-like fractures of pyrite.	49.0 51.0	51.0 54.0	1.5 3.0					
28.5-63.8	Gray quartzite with numerous, thin, irregular black agrillite partings and patches that on the broken surfaces have a slickensided appearance. Minor stringery pyrite between 60.0' - 62.0' with 3" of heavy pyrite at 61.0'. Section is brecciated in part. Possible Fault Zone. Shearing in mylonitic sections appears to be 75° - 80° to core.	54.0 58.0 60.0 62.0 64.0 67.0 70.5 72.5	58.0 60.0 62.0 64.0 67.0 70.5 72.5 76.5	2.9 1.0 1.4 1.4 1.3 3.0 1.4 3.9					
63.8-69.4	Light gray quartzite, medium-grained and having an occasional irregular patch and some thin fractures of quartz and siderite.	76.5 81.0 85.5	81.0 85.5 90.5	3.4 4.0 3.5					
69.4-72.5	Dark gray quartzite with a few thin partings of black argillite. Minor quartz and siderite fractures.	90.5 95.5 100.6	95.5 100.6 105.8	3.2 3.7 2.9					
72.5-74.5	Dark gray to black schisted argillite with numerous crisscrossing threadlike fractures of quartz and siderite. The schisted surfaces are slickensided. Possible banding or cleavage is 50°. Last 6" of section is gray quartzite with black argillite partings.								

CLAIM NO. .....

DIAMOND DRILL RECORD

PROPERTY McMillan Property HOLE NO. 62, Sht 2

LATITUDE ..... ELEVATION 794.0' BEARING ..... DEPTH ..... STARTED Aug. 15,1954 COMPLETED Aug. 26, 1954

Core Recovery - 67.1% Length - 503.0' Vert - 503.0'

DEPARTURE ..... SECTION ..... DIP - 90° DRILLED BY ..... LOGGED BY .....

DEPTH FEET	FORMATION	Recovery From	To	Core Lgth	SAMPLE NO.	FROM	TO	WIDTH	ASSAYS
74.5-99.0	Gray quartzite, medium grained. Black argillite partings in the quartzite between 77.4 - 78.1; 78.8 - 818; 83.0 - 83.3; 86.0 - 88.0; 92.0 - 92.6 and 95.4 - 95.9. 3" of gray argillite at 93.0'. Some feathery fractures of pyrite along with quartz and siderite throughout the section. Evidence of brecciation throughout the section.								
99.0-101.0	Mainly black argillite - some gray quartzite. Small lenticular fragments of gray quartzite along the cleavage or shearing direction which is generally about 75° to the core. The argillite surfaces are somewhat slickensided. A few siderite filled fractures.								
101.0-105.0	Gray brecciated quartzite, with thin partings and patches of black argillite	105.8 111.0	111.0 115.0	3.5 3.2					
105.0-110.0	Light gray quartzite with a few irregular specks and fractures of siderite - no banding.	115.0 118.0	118.0 121.5	2.4 2.5					
110.0-128.5	Gray brecciated quartzite with abundant irregular thin partings of black argillite. Several irregular thin fractures and patches of siderite. Possible banding at 118.0' is 60° to core. 121.0 - 125.0' almost black graphite argillite with small lenses of quartzite parallel to banding.	121.5 125.5 127.0 130.0 133.0 134.5 136.5 139.5	125.5 127.0 130.0 133.0 134.5 136.5 139.5 143.5	2.3 0.9 0.7 1.2 1.7 1.9 2.5 3.9					
128.5-139.0	Gray quartzite with an occasional thin irregular parting of black graphitic argillate towards the end of the section. An occasional 1/8" stringer of pyrate.	143.5 147.5 151.0	147.5 151.0 156.0	2.6 2.1 2.3					
139.0-140.0	Dark gray argillite with possible banding 50° to core.	156.0 158.3	158.3 161.7	2.4 1.6					
140.0-147.5	Gray quartzite with some irregular thin gray argillite bands in the first 6" of the section and a 1" button of dark gray argillite at the end of the section.	161.7 165.2 169.2 173.2	165.2 169.2 173.2 176.6	2.1 2.8 2.9 2.6					

CLAIM NO.

DIAMOND DRILL RECORD

PROPERTY McMillan Property HOLE NO. 62, Sht 3

LATITUDE Core Recovery - 67.1% ELEVATION 794.0' Length - 503.0' BEARING Vert - 503.0' DEPTH STARTED Aug. 15, 1954 COMPLETED Aug. 26, 1954

DEPARTURE SECTION DIP - 90° Recovery DRILLED BY LOGGED BY

DEPTH FEET	FORMATION	From	To	Core Lgth	SAMPLE NO.	FROM	TO	WIDTH	ASSAYS
147.5-161.7	Gray quartzite with an occasional thin irregular black argillite parting. Brec-	176.6	181.4	2.3					
		181.4	187.9	1.8					
	ciated 155.0' and 156.5'. 2" of dark gray argillite at 157.0'.	187.9	191.2	1.3					
		191.2	192.9	1.7					
161.7-169.2	Gray quartzite with numerous irregular partings and patches of dark gray to	192.9	194.8	1.3					
		194.8	197.0	2.2					
	argillite, some of which have a slick-	197.0	198.2	1.0					
	ensided appearance. Argillaceous be-	198.2	201.0	2.1					
	tween 164.0 - 166.0.								
169.2-181.5	Gray quartzite with an odd irregular	201.0	203.8	2.8					
	parting of dark gray argillite. A few	203.8	206.0	2.1					
	scattered and siderite filled fractures.	206.0	211.0	2.6					
181.5-188.0	Brecciated gray quartzite with minor scattered stringery pyrite and thin	211.0	212.0	1.0					
	irregular partings and patches of black argillite.								
188.0-215.5	White medium grained quartzite (grit). The rock has a somewhat bleached appear-								
	ance and distinguished by numerous white specks or spots, some of which are lea-								
	ched, leaving cavities, giving the rock a porous or vuggy appearance. Some of								
	the cavities effervesce in dilute (5%) Hcl, while other cavities do not. This								
	is also true of many of the white spots. The material composing the white spots								
	are generally soft and resemble kaolin. It may represent the weathering of a								
	feldspar leaving lime as a residue in some of the cavities. Some of the bro-								
	ken surfaces of the grit appeared to be sheared and have sericite??								
	or chlorite developed. 191.3-192.0 but-	212.0	215.5	1.5					
	tons phyllite 60° to core. At 193.5 a	215.5	218.0	2.5					
	½" quartz stringer 20° to core; 2" white	218.0	219.0	0.7					
	quartz at 177.0'; 1" at 201.0'; 1" at	219.0	222.5	3.1					
	202.0'; 211.0 - 212.0' white quartz and	222.5	226.5	2.8					
	1" at 215.5'. A few specks of rusty	226.5	229.5	2.0					
	material or siderite in the sections.	229.5	234.0	2.8					
	This section should make a good horizon	234.0	237.0	2.9					

CLAIM NO. .....

DIAMOND DRILL RECORD

PROPERTY McMillan Property HOLE NO. 62, Sht 4

LATITUDE Core Recovery - 67.1% ELEVATION 794.0' Length - 503.0' BEARING Vert -503.0' DEPTH ..... STARTED Aug. 15, 1954 COMPLETED Aug. 26, 1954

DEPARTURE ..... SECTION ..... DIP - 90° DRILLED BY ..... LOGGED BY .....

DEPTH FEET	FORMATION	From	To	Core Lgth	SAMPLE NO.	FROM	TO	WIDTH	ASSAYS
215.5-220.5	Mainly greenish gray phyllite with greenish gray quartzite bands as follows:- at	237.0	240.0	3.0					
		240.0	244.0	2.8					
	at 217.2 - 3" with white c_____ specks;	244.0	245.0	0.0					
	at 217.5 - 1" button of impure quartzite;	245.0	249.0	3.3					
	at 218.2 - 3" dark greenish gray quartzite. Indistinct banding at 217.5 is 60 -	249.0	251.0	1.8					
		251.0	254.3	2.0					
	65° to core.	254.3	256.8	1.6					
220.5-221.5	Quartzite, greenish gray, with a 1" button of qhite quartzite at 221.0'.	256.8	259.7	1.3					
		259.7	261.4	0.8					
221.5-226.7	Grit or whitish quartzite. Similar to section from 188.0 - k215.5'.	261.4	262.7	0.7					
		262.7	265.0	1.9					
226.7-234.5	Greenish gray phillite with greenish gray impure quartzite between 227.2 - 228.1 and 3" at 230.0'. The phyllite is mainly broken buttons with good banding at 232.0 - 60° to core.	265.0	268.0	1.9					
		268.0	269.5	1.3					
		269.5	271.8	1.4					
		271.8	275.4	1.5					
		275.4	276.4	0.7					
234.5-244.0	Mainly greenish gray quartzite, impure between 234.5 - 236.3 and broken buttons	276.4	279.0	1.6					
		279.0	281.0	1.1					
	of green phyllite between 236.3 - 236.9; 237.6 - 238.4; 238.6 - 238.7; 238.9 -	281.0	283.0	0.0					
	240.0; 240.7 - 243.4. Banding at 234.5 is 60° to core and at 239 - 65° to core.								
244.0-245.0	No core (drillers note).								
245.0-246.0	Grayish quartzite with abundant white quartz with a few specks of pyrite and siderite.								
246.0-250.0	Broken buttons and chips of greenish gray phyllite with good banding at 248.0 - 60° to core and cleavage 20 - 25° to the core.								
250.0-259.7	Broken buttons of greenish gray quartzite with numerous specks of white calcite (??) - 254.7 - 255.8 is greenish gray phyllite - 258.7 - 259.7 is impure greenish gray quartzite. At 259.6 a few chips of vuggy and brecciated quartzite with a few specks of pyrite.								

CLAIM NO. .....

DIAMOND DRILL RECORD

PROPERTY McMillan Property HOLE NO. 62, Sht 5

LATITUDE ..... ELEVATION 794.0° BEARING ..... DEPTH ..... STARTED Aug. 15/54 COMPLETED Aug. 26/54

Core Recovery - 67.1% Length 503.0' Vert - 503.0'

DEPARTURE ..... SECTION ..... DIP - 90° DRILLED BY ..... LOGGED BY .....

DEPTH FEET	FORMATION	From	To	Core Lgth	SAMPLE NO.	FROM	TO	WIDTH	ASSAYS
259.7-267.7	Grit (white quartzite). Similar to section 188.0 - 215.5. Grades into following section.								
267.7-270.5	Dark greenish gray quartzite or grit	283.0	286.0	1.4					
	with numerous white specks (calcite?).	286.0	287.0	0.6					
	A few scattered buttons of greenish	287.0	290.0	1.4					
	pyllite. Minor white quartz at 268.5. No banding observed.	290.0	294.0	2.3					
270.5-281.0	Greenish gray to gray phyllite. broken	294.0	296.6	1.4					
	buttons and chips. 3/4" band of white	296.6	299.2	1.5					
	quartz 20° to core at 279.5. Banding at	299.2	301.7	1.9					
	275.0 - 50° to core, at 278.0 - 30° to	301.7	304.0	2.3					
	core (may be cleavage(and at 280.0 - 50°.	304.0	307.0	2.0					
281.0-283.0	No core drillers note.	307.0	307.5	0.2					
283.0-293.3	Similar to section 270.5 - 281.0. Excel-	207.5	308.3	0.6					
	lent banding 50° to core. At 288.5 band-	308.3	309.7	1.4					
	ing is 50° to core; at cleavage appears	309.7	311.0	1.1					
	to be about 40° to the core. Banding at	311.0	312.6	0.7					
	291.5 is 70° to core.								
293.3-294.3	Quartzite, gray with an occasional irre-	312.6	316.8	3.1					
	gular thin fracture of siderite and an	316.8	318.9	1.8					
	odd speck of pyrrhotite (?).	318.9	322.0	1.7					
294.8-298.0	Thin buttons and chips of gray phyllite	322.0	324.0	1.1					
	with crude banding 45° to core.	324.0	326.5	1.5					
298.0-309.8	Gray to buff colored quartzite or grit.	326.5	329.0	1.7					
	From 302.0 - 309.8nresembles section	329.0	331.0	0.8					
	from 188.0 - 215.5 (grit). Between 299.2	331.0	334.0	1.5					
	- 300.4 two 1/8" stringers of pyrrhotite	334.0	336.0	1.6					
	and chalcopyrite. Fair amount of white quartz between 307.8 - 308.3. At 308.9 -								
	3" of greenish phyllite at 50° to core.								
309.8-314.1	Greenish gray phyllite with some bands								
	of greenish gray impure quartzite having white specks of calcite (?) At 310.3 -								
	3" of above quartzite and 6" at 311.5. A 2" band of white quartz at 310.0								
	roughly 35° to core. Good banding at 311.0 is 60° to core. At 314.0 banding								
	is 65° to core.								

CLAIM NO. .....

DIAMOND DRILL RECORD

PROPERTY McMillan Property HOLE NO. 62, Sht 6

LATITUDE ..... ELEVATION 794.0° BEARING ..... DEPTH ..... STARTED Aug. 15/54 COMPLETED Aug. 26/54

Core Recovery - 67.1% Length 503.0° Vert - 503.0°

DEPARTURE ..... SECTION ..... DIP - 90° DRILLED BY ..... LOGGED BY .....

DEPTH FEET	FORMATION	Core Recovery From	To	Lgth	SAMPLE NO.	FROM	TO	WIDTH	ASSAYS
314.1-315.2	Quartzite, greenish gray, fine-grained. Banding 60° to core.								
315.2-324.0	Phyllite, greenish gray-well banded 70° to core. Occasional 1" to 5" bands of greenish gray quartzite. grit.								
329.0-331.0	Greenish phyllite. Banding 80° to core.								
331.0-337.5	Greenish argillaceous quartzite. Grades into following.								
337.5-342.0	White to light gray grit with numerous white spots, some of which are leached giving the rock a somewhat vuggy appearance.								
342.0-349.0	Greenish argillaceous quartzite-somewhat gritty with scattered white spots.								
349.0-396.0	Phyllite, greenish - 1" brecciated button at 353.5. At 355.0 banding is 80° to core,								
	while cleavage appears to be about 25° to the core. From 357.0 - 368.0 rock shows	336.0	339.0	3.0					
		339.0	342.0	2.7					
	convolutions and drag folding. At 366.5	342.0	346.0	2.4					
	banding is parallel to the core. At	346.0	348.5	1.7					
	374.0' banding about 80° to core.	348.5	350.5	1.7					
396.0-401.0	Grayish quartzite - no banding.	350.5	354.0	2.4					
401.0-403.2	Gray phyllite - banding 70° to core.	354.0	357.0	3.0					
403.2-410.0	Greenish phyllite - banding 70 - 80° to core.	357.0	359.7	2.5					
410.0-411.8	White quartz.	359.7	363.0	2.6					
411.8-413.5	Grayish quartzite - minor specks of pyrite.	363.0	368.0	3.7					
413.5-414.0	Greenish phyllite - some thread-like fracture filled with pyrite.	368.0	369.0	0.4					
		369.0	370.5	0.9					
414.0-415.0	White quartz - a few specks of pyrite	370.5	374.7	3.1					
415.0-415.5	Grayish quartzite - some minor pyrrhotite	374.7	379.0	2.1					
	and chalcopyrite?	379.0	381.0	2.0					
415.5-417.3	White quartz.	381.0	382.5	1.5					
417.3-429.0	Grayish quartzite or grit. The last 3 feet	382.5	385.0	2.1					
	of the section have the white spots noted	385.0	388.0	2.8					
	above in the grits.	388.0	390.0	1.9					

CLAIM NO. .....

DIAMOND DRILL RECORD

PROPERTY McMillan Property HOLE NO. 62, Sht 7

LATITUDE ..... ELEVATION 794.0° BEARING ..... DEPTH ..... STARTED Aug. 15/54 COMPLETED Aug. 26/54

(Core Recovery - 67.1% Length 503.0° Vert - 503.0°

DEPARTURE ..... SECTION ..... DIP - 90° DRILLED BY ..... LOGGED BY .....

DEPTH FEET	FORMATION	Recovery From	To	Core Lgth	SAMPLE NO.	FROM	TO	WIDTH	ASSAYS
429.0-433.7	Whitish colored grit with white spots. Where spots are leached the rock has a somewhat vuggy or porous appearance.	390.0	392.0	1.8					
		392.0	394.0	2.0					
		394.0	396.0	1.8					
433.7-435.0	Graduation zone from the above grits to the following section,	396.0	398.5	1.7					
		398.5	402.0	2.1					
435.0-436.5	Greenish phyllite.	402.0	405.0	3.0					
436.5-439.0	Ground section - probably greenish phyllite.	405.0	408.0	1.2					
439.0-451.4	Greenish phyllite - cleavage appears to about 45° to core. Possible bedding 70 - 80° to core.	408.0	410.5	1.5					
		410.5	415.0	4.5					
		415.0	418.0	2.1					
451.4-468.0	Grayish white quartzite- coarse-grained minor specks of pyrite - no observed banding.	418.0	421.5	2.0					
		421.5	424.0	0.7					
468.0-471.5	No core (Driller's note).	424.0	427.7	3.0					
471.5-475.3	Dark green phyllite. Banding or cleavage at 472.5 is 50° to core. At 474.0 Banding is 80° to core while fine lines that appear to represent cleavage are at a more acute angle. Some miniature faulting between 473.0 - 474.0'.	427.7	432.0	3.8					
		432.0	436.0	3.3					
		436.0	440.0	3.5					
		440.0	441.2	0.9					
		441.2	443.5	1.7					
		443.5	445.3	1.1					
475.3-503.0	Grayish quartzite with a scattering of minor pyrite. At 482.0 a ¼" fracture at 20° to core is filled with pyrite. Between 486.0 and 488 there are several minor fractures at 20° to core filled with chalcopyrite. Minor Pb specks around 501.0'.	445.3	449.8	1.5					
		449.8	452.2	1.9					
	END OF HOLE								
	The quartzites from 188.0 to the end of the hole for the most resemble grits with some sections being better representative than others. Relation of banding and cleavage suggest no overturning of the strata.	452.2	454.7	0.9					
		454.7	456.0	1.1					
		456.0	459.0	2.4					
		459.0	462.0	3.0					
		462.0	466.0	1.8					
		466.0	468.0	1.2					

CLAIM NO. .....

DIAMOND DRILL RECORD

PROPERTY McMillan Property HOLE NO. 62, Sht 8

LATITUDE ..... ELEVATION 794.0° BEARING ..... DEPTH ..... STARTED Aug. 15/54 COMPLETED Aug. 26/54

Core Recovery Length 503.0° Vert - 503.0°

DEPARTURE ..... SECTION ..... DIP - 90° DRILLED BY ..... LOGGED BY .....

(Recovery)

DEPTH FEET	FORMATION	From	To	Core Lgth	SAMPLE NO.	FROM	TO	WIDTH	ASSAYS
	RECOVERY	468.0	471.5	0.0					
		471.5	474.5	3.0					
	Length of hole 503.0'	474.5	475.5	1.0					
	Overburden 10.0'	475.5	481.0	4.4					
	Rock drilled 493.0'	481.0	485.7	4.7					
		485.7	491.0	3.6					
	Recovered 330.7'	491.0	492.0	0.8					
		492.0	496.1	3.5					
	% Recovery 330.7 / 493.0 x 100.00 = 67.1%	496.1	501.0	2.9					
		501.0	503.0	1.3					
	Rods sanded at 502.0'. To deepen hole sould require reaming with EX and AX casing for 502'.								
	NOTE: The rock from collar to 188.0' appears to be drilled in a faulted or shattered zone.								

CLAIM NO. .....

DIAMOND DRILL RECORD

PROPERTY McMillan Property HOLE NO. 63, Sht 1

LATITUDE ..... ELEVATION 885.0' BEARING ..... DEPTH ..... STARTED 1 Sept/54 COMPLETED 7 Sept/54

Core Recovery- 69.9% Length - 356.0 Vert - 356.0'

DEPARTURE ..... SECTION ..... DIP -90° DRILLED BY ..... LOGGED BY .....

Recovery

DEPTH FEET	FORMATION	From	To	Core Lgth	SAMPLE NO.	FROM	TO	WIDTH	ASSAYS
	Stand Pipe 0.0'.	14.0	17.0	1.7					
	AX Casing 14.0'.	17.0	20.0	2.8					
	EX Casing 55.0'.	20.0	23.0	0.8					
0.0-14.0	Overburden.	23.0	25.0	1.1					
14.0-19.0	Grayish quartzite, brecciated and with black graphitic argillite parting and	25.0	28.0	0.5					
	patches.	28.0	31.0	2.1					
19.0-56.5	Mainly black graphitic argillite with	31.0	35.0	2.1					
	crisscrossing veinlets of white quartz.	35.0	38.8	2.1					
	Some sections show quartzite patches that	38.8	41.0	1.1					
	brecciated and sheared. Some crude banding 60 - 80° to core.	41.0	45.0	1.4					
56.5-60.5	Broken buttons of gray brecciated quartzite	45.0	48.7	1.0					
	with black graphitic parting.	48.7	51.5	0.8					
60.5-63.5	Mainly black graphitic argillite with	51.5	56.5	1.0					
	small crisscrossing fractures of white	56.5	60.5	2.2					
	quartz.								
63.5-72.0	Gray quartzite with black graphitic par-	60.5	64.0	2.8					
	ting. The more graphitic sections showing	64.0	67.0	1.3					
	crisscrossing small fracture filled with	67.0	70.0	3.0					
	white to gray quartzite - 4" white quartz	70.0	73.0	3.0					
	at end of section.	73.0	77.0	2.5					
72.0-84.0	Mainly black graphitic argillite 78.5 -	77.0	79.0	1.8					
	81.0 buttons of gray quartzite. Between	79.0	81.0	0.9					
	76 - 78.5 pyrite filled fractures that	81.0	83.0	1.1					
	vary from 1/16" up to ¼". Some of frac-	83.0	85.3	2.2					
	tures show minute displacements.	85.3	89.0	3.2					
84.0-170.6	Gray brecciated quartzite with black gra-	89.0	93.0	2.5					
	phitic partings. The brecciation is so	93.0	97.0	1.9					
	strong in certain parts of the section	97.0	99.5	2.5					
	that so sections are best described as	99.5	104.8	3.3					
	coarse mylonites - 96.5 - 98.0 black	104.8	107.0	0.7					
	graphitic argillite. At 104.0 two 1"	107.0	110.2	1.4					
	fractures filled with pyrite. At 103.8	110.2	112.5	0.8					
	a ¼" fracture of pyrite about 25° to core.	112.5	115.8	1.8					
	Crude banding in the quartzite at 98.0'	115.8	118.0	1.0					
	is 50° to core. At 141.0 - 65° to core.	118.0	121.0	0.7					
170.6-	No core (Driller's note)	121.0	125.2	1.8					
173.0									

CLAIM NO. .....

DIAMOND DRILL RECORD

PROPERTY McMillan Property HOLE NO. 63, Sht 2

LATITUDE ..... ELEVATION 885.0' BEARING ..... DEPTH ..... STARTED 1 Sept/54 COMPLETED 7 Sept/54

Core Recovery - 69.9% Length - 356.0 Vert - 356.0'

DEPARTURE ..... SECTION ..... DIP - 90° DRILLED BY ..... LOGGED BY .....

Recovery

DEPTH FEET	FORMATION	From	To	Core Lgth	SAMPLE NO.	FROM	TO	WIDTH	ASSAYS
173.0-224.0	This section is similar to the section before the No Core section. Still strong evidence of shearing and brecciation. Some of the quartzite fragments are nearly 1" square (198.8). Towards the end of the section the quartzite black partings are not so numerous and the quartzite appears cleaner and not so badly brecciated.	125.0	128.2	1.7					
		128.2	132.0	2.2					
		132.0	136.0	2.1					
		136.0	140.0	3.0					
		140.0	144.0	3.3					
		144.0	146.0	1.7					
		146.0	149.5	2.4					
		149.5	152.0	0.8					
224.0-227.3	Gray m.g. quartzite - practically free of black partings.	152.0	155.0	1.2					
		155.0	158.0	2.5					
227.3-232.0	Darkish gray argillaceous quartzite - brecciation. Minor spots of pyrite.	158.0	160.0	2.0					
		160.0	165.0	4.0					
232.0-261.0	Light gray m.g. quartzite - no partings.								
261.0-269.0	Impure gray quartzite, brecciated in part green to black parting that appear slicken sided on the broken surfaces - some of the partings appear to be somewhat phyllitic.	165.0	167.7	1.7					
		167.7	170.5	2.0					
		170.5	173.0	2.5					
		173.0	176.0	1.0					
269.0-271.8	Impure gray quartzite - with black to green partings. Crude banding 65° to core. Some minor quartz filled fractures.	176.0	180.0	1.9					
		180.0	183.0	0.5					
		183.0	185.0	1.8					
271.8-274.5	Gray quartzite.	185.0	187.7	2.4					
274.5-278.5	Gray quartzite with black graphite partings at 276' is 55 - 60° to core.	187.7	189.3	0.7					
		189.3	192.0	2.3					
278.5-283.2	Light grayish quartzite - 2" irregular of phyllite at 282.0'.	192.0	193.4	1.4					
		193.4	195.8	2.4					
283.2-288.0	Dark gray to blackish argillaceous quartzite. Scattered threadlike fractures filled with pyrite. Some siderite and white quartz filled fractures.	195.8	198.8	2.9					
		198.8	203.5	4.7					
		203.5	205.6	1.4					
		205.6	206.9	0.7					
288.0-290.0	Light gray quartzite.	206.9	210.6	3.7					
290.0-311.0	Light to dark quartzite with increase in black graphite partings toward the end of the section - 304.0' - 306.0' brecciated. Minor brecciation at 290.0'.	210.6	211.0	0.4					
		211.0	212.0	0.9					
		212.0	214.7	2.5					
		214.7	218.5	2.9					
	Spotty Siderite.								
311.0-313.8	Quartzite with abundant black argillite parting which gives the rock a black color. Well brecciated.	218.5	221.0	1.1					
		221.0	223.0	1.1					

CLAIM NO. .....

DIAMOND DRILL RECORD

PROPERTY McMillan Property HOLE NO. 63, Sht 3

LATITUDE Core Recovery - 69.9% ELEVATION 885.0' Length - 356.0 BEARING Vert - 356.0' DEPTH STARTED 1 Sept/54 COMPLETED 7 Sept/54

DEPARTURE SECTION DIP 90° DRILLED BY LOGGED BY

DEPTH FEET	FORMATION	From	To	Core Lgth	SAMPLE NO.	FROM	TO	WIDTH	ASSAYS
313.8-330.3	Gray quartzite with numerous black ar-	226.0	229.3	3.3					
	gillite partings although not as numer-	229.3	232.0	2.5					
	ous as the above section - 320.0 - 321.5	232.0	234.5	2.0					
	brecciated.								
330.3-337.2	Brecciated gray quartzite with black ar-	234.5	238.00	2.2					
	gillite partings and irregular patches.	238.0	241.00	3.0					
337.2-356.0	Mainly grayish quartzite.	241.0	244.0	2.5					
	342.5 - 343.0 black argillite.	244.0	247.0	1.7					
	348.0 - 349.0 green phyllite (??).	247.0	249.0	1.0					
	353.8 - 354.4 black argillite.	249.0	254.0	5.0					
	354.4 - 354.6 green phyllite.	254.0	257.0	2.3					
		257.0	261.0	2.4					
	END OF HOLE	261.0	264.0	2.2					
		264.0	266.0	1.4					
		266.0	270.0	4.0					
	NOTE: Breakdown of rock types are ar-	270.0	275.2	5.0					
	bitrary only as rock grade back and forth	275.2	278.0	2.2					
	without any recognizable contacts. From	278.0	281.0	2.2					
	collar to 224.0' the rock is badly brec-	281.0	286.3	5.0					
	ciated with numerous black graphitic ar-	286.3	290.0	3.7					
	gillite partings. In places the argil-	290.0	294.5	4.5					
	lite with quartzite fragments constitutes	294.5	299.5	5.0					
	the bulk of the section. Beyond 224.0 the	299.5	304.0	3.7					
	brecciation appears to lessen in intensity	304.0	308.0	2.4					
	although locally some sections appear	308.0	311.5	3.2					
	strongly brecciated. The gray quartzite	311.5	316.5	5.0					
	towards the end of the hole are generally	316.5	321.5	4.5					
	clean and free from partings. The hole	321.5	326.9	3.9					
	from the collar to the bottom appears to	326.9	330.4	1.2					
	be drilled in a fault zone.	330.4	334.0	3.2					
		334.0	337.0	1.3					
		337.0	339.0	1.1					
	Length of hole 356.0'	339.0	342.5	2.4					
	Overburden 14.0'	342.5	345.0	2.2					
	342.0'	345.0	348.0	2.7					
		348.0	351.2	2.6					
	Core Recovery 239.1'	351.2	356.0	4.1					

CLAIM NO. .....

DIAMOND DRILL RECORD

PROPERTY McMillan Y HOLE NO. 63, Sht 4

LATITUDE ..... ELEVATION 885.0' BEARING ..... DEPTH ..... STARTED 1 4 COMPLETED 7 Sept/54

Core Recovery - 69.9% Length - 356.0 Vert - 356.0'

DEPARTURE ..... SECTION ..... DIP 90° DRILLED BY ..... LOGGED BY .....

DEPTH FEET	FORMATION	From	To	Core Recovery Lgth	SAMPLE NO.	FROM	TO	WIDTH	ASSAYS
	% core recovery $\frac{239.1}{342.0}$ x 100 = 69.9%								
	The strong EM readings are probably due to the abundant graphitic argillite in the rock.								

DIAMOND DRILL RECORD

CLAIM NO. | PROPERTY McMillan Property | HOLE NO. 64, Sht. 1

LATITUDE | ELEVATION 883.6' | BEARING | DEPTH | STARTED 9 Sept/54 | COMPLETED 16 Sept/54

Core Recovery 78.7% | Length - 400.0' | Vert. 400.0' | DIP -90°

DEPARTURE | SECTION | DRILLED BY | LOGGED BY CJCoveney & ABurton

DEPTH FEET	FORMATION	RECOVERY From	To	Core Lgth	SAMPLE NO.	FROM	TO	WIDTH	ASSAYS
	Stand Pipe 22.0'								
	AX Casing 35.0'								
	EX Casing 56.0'								
0.0-36.0	Overburden	36.0	40.0	1.8					
36.0-48.0	Grey-banded limestone - banding approx.	40.0	45.0	1.0					
	85° to core.	45.0	48.0	0.8					
48.0-75.5	Grey brecciated quartzite with scattered	48.0	50.5	0.5					
	stringy pyrite particularly between 60.5	50.5	51.0	0.5					
	to 70.5'.	51.0	53.0	0.7					
75.5 -	Black argillite showing slickensides on	53.0	56.5	0.6					
119.2	broken surfaces, numerous threadlike criss-	56.5	60.0	1.6					
	crossing fractures filled with both siderite	60.0	63.0	2.9					
	(and quartz?) and some pyrite. Locally	63.0	66.5	2.8					
	narrow grey quartzite which is well brecc-	66.5	70.5	3.3					
	iated. Most of the buttons break at nearly	70.5	72.5	2.0					
	right angles to the core.	72.5	76.0	2.4					
119.2-	Grey brecciated quartzite with minor black	76.0	78.0	2.0					
130.5	argillite partings which are slickensided	78.0	81.0	1.7					
	on broken surfaces, with occasional thread-	81.0	84.5	2.8					
	like stringers of pyrite.	84.5	88.5	2.5					
130.5-	Grey badly brecciated quartzite with abund-	88.5	92.0	3.5					
146.0	dant irregular partings and patches of black	92.0	96.5	4.0					
	graphitic argillite. Argillite makes up	96.5	101.5	2.4					
	about 40% of core. From 137.3' to 146.0'	101.5	106.0	1.3					
	some scattered, irregular stringy pyrite.	106.0	109.0	1.0					
	No definite banding, alt ough suggestion	109.0	112.0	1.3					
	that banding may be 70° - 80° to core.	112.0	115.1	2.5					
	Section grades into the following:	115.1	119.2	1.0					
146.0-	Similar to above with abundance of pyrite	119.2	121.5	1.6					
154.5	occuring as narrow stringers, irregular	121.5	122.7	1.3					
	patches and disseminations, at 147' some	122.7	125.4	2.5					
	crude banding 80° to core.	126.4	129.5	2.9					

CLAIM NO. .....

DIAMOND DRILL RECORD

PROPERTY McMillan Property HOLE NO. 64, Sht 2

LATITUDE Core Recovery - 78.7% ELEVATION 883.6 Length - 400.0' BEARING Vert. 400.0' DEPTH STARTED 9Sept/54 COMPLETED 16 Sept/54

DEPARTURE SECTION DIP -90° DRILLED BY LOGGED BY CJCoveney & ABurton

DEPTH FEET	FORMATION	RECOVERY From	To	Core Lgth	SAMPLE NO.	FROM	TO	WIDTH	ASSAYS
154.5-178.1	Rock type similar to previous two sections but pyrite not as abundant as in the previous section. From 167' to 172' section contains stringery pyrite; at 169' is 1/4" fracture of solid pyrite about 45° to core. From 170' to 175' some of the partings appear to be somewhat phyllitic.	219.5	131.1	1.4					
		131.1	132.7	1.6					
		132.7	134.0	1.2					
		134.0	137.3	2.0					
		137.3	140.3	3.0					
		140.3	144.0	3.7					
		144.0	148.0	4.0					
178.1-184.2	Grey phyllite with some irregular stringers of grey quartz (and siderite); crude banding about 70° to core.	148.0	152.5	4.5					
		152.5	154.0	1.2					
		154.0	157.5	2.5					
184.2-186.5	Grey quartzite with numerous irregular patches and partings of black graphitic argillite.	157.5	160.0	1.6					
		160.0	163.0	2.0					
186.5-191.5	Mainly grey phyllite; minor stringery pyrite; crude banding at 188' is 50° to core.	163.0	168.0	5.0					
		168.0	173.2	5.0					
191.5-193.0	Black graphitic argillite containing fragments of grey quartzite-structure resembles that of a coarse mylonite.	173.2	178.2	5.0					
		178.2	183.2	5.0					
		183.2	188.2	5.0					
193.0-232.0	Grey quartzite	188.2	193.3	5.0					
	193.5 - 194.0- black argillite partings.	193.3	198.3	5.0					
	195.3 - 195.8 - black argillite partings.	198.3	203.4	3.5					
	199.9 - 200.4 - black argillite partings.	203.4	206.0	1.4					
	209.0 - 210.0 - grey phyllite.	206.0	209.5	1.6					
	224.0 - 225.0 - grey phyllite.	209.5	214.5	4.1					
	226.0 - 227.5 - grey phyllite.	214.5	219.0	4.2					
	228.5 - 229.0 - grey phyllite.	219.0	221.5	1.4					
	217.5 - 218.0 - coarse stringery pyrite.	221.5	226.5	5.0					
232.0-236.0	Grey phyllite; minor pyrite	226.5	231.0	4.5					
236.0-238.0	Grey fine grained quartzite; no argillite partings	231.0	234.0	2.9					
		234.0	239.2	5.0					

CLAIM NO. .....

DIAMOND DRILL RECORD

PROPERTY McMillan Property HOLE NO. 64, Sht. 3

LATITUDE ..... ELEVATION 883.6' BEARING ..... DEPTH ..... STARTED 9 Sept/54 COMPLETED 16 Sept/54

Core Recovery - 78.7% Length - 400.0' Vert - 400.0'

DEPARTURE ..... SECTION ..... DIP -90° DRILLED BY ..... LOGGED BY CJCovaney & ABurton

RECOVERY

DEPTH FEET	FORMATION	From	To	Core Lgth	SAMPLE NO.	FROM	TO	WIDTH	ASSAYS
238.0-244.2	Greyist phyllite with some threadlike fractures filled with siderite; 4" of grey quartzite at 240'; 8" of grey quartzite at 242.5'.	239.2	244.2	4.5					
		244.2	249.2	3.1					
		249.2	254.2	5.0					
		254.2	259.4	2.8					
244.2-248.2	Grey quartzite; 247.8' is 3" grey phyllite.	259.4	262.2	2.7					
248.8-249.0	Grey quartzite.								
249.0-250.7	Mainly greyish phyllite, somewhat brecciated.								
250.7-253.5	Grey phyllite quartzite.								
253.5-255.2	Greyish phyllite; has somewhat of a sheared appearance.								
255.2-260.7	Grey quartzite.								
260.7-263.2	Greyish phyllite, broken buttons.								
263.2-271.0	Grey quartzite, minor scattered pyrite. 2" band of phyllite near end of section.								
271.0-275.0	Buttons of greyish phyllite.								
275.0-277.7	Grey quartzite with a few narrow phyllite partings.								
277.7-284.0	Greyish phyllite; rock has a somewhat squeezed or sheared appearance. 279.2 is 2" band grey quartzite.								
284.0-288.3	Grey quartzite; few specks pyrite.								
288.3-289.9	Greyish phyllite.								
289.9-293.0	Grey quartzite.								

CLAIM NO. .....

DIAMOND DRILL RECORD

PROPERTY McMillan Property HOLE NO. 64, Sht. 4

LATITUDE ..... ELEVATION 883.6' BEARING ..... DEPTH ..... STARTED 9 Spet/54 COMPLETED 16 Sept/54

Core Recovery - 78.7% Length - 400.0' Vert - 400.0'
DEPARTURE ..... SECTION ..... DIP -90° DRILLED BY ..... LOGGED BY CJCoveney & ABurton

RECOVERY

DEPTH FEET	FORMATION	From	To	Core Lgth	SAMPLE NO.	FROM	TO	WIDTH	ASSAYS
293.0-295.5	Greyish phyllite with crisscrossing veinlets of quartz and siderite; 4" band of grey quartzite at 293.3'.								
295.5-299.0'	Grey quartzite; crude banding 70° to core.								
299.0-315.0	Greyish phyllite, with some scattered thread-like fractures filled with siderite 307' to 308'; Grey quartzite.								
315.0-326.5	Grey quartzite with grey phyllite partings 324' to 325': greyish phyllite.								
326.5-328.3	Greyish phyllite, with a somewhat squeezed appearance.								
328.3-344.5	Mainly grey phyllitic quartzite, with some narrow bands of grey phyllite. Rough banding 70° to core.								
344.5-348.0	Grey quartzite; which grades into the following section.	262.2	267.3	5.0					
348.0-350.0	Greyish-green phyllitic quartzite.	267.3	272.3	4.4					
350.0-363.5	Greyish phyllite, with some threadlike fractures filled with siderite. At 358' banding is 60° to core (May be cleavage). The phyllite has a somewhat squeezed appearance.	272.3 277.7 282.0 284.0	277.7 282.0 284.0 289.5	5.0 3.8 2.0 5.0					
363.5-365.0	Greenish quartzite, somewhat phyllitic.	289.5	292.5	2.9					
365.0-367.5	Greyish phyllite, banding at 367' is 65° to core.	292.5 298.0	298.0 302.5	5.0 3.7					
367.5-370.5	Greyish quartzite, occasional speck pyrrhotite and pyrite, a few phyllite partings in the quartzite towards the end of the section.	302.5 307.0 310.5	307.0 310.5 315.7	2.8 2.4 4.9					

DIAMOND DRILL RECORD

CLAIM NO. ..... PROPERTY McMillan Property HOLE NO. 64, Sht. 5

LATITUDE ..... ELEVATION 883.6' BEARING ..... DEPTH ..... STARTED 9 Sept/54 COMPLETED 16 Sept/54

CC's Recovery - 78.7% Length - 400.0' Vert - 400.0'

DEPARTURE ..... SECTION ..... DIP -90° RECOVERY DRILLED BY ..... LOGGED BY CJCoveney & ABurton

DEPTH FEET	FORMATION	From	To	Core Lgth	SAMPLE NO.	FROM	TO	WIDTH	ASSAYS
370.5-	Greyish phyllite, a few scattered specks	315.7	320.8	3.1					
374.4	pyrite and some minor siderite.	320.8	323.4	2.9					
374.4-	Grey quartzite with some phyllite partings	323.4	325.0	1.9					
378.0	towards the end of the section. Banding	325.0	330.0	5.0					
	at 375' is 60° to core; at 375.2 some	330.0	335.0	5.0					
	quartz that contains some threadlike frac-	335.0	340.0	3.7					
	tures filled with pyrite.	340.0	345.0	3.5					
378.0-	Greyish phyllite; with some narrow	345.0	350.0	4.3					
379.0	fractures of siderite. Some of the	350.0	355.0	5.0					
	broken buttons has a somewhat slicken-	355.0	357.6	2.2					
	sided appearances. Banding at 378' is	357.6	359.5	1.9					
	45° to core.								
379.0-	Grey somewhat phyllitic quartzite with a	359.5	364.4	4.9					
382.0	few phyllite partings.	364.4	369.4	4.9					
382.0-	Grey phyllite, with some siderite filled	369.4	374.5	4.1					
385.0	threadlike fractures. The phyllite has	374.5	377.5	3.0					
	a somewhat squeezed appearance.	377.5	381.5	4.0					
385.0-	Grey phyllitic quartzite.	381.5	386.0	4.5					
388.3									
388.3-	Grey quartzite, becoming phyllitic towards	386.0	391.0	4.8					
391.0	end of section.	391.0	395.5	3.5					
391.0-	Greyish phyllite, some minor siderite	395.5	400.0	4.2					
393.1	banding at 391.5' is 60° to core.								
393.1-	Phyllitic quartzite.								
394.0									
394.0-	Greyish phyllite with some narrow quartz-								
397.0	ite bands.								
397.0-	Phyllitic quartzite.								
400.0									
	END OF HOLE.								

Hole depth 400.0'
Overburden 36.0'
Rock drilled 364.0'
Core length 288.5'

Contact arbitrary only. Core appears brecciated and broken down to approximately 200.0'.

Core recovery - $\frac{288.5 \times 100}{364}$ = 78.7%

DIAMOND DRILL RECORD

CLAIM NO. ..... PROPERTY ..... HOLE NO. 65-sheet #1

LATITUDE 100,380N ELEVATION 1201.0' BEARING ..... DEPTH 340.0' STARTED Sept. 22, 1954 COMPLETED Sept. 26,1954

DEPARTURE 111,065E SECTION ..... DIP -90° DRILLED BY ..... LOGGED BY C.J. Coveney & A. Burton

DEPTH FEET	FORMATION	CORE RECOVERY From	To	Core Length	SAMPLE NO.	FROM	TO	WIDTH	ASSAYS
	Overburden 2'	6.0	11.5	3.8					
	AX Casing 8'	11.5	16.0	4.0					
	EX Casing 9'	16.0	21.0	3.7					
6.0-26.0	Grey quartzite with visible grains	21.0	26.2	1.7					
	quartz towards end of section	26.2	29.5	1.8					
	quartzite becomes slightly limy.	29.5	33.2	3.7					
	From 7.0' to 8.0' is vuggy quart-	33.2	36.2	1.1					
	zite with siderite.	36.2	39.2	1.6					
26.0-27.2	Grey limy quartzite; quartzite	39.2	41.5	1.6					
	still has visible quartz grains.	41.5	44.0	2.5					
27.2-29.5	Black argillite (broken buttons).	44.0	49.0	5.0					
29.5-34.0	Grey limy quartzite with visible	49.0	51.0	1.4					
	quartz grains. (28.0 - 28.5, black	51.0	56.5	1.9					
	argillite; banding 90° to core).	56.5	59.3	2.0					
34.0-47.0	Buttons of black argillite, with	59.3	63.0	3.6					
	occasional narrow(¼") band grey	63.0	65.0	2.0					
	limy quartzite. Good banding at	65.0	70.5	5.0					
	44.0' is 75° to core.	70.5	75.0	3.1					

CLAIM NO. .....

DIAMOND DRILL RECORD

PROPERTY ..... HOLE NO. 65-sheet #2

LATITUDE ..... ELEVATION ..... BEARING ..... DEPTH ..... STARTED ..... COMPLETED .....

DEPARTURE ..... SECTION ..... DIP ..... DRILLED BY ..... LOGGED BY .....

DEPTH FEET	FORMATION	CORE RECOVERY From	To	Core Length	SAMPLE NO.	FROM	TO	WIDTH	ASSAYS
47.0-49.2	Dark grey limy quartzite with	75.0	79.0	3.3					
	visible quartz grains.	79.0	84.0	5.0					
49.2-55.5	Black argillite, with a few	84.0	89.0	4.5					
	buttons dark grey limy quart-	89.0	91.0	2.0					
	zite.	91.0	93.7	2.7					
55.5-57.0	Broken buttons dark grey limy	93.7	98.5	4.2					
	quartzite with visible quartz	98.5	103.7	3.7					
	grains. At. 56.0' quartzite	103.7	109.0	5.0					
	contains several fragments black	109.0	114.0	3.6					
	argillite up to ¼" length of several	114.0	118.7	2.7					
	fragments limy grey quartzite.	118.7	124.0	3.2					
57.0-64.0	Black argillite. At 62.0' a few	124.0	129.0	5.0					
	fractures of calcite at 20° to	129.0	134.0	4.2					
	core. Banding at 59.5 is 80° to	134.0	136.7	2.4					
	core.	136.7	140.0	3.0					
64.0-69.8	Black limy argillite. At 66.0'	140.0	145.0	4.5					
	are 2 narrow (1/8") stringers pyrite	145.0	150.3	3.8					
	parallel to banding at 85° to core.	150.3	153.8	3.3					

CLAIM NO. .....

DIAMOND DRILL RECORD

PROPERTY ..... HOLE NO. 65-sheet #3

LATITUDE ..... ELEVATION ..... BEARING ..... DEPTH ..... STARTED ..... COMPLETED .....

DEPARTURE ..... SECTION ..... DIP ..... DRILLED BY ..... LOGGED BY .....

DEPTH FEET	FORMATION	CORE RECOVERY From to Core Length	SAMPLE NO.	FROM	TO	WIDTH	ASSAYS
69.8-73.3	Dark grey limy quartzite with visible quartz grains. At 70.0' is an irregular patch 1" square of black argillite.						
73.3-89.2	Dark grey limy argillite; scattered bands (1/8") of limy quartzite throughout the section. 84.5' to 85.5' is a band grey phyllite. Good banding throughout the section 80° to 85° to core. Miniature faulting at 79.5'. Some parts of section show evidence of squeezing. At 88.0' is 4" of white quartz.						
89.3-90.7	Dark grey limy quartzite with visible quartz grains.						
90.7-98.5	Mainly black limy argillite with 1/8" to 3/4" bands of grey limy quartzite scattered throughout the section. Between 91.0' and 95.0' a number of irregular fractures filled with calcite, at various angles to core.						
98.5-103.5	Equal proportions of grey limy quartzite and black argillite. At 99.5' the rock is brecciated and the banding contorted. Minor pyrite at 98.8'. Section shows some calcite filled fractures.						
103.5-105.6	Black limy argillite. At 104.5' banding 40° to core.						

CLAIM NO. .....

DIAMOND DRILL RECORD

PROPERTY .....

HOLE NO. 65-sheet #4

LATITUDE ..... ELEVATION ..... BEARING ..... DEPTH ..... STARTED ..... COMPLETED .....

DEPARTURE ..... SECTION ..... DIP ..... DRILLED BY ..... LOGGED BY .....

DEPTH FEET	FORMATION	SAMPLE NO.	FROM	TO	WIDTH	ASSAYS
105.6-108.5	Greyish phyllite, some minor thread-like fractures of pyrite.					
	Banding at 109.0' is 15° to core.					
108.5-111.2	Grading from above section to interbanded(?) phyllite and					
	limy quartzite.					
111.2-123.5	For the most part limy grey quartzite, with scattered					
	buttons of black argillite probably representing interbands.					
	Banding throughout section is contorted. At 115.0' a 1/3" band					
	pyrite appears to follow contortion. Other sections show					
	the pyrite filling threadlike cross-breaks. Between 123.0'					
	and 123.5' are cross fractures up to ½" filled with					
	calcite.					
123.5-144.0	Mainly black limy argillite.					
	130.0' to 130.5', limy quartzite.					
	130.5' to 131.0', grey phyllite (??)/					
	131.5' banding is 40° to core.					
	132.0' banding contorted.					
	133.5' banding is 10° to core.					
	139.5' to 140.3' brecciated with white quartz.					
	141.0' bedding 60° to core					
	141.0' evidence of black argillite fingering out into grey					

CLAIM NO. ..... **DIAMOND DRILL RECORD** PROPERTY ..... HOLE NO. 65-sheet # 5

LATITUDE ..... ELEVATION ..... BEARING ..... DEPTH ..... STARTED ..... COMPLETED .....

DEPARTURE ..... SECTION ..... DIP ..... DRILLED BY ..... LOGGED BY .....

DEPTH FEET	FORMATION	CORE RECOVERY From	To	Core Length	SAMPLE NO.	FROM	TO	WIDTH	ASSAYS
	quartzite along bedding.	153.8	159.0	4.2					
	143.0' to 144.0', white quartz and	159.0	162.7	3.7					
	at 143.0' the quartz has a	162.7	167.0	4.0					
	brecciated appearance. Throughout	167.0	170.0	1.7					
	section scattered threadlike	170.0	174.5	3.2					
	(mottled?) frzctures filled with								
	calcite; but these are not numerous.								
144.0-158.8	Black argillite.								
	151.8' to 152.9', dark grey limy								
	quartzite. 151.0' - brecciated.								
	Scattered calcite stringers.								
	Banding at 152.0' is 30° to core.								
158.8-161.8	Dark grey limy quartzite, a few								
	calcite filled stringers.								
161.8-170.0	Mainly black limy argillite 162.7'								
	to 164.4', Rock is a limy argil-								
	laceous quartzite. 166.8' to 167.0'								
	Dark grey limy quartzite. 167.0' to								
	17.0', Broken buttons black argillite								
	with some scattered threadlike calcite								
	fractures.								

CLAIM NO. ..... **DIAMOND DRILL RECORD** PROPERTY McMillan HOLE NO. 65 - Sheet #6

LATITUDE ..... ELEVATION 1201.0' BEARING ..... DEPTH ..... STARTED 22 Sept/54 COMPLETED 26 Sept/54

Core Recovery - 81.4% Length - 340.0' Vert. 340.0' Overburden - 6.0'

DEPARTURE ..... SECTION ..... DIP -90° DRILLED BY ..... LOGGED BY CJCoveney & ADurton

DEPTH FEET	FORMATION	RECOVERY From	To	Core Lgth	SAMPLE NO.	FROM	TO	WIDTH	ASSAYS
170.0-171.5	Grey limy phyllite (??). Banding at 171.0' is 75° to core.								
171.5-175.4	Dark Grey to black limy quartzitic argillite 173.5' rock is brecciated.								
175.4-181.6	Mainly black limy argillite with some narrow interbands of limy quartzite. Overall banding 75° to 80° to core.	170.0	174.5	3.2					
		174.5	180.0	1.7					
181.6-188.2	Coarse grained grey limy quartzite. Quartz grains fairly large and on broken sections effervescence with dilute HCl takes place in the interstices between the quartz grains. 186.5', one of the broken surfaces shows slickensiding.	178.5	180.0	1.7					
		180.0	185.0	2.3					
		185.0	188.0	2.8					
		188.0	191.5	3.1					
		191.5	195.0	2.1					
		195.0	198.5	3.4					
188.2-195.0	Black argillite, with some scattered buttons grey limy quartzite. Whole section laced with criss-crossing veinlets calcite, particularly between 189.0' and 191.0'. Banding is 60° to core.	198.5	200.5	1.6					
		200.5	203.0	2.0					
		203.0	204.7	1.7					
		204.7	209.7	5.0					
		209.7	214.6	4.9					
195.0-205.0	Dark grey limy quartzite. 198.0', 1/8" stringer of lead 25° to core. Banding at 200.0' is 60° to core. Towards end of section are black graphitic partings.	214.6	217.5	2.1					
		217.5	221.2	3.6					
		221.2	226.0	4.8					
		226.0	229.2	2.2					
205.0-211.0	Dark grey to black somewhat quartzitic limy argillite with scattered graphitic partings. Overall banding 70° to core. 207.0' to 207.3' is white calcite.	229.2	231.7	2.5					
		231.7	235.7	4.0					
		235.7	239.5	3.2					
		239.5	241.4	1.6					
211.0-218.5	Dark grey limy argillite with some black graphitic partings. Banding about 70° to core.	241.4	245.6	2.0					
		245.6	246.7	0.9					

CLAIM NO. .....

DIAMOND DRILL RECORD

PROPERTY McMillan Property HOLE NO. 65 - Ht 47

LATITUDE ..... ELEVATION 1201.0' BEARING ..... DEPTH ..... STARTED 22 Sept/54 COMPLETED 26 Sept/54

Core Recovery - 81.4% Length - 340.0' Vert - 340.0' Overburden - 6.0'

DEPARTURE ..... SECTION ..... DIP -90° RECOVERY ..... DRILLED BY ..... LOGGED BY CJCoveney & ABurton

DEPTH FEET	FORMATION	From	To	Core Lgth	SAMPLE NO.	FROM	TO	WIDTH	ASSAYS
218.5-220.0	Black argillite; graphitic on broken surfaces. A few nearly threadlike bands grey limy quartzite.	246.7	251.2	2.6					
		251.2	254.5	3.1					
		254.5	258.5	1.6					
220-0-230.0	Dark grey limy argillite; with some scattered graphitic partins and some scattered thread-	258.5	261.0	2.1					
		261.0	266.0	4.2					
	like fractures of calcite. 224.2' and at 228.0'; fracture filled white quartz (½")	266.0	271.0	3.5					
		271.0	273.8	0.7					
	(quartz grains are visible). 222.2 to 223.3	273.8	276.2	0.7					
	~~black graphitic argillite with distorted~~	~~276.2~~	~~279.5~~	~~1.3~~					
	banding at 223.0'.	279.5	285.0	4.7					
230.0-232.8	Narrow interbands black argillite and grey limy quartzite. Overall banding is 80° to core.	285.0	289.5	3.9					
232.8-234.8	Similar to above, but with a multiplicity of criss-crossing veinlets of calcite. At 234.0' is a 4" section well brecciated.								
234.8-253.3	Dark grey to black limy argillite; with some narrow interbands grey limy argillite. 240.0' is 1½' of calcite. 248.0' to 248.3': ~~irregular patches calcite.~~ Some of the broken buttons of the argillite look gra- phitic. Minor brecciation at 245.0'. Overall banding about 80° to core. This section appears to grade into the following.	289.5	293.0	3.1					
253.3-273.8	Grey phyllite.	293.0	298.0	4.5					
273.8-284.0	Mixed black argillite and limy grey quartzite. Core badly contorted at 280.0' and 283.0'. At 281.0' banding 80° to core.	298.0	303.2	5.0					
		303.2	305.5	2.0					
		305.5	307.7	2.4					
~~284.0 - 285.0~~	~~Limy quartzitic argillite. First 6"~~ core brecciated.	~~307.7~~ 312.7	~~312.7~~ 316.6	~~5.0~~ 3.9					
285.0-288.0	Black Limy argillite. Last 8" core is grey- black limy quartzitic argillite.	316.6	319.7	3.1					
		319.7	325.0	5.0					

CLAIM NO.

DIAMOND DRILL RECORD

PROPERTY McMillan Property HOLE NO. 65 - Sht. #8

LATITUDE | ELEVATION 1201.0' | BEARING | DEPTH | STARTED 22 Sept/54 | COMPLETED 26 Sept/54

Core Recovery - 81.4% | Length - 340.0' | Vert. - 340.0' | Overburden - 6.0'

DEPARTURE | SECTION | DIP -90° | DRILLED BY | LOGGED BY CJCoveney & ABurton

DEPTH FEET	FORMATION	RECOVERY From	To	Core Lgth	SAMPLE NO.	FROM	TO	WIDTH	ASSAYS
288.0-293.0	Dark grey limy quartzite with a few black graphitic partings. Minor brecciation at 289.5'.	325.0	330.5	5.0					
		330.5	334.7	3.9					
		334.7	340.0	5.0					
293.0-311.5	Rythmic thin banded argillite and limy quartzite. Banding is 80° to 85° to core. Minor amount narrow cross fractures ~~filled with calcite.~~								
311.5-334.7	Section somewhat similar to above section, but rythmic banding is nowhere near as distinct. The argillite sections are longer and appear to dominate the limy quartzite sections and locally the argillite seems coarser textured. Banding about 85° to core. Scattering of cross ~~fractures of calcite.~~								
334.7-340.0	Grey limy quartzite. 338.0 to 339.0' is banded argillite; banding 80° to core. Slight brecciation at end of core.								
	END OF HOLE								
	Note: In places what is called argillite is difficult to distinguish from phyllite. The argillite is black in color and generally limy whereas the phyllite is grey and non-limy. ~~The argillite is somewhat graphitic on~~ the broken surface but does appear to be much slickensided. There is evidence of brecciation and squeezing particularly the latter throughout the core. Most of the rock grades without definite contacts from one rock type to the next and the divisions shown are therefore only arbitrary. One example was seen of the black argillite fingering out along the bedding into limy argillite quartzite.								
	Depth of hole 340.0'								
	Overburden 2.0'								
	Rock drilled 338.0'								
	Core Length 275.2' % core recovery $\frac{275.2 \times 100}{338.0} = 81.4\%$								

CLAIM NO. .....

DIAMOND DRILL RECORD

PROPERTY McMillan HOLE NO. 66-sheet #1

LATITUDE 97101 N ELEVATION 782.8 BEARING DEPTH 531.0' STARTED July 20, 1966 COMPLETED August 7, 1966

DEPARTURE 99342 E SECTION DIP 90° DRILLED BY LOGGED BY G. J. Goveney

DEPTH FEET	FORMATION	CORE RECOVERY To	From	Core Length	SAMPLE NO.	FROM	TO	WIDTH	ASSAYS
	H Pipe 100.0'								
	~~AX Casing 144.0'~~								
	~~EX Casing 152.0'~~								
0.0-152.0	Overburden	152.0	156.0	0.7					
~~152.0-157.0~~	~~Pink Argillite - somewhat rusted~~	156.0	160.0	2.7					
	~~broken buttons~~	~~160.0~~	~~165.0~~	2.4					
157.0-210.2	Pinkish argillite with some narrow	~~165.0~~	~~168.0~~	~~2.3~~					
	~~irregular bands and patches of~~	~~168.0~~	~~172.0~~	~~2.0~~					
	~~greenish argillite. Bedding of~~	172.0	176.0	1.0					
	~~cleavage generally steep Banding~~	176.0	179.0	0.6					
	~~at 164.0' - 50° to core~~	179.0	181.0	1.0					
	~~187.0' - 50° to core~~	181.0	186.5	2.5					
	~~209.0' - 70° to core~~	~~186.5~~	~~188.0~~	~~1.1~~					
~~210.2-215.0~~	~~Purple Argillite~~	188.0	191.0	2.8					
~~215.0-241.0~~	~~Pinkish Argillite with increasing~~	191.0	193.5	1.1					
	proportion of irregular bands and	192.5	198.0	4.3					
	~~patches of green argillite, core~~	198.0	201.5	1.0					
	consists mainly of briken chips								
	~~and buttons. Grades into the~~								

DIAMOND DRILL RECORD

CLAIM NO. ..... PROPERTY ..... HOLE NO. 66-sheet #2

LATITUDE ..... ELEVATION ..... BEARING ..... DEPTH ..... STARTED ..... COMPLETED .....

DEPARTURE ..... SECTION ..... DIP ..... DRILLED BY ..... LOGGED BY .....

DEPTH FEET	FORMATION	CORE RECOVERY From	To	Core Length	SAMPLE NO.	FROM	TO	WIDTH	ASSAYS
	Banding at 239.0 - 55° to the core	205.0	207.5	1.9					
241.0-246.0	Green Argillite Mainly briken buttons	207.5	208.3	0.8					
	244.8 - 245 small irregular blobs of	208.3	210.0	1.8					
	Pb and Zn. At 245.3 small feathery	210.0	215.0	2.2					
	fracture (1/16") of Zn 70° to core	215.0	220.0	2.9					
246.0-249.2	Dark grey Limestone and green Argillite	220.0	222.0	0.7					
	in about equal amounts	222.0	225.0	1.1					
	Banding at 248.5 - 30° to the core	225.0	230.0	1.2					
249.2-250.2	Green Argillite banding at 250.0' -	230.0	233.0	2.4					
	25° to the core	233.0	237.3	1.3					
250.2-257.0	Green Argillite with dark grey lime-	237.3	239.0	1.8					
	stone at 251.2 - 251.7	239.0	241.0	1.4					
	252.3 - 252.8	241.0	243.0	1.1					
	253.0 - 253.5	243.0	245.0	1.6					
	256.0 - 256.5	245.0	249.0	2.3					
	overall banding 40° to the core	249.0	257.0	6.1					

CLAIM NO. ..... **DIAMOND DRILL RECORD** PROPERTY ..... HOLE NO. 66-sheet #3

LATITUDE ..... ELEVATION ..... BEARING ..... DEPTH ..... STARTED ..... COMPLETED .....

DEPARTURE ..... SECTION ..... DIP ..... DRILLED BY ..... LOGGED BY .....

DEPTH FEET	FORMATION	CORE RECOVERY From	To	Core Length	SAMPLE NO.	FROM	TO	WIDTH	ASSAYS
257.0-287.0	Well banded green Argillite	257.0	262.0	2.4					
	overall banding 45° to the core.	262.0	268.0	3.3					
	At 263.5 a 1" band of dark grey	268.0	272.5	3.7					
	Limestone. A few specks of Zn at	272.5	273.5	1.0					
	273.0. At 274.5 3 feathery (1/16")	273.5	278.0	5.0					
	filled fractures two of which are	278.0	283.5	3.4					
	mainly Zn and the third one Pb	283.5	287.0	2.4					
	At 276.0 another (1/16") fracture	287.0	290.5	3.4					
	of Pb and Zn. Another (1/16") Pb	290.5	294.0	1.8					
	filled fracture at 277.7 Rock	294.0	299.0	2.7					
	grading into the following sections.	299.0	304.0	1.5					
287.0-305.0	Green Argillite with some narrow	304.0	309.0	2.8					
	inter bands of dark grey Argillite.	309.0	310.0	1.0					
	Core becoming uniformly dark in	310.0	311.0	0.8					
	colour towards the end of the	311.0	316.0	2.6					
	sections. Overall banding about	316.0	318.0	0.7					
	40° to the core. At 287.5 and 1/8"	318.0	322.0	0.7					
	filled Zn fracture the fracture	322.0	326.0	0.6					
	being at right angles to the	326.0	327.0	0.9					
	banding. At 288.0 a1/16" fracture	327.0	330.0	2.2					

CLAIM NO. ..... **DIAMOND DRILL RECORD** PROPERTY ..... HOLE NO. 66-sheet #4

LATITUDE ..... ELEVATION ..... BEARING ..... DEPTH ..... STARTED ..... COMPLETED .....

DEPARTURE ..... SECTION ..... DIP ..... DRILLED BY ..... LOGGED BY .....

DEPTH FEET	FORMATION	CORE RECOVERY From	To	Core Length	SAMPLE NO.	FROM	TO	WIDTH	ASSAYS Pb %	Zn %	Ag oz	Au oz
	filled with Pb.	330.0	333.0	2.9								
305.0-310.0	Broken buttons of dark grey Argil-	333.0	338.0	1.2								
	lite Banding at 310.0 is 45° to the	338.0	343.0	0.5								
	core. Texture is slightly coarser	343.0	346.0	3.0								
	grained than the previous sections.	346.0	349.0	3.0								
310.0-311.0	Ground core (dark grey Argillite?)	349.0	355.5	3.5								
311.0-315.8	Dark grey Argillite with thin	355.5	359.5	2.2								
	irregular lenses of grey quartzite	359.5	363.0	3.1								
	or quartz par'l to the banding which	363.0	366.0	1.5								
	is 60° to the core.	366.0	371.0	2.9								
315.8-326.0	Broken buttons of grey quartzite	371.0	376.0	3.4								
	showing considerable black graphite	376.0	378.0	1.3				Recovery ↓				
	on the broken surfaces.	378.0	381.0	1.1	8007	370	380	3.0	0.10	0.17	0.04	0.003
326.0-328.0	Greenish Argillite with lenses of	381.0	386.0	1.0	8008	380	390	3.9	0.15	0.10	0.08	0.003
	grey quartzite or quartz alined to	386.0	387.0	0.4	8009	390	400	3.8	0.10	0.05	0.07	0.003
	give the rock a crude banding. The	387.0	389.0	2.0						Sampled 1968		
	core has somewhat of a bleached	389.0	394.0	3.2								
	appearance.	394.0	399.0	2.1								

CLAIM NO. ..... **DIAMOND DRILL RECORD** PROPERTY ..... HOLE NO. 66-sheet #5

LATITUDE ..... ELEVATION ..... BEARING ..... DEPTH ..... STARTED ..... COMPLETED .....

DEPARTURE ..... SECTION ..... DIP ..... DRILLED BY ..... LOGGED BY .....

DEPTH FEET	FORMATION	CORE RECOVERY From	To	Core Length	SAMPLE NO.	FROM	TO	WIDTH	ASSAYS
328.0-330.5	Broken buttons of grey quartzite with considerable graphite on the broken surface.								
330.5-331.5	Green Argillite with some irregular lenses of grey quartzite or quartz alined to give a crude banding.								
331.5-333.0	Grey Quartzite. Some of the surfaces show black graphite that is somewhat slicken sided.								
333.0-338.0	Quartzite, grey, broken buttons, brecciated. The broken buttons show considerable graphite that is somewhat slicken sided. (Fault Zone?)								
338.0-348.0	Argillite pinkish tinted with irregular narrow bands and small patches of silecious material (Quartzite?) The core is mainly broken buttons breciated between 347.0 and 348.0. Some minor scattering of minute pyrite specks. Some weak threads of Pb and Zn at 345.5, 347, and 347.5								
348.0-355.5	Mainly broken buttons of pinkish tinted Argillite with a few specks of scattered pyrite.								
355.5-359.7	Quartzite grey somewhat brecciated								
359.7-362.5	Greenish Argillite with some minor irregular quartzite patches.								

CLAIM NO.....

DIAMOND DRILL RECORD

PROPERTY..... HOLE NO.66-sheet #6

LATITUDE..... ELEVATION..... BEARING..... DEPTH..... STARTED..... COMPLETED.....

DEPARTURE..... SECTION..... DIP..... DRILLED BY..... LOGGED BY.....

DEPTH FEET	FORMATION	SAMPLE NO.	FROM	TO	WIDTH	ASSAYS			
362.5-363.5	Broken buttons of grey brecciated quartzite								
363.5-381.0	Broken buttons of pink tinted Argillite. The Argillite contains thin bands and small irregular patches that are somewhat lenticular in shape. Locally the core is somewhat brecciated. Some scattered minor specks of pyrite. Banding at 371.0 is about 50° to the core.								
381.0-386.0	Badly brecciated Quartzite. Structure resembles that of a coarse mylonite Fault Zone.								
386.0-388.0	Greenish silecious argillite. At 387.5 an (1/8") filled fracture of Pb and Zn.								
388.0-393.0	Grey brecciated Quartzite								
393.0-443.5	Broken buttons of grey brecciated Quartzite. Most of the broken buttons show a film of black graphite. Good evidence of brecciation at 398.0, 410.0 & 413.5. A few buttons of siderite or ankerite @ 407.5; 409.8 and 427.0. Some minor siderite or ankerite filled fractures from 433.0 - 443.0								
443.5-446.5	Greenish silecious argillite. Some minor filled siderite or ankerite filled fractures.								

CLAIM NO. .....

DIAMOND DRILL RECORD

PROPERTY .....

HOLE NO. 66-sheet #7

LATITUDE ..... ELEVATION ..... BEARING ..... DEPTH ..... STARTED ..... COMPLETED .....

DEPARTURE ..... SECTION ..... DIP ..... DRILLED BY ..... LOGGED BY .....

DEPTH FEET	FORMATION	CORE RECOVERY From	To	Core Length	SAMPLE NO.	FROM	TO	WIDTH	ASSAYS
446.5-456.0	Broken buttons of grey brecciated	399.0	401.0	1.3					
	Quartzite. Some disseminated	401.0	406.0	2.0					
	pyrite around 447.0	406.0	407.5	0.8					
456.0-462.0	Grey pasty ground core (probably	407.5	409.5	1.9					
	brecciated Quartzite)	409.5	411.0	0.9					
462.0-467.5	Grey brecciated Quartzite. From	411.0	413.0	0.8					
	462.0 - 463.0 crumpled greenish	413.0	416.0	0.8					
	Argillite; 463.0 - 467.5 the quart-	416.0	420.0	0.7					
	zite is somewhat bleached.	420.0	422.0	0.5					
467.5-475.0	Heavy Graphitic brecciated quart-	422.0	424.0	0.9					
	zite from 471 - 475.0 pasty	424.0	426.0	0.5					
	graphitic material - probably	426.0	431.0	2.3					
	ground core or fault gouge.	431.0	433.0	0.6					
475.0-477.0	Sand seam (Drillers Note)	433.0	435.0	0.7					
477.0-484.5	From 477.0 to 486.0 the bulk	435.0	437.0	1.4					
	of the core is black graphitic	437.0	439.0	0.9					
	chips and small buttons. Some	439.0	443.0	0.7					
	of the chips are grey quartzite.	443.0	448.0	4.0					

CLAIM NO. .....

DIAMOND DRILL RECORD

PROPERTY ..... HOLE NO. 66-sheet #8

LATITUDE ..... ELEVATION ..... BEARING ..... DEPTH ..... STARTED ..... COMPLETED .....

DEPARTURE ..... SECTION ..... DIP ..... DRILLED BY ..... LOGGED BY .....

DEPTH FEET	FORMATION	CORE RECOVERY From	To	Core Length	SAMPLE NO.	FROM	TO	WIDTH	ASSAYS
	Good evidence of brecciation at	448.0	453.0	2.3					
	482.0. This section resembles	453.0	456.0	2.6					
	the section from 467.5 - 475.	456.0	460.0	3.3					
484.5-492.0	Greyish quartzite. From 486.0	460.0	462.0	0.7					
	490.0 somewhat graphitic but not	462.0	464.5	1.8					
	nearly so much as from 477.0 -	464.5	470.0	4.4					
	484.5. Brecciated at 486.5 and	470.0	474.5	2.5					
	490.0	474.5	475.0	0.9					
492.0-511.0	Grey quartzite. The quartzite is	475.0	477.0	0.0					
	free from black graphitic partings.	477.0	482.0	1.4					
	Some minor scattered pyrite.	482.0	483.0	0.9					
511.0-513.5	Argillaceous quartzite. Small	483.0	488.0	3.1					
	drug fold at 513.5	488.0	491.0	2.7					
513.5-525.0	Clean grey quartzite	491.0	492.0	0.8					
525.0-526.8	Argillaceous quartzite; 526.4-	492.0	500.0	2.7					
	526.8 black argillite banding	500.0	509.0	2.7					
	70° to core.	509.0	517.0	7.4					
		517.0	522.0	5.0					

CLAIM NO. .....

DIAMOND DRILL RECORD

PROPERTY .....

HOLE NO. 66-sheet #9

LATITUDE ..... ELEVATION ..... BEARING ..... DEPTH ..... STARTED ..... COMPLETED .....

DEPARTURE ..... SECTION ..... DIP ..... DRILLED BY ..... LOGGED BY .....

DEPTH FEET	FORMATION	SAMPLE NO.	FROM	TO	WIDTH	ASSAYS			
526.8-531.0	Clean grey quartzite.								
	END OF HOLE								
	Note: Contact of Black Fault with foot well rocks not sharp.								
	Contact probably close to 490.0' Between 330.0 and 492.0								
	hole gave considerable trouble and had to be cemented								
	twice.								
	Length of Hole 531.0								
	Overburden 152.0								
	379.0								
	Core Drilled 204.6								
	Shorts --- 174.4								
	% Recovery $\frac{204.6 \times 100\%}{379}$ = 54%								

CLAIM NO. M - 23

DIAMOND DRILL RECORD

PROPERTY McMillan Property Yukon HOLE NO. 67-sheet #1

LATITUDE 93,715 N ELEVATION 796.0' BEARING DEPTH 300.0' STARTED 11/August/55 COMPLETED 14/August/55

DEPARTURE 100,170 E SECTION DIP 90° DRILLED BY LOGGED BY C. J. Coveney

DEPTH FEET	FORMATION	CORE RECOVERY From	To	Core Length	SAMPLE NO.	FROM	TO	WIDTH	ASSAYS
	H. Pipe 22.0'	22.0	26.0	2.3					
	AX Casing 22.0'	26.0	30.5	2.8					
	EX Casing 25.0'	30.5	36.0	3.8					
0.0-22.0	Overburden	36.0	40.0	3.2					
22.0-60.0	Argillite purple. Considerable number	40.0	45.0	3.1					
	of broken buttons. Banding at 37.0 -	45.0	50.0	1.3					
	35° to the core	50.0	55.0	3.3					
60.0-70.0	Buttons of grey Quartsite	55.0	60.0	4.0					
70.0-75.0	Quartsite - light grey to white -	60.0	65.0	1.1					
	broken buttons.	65.0	70.0	0.6					
75.0-125.0	Limestone = grey, locally stylolitic,	70.0	75.0	1.0					
	with some crisscrossing veinlets of	75.0	80.0	1.3					
	white calcite. Parts of the section	80.0	85.0	1.2					
	show evidence of brecciation or	85.0	90.0	3.9					
	crushing. From 118.0 to 125.0 some	90.0	95.0	1.8					
	black graphitic partings in the	95.0	100.0	4.5					
	limestone. The graphite on the	100.0	105.0	4.5					
	surface of the broken buttons are	105.0	110.0	3.5					
	somewhat slicken sided. From 88.5	110.0	115.0	2.9					
	to 89.0 good evidence of	115.0	118.0	2.1					

CLAIM NO. .....

DIAMOND DRILL RECORD

PROPERTY ..... HOLE NO. 67 - sheet #2

LATITUDE ..... ELEVATION ..... BEARING ..... DEPTH ..... STARTED ..... COMPLETED .....

DEPARTURE ..... SECTION ..... DIP ..... DRILLED BY ..... LOGGED BY .....

DEPTH FEET	FORMATION	CORE RECOVERY From	To	Core Length	SAMPLE NO.	FROM	TO	WIDTH	ASSAYS
	bricciation. Banding at 96.0 -	118.0	125.0	4.6					
	30° to the core.	125.0	129.0	1.5					
125.0-126.0	Dark grey argillaceous limestone	129.0	134.0	2.0					
126.0-147.5	Limestone - grey, broken buttons.	134.0	135.0	0.6					
	Banding at 144.5 - 40° to the core.	135.0	137.0	0.9					
	A few feathery crisscrossing vein-	137.0	138.0	1.0					
	lets of calcite. Minor marmoriza-	138.0	141.0	2.4					
	tion.	141.0	143.0	2.0					
147.5-158.8	Argillite - greyish. A few lime-	143.0	148.0	3.3					
	stone buttons at 151.8, 156.8. At	148.0	153.0	3.3					
	158 to 158.8 the argillite contains	153.0	158.0	3.1					
	some angular and sub rounded frag-	158.0	160.0	2.0					
	ments of limestone (this appears	160.0	163.0	2.0					
	to be a soft rock structure rather	163.0	168.5	4.3					
	than brecciation) Banding at 158.8								
	is 40° to the core.								
158.8-160.8	Argillite - green, thin bedded. Good								
	banding 40° to the core.								

CLAIM NO. .....

DIAMOND DRILL RECORD

PROPERTY .....

HOLE NO. 67-sheet #3

LATITUDE ..... ELEVATION ..... BEARING ..... DEPTH ..... STARTED ..... COMPLETED .....

DEPARTURE ..... SECTION ..... DIP ..... DRILLED BY ..... LOGGED BY .....

DEPTH FEET	FORMATION	CORE RECOVERY From	To	Core Length	SAMPLE NO.	FROM	TO	WIDTH	ASSAYS
160.8-164.6	Quartzite - frey. Some minor	168.5	173.0	2.8					
	disseminated pyrite. At 163.0'	173.0	176.5	2.2					
	the banding is about 30° to the	176.5	181.0	1.2					
	core and in general the pyrite	181.0	186.5	1.3					
	follows the banding. At 164 -	186.5	190.0	1.0					
	1/2" button of solid pyrite.	190.0	193.0	0.7					
	No visible Pb or Zn.	193.0	195.0	0.5					
164.6-167.0	Argillite - grey well banded -	195.0	199.0	0.5					
	banding about 45° to the core. The	199.0	204.0	0.6					
	last 2" of the section are lined	204.0	205.0	0.6					
	with argillite.	205.0	208.0	0.4					
167.0-168.0	Grey well banded argillaceous	208.0	211.0	0.9					
	quartzite Banding 45° to the core.	211.0	216.0	2.7					
168.0-168.8	Quartzite - grey, banding 45° to	216.0	219.0	1.4					
	the core. At 168.0 about ½" band	219.0	223.0	1.1					
	of pyrite.	223.0	229.0	0.8					
168.8-169.7	Broken buttons of banded green	229.0	233.0	0.4					
	Argillite and Quartzite. Weak	233.0	239.0	2.0					
	pyrite mineralization parallel								
	to the banding which is approx.								

CLAIM NO. .....

DIAMOND DRILL RECORD

PROPERTY .....

HOLE NO. 67-sheet #4

LATITUDE ..... ELEVATION ..... BEARING ..... DEPTH ..... STARTED ..... COMPLETED .....

DEPARTURE ..... SECTION ..... DIP ..... DRILLED BY ..... LOGGED BY .....

DEPTH FEET	FORMATION	CORE RECOVERY From	To	Core Length	SAMPLE NO.	FROM	TO	WIDTH	ASSAYS
	50° to the core. At 169.7 at ½"	239.0	244.0	0.8					
	button of massive pyrite.	244.0	246.0	0.4					
169.7-174.5	Dark grey to black argillite								
	with little eyes of blue quartzite								
	(possibly horizon markers) At 169.7								
	a 1" button of limestone, and 172.5								
	a 1" button of limestone.								
174.5-176.5	Quartzite - grey, limy, with minute								
	visible grains of blue to grey quarts.								
	The eyes of quartz are very distinctive								
	and may possibly serve as a horizon marker.								
176.5-186.8	Grey banded argillaceous quartzite.								
	Banding at 186.0 is 50° to the core.								
	At 177' a few buttons of green Argillite								
	At 181.0 a 1" button of limy Argillite.								
186.8-188.4	Broken buttons of green argillite								
188.4-190.0	Quartzite - grey - broken buttons.								
190.0-192.0	Argillite - drak grey - Banding 30°								
	to the core.								

CLAIM NO. .....

DIAMOND DRILL RECORD

PROPERTY .....

HOLE NO. 67-sheet #5

LATITUDE ..... ELEVATION ..... BEARING ..... DEPTH ..... STARTED ..... COMPLETED .....

DEPARTURE ..... SECTION ..... DIP ..... DRILLED BY ..... LOGGED BY .....

DEPTH FEET	FORMATION	SAMPLE NO.	FROM	TO	WIDTH	ASSAYS			
192.0-203.8	Quartzite - grey, broken buttons, some minor disseminated pyrite.								
203.8-210.0	Argillite - dark grey.								
210.0-212.0	Quartzite - grey broken buttons. Some disseminated pyrite.								
212.0-219.5	Argillite - greenish								
219.5-226.0	Quartzite - grey, broken buttons. Some disseminated pyrite.								
226.0-236.0	Chips of greenish argillite. Core recovery poor in this section.								
236.0-245.0	Argillite - purplish with thin lensy bands of grey quartz.								
245.0-257.0	Quartzite - grey with disseminated pyrite scattered through the section are some greenish argillite buttons and a few limy argillite buttons. Due to poor core recovery and the fact that the core is mainly chips and buttons the rocks are difficult to separate.								
257.0-260.5	Argillite - greenish								
260.5-263.0	Argillaceous Limestone or limy argillite with some crisscrossing veinlets of white calcits and white quartz.								

CLAIM NO. .....

DIAMOND DRILL RECORD

PROPERTY ..... HOLE NO. 67-sheet #6

LATITUDE ..... ELEVATION ..... BEARING ..... DEPTH ..... STARTED ..... COMPLETED .....

DEPARTURE ..... SECTION ..... DIP ..... DRILLED BY ..... LOGGED BY .....

DEPTH FEET	FORMATION	CORE RECOVERY From	To	Core Length	SAMPLE NO.	FROM	TO	WIDTH	ASSAYS
263.0-264.0	Argillite - black. The argillite	246.0	248.0	0.2					
	contains some crisscrossing vein-	248.0	250.0	0.9					
	lets of calcite and some small	250.0	252.0	0.3					
	angular fragments of grey quartzite.	252.0	255.0	0.9					
	The rock has a shattered or	255.0	256.0	0.9					
	brecciated appearance.	256.0	257.0	0.5					
264.0-272.8	Quartzite - grey. Between 256.6	257.0	259.0	1.3					
	and 268.0 thd quartzite contains irregular								
	patches and partings of graphitic	259.0	262.0	1.7					
	material. From 269.8 to 270.4	262.0	265.5	2.5					
	the quartzite contains green	265.5	269.5	2.3					
	argillite partings and is fairly	269.5	273.0	1.8					
	well mineralized with syrrhotite	273.0	276.0	2.3					
	and pyrite.	276.0	277.5	1.3					
272.8-277.5	Argillite - green with irregular	277.5	280.0	1.0					
	lenses of grey quartzite, giving	~~280.0~~	~~287.5~~						
	the rock somewhat of a siliceous	280.0	283.0	1.8					
	appearance.	283.0	287.5	1.2					

CLAIM NO. ..... **DIAMOND DRILL RECORD** PROPERTY ..... HOLE NO. 67-sheet #7

LATITUDE ..... ELEVATION ..... BEARING ..... DEPTH ..... STARTED ..... COMPLETED .....

DEPARTURE ..... SECTION ..... DIP ..... DRILLED BY ..... LOGGED BY .....

DEPTH FEET	FORMATION	CORE RECOVERY From	To	Core Length	SAMPLE NO.	FROM	TO	WIDTH	ASSAYS
277.5-282.0	Quartzite - grey.	287.5	292.0	2.2					
282.0-292.0	Quartzite - grey with black	292.0	295.0	3.0					
	graphitic partings and patches	295.0	300.0	1.7					
	particularly between 282 and								
	287.5. and 290.0 to 292.0								
	At 282.0 some disseminated pyrite.								
292.0-300.0	Quartzite - grey and other than a								
	few black partings, the quartzite								
	is fairly clean looking. Between								
	292.0 and 292.5 some disseminated								
	pyrite. At 295.5 and 1/8" pyrite								
	filled fracture 20° to the core.								
	END OF HOLE								
	Length of Hole 300.0								
	Overburden 22.0								
	Footage of rock drilled 278.0								
	Core recovery 135.3								
	Shorts 142.7'								

% Core recovery $\frac{135.3}{278.0}$ K100% = 48.7%

Possible fault between 263.0' and 268.6'

DIAMOND DRILL RECORD

CLAIM NO. M-25 PROPERTY McMillan HOLE NO. 68-sheet #.

LATITUDE 93741N ELEVATION 798.0 BEARING DEPTH 405.0 STARTED 15/August/55 COMPLETED 21/Aug/55

DEPARTURE 99741 E SECTION DIP 90° DRILLED BY LOGGED BY C.J. Coveney & V. Stewart

DEPTH FEET	FORMATION	CORE RECOVERY From	To	Core Length	SAMPLE NO.	FROM	TO	WIDTH	ASSAYS Ag	Pb	Zn	Cu
	H Pipe 21.0'	22.0	25.5	3.1								
	AX Casing 22.0'	25.5	30.0	4.5								
	EX Casing 23.0'	30.0	31.0	0.5								
0.0-22.0	Overburden	31.0	35.5	4.0								
22.0-55.0	Limestone-grey with numerous criss-	35.5	41.0	5.5								
	crossing veinlets of white calcite &	41.0	47.0	5.9								
	some minor partings of black graphitic	47.0	51.0	2.2								
	material. At 38.0 black partings are	51.0	56.0	4.5								
	40° to the core.	56.0	59.0	2.7								
55.0-62.3	Quartzite-limy (possibly silicified	59.0	61.0	1.8								
	lime-stone) good evidence of breccia-	61.0	66.0	3.5	2427	62.3	67.3	5.0	Tr	Tr	Tr	
	tion at 55.5. At 57.5 a 2" patch of	66.0	71.0	2.5								
	white quartz.	71.0	76.0	0.5								
62.3-67.3	Quartzite(grey?) very heavily minerali-	76.0	81.0	0.8								
determined as Arsenopyrite	zed with pyrite. The section also shows	81.0	86.0	1.3								
	a slender lath shaped grey mineral	86.0	88.0	1.6								
	abundantly distributed which is prob-	88.0	91.0	2.7								

CLAIM NO. ..... **DIAMOND DRILL RECORD** PROPERTY ..... HOLE NO. 68-sheet #2

LATITUDE ..... ELEVATION ..... BEARING ..... DEPTH ..... STARTED ..... COMPLETED .....

DEPARTURE ..... SECTION ..... DIP ..... DRILLED BY ..... LOGGED BY .....

DEPTH FEET	FORMATION	CORE RECOVERY From	To	Core Length	SAMPLE NO.	FROM	TO	WIDTH	ASSAYS Ag	Pb	Zn	Cu
	ably jamesonite or/and boulangerite.	91.0	94.0	3.1	2428	67.5	76.0	8.7	Tr	Tr	Tr	
	No visible lead or zinc. Sepecimen	94.0	98.0	3.4								
	from 62.5.	98.0	100.0	2.1								
67.5-76.0	Similar to above except the quartzite	100.0	104.0	3.2								
	has some black graphitic partings. At	104.0	109.0	3.0								
Arsenopyrite	70.0 the mineralization is 50° to the	109.0	112.0	1.0								
	core. The rock still shows a number of	112.0	115.0	2.5								
	these small lath shaped jamesonite and/	115.0	118.0	2.6	2429	76.0	86.0	10.0	Tr	Tr	Tr	
	or boulangerite crystals. Between 71.0	118.0	123.5	5.0								
	and 76.0 there is only 0.5' of core re-	123.5	133.5	6.8								
	covery.	133.5	137.0	3.1								
76.0-86.0	The whole section is nearly massive	137.0	143.0	3.2								
	pyrite (medium grained). No visible Pb	143.0	145.5	1.8								
	or Zn.	145.5	148.5	2.9								
86.0-87.0	Barren grey quartzite (possible silicified											
	or dolomitized limestone) The rock is	148.5	154.0	3.2								
	difficult to scratch, but some of the	154.0	156.0	0.6								
	scratches will effervesce with dilute HCl.											

CLAIM NO. .....

DIAMOND DRILL RECORD

PROPERTY .....

HOLE NO. 68-sheet #2

LATITUDE ..... ELEVATION ..... BEARING ..... DEPTH ..... STARTED ..... COMPLETED .....

DEPARTURE ..... SECTION ..... DIP ..... DRILLED BY ..... LOGGED BY .....

DEPTH FEET	FORMATION	CORE RECOVERY From	To	Core Length	SAMPLE NO.	FROM	TO	WIDTH	ASSAYS Ag	Pb	Zn	Cu
87.0-90.0	Argillite (dark grey to black)	156.0	159.0	0.0								
90.0-98.0	Grey barren limy quartzite? with	159.0	160.0	0.5								
	little irregular lenses (siderite?)	160.0	164.0	2.8								
	It gives the rock somewhat of a mot-	164.0	166.0	2.0	3762	98.0	103.0	5.0	Tr	Tr	Tr	
	tled appearance. Possibly solicified	166.0	168.0	1.5	2430	103.0	108.0	5.0	81.40	1.3	0.5	2.9
	Ls.	168.0	171.0	1.4	3729	108	113	5.0	11.50	Tr	Tr	
98.0-103.0	Hard silicified rock and has the ap-	171.0	175.0	1.8	3730	113	118	5.0	0.20	Tr	Tr	
	pearance of silicified limestone-bar-	175.0	180.0	3.2	3731	118	123	5.0	Trace	Tr	Tr	
	ben of mineralization.	180.0	182.0	1.4	3732	123	128	5.0	0.20	Tr	Tr	
103.0-108.0	Possibly grey quartzite heavily min-	182.0	187.0	1.8	3733	128	133	5.0	Tr	Tr	Tr	
	eralized with pyrite-considerable grey	187.0	192.0	1.8	3734	133	138	5.0	Tr	Tr	Tr	
	copper (friebergite) but no Pb or Zn	192.0	193.0	0.7	3735	145	150	5.0	Tr	Tr	Tr	
	specimend taken from 107.0	193.0	197.0	3.7	3736	150	155	5.0	Tr	Tr	Tr	
108.0-132.0	Banded dark grey to black. Argillite	197.0	205.0	5.4								
	containing abundant irregular patches	205.0	207.0	1.3								
	of narrow bands of pyrite. The section	207.0	212.0	1.8								
	is generally well banded about 60 deg.	212.0	214.0	2.0								
	to the core. Other than the irregular	214.0	216.0	2.0								
	patches the pyrite mineralization											

CLAIM NO. ..... **DIAMOND DRILL RECORD** PROPERTY ..... HOLE NO. 68-sheet # 4

LATITUDE ..... ELEVATION ..... BEARING ..... DEPTH ..... STARTED ..... COMPLETED .....

DEPARTURE ..... SECTION ..... DIP ..... DRILLED BY ..... LOGGED BY .....

DEPTH FEET	FORMATION	SAMPLE NO.	FROM	TO	WIDTH	ASSAYS			
	appears to generally folow the banding.								
132.0-133.5	Grey mineralized quartzite with a 1" band at 132.5 and with a 1" irregular patch at 133.0.								
133.5-135.4	Grey pyritized quartzite with some narrow black argillaceous partings. Crude banding 45 to 60° to the core. The pyrite mineralization generally parl's the banding.								
135.4-145.0	Argillite-green with the first foot of the section slightly pinkish. At M 3.5 about 4" of pyritized quartzite. Banding at 136.5 is 40° to the core. Only minor pyrite in this section.								
145.0-153.5	Mixed green argillite and grey quartzite about fifty-fifty. The green argillite occurs as regular patches, thin partings and definite bands. The whole section is fairly well pyritized. At 149.5 the banding is about 35° to the core. The pyrite occurs both as irregular patches and parl's to the banding.								
153.5-156.0	Weakly pyritized grey quartzite.								
156.0-159.0	Sand (drillers note)								

CLAIM NO. .....

DIAMOND DRILL RECORD

PROPERTY .....

HOLE NO. 68-sheet # 5

LATITUDE ..... ELEVATION ..... BEARING ..... DEPTH ..... STARTED ..... COMPLETED .....

DEPARTURE ..... SECTION ..... DIP ..... DRILLED BY ..... LOGGED BY .....

DEPTH FEET	FORMATION	SAMPLE NO.	FROM	TO	WIDTH	ASSAYS
159.0-171.0	Interbanding of thin green argillite with grey quartzite approx. fifty-fifty ratio. Around 161.0 about 3" of coarse pyrite. From 166.5-167.5 the section is heavily mineralized with pyrite. At 168.5 a 1" of massive coarse pyrite. Banding in this section generally good about 55° to the core.					
171.0-175.5	Fairly well pyritized grey quartzite. Around 175-175.5 the grey quartzite has these eyes of blue quartz.					
175.5-192.0	Greenish argillite with lenses and small bands of grey quartzite. The section although not heavily pyritized still has considerable pyrite. At 180.0 the banding is 40° to 50° to the core.					
192.0-222.0	Well pyritized dark grey to black argillite. The mineralization occurring as disseminations, irregular patches, massive sections, and par'l to the banding. Although the pyrite is heavy there is no visible Pb or Zn. Banding at 214.0 is 40° to the core.					
220.0-225.0	Pyritized grey quartzite.					
225.0-226.0	Weakly pyritized dark grey argillite.					
226.0-231.5	Mainly pyritized dark grey argillite with probably some interbands of quartzite.					
231.5-282.0	The whole section is nearly massive pyrite. Due to complete					

CLAIM NO. ..... **DIAMOND DRILL RECORD** PROPERTY ..... HOLE NO. 68-sheet 6

LATITUDE ..... ELEVATION ..... BEARING ..... DEPTH ..... STARTED ..... COMPLETED .....

DEPARTURE ..... SECTION ..... DIP ..... DRILLED BY ..... LOGGED BY .....

DEPTH FEET	FORMATION	CORE RECOVERY From	To	Core Length	SAMPLE NO.	FROM	TO	WIDTH	ASSAYS Ag	Pb	Zn	Cu
	replacement of the rock by pyrite it is	216.0	222.0	3.9								
	difficult to tell the composition of the	222.0	225.0	1.7								
	original rock. The unreplaced sections of	225.0	230.0	3.3								
	the rock appear to be quartzite at 253.5 a	230.0	233.5	2.1								
	1" button to dark grey to black argillite.	233.5	237.5	2.4								
	The banding at 242.5 is 60° to the core.	237.5	240.0	1.5								
282.0-290.0	Dark grey pyritized argillite. The pyrite	240.0	244.5	3.0								
	occurs in massive sections 2"-3" in wid-	244.5	249.0	3.3	3737	192	197	5.0	2.00	Tr	Tr	
	th and has narrow bands. The banding is	249.0	255.0	5.0	3738	197	302	5.0	1.10	Tr	Tr	
	50' to the core.	255.0	260.0	1.8	3739	202	207	5.0	Tr	Tr	Tr	
290.0-301.0	Massive coarse pyrite. Original rock	260.0	262.0	1.6	3740	207	212	5.0	Tr	Tr	Tr	
	completely replaced except from 300.0 to	262.0	268.0	3.3	3741	212	217	5.0	Tr	Tr	Tr	
	301.0 which is grey quartzite.	268.0	272.0	3.0	3742	217	222	5.0	Tr	Tr	Tr	
301.0-311.0	Light grey to dark grey rock and has a somewhat mottled ap-				2431	231.5	236.5	5.0	0.30	Tr	Tr	
	pearance and a number of criss-crossing veinlets of white				2432	236.5	241.5	5.0	Tr	Tr	Tr	
	quartz, and white calcite. Rock is probably a silicified lime-				2433	241.5	246.5	5.0	Tr	Tr	Tr	
	stone or limy quartzite, difficult to scratch but the scratch				2434	246.5	252.0	5.5	Tr	Tr	Tr	
	will effervesce slightly with dilute HCl.				2435	252.0	257.0	5.0	0.10	Tr	Tr	

CLAIM NO. .....

DIAMOND DRILL RECORD

PROPERTY .....

HOLE NO. 68-sht # 7

LATITUDE ..... ELEVATION ..... BEARING ..... DEPTH ..... STARTED ..... COMPLETED .....

DEPARTURE ..... SECTION ..... DIP ..... DRILLED BY ..... LOGGED BY .....

DEPTH FEET	FORMATION	CORE RECOVERY From	To	Core Lgt.	SAMPLE NO.	FROM	TO	WIDTH	ASSAYS Ag	Pb	Zn	Cu
	Banding at 307.0 to 55° to the core. Little to weak mineral-				2436	257.0	262.0	5.0	Tr	Tr	Tr	
	ization. Some brecciation at 306.0				2437	262.0	268.0	6.0	Tr	Tr	Tr	
311.0-315.0	Dark grey limy argillite with a number of criss-crossing vein-				2438	268.0	273.0	5.0	Tr	Tr	Tr	
	lets of white calcite and white quartz. Rock is similar to				2439	273.0	278.0	5.0	Tr	Tr	Tr	
	preceding section but not as hard; it will however show some				2440	278.0	283.0	5.0	Tr	Tr	Tr	
	slight effervescence on a scratched surface.				2441	283.0	290.0	7.0	Tr	Tr	Tr	
315.0-342.0	Light to dark grey limy quartzite. Rock	272.0	277.0	3.6	2442	290.0	295.0	5.0	Tr	Tr	Tr	
	is similar to the section 301.0-311.0.	277.0	279.0	1.8	2443	295.0	301.0	6.0	Tr	Tr	Tr	
	Between 316.0 to 319.0 the rock has	279.0	282.0	0.8								
	somewhat of a mottled appearance. The	282.0	285.0	2.3								
	section also contains a number of criss-	285.0	290.0	3.0								
	crossing veinlets of white calcite &	290.0	295.0	4.6								
	white quartzite. Banding at 326.0 is	295.0	301.0	2.8								
	40° to the core. Pyritized between 316-	301.0	305.5	2.7								
	316.5 and between 327.0-327.5, an isolat-	305.5	309.5	3.7								
	ed speck of Sph at 317.0. At 326.8 the	309.5	310.0	0.4								
	rock is brecciated. The last 4" ~~~~	310.0	314.0	3.4								

CLAIM NO. ..... **DIAMOND DRILL RECORD** PROPERTY ..... HOLE NO. 68-sheet #8

LATITUDE ..... ELEVATION ..... BEARING ..... DEPTH ..... STARTED ..... COMPLETED .....

DEPARTURE ..... SECTION ..... DIP ..... DRILLED BY ..... LOGGED BY .....

DEPTH FEET	FORMATION	CORE RECOVERY From	To	Core Rec. Length	SAMPLE NO.	FROM	TO	WIDTH	ASSAYS Ag	Pb	Zn	Cu
	section, fine grained white quartzite.											
	From 330.0 to end of section the quartz-	314.0	319.0	4.3								
	ite contains scattered black graphitic	319.0	320.0	1.0								
	partings.	320.0	322.0	1.8								
342.0-348.0	Quartzite-grey, with thready partings &	322.0	324.0	2.0								
	irregular patches of green argillite.	324.0	330.0	5.9								
348.0-372.0	Quartzite-grey, with black graphitic	330.0	336.0	4.9								
	partings. Crude banding at 362.5 is 50°	336.0	342.0	3.0								
	to the core. From 357.0 to 357.5 heavily	342.0	349.0	4.4								
	pyritized.	349.0	353.0	2.2								
372.0-405.0	Quartzite-grey, with numerous black graph-	353.0	357.0	1.3								
	itic partings. Most of the section is	357.0	362.0	1.2								
	broken buttons and chips. The graphite	362.0	365.0	3.0	302-330 fairly clear of mineralization							
	on some of the broken buttons & chips	365.0	370.0	3.0								
	has a polished or slicken-sided surface	370.0	372.0	1.4								
	suggesting we are either in or close to	372.0	377.0	2.3								
	a fault zone. From 377.0-378.0 the quartz-	377.0	378.5	1.5								
	ite contains some green argillite thready	378.5	382.0	1.8								
	partings.	382.0	385.0	1.5								

CLAIM NO. .....

DIAMOND DRILL RECORD

PROPERTY .....

HOLE NO 68-sheet # 9

LATITUDE ..... ELEVATION ..... BEARING ..... DEPTH ..... STARTED ..... COMPLETED .....

DEPARTURE ..... SECTION ..... DIP ..... DRILLED BY ..... LOGGED BY .....

DEPTH FEET	FORMATION	CORE RECOVERY From	To	Core Length	SAMPLE NO.	FROM	TO	WIDTH	ASSAYS
	END OF HOLE	385.0	390.0	1.6					
	Depth of hole 405.0'	390.0	395.0	3.3					
	Overburden 22.0	395.0	399.0	0.3					
	Core recovered 383.0	399.0	401.0	0.4					
	Shorts 247.9	401.0	405.0	0.6					
	135.1								
	% Recovery $\frac{247.9}{383.0} \times 100 = 64.7\ \%$								

CLAIM NO. M-25

DIAMOND DRILL RECORD

PROPERTY McMillan

HOLE NO. 69

LATITUDE 93732 N | ELEVATION 810.0 | BEARING -- | DEPTH 425.0 | STARTED | COMPLETED August 24, 1955

DEPARTURE 93410 E | SECTION | DIP -90° | DRILLED BY | LOGGED BY C. J. Coveney & V. Stewart

DEPTH FEET	FORMATION	CORE RECOVERY From	To	Core Length	SAMPLE NO.	FROM	TO	WIDTH	ASSAYS
0.0-32.0	Overburden	32.0	33.5	1.5					
32.0-33.7	Quartzite-grey, somewhat rusty. At	33.5	35.0	1.3					
	32.5 a piece of the quartzite has	35.0	37.0	2.0					
	a ½" fragment of grey limestone.	37.0	41.0	3.5					
33.7-34.7	Broken chips of dark grey argil-	41.0	44.0	2.9					
	lite.	44.0	48.0	1.6					
34.7-35.5	Light grey solicious limestone?	48.0	53.0	2.4					
35.5-36.8	Mixed grey quartzite & dark grey	53.0	58.0	0.8					
	argillite about fifty-fifty.	58.0	60.0	1.0					
36.8-37.5	Quartzite-grey with small eyes of	60.0	62.0	1.6					
	grey quartz. A scratched surface	62.0	65.0	1.5					
	shows the rock to be slightly limy.	65.0	70.0	3.5					
37.5-39.0	Coarse dark grey argillite. The	70.0	740	1.8					
	argillite has small irregular pat-	74.0	77.0	1.2					
	ches of light grey. Quartzite	77.0	78.0	1.0					
	alined along the banding. Banding	78.0	81.0	1.4					
	is about 30 deg. to the core.	81.0	83.0	2.0					

CLAIM NO. .....

DIAMOND DRILL RECORD

PROPERTY Sheet No. 2 HOLE NO. 69

LATITUDE ..... ELEVATION ..... BEARING ..... DEPTH ..... STARTED ..... COMPLETED .....

DEPARTURE ..... SECTION ..... DIP ..... DRILLED BY ..... LOGGED BY .....

DEPTH FEET	FORMATION	SAMPLE NO.	FROM	TO	WIDTH Rec.	ASSAYS Pb	Zn	Au	Ag
39.0-41.7	Quartzite-light grey slightly limy.								
41.7-43.8	Argillite-grey. Banding is 30° to the core.	7962	40	50	3'	0.01	0.01	0.003	0.04
43.8-48.2	Quartzite-light grey.	7963	50	60	2'	0.01	0.01	0.003	0.05
48.2-51.0	Quartzite-pyritized. Banding is about 30° to the core. Section	7964	60	70	3.9'	0.01	0.01	0.003	0.04
	grades into this following section.	7965	70	80	3.5'	0.01	0.01	0.003	0.05
51.0-53.0	Argillite-dark grey.	7966	80	90	8.6'	0.01	0.01	0.003	0.04
53.0-58.0	Quartzite - light grey	7967	90	100	3.5'	0.03	0.01	0.003	0.04
58.0-65.0	Argillite. dark grey to black. Banding at 64.5 is 35° to the	7968	100	110	4.0'	0.01	0.01	0.003	0.04
	core.	7969	110	120	5.8'	0.01	0.01	0.003	0.02
65.0-67.5	Argillite-dark grey, coarse textured . The argillite contains minute eyes of either grey quartzite or grey quartz. The last 6" of the section are fairly well pyritized.								
67.5-70.0	Interbanded grey quartzite and dark grey argillite. Overall banding about 40° to the core. At 69.0 the rock has a crushed or squeezed appearance.								
70.0-74.0	Weakly pyritized grey quartzite. The pyrite specks occur as disseminations & also alined par'l to the banding which is about 40 degrees to the core.								

CLAIM NO. .....

DIAMOND DRILL RECORD

PROPERTY Sheet No. 3 HOLE NO. 69

LATITUDE ..... ELEVATION ..... BEARING ..... DEPTH ..... STARTED ..... COMPLETED .....

DEPARTURE ..... SECTION ..... DIP ..... DRILLED BY ..... LOGGED BY .....

DEPTH FEET	FORMATION	SAMPLE NO.	FROM	TO	WIDTH	ASSAYS
74.0-81.5	Quartzite- grey, with a considerable amount of criss-crossing veinlets of either siderite and/or ankerite. The banding at 81.5 is contorted. Slightly limy or scratched surface.					
81.5-88.0	Light to dark grey argillite with minor quartzite around 85.0 at 84.0 the banding is approx. par'l to the core. At 85.0 the banding is 50 degrees to the core.					
88.0-93.0	Quartzite-grey, somewhat impure. Between 88.0 & 89.0 some small ankerite or siderite filled fractures. Very slight effervescence.					
93.0-100.3	Intermixed buttons and chips of grey quartzite and light and dark grey argillite.					
100.3-103.0	Quartzite-grey. Banding at 101.5 is 50° to the core. Section also shows a few siderite or ankerite filled fractures.					
103.0-107.8	Argillite-mainly dark grey					
107.8-114.5	Quartzite-grey with minor argillite. Banding at 110.0 is about 55° to the core. Slight effervescence.					
114.5-170.0	Argillite-interbanded light grey, dark grey, and greenish. From 124.0 to 124.5 is grey quartzite also possibly 137 &					

CLAIM NO. .....

DIAMOND DRILL RECORD

PROPERTY .....

HOLE NO. 69-sheet #

LATITUDE ..... ELEVATION ..... BEARING ..... DEPTH ..... STARTED ..... COMPLETED .....

DEPARTURE ..... SECTION ..... DIP ..... DRILLED BY ..... LOGGED BY .....

DEPTH FEET	FORMATION	CORE RECOVERY From	To	Core Length	SAMPLE NO.	FROM	TO	WIDTH	ASSAYS
	137.5, 148.4 to 148.7-quartzite.	83.0	87.0	4.0					
	Probably more narrow quartzite bands	87.0	90.0	3.0					
	as part of the section show small	90.0	93.0	1.5					
	chips of grey quartzite. For the	93.0	96.0	2.5					
	most part the argillite is well	96.0	101.0	2.6					
	banded, about 50° to the core.	101.0	106.0	3.1					
170.0-175.0	Only 3 buttons, two of which are	106.0	109.0	2.1					
	calcite and one grey quartzite.	109.0	111.5	2.1					
175.0-213.5	Pinkish tinted argillite with thready								
	light partings of green argillite.	111.5	114.5	1.2					
	It has in addition some scattered	114.5	116.0	1.5					
	lenses and irregular patches of grey	116.0	118.5	2.5					
	quartz. The Kpink argillite is char-	118.5	122.0	3.2					
acterized by	the abundance of little green specks	122.0	125.0	2.7					
	(probably isolated threads of green	125.0	128.5	3.5					
	argillite) Locally the rock shows an	128.5	132.0	2.5					
	evidence of squeezing. Average banding								
		132.0	137.0	2.6					

CLAIM NO. .....

DIAMOND DRILL RECORD

PROPERTY .....

HOLE NO. 69-sheet # 5

LATITUDE ..... ELEVATION ..... BEARING ..... DEPTH ..... STARTED ..... COMPLETED .....

DEPARTURE ..... SECTION ..... DIP ..... DRILLED BY ..... LOGGED BY .....

DEPTH FEET	FORMATION	CORE RECOVERY From	To	Core Length	SAMPLE NO.	FROM	TO	WIDTH	ASSAYS
	is probably 45° to the core. Parts	137.0	140.0	2.7					
	of the section show good core re-	140.0	143.0	2.3					
	covery while other sections are	143.0	148.5	2.0					
	only broken chips. Some scattered	148.5	155.0	2.5					
	pyrite between 203.0-205.0	155.0	159.0	1.6					
213.5-239.7	Argillite-light grey to green,	159.0	161.0	0.6					
	somewhat crumply	161.0	165.0	1.7					
239.7-243.0	Buttons of grey quartzite, some	165.0	170.0	3.3					
	spotty pyritization.	170.0	175.0	0.2					
243.0-259.5	Broken buttons of grey quartzite	175.0	180.0	1.1					
	with some irregular thready green	180.0	183.0	2.5					
	argillite. Crude banding at 245.0	183.0	186.0	2.5					
	is 40° to the core.	186.0	193.0	2.7					
259.5-264.0	Mainly chips and buttons of light	193.0	196.0	1.0					
	grey argillite.	196.0	198.0	1.8					
264.0-271.5	Small chips of grey quartzite.	198.0	202.0	1.8					
	From 264.0 - 264.5 sand.	202.0	205.0	3.0					

CLAIM NO. .....

DIAMOND DRILL RECORD

PROPERTY .....

HOLE NO. 69-sheet # 1

LATITUDE ..... ELEVATION ..... BEARING ..... DEPTH ..... STARTED ..... COMPLETED .....

DEPARTURE ..... SECTION ..... DIP ..... DRILLED BY ..... LOGGED BY .....

DEPTH FEET	FORMATION	CORE RECOVERY From	To	Core Length	SAMPLE NO.	FROM	TO	WIDTH	ASSAYS
271.5-325.0	The section is mainly grey quartzite	205.0	208.0	1.8					
	with some black graphitic partings	208.0	214.0	1.9					
	particularly from 291.0-313.0. From	214.0	217.0	1.1					
	271.5-291.5 the core is mainly broken								
	buttons and chips.	217.0	220.0	1.2					
	Some of the chips are dark grey	220.0	222.0	0.5					
	to black argillite, but whether	222.0	226.0	2.8					
	they represent narrow bands or	226.0	229.0	1.5					
	broken chips of the black partings	229.0	231.0	1.4					
	is not clear. The surface of some	231.0	235.0	0.9					
	of the broken chips have somewhat of	235.0	240.0	1.1					
	a polished surface. This section	240.0	242.5	1.0					
	maybe part of a crushed zone or	242.5	245.0	1.5					
	close to a fault zone beyond	245.0	249.0	0.4					
	depth of hole. At 322 at 4" section	249.0	254.0	0.9					
	of core is well brecciated.	254.0	259.0	1.0					
	END OF HOLE	259.0	264.0	3.1					

CLAIM NO. .....

DIAMOND DRILL RECORD

PROPERTY .....

HOLE NO. 69-sheet #7

LATITUDE ..... ELEVATION ..... BEARING ..... DEPTH ..... STARTED ..... COMPLETED .....

DEPARTURE ..... SECTION ..... DIP ..... DRILLED BY ..... LOGGED BY .....

DEPTH FEET	FORMATION	CORE RECOVERY From	To	Core Length	SAMPLE NO.	FROM	TO	WIDTH	ASSAYS
	~~Length of Hole - 325.0~~	264.0	270.0	1.8					
	Overburden - 32.0	270.0	273.0	0.9					
	Core drilled 293.0	273.0	277.0	1.1					
	Core length 159.1	277.0	281.0	1.6					
	Shorts 133.9	281.0	285.0	2.6					
	% Core recovery= 54.4%	285.0	291.0	3.8					
		291.0	295.0	3.1					
		295.0	298.0	2.7					
		298.0	301.0	1.4					
		301.0	307.0	5.0					
		307.0	310.0	0.9					
		310.0	313.0	1.9					
		313.0	317.0	1.8					
		317.0	321.0	0.9					
		321.0	325.0	2.6					

DIAMOND DRILL RECORD

CLAIM NO. M-25 PROPERTY McMillan HOLE NO. 70

LATITUDE 93,737 N ELEVATION 818.0 BEARING -- DEPTH 302.0' STARTED 26 Aug/55 COMPLETED 1 Sept/55

DEPARTURE 99,100 E SECTION DIP -90° DRILLED BY LOGGED BY C. J. Coveney & V. Stewart

DEPTH FEET	FORMATION	CORE RECOVERY From	To	Core Length	SAMPLE NO.	FROM	TO	WIDTH	ASSAYS Ag	Pb	Zn
	H.Rods --	46.0	51.0	4.3							
	Ax Casing 29.0										
	Ex Casing 63.0	51.0	56.0	3.1							
0.0-46.0	Overburden	56.0	60.0	2.1							
46.0-51.0	White quartz	60.0	62.0	1.7							
51 - 52.0	Argillaceous qtze. Banding 35 to core	62.0	65.0	2.7							
	Somewhat pyritized.	65.0	70.0	3.6							
52.0-57.0	White quartz. Minor pyrite	70.0	75.5	3.5							
57.0-62.0	Buttons of greenish gray argillite	75.5	79.0	3.5							
	Some criss=crossing veinlets of white	79.0	83.0	2.8							
	to grey quartz at 57.5.	83.0	90.0	1.5							
62-62.5	White quartz	90.0	100.0	3.9							
62.5-66.5	Argillite, greenish gray. Banding about 35 to core. Some narrow (1/ 4)" bands of pyrite parallel to core. At 65.5 there is a narrow fracture filled with pyrite. The fractures cuts the banding at 45°.										

CLAIM NO. ..... **DIAMOND DRILL RECORD** PROPERTY Sheet No. 2 HOLE NO. 70

LATITUDE ..... ELEVATION ..... BEARING ..... DEPTH ..... STARTED ..... COMPLETED .....

DEPARTURE ..... SECTION ..... DIP ..... DRILLED BY ..... LOGGED BY .....

DEPTH FEET	FORMATION	CORE RECOVERY From	To	Core Length	SAMPLE NO.	FROM	TO	WIDTH	ASSAYS Ag	Pb	Zn	
66.5-71.0	Well pyritized. The rock type is a dark gray to black argillite. However from 66.8-67.0 and from 68.0-69.0 is the section where there is heavily pyritized and the rock in these sections is grey qtze. For the most part the pyrite occurs as heavy disseminations and patches rather than parallel to the banding.				2444	66.5	71.0	4.5	Tr	Tr	Tr	Rec 72%
71.0-76.0	Dark gray to black pyritized argillite. The mineralization is not quite so heavy as in the proceeding section. Overall banding about 45° to the core. As in the above section the pyrite occurs principally as disseminations & irregular patches rather than parallel to the banding.				2445	71.0	76.0	6.0	Tr	Tr	Tr	Rec 63.6%
76.0-84.0	Dark gray to black somewhat pyritized											

CLAIM NO. .....

DIAMOND DRILL RECORD

PROPERTY Sheet No. 3 HOLE NO. .....

LATITUDE ..... ELEVATION ..... BEARING ..... DEPTH ..... STARTED ..... COMPLETED .....

DEPARTURE ..... SECTION ..... DIP ..... DRILLED BY ..... LOGGED BY .....

DEPTH FEET	FORMATION	CORE RECOVERY From	To	Core Length	SAMPLE NO.	FROM	TO	WIDTH	ASSAYS Au	Pb	Zn	Recover
	argillite. Rock brecciated at 79.5	100.0	105.0	0.6	2446	76.0	84.0	8.0	Tr	Tr	Tr	84.0%
	Pyrite occurs mainly as irregular	105.0	107.0	0.8	2447	84.0	90.0	6.0	Tr	Tr	Tr	21.4%
	patches but not uniformly distributed.											
84.-90.0	Massive pyrite. Core & recovery poor.	107.0	109.0	1.0								
	No visible Pb or Zn	109.0	111.0	1.8								
90.0-100.0	Massive pyrite. In both the above &	111.0	113.0	2.0								
	in this section the original rock has been											
	nearly completely replaced. What unreplaced											
	rock seen is gray quartzite. The pyrite											
	is coarse. No visible Pb or Zn.	113.0	115.0	0.6								
100.0-105.0	Argillite, green buttons & chips	115.0	118.0	2.8	2448	90.0	100.0	10.0	0.10	Tr	Tr	39.0%
105.0-108.8	Argillaceous qtze? Banding at 108.0'	118.0	122.0	3.4								
	is 20° to the core.	122.0	125.0	3.0								
108.8-109.5	Qtze gray with minor threading pyrite.											
109.5-111.0	Chips of greenish gray argillite	125.0	130.0	3.8								
111.0-112.0	Qtze, gray with some criss-crossing	130.0	134.5	3.2								
	veinlets of white quartz	134.5	139.0	3.4								

CLAIM NO. .....

DIAMOND DRILL RECORD

PROPERTY Sheet No. 4 HOLE NO. 70

LATITUDE ..... ELEVATION ..... BEARING ..... DEPTH ..... STARTED ..... COMPLETED .....

DEPARTURE ..... SECTION ..... DIP ..... DRILLED BY ..... LOGGED BY .....

DEPTH FEET	FORMATION	CORE RECOVERY From	To	Core Length	SAMPLE NO.	FROM	TO	WIDTH	ASSAYS Au	Ag	Pb	Zn	Recove
112.0-118.0	Coarse textured black argillite	139.0	143.5	3.4									
	The rock has the appearance of	143.5	149.0	3.8	7970	100 1	110	0.003	0.02	0.01	0.01	2.0
	having undergone crushing or				7971	110	120	0.003	0.03	0.01	0.01	5.8
	squeezing. The distinguishing char-				7972	120	130	0.003	0.03	0.01	0.01	8.7
	acteristic of this rock is the minute				7973	130	140	0.003	0.02	0.01	0.01	5.0
	eyes of qtze or gy qz. alined in such											
	a way as to give the rock the appear-											
	ance of banding which is about 40°											
	to the core.											
118.0-120.0	Qtze gray, somewhat pyritized. Good											
	evidence of brecciation or crushing											
	at 119.0. Banding at 120.0 is 45° to											
	the core.											
120.0-122.0	Argillite - black											
122.0-124.0	Quartzite - gray, pyritized. The banding from 122.0 - 123.5 is											
	parallel to the core. The pyrite appears to parallel the											
	banding. (Note the folding) in places and in others angles											
	across the banding.											

CLAIM NO. .....

DIAMOND DRILL RECORD

PROPERTY ..... Sheet No. 5 ..... HOLE NO. 70

LATITUDE ..... ELEVATION ..... BEARING ..... DEPTH ..... STARTED ..... COMPLETED .....

DEPARTURE ..... SECTION ..... DIP ..... DRILLED BY ..... LOGGED BY .....

DEPTH FEET	FORMATION	SAMPLE NO.	FROM	TO	WIDTH	ASSAYS
124.0-132.5	Mainly greenish argillite with grey quartzite bands at 126.0-126.5; 129.0-129.8. Locally the section from 130-132.0 contains some narrow lenses, patches and bands of grey quartz. Banding at 132.0 is approximately 35° to the core.					
132.5-135.0	Interbanded black and green argillite. Banding at 133.5 is 40° to the core.					
135.0-136.0	Quartzite - gray with some black graphitic partings. Minor pyrite.					
136.0-153.0	Greyish quartzitic argillite (?) Pyritized between 139.5-140.0 and 144.0-144.5 Banding at 142.5 is 40° to the core. Miniature faulting at 142.0. Banding at 144.0 is 20° to the core. 144.5-145.0 chips of grey argillite 148.0- 148.8 greenish grey argillite. 151.5-152.0 green argillite. Banding at 150.0 is 30° to the core. The rock is well brecciated at 152.0.					
153.0=154.0	Chips of green argillite					
154.0-163.5	Quartzite - grey with a few criss-crossing veinlets of whitish quartz. Banding at 163.0 is 30 degrees to the core.					

CLAIM NO. .....

DIAMOND DRILL RECORD

PROPERTY Sheet No. 6 HOLE NO. 70

LATITUDE ..... ELEVATION ..... BEARING ..... DEPTH ..... STARTED ..... COMPLETED .....

DEPARTURE ..... SECTION ..... DIP ..... DRILLED BY ..... LOGGED BY .....

DEPTH FEET	FORMATION	CORE RECOVERY From	To	Core Length	SAMPLE NO.	FROM	TO	WIDTH	ASSAYS
163.5-165.0	Chips of dark grey argillite.	149.0	154.0	3.3					
165.0-167.0	Buttons of grey quartzite.	154.0	160.0	1.3					
167.0-181.5	Argillite - green with some narrow	160.0	167.0	2.3					
	bands and lenses of grey quartz.	167.0	170.0	1.0					
	Banding at 176.0 is 40° to the core	170.0	174.0	1.4					
181.5-183.0	Quartzite - grey with a patch of	174.0	177.0	1.4					
	green argillite at 182.0	177.0	182.0	3.4					
183.0-185.5	Argillite-green	182.0	187.0	3.6					
185.5-187.5	Mixed buttons of grey quartzite.&	187.0	190.0	3.0					
	green argillite.	190.0	195.0	3.0					
187.5-206.0	Argillite-pinkish tinted with thre-	195.0	200.0	1.9					
	ad like partings of green argillite	200.0	206.0	1.8					
	and some stringery lenses of grey	206.0	211.0	3.6					
	quartz. Well brecciated between 200.0 and 200.5								
206.0-210.5	Quartzite-with considerable thready patches of greenish								
	argillite. At 210.5 the quartzite contains some black								
	argillite partings.								

CLAIM NO. .....

DIAMOND DRILL RECORD

PROPERTY ..... Sheet No. 7 ..... HOLE NO. 70

LATITUDE ..... ELEVATION ..... BEARING ..... DEPTH ..... STARTED ..... COMPLETED .....

DEPARTURE ..... SECTION ..... DIP ..... DRILLED BY ..... LOGGED BY .....

DEPTH FEET	FORMATION	CORE RECOVERY From	To	Core Length	SAMPLE NO.	FROM	TO	WIDTH	ASSAYS
210.5-217.5	Schisted green argillite (possibly	211.0	217.0	3.8					
	schist) crumply.	217.0	222.0	4.2					
217.5-218.0	Pyritized greyish brecciated quart-	222.0	227.0	1.1					
	zite.	227.0	232.0	1.0					
218.0-221.5	Argillite-greenish, mainly chips.	232.0	235.0	1.8					
221.5-225.5	Pyritized grey quartzite. Pyrite	235.0	239.5	1.7					
	is nearly massive.	239.5	247.0	1.4					
225.5-231.5	Green quartzitéic argillite.	247.0	253.0	2.1					
231.5-232.0	A few buttons of grey quartzite	253.0	257.0	2.2					
232.0-239.0	Chips of greyish green argillite	257.0	260.0	1.7					
239.0-247.0	Heavily pyritized grey quartzite?	260.0	262.0	0.9					
	only 1.4' of core recovered in	262.0	266.0	3.4					
	this section.	266.0	268.0	2.0					
247.0-250.0	Grey quartzite with some irregular partings of black argillite.								
250.0-253.0	Broken buttons and chips of black argillite. Banding at 252.5								
	is 60 degrees to the core.								
253.0-260.0	Black argillite.								

CLAIM NO. .....

DIAMOND DRILL RECORD

PROPERTY Sheet No. 8 ..... HOLE NO. 70

LATITUDE ..... ELEVATION ..... BEARING ..... DEPTH ..... STARTED ..... COMPLETED .....

DEPARTURE ..... SECTION ..... DIP ..... DRILLED BY ..... LOGGED BY .....

DEPTH FEET	FORMATION	SAMPLE NO.	FROM	TO	WIDTH	ASSAYS

260.0-266.5 Grey quartzite. A few minor black partings. The first few feet are somewhat pyritized.

266.5-267.0 Argillite-black - somewhat of a brecciated appearance.

267.0-302.0 Clean grey quartzite, locally weakly pyritized. From 281.0 to 282.0 blackish impure quartzite? (Some black argillite in this foot)

END OF HOLE

Length of Hole 302.0
Overburden 46.0
Rock footage 256.0
Core Recovered 149.8
Shorts 106.2

% Core Recovery

$\frac{149.8}{256.0} \times 100 = 58.2\ \%$

CORE RECOVERY

From	To	Core Length
268.0	275.0	4.9
275.0	281.0	2.6
281.0	284.0	3.0
284.0	287.0	3.0
287.0	289.0	2.0
289.0	291.0	0.7
291.0	294.0	3.0
294.0	299.0	4.6
299.0	302.0	1.4

CLAIM NO. .....

DIAMOND DRILL RECORD

PROPERTY McMillan HOLE NO. 71-1

LATITUDE 94737N ELEVATION 752.0 BEARING -- DEPTH 250.0 STARTED 2 Sept/55 COMPLETED 8 Sept/55

DEPARTURE 99054E SECTION DIP 90 DRILLED BY LOGGED BY C. J. Coveney

DEPTH FEET	FORMATION	SAMPLE NO.	FROM	TO	WIDTH	ASSAYS
	AX 25.0 EX 66.0					
	CORE RECOVERY From To Core Length					
0.0-48.0	Overburden					
	Buttons of dolomite or dolomitised					
48.0-54.3	ls.					
54.3-59.8	Argillite pink. Banding at 56 feet					
	is 30 degrees to the core.					
59.8-61.0	About 10 broken buttons one of which					
	is gray qtz. and the rest dolomitised					
	ls. May possibly be material from					
	48.0-54.3 that fell in hole.					
61.0-67.0	Buttons of blue gray ls.					
67.0-67.5	Buttons of white ls.					
67.5-71.0	Impure qtze. with minor amounts of					
	siderite. Banding at 68.0' is 45 -					
	50 degrees to the core.					
71.0-73.0	Chips of quartzitic. Creamy argil-					
	lite with some siderite.					

From	To	Core Length
48.0	54.0	1.9
54.0	60.0	2.0
60.0	61.0	0.5
61.0	67.0	1.0
67.0	70.0	1.2
70.0	71.0	1.1
71.0	75.0	1.9
75.0	80.0	31
80.0	84.0	2.6
84.0	87.0	1.8
87.0	89.5	2.1
89.5	93.5	1.5
93.5	98.0	4.5
98.0	101.0	3.1
101.0	106.0	2.0

CLAIM NO. .....

DIAMOND DRILL RECORD

PROPERTY ..... HOLE NO. 77-2

LATITUDE ..... ELEVATION ..... BEARING ..... DEPTH ..... STARTED ..... COMPLETED .....

DEPARTURE ..... SECTION ..... DIP ..... DRILLED BY ..... LOGGED BY .....

DEPTH FEET	FORMATION				SAMPLE NO.	FROM	TO	WIDTH	ASSAYS			
									Ag	Pb	Zn	Cu
73.0-80.5	Argillite pink. Banding about 60	106.0	111.0	2.1								
	degrees to the core.	111.0	116.0	2.0								
80.5-83.5	Argillite, purple. Mainly chips											
83.5-93.0	Ls, white, dense.	116.0	121.0	3.6								
03.0-95.5	Argillite, pink, banded. Banding	121.0	126.0	3.1								
	7 - 75 degrees to core.	126.0	131.0	2.4								
95.5-100.0	Argillite, purple banded. Banding	131.0	134.0	1.0								
	at 97' is 50 degrees to core. Some	136.0	141.0	1.8								
	miniature faulting. Probably a	141.0	142.5	1.2								
	soft rock structure.	142.5	145.0	2.1								
100.0-100.5	Crumply green argillite	145.0	149.0	2.2								
100.5-102.0	White quartz	149.0	154.0	1.4								
102.0-111.5	Argillite, pink, banded. Banding	154.0	159.0	1.3								
	about 40 degrees to the core.	159.0	161.0	1.2								
111.5-117.0	Argillite, purple - locally some	161.0	165.5	0.5								
	miniature faulting. Banding at	165.5	170.5	3.0								
	113 feet is 60 - 65 to core.	170.5	173.0	1.2								
117.0-118.5	Argillite, pink	173.0	178.0	2.6								
118.5-121.2	Argillite, purple, banded. Banding	178.0	182.0	1.9	2449	128.5	131.8	3.0	Tr	Tr	Tr	Tr
	60 degrees to core.	182.0	187.0	1.3					66% Rec.			

CLAIM NO. .....

DIAMOND DRILL RECORD

PROPERTY ..... HOLE NO. 71-3

LATITUDE ..... ELEVATION ..... BEARING ..... DEPTH ..... STARTED ..... COMPLETED .....

DEPARTURE ..... SECTION ..... DIP ..... DRILLED BY ..... LOGGED BY .....

DEPTH FEET	FORMATION	CORE RECOVERY From To Core Length	SAMPLE NO.	FROM	TO	WIDTH	ASSAYS Ag	Pb	Zn	Cu
121.2-124.0	Argillite pink with some irregular patches of gray qtze.									
124.0-124.5	Gray qtze.									
124.5-126.0	Argillite pink									
126.0-128.5	Qtze. gray with patches of pink qtze. At 128.5 some brecciation.									
128.5-131.5	Nearly massive coarse pyrite. The host rock appears to be gray qtze. Banding 60 degrees to core.									
131.5-145.0	Limestone. Blue-gray with some crisscrossing ~~veinlets~~ of white calcite and white quartz									
145.0-143.3	Gray pyritized qtzs.									
149.3-154.0	Massive coarse pyrite. The few fragments of visible host rock are gray quartz.		2450	143.3	154.0	4.7	Tr	Tr 30.0 Rec.	0.1	Tr
154.0-155.0	Gray pyritized qtze.									
155.0-165.5	Gray somewhat silicified Ls.									
165.5-170.5	Argillite gray - the last foot has a slight pink tint									

CLAIM NO. .....

DIAMOND DRILL RECORD

PROPERTY ..... HOLE NO. 71-4

LATITUDE ..... ELEVATION ..... BEARING ..... DEPTH ..... STARTED ..... COMPLETED .....

DEPARTURE ..... SECTION ..... DIP ..... DRILLED BY ..... LOGGED BY .....

DEPTH FEET	FORMATION	CORE RECOVERY From	To	Core Length	SAMPLE NO.	FROM	TO	WIDTH	ASSAYS
170.5-173.0	Green crumply argillite (schistose	187.0	192.0	1.7					
	structure)	192.0	197.0	1.4					
173.0-186.5	Argillite gray; 181.0 - 181.5 white	197.0	202.0	2.1					
	quartz	202.0	206.0	1.9					
186.5-191.5	Limestone gray with thready	206.0	209.0	1.1					
	black partings of black carbon-	209.0	214.0	1.1					
	aceous material. Some of the	214.0	218.0	0.9					
	black material appears as stylolit-	218.0	220.0	0.2					
	es. Rock has a somewhat shattered	220.0	224.0	0.4					
	appearance.	224.0	227.0	0.9					
191.5-197.0	Quartzite gray	227.0	229.0	0.2					
197.0-203.0	Mainly fine grained limy quartzite	229.0	230.0	0.2					
	At 201.5 good evidence of brec-	230.0	232.0	0.9					
	ciation.	232.0	236.0	0.3					
203.0-229.0	Gray quartzite - locally the core	236.0	238.0	1.9					
	has black graphitic partings.	238.0	241.0	1.3					
	Pyritized between 226.0-226.5	241.0	243.0	0.9					
229.0-230.0	3 buttons of greenish argillite.	243.0	247.0	0.7					

CLAIM NO. .....

DIAMOND DRILL RECORD

PROPERTY .....

HOLE NO. 71-5

LATITUDE ..... ELEVATION ..... BEARING ..... DEPTH ..... STARTED ..... COMPLETED .....

DEPARTURE ..... SECTION ..... DIP ..... DRILLED BY ..... LOGGED BY .....

DEPTH FEET	FORMATION	SAMPLE NO.	FROM	TO	WIDTH	ASSAYS
230.-250.0	Gray quartzite; some minor black argillite partings. Section is broken buttons & chips. CORE RECOVERY From To Core Length 247.0 250.0 0.8 END OF HOLE ~~This hole was becoming too expensive to ddepen to 300.0'~~ Hole cemented between 180.0-250.0 LENGTH OF HOLE 250.0 Overburden 48.0 Footage drilled 851 Shorts 116.9 Core recovery $\frac{85.1}{202.0} \times 100\% = 42.1\%$					

CLAIM NO. M-20

DIAMOND DRILL RECORD

PROPERTY McMillan

HOLE NO. 72 -1

LATITUDE 94752 N | ELEVATION 769.0 | BEARING -- | DEPTH 301.0 | STARTED 9 Sept/55 | COMPLETED 13 Sept/55

DEPARTURE 99350 E | SECTION | DIP -90° | DRILLED BY | LOGGED BY C. J. Coveney

DEPTH FEET	FORMATION	CORE RECOVERY From	To	Core Length	SAMPLE NO.	FROM	TO	WIDTH	ASSAYS
	AX Casing 43.6'								
	EX Casing 69.0'								
0.0-67.0	Overburden	67.0	71.0	1.8					
	64.0-67.0 mainly f.g. dense gray ls with	71.0	73.0	1.5					
	some black buttons of limy argillite.	73.0	79.0	2.4					
	Drillers state this is probably boulders	79.0	85.0	1.8					
	in the overburden.	85.0	91.0	1.8					
67.0-73.0	Gray qtze. somewhat brownish tinted,	91.0	93.0	1.1					
	70.5'-71.5' white quartz.	93.0	96.0	2.0					
73.0-90.5	Grayish banded argillite. Between	96.0	100.0	3.0					
	78.5'-79.0' some siderite. A few buttons	100.0	103.0	0.7					
	at 78.5' are limy. Banding 35.0° to core.	103.0	107.0	2.8					
90.5-91.0	Gray qtze. with some minor pyrite and	107.0	109.0	1.7					
	gray copper.	109.0	113.0	2.1					
91.0-92.5	Broken buttons of gray qtze.	113.0	117.0	1.7					
92.5-93.5	White quartz.	117.0	120.0	1.2					
93.5-96.5	Mixed buttons of gray qtze & pink ar-	120.0	124.0	2.5					
	gillite. Section becoming more argil-	124.0	127.0	1.3					
	laceous towards the end. Grades into	127.0	131.0	1.4					

CLAIM NO. .....

DIAMOND DRILL RECORD

PROPERTY .....

HOLE NO. 72-2

LATITUDE ..... ELEVATION ..... BEARING ..... DEPTH ..... STARTED ..... COMPLETED .....

DEPARTURE ..... SECTION ..... DIP ..... DRILLED BY ..... LOGGED BY .....

DEPTH FEET	FORMATION	SAMPLE NO.	FROM	TO	WIDTH	ASSAYS
	the following section.					
96.5-99.0	Purple banded argillite. Banding 60 degrees to core.					
99.0-116.5	Pink banded argillite. Button of siderite at 107.5'. Under hand lense are seen scattered minute specks of pyrite. At 109. are minor fractures of pyrite cutting the banding at right angles. Some of the fractures are miniature faults slightly off-setting the banding. Banding about 50 degrees to core.					
116.5-120.0	Mainly purple banded argillite. Banding about 40 degrees to core.					
120.0-145.0	Pink banded argillite. Banding at 123.0' -- 40 degrees to core 132.0 -- 30 " to core 136.0 -- 40 " to core Between 139.0' - 145.0' mainly broken buttons.					

CORE RECOVERY

From	To	Core Length
131.0	135.0	4.1
135.0	140.0	2.0
140.0	145.0	0.9
145.0	150.0	1.8

CLAIM NO. .....

DIAMOND DRILL RECORD

PROPERTY .....

HOLE NO. 72 -3

LATITUDE ..... ELEVATION ..... BEARING ..... DEPTH ..... STARTED ..... COMPLETED .....

DEPARTURE ..... SECTION ..... DIP ..... DRILLED BY ..... LOGGED BY .....

DEPTH FEET	FORMATION	CORE RECOVERY			SAMPLE NO.	FROM	TO	WIDTH	ASSAYS
		From	To	Core Length					
145.0-147.0	Purple argillite.	150.0	154.0	1.1					
147.0-150.0	Buttons of pink argillite	154.0	-158.0	2.6					
150.0-153.8	Purple argillite; banding 65 to	158.0	-164.0	3.3					
	core.	164.0	-169.0	4.6					
153.8-166.5	Pink argillite with small irregular	169.0	-173.0	4.0					
	lenses and patches of gray qz. The	173.0	176.0	1.9					
	core contains an abundance of irreg-	176.0	180.0	1.5					
	ular thready green argillite partings.	180.0	182.0	0.9					
	Section has the appearance of having	182.0	185.0	3.0					
	undergone squeezing. Well brecciated	185.0	187.5	2.2					
	at 163.0.	187.5	130.5	2.4					
166.5-184.5	Well banded pink argillite. Locally	190.5	195.0	4.5					
	the pink argillite contains narrow								
	bands of green argillite and some gray								
	qz.								
	~~Banding at 168.0 ' - 65 degrees to core~~								
	Banding at 182.0 - 70 degrees to core.								
184.5-185.5	Argillite, green buttons								
185.5-187.0	Gy qtz. with a few thready bands of								

CLAIM NO. .....

DIAMOND DRILL RECORD

PROPERTY ..... HOLE NO. 72-4

LATITUDE ..... ELEVATION ..... BEARING ..... DEPTH ..... STARTED ..... COMPLETED .....

DEPARTURE ..... SECTION ..... DIP ..... DRILLED BY ..... LOGGED BY .....

DEPTH FEET	FORMATION	SAMPLE NO.	FROM	TO	WIDTH	ASSAYS
	green argillite. Banding about 75° to core.					
187.0-191.0	Rock similar to above section. Appears to be more narrow bands of green to gray argillite as well as thready green argillite partings. At 189.5 [illegible] to core [illegible] core.					
191.0-195.0	Similar to above but the green & gray argillite bands are better defined. Some white quartz at 194.0'. Good argillite banding at 193.0 -- 70 degrees to the core. (25 to core)					
195.0-196.0	Green & gray banded argillite. Banding 60 degrees. Some of the gray argillite is lenticular shaped and pinches out suddenly.					
196.0-196.4	Gray Qtze.					
196.4-196.8	Green-gray argillite					
196.8-197.2	Gray Qtze.					
197.2-201.0	Green-gray banded argillite. Good banding 75 degrees to core.					
201.0-201.7	Grey Qtz.					
201.7-203.5	Green-gray argillite. Crude banding 50 degrees to core. At 203.0 three					

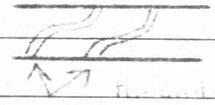
CORE RECOVERY

From	To	Core Length
195.0	201.5	4.2
201.5	208.0	4.5
208.0	214.0	4.4
214.0	218.0	2.4
218.0	221.0	1.2
221.0	224.0	1.0
224.0	226.0	0.7

CLAIM NO. ..... **DIAMOND DRILL RECORD** PROPERTY ..... HOLE NO. 72-5

LATITUDE ..... ELEVATION ..... BEARING ..... DEPTH ..... STARTED ..... COMPLETED .....

DEPARTURE ..... SECTION ..... DIP ..... DRILLED BY ..... LOGGED BY .....

DEPTH FEET	FORMATION	CORE RECOVERY			SAMPLE NO.	FROM	TO	WIDTH	ASSAYS
	buttons of limy quartzite.	From	To	Core Length					
203.5-207.0	Gray qtze with minor thready	226.0	231.0	3.5					
	green argillite. At 206.0	231.0	233.0	2.6					
		233.0	236.0	3.3					
		236.0	239.0	2.5					
207.0-213.0	Ls., blue-gray. From 208 to 214	239.0	244.0	2.4					
	only about 1.5 of core recovered.	244.0	249.0	1.4					
213.0-218.5	Qtze, gray, locally limy; blue-gray	249.0	251.0	2.6					
	in color. Maybe part of limy horizon	251.0	257.0	4.3					
	cut in hole 71. (?) Has some crisscrossing								
	veinlets of white calcite & qtz.	257.0	261.0	0.5					
218.5-233.5	Argillite, greenish, no definite	261.0	266.0	4.5					
	banding. Contains either or both gray	266.0	269.0	2.1					
	irregular patchs & lenses of gray qtze	269.0	274.0	2.2					
	and gray quartz.	274.0	279.0	2.8					
233.5-236.0	Dark gray to black argillite. Crude	279.0	284.0	3.1					
	banding at 235.5' - 50 degrees to core.	284.0	290.0	1.7					
236.0-239.0	Gray qtze with an abundance of (dark)	290.0	296.0	2.6					

CLAIM NO. ..... **DIAMOND DRILL RECORD** PROPERTY ..... HOLE NO. 72-6

LATITUDE ..... ELEVATION ..... BEARING ..... DEPTH ..... STARTED ..... COMPLETED .....

DEPARTURE ..... SECTION ..... DIP ..... DRILLED BY ..... LOGGED BY .....

DEPTH FEET	FORMATION	SAMPLE NO.	FROM	TO	WIDTH	ASSAYS
	black graphitic slips. The qtze. is locally limy.					
239.0-242.0	Green argillite with some gray qz lenses. At 241.0 - 3' of gray qz.					
242.0-249.6	Gray qtze with thready graphitic partings. Crude banding at 244.0' - 45 degrees to core.					
249.6-250.5	Gray qtze with some siderite filled fractures.					
250.5-278.0	Gray qtze with an abundance of black graphite partings. From 254.0 to 266.0 mainly broken buttons. From 264.0-264.5 the qtze. has a shattered or brecciated appearance. Some siderite filled fractures at 253.0 - 254.3.					
278.0-283.5	Argillite dark gray.					
283.5-301.0	Gray qtze with abundant black graphitic slips: Many of the black partings have a polished surface. Locally the qtze. is limy. (297.0 & 299.5)					
	END OF HOLE					

CORE RECOVERY

From	To	Core Length
296.0	301.0	2.9

LENGTH OF HOLE 301.0'
OVERBURDEN 67.0
CORE LENGTH--→ 234.0
132.0
SHORTS---------- 102.0

% CORE RECOVERY $\frac{132 \times 100}{234}$ = 56.4 %

CLAIM NO. .....

DIAMOND DRILL RECORD

PROPERTY McMillan HOLE NO. 73 -1

LATITUDE 94750N ELEVATION 793.0 BEARING -- DEPTH 399.0' STARTED 13 Sept. /55 COMPLETED 21 Sept/55

DEPARTURE 99725E SECTION DIP 90 degrees DRILLED BY LOGGED BY C. J. Coveney

DEPTH FEET	FORMATION	CORE RECOVERY From	To	Core Length	SAMPLE NO.	FROM	TO	WIDTH	ASSAYS
	H Pipe 85.0'								
	~~AX Casing 102.0~~								
	EX Casing 118.0	117.0	122.0	3.2					
0.0-117.0	Overburden	122.0	126.0	1.0					
117.0-117.3	A few buttons of quartzite	126.0	130.0	1.4					
117.3-126.0	Mainly gray argillite. Banding	130.0	132.0	1.1					
	slightly contorted at 120.0'	132.0	134.0	2.0					
126.0-131.0	Gray banded argillaceous qtze.	134.0	136.5	2.5					
	locally limy. Banding 45 degrees	136.5	140.0	3.1					
	to core.	140.0	146.0	5.6					
131.0-144.0	Mainly gray argillite. Some bre-	146.0	151.0	4.5					
	ccication at 136.8. Banding	151.0	156.0	2.9					
	~~about 35 degrees to core.~~ 5' of gy.	156.0	159.0	1.7					
	argillaceous qtz. at 134.5; 2" ls. at	159.0	164.0	2.1					
	135.5; 140-140.5 bands gray argil-	164.0	167.0	2.8					
	laceous qtze. with banding about	167.0	173.0	3.7					
	30 degrees to core.								
144.0-146.0	Gray banded ls; banding 35 degrees								
	to core.								

CLAIM NO. .....

DIAMOND DRILL RECORD

PROPERTY .....

HOLE NO. 73-2

LATITUDE ..... ELEVATION ..... BEARING ..... DEPTH ..... STARTED ..... COMPLETED .....

DEPARTURE ..... SECTION ..... DIP ..... DRILLED BY ..... LOGGED BY .....

DEPTH FEET	FORMATION	CORE RECOVERY From To Core Length	SAMPLE NO.	FROM	TO	WIDTH	ASSAYS
146.0-147.0	Gray-green dense argillite						
147.0-147.5	Gray quartzite & minor speck pyrite						
147.5-150.5	Gray-green dense argillite, banding 45 degrees to core.						
150.5-155.5	Gray quartzite. The last 1.0' shows good banding 50 degrees to core						
155.5-164.0	Mainly gray-green argillite. Banding 50 degrees to core: 156.5-157.0 gray argillaceous qtze.						
164.0-167.0	Coarse gray limestone. The rock has very distinctive eyes or grains of gray quartz. The rock effervesces strongly with dilute HCl: 6" at start and end of section is qtze.						
167.0-172.0	Gray-green argillite, banding about 50 degrees to core.						
172.0-173.0	Gray qtze. banding 60 degrees to core at 172.5 a small fracture filling of						

CLAIM NO. .....

DIAMOND DRILL RECORD

PROPERTY .....

HOLE NO. 73 -3

LATITUDE ..... ELEVATION ..... BEARING ..... DEPTH ..... STARTED ..... COMPLETED .....

DEPARTURE ..... SECTION ..... DIP ..... DRILLED BY ..... LOGGED BY .....

DEPTH FEET	FORMATION	CORE RECOVERY From	To	Core Length	SAMPLE NO.	FROM	TO	WIDTH	ASSAYS
	pyrite. A few graphitic slips	173.0	181.0	8.0					
173.0-174.6	Gray argillite; banding varies from	181.0	188.0	3.7					
	30 degrees to 45 degrees to core.	188.0	198.0	4.7					
174.6-175.6	Gray banded argillaceous qtze.	198.0	204.0	1.8					
	Banding varies from vertical to	204.0	209.0	0.0					
	50 degrees to core. Some minor drag	209.0	216.0	2.0					
	folds.	216.0	221.0	3.2					
175.6-179.5	Gray argillite. Banding 45 degrees	221.0	223.0	1.2					
	to core.	223.0	225.5	1.2					
179.5-180.7	Coarse gray limestone.								
180.7-181.7	Gray-green argillite								
181.7-188.0	Gray qtze with some graphitic slips								
188.0-197.0	Mixed gray-green & some black argil-								
	lite and qtze. Crude banding 50 de-								
	grees to core. The argillite is in								
	excess of the qtze. Some small								
	fracture filling of pyrite. Section								
	has a brecciated or shattered appear-								
	ance.								

CLAIM NO. .....

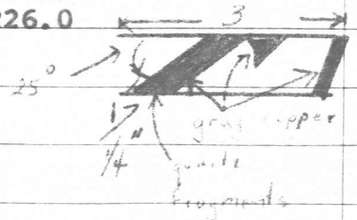
DIAMOND DRILL RECORD

PROPERTY ..... HOLE NO. 73 -4

LATITUDE ..... ELEVATION ..... BEARING ..... DEPTH ..... STARTED ..... COMPLETED .....

DEPARTURE ..... SECTION ..... DIP ..... DRILLED BY ..... LOGGED BY .....

DEPTH FEET	FORMATION	SAMPLE NO.	FROM	TO	WIDTH	ASSAYS Ag	Pb	Zn	Cu
197.0-204.0	Similar to above except quartzite predominates over argillite Minor pyrite occurs both parallel to banding and as fracture fillings. Section still has brecciated appearance.								
204.0-209.0	No core (cave)								
209.0-221.0	Coarse massive pyrite. The unmineralized rock is gray qtze. Only 5.5 core recovered. A few slender lath shaped crystals at 210.5 (Gray Copper?)	2401	209.0	221.0	12.0	0.5	Tr	0.1	Tr 46% Rec.
221.0-225.5	Gray qtze with minor pyrite & a few blebs of gray copper looks like fracture filling. Gray copper from 221.0' to 222.0'	2402	221.0	225.5	4.5	0.5	Tr	Tr	Tr 53
225.5-232.0	Gray quartzite with a few graphitic slips & a few irregular patches of green argillite. At 226.0 & 231.0 some gray copper occuring, as fracture fillings. At 226.0 Minor FeS_2								
232.0-235.5	Gray qtze.								
235.5-241.5	Grayish argillite. Banding 50 degrees to core. Some narrow lenses & bands of gray qtze.								
241.5-246.0	Mainly buttons of gray qtze.								



CLAIM NO. .....

DIAMOND DRILL RECORD

PROPERTY .....

HOLE NO. 73 - 5

LATITUDE ..... ELEVATION ..... BEARING ..... DEPTH ..... STARTED ..... COMPLETED .....

DEPARTURE ..... SECTION ..... DIP ..... DRILLED BY ..... LOGGED BY .....

DEPTH FEET	FORMATION	SAMPLE NO.	FROM	TO	WIDTH	ASSAYS Ag	Pb	Zn	Cu
246.0-250.0	Mixed qtze and argillite. Qtze predominate.								
250.0-261.0	Mixed qtze. & argillite with the argillite increasing towards the end of the section. Some siderite filled fractures from 260-261. At 255.0 the core has a squeezed and shattered appearance.								
261.0-272.0	Greenish argillite with some siderite & gray qtz. occuring as both fracture fillings & irregular patches. Some minor faulting along some of the fractures.								
272.0-276.0	Gray qtze with a few patches of green argillite.								
276.0-282.0	Pink tinted banded argillite. Banding 40 degrees to core.								
282.0-285.0	Buttons of green argillite with some narrow bands of qtze.								
285.0-288.5	Gray qz & qtze with some thready green argillite.								
288.5-294.0	Heavily pyritized qtze. The pyrite nearly massive. Considerable amt of siderite and/or ankerite in patches and as fracture fillings.	2403	225.5	232.0	6.5	0.1	2.0	Tr	Tr 48 % Rec
294.0-301.0	Similar to above; 4" black argillite at 300.0 in which the pyrite								

CORE RECOVERY

From	To	Core Length
225.5	232.0	3.1
232.0	237.0	3.7
237.0	242.0	2.3
242.0	245.0	0.5
245.0	250.5	2.6

CLAIM NO. ..... **DIAMOND DRILL RECORD** PROPERTY ..... HOLE NO. 73-6

LATITUDE ..... ELEVATION ..... BEARING ..... DEPTH ..... STARTED ..... COMPLETED .....

DEPARTURE ..... SECTION ..... DIP ..... DRILLED BY ..... LOGGED BY .....

DEPTH FEET	FORMATION	CORE RECOVERY From	To	Core Length	SAMPLE NO.	FROM	TO	WIDTH	ASSAYS Ag	Pb	Zn	Cu & % Recovery
301.0-306.0	appears as fracture fillings and	250.5	255.5	3.2								
	parrallel to the banding.	255.5	261.0	2.1								
	Nearly massive pyrite in gfay qtze.	261.0	269.0	8.0								
	The last 6" shows considerable ank-	269.0	276.0	3.2								
	erite and/or siderite. Uniformly	276.0	282.0	2.6								
	throughout the section is a fine	282.0	288.0	2.4								
	lath shaped gray mineral. Locally	288.0	294.0	4.3								
	this mineral is so abundant it	294.0	301.0	2.4								
	looks somewhat matted. The mineral	301.0	306.0	5.0								
	is less than 1/16" in length. The	306.0	313.0	4.3								
	crystals are not as long as the	313.0	323.0	3.0	2404	288.5	294.0	5.5	Tr	Tr	Tr	Tr
	crystals identified as arsenopyrite	323.0	329.0	3.6								78 % Recovery
	in hole 68 (Specimen)	329.0	333.0	3.1								
306.0-313.0	Similar to above. See.	333.0	338.0	3.7	2405	294.0	301.0	7.0	Tr	Tr	Tr	Tr
313.0-323.0	Similar to section from 294.0-	338.0	344.0	3.8								34 %
	313.0	344.0	350.0	1.7	2406	301.0	306.0	5.0	Tr	0.1	Tr	Tr
323.0-329.0	Similar to above but not quite so				2407	306.0	313.0	7.0	Tr	Tr	Tr	100% Tr-62
	heavily pyritized.											

DIAMOND DRILL RECORD

CLAIM NO. ..... PROPERTY ..... HOLE NO. 73-7

LATITUDE ..... ELEVATION ..... BEARING ..... DEPTH ..... STARTED ..... COMPLETED .....

DEPARTURE ..... SECTION ..... DIP ..... DRILLED BY ..... LOGGED BY .....

DEPTH FEET	FORMATION	CORE RECOVERY From	To	Core Length	SAMPLE NO.	FROM	TO	WIDTH	ASSAYS Ag	Pb	Zn	Cu & % Recover
329.0-333.0	Gray qtze with minor pyrite	350.0	357.0	4.5	2408	313.0	323.0	10.0	Tr	Tr	Tr	Tr 30%
	Between 329.0-331.0 some siderite	357.0	364.0	4.6	2409	323.0	329.0	6.0	Tr	0.1	Tr	Tr 60%
	and/or ankerite that looks to be	364.0	368.0	3.7	2410	329.0	333.0	4.0	Tr	Tr	Tr	Tr 77%
	fracture fillings. Core mainly	368.00	375.0	3.0	Specimen 305.0 & 305.5							
	chips	375.0	382.0	4.1	2411	333.0	338.0	5.0	Tr	Tr	Tr	Tr 74%
333.0-338	Barren gray qtze except between	382.0	388.0	2.5								
	337-338 which is pyritized. A	388.0	393.0	3.2								
	minor amount of the gray lath shap-	393.0	399.0	3.2								
	ed mineral. Core mainly broken but-											
	tons.											
338.0-350	Greenish argillite											
250.0-352.0	Banded argillaceous qtze. Banding											
	20 degrees to core.											
252.0-357.0	Greenish argillite.											
357.0-362.5	Banded argillaceous qtze. Banding											
	is 15 degrees - 25 degrees to core											
	Minor pyrite. Some ankerite at 360.0'.											
362.5-363.5	Green argillite with some bands &											

CLAIM NO. .....

DIAMOND DRILL RECORD

PROPERTY .....

HOLE NO. 73-8

LATITUDE ..... ELEVATION ..... BEARING ..... DEPTH ..... STARTED ..... COMPLETED .....

DEPARTURE ..... SECTION ..... DIP ..... DRILLED BY ..... LOGGED BY .....

DEPTH FEET	FORMATION	SAMPLE NO.	FROM	TO	WIDTH	ASSAYS
	patches of gray qtze.					
363.5-375.0	Gray qtze.					
375.0-399.0	Gray qtze, pyritized, between 375.0- 376.5; 387.0-388.0. The pyritized sections look like fracture fillings and the core has a brecciated look. Towards the end of the sections there are some graphitic slips.					
	END OF HOLE					
	LENGTH OF HOLE 399.0					
	OVERBURDEN 117.0					
	ROCK DRILLED 282.0					
	CORE RECOVERED 160.8					
	SHORTS 121.2					
	CORE RECOVERY (%) $\frac{160.8}{282.0} \times 100\% = 57\%$					

CLAIM NO. M-25

DIAMOND DRILL RECORD

PROPERTY McMillan

HOLE NO. 74-1

LATITUDE 93950 N | ELEVATION 788.0' | BEARING --- | DEPTH 299.0' | STARTED 18 June/56 | COMPLETED 21 June/56

DEPARTURE 99517 E | SECTION | DIP -90° | DRILLED BY | LOGGED BY R. G. Kenly

DEPTH FEET	FORMATION	CORE RECOVERY From	To	Core Length	SAMPLE NO.	FROM	TO	WIDTH	ASSAYS oz. Ag	% Pb	% Zn
	23' A Casing	25.0	28.5	1.6							
	34' E Casing	28.5	38.0	0							
0-25.0	Overburden	38.0	44.0	0.2							
25.0-63.0	Pyritization too intense to permit	44.0	49.0	1.0							
	rock classification. Occasional	49.0	54.0	1.2							
	patch light - grey qtzite. Pyrite	54.0	58.5	1.6	3746	25.0	28.6	3.6	Tr	Tr	Tr
	mainly finely xttline, some 1/16"	58.5	64.0	1.3	3747	38.0	43.0	5.0	Tr	Tr	Tr
	x tls in vugs. Occasional lath	64.0	69.5	3.0	3748	43.0	48.0	5.0	0.30	Tr	Tr
	arsenopyrite. 54-63' occasional	69.5	73.0	1.7	3749	48.0	53.0	5.0	Tr	0.1	Tr
	patch grey sulfide. 58.5-60'	73.0	78.0	2.2	3750	53.0	58.0	5.0	3.30	Tr	Tr
	thready fractures lt.-gy. qtzite.	78.0	81.0	1.8	3751	58.0	63.0	5.0	0.60	Tr	2.9
63.0-73.0	Mottled rock 80% pyrite 20% dk-gy	81.0	88.0	4.3							
	to black argillite. 63±66' some Zn.	88.0	92.0	1.4							
	66.5± 5" massive Zn. 67-73' Pb-Zn	92.0	98.5	1.7							
	patches. 70-73' numerous vugs in	98.5	102.0	0.8							
	pyrite with occasional qtz alt.	102.0	105.0	2.6							
	72-73' circular Zn(?) patches.	105.0	106.5	1.2							
	66.5 - Boulangerite	106.5	109.0	1.0	3726	63.0	68.0	5.0	0.50	7.1	Tr

CLAIM NO. .....

DIAMOND DRILL RECORD

PROPERTY .....

HOLE NO. 74-2

LATITUDE ..... ELEVATION ..... BEARING ..... DEPTH ..... STARTED ..... COMPLETED .....

DEPARTURE ..... SECTION ..... DIP ..... DRILLED BY ..... LOGGED BY .....

DEPTH FEET	FORMATION	CORE RECOVERY From	To	Core Recovery Length	SAMPLE NO.	FROM	TO	WIDTH	ASSAYS oz.Ag.	% Pb	% Zn
73.0-78.0	50% pyrite 50% gy to black argillite.	109.0	113.0	1.9	3727	68.0	73.0	5.0	0.50	3.2	Tr.
	73.6' pyrite banding 50°. 72' Pyrite	113.0	117.0	3.0	3728	75.0	78.0	5.0	1.80	2.5	0.8
	or boulangerite.	117.0	120.0	2.4							
78.0-88.0	20% pyrite, 80% grey argillite. Oc-	120.0	123.0	2.1							
	casional patches lt. gy qtzite with	123.0	125.5	1.7							
	Zn Pyrite occurs in bands and dis-	125.5	129.0	1.9							
	seminated. Argillite finely banded	129.0	134.0	4.5							
	50°.	134.0	138.0	1.5							
88.0-92.0	Brecciated appearance with fragments	138.0	141.0	1.0	3752	78.0	83.0	5.0	0.20	Tr	0.1
	white qtzite, grey & grey-green argil-	141.0	144.0	1.1	3753	83.0	88.0	5.0	0.20	Tr	Tr
	lite pyrite. At 92' argillite finely	144.0	148.0	3.3							
	banded 40°.	148.0	154.0	4.3							
92.0-95.0	Chips of lt-gy quartzite and grey-	154.0	160.0	2.0							
	green argillite, some pyrite. Argil-	160.0	165.0	3.0							
	lite predom.	165.0	167.0	0.5							
95.0-119.0	Predominately lt. gy. qtzite with grey-	167.0	171.0	0.4							
	green to dk. gy argillite and pyrite.	171.0	175.0	2.0							
	Argillite bands locally distorted,	175.0	181.0	3.0							

CLAIM NO. .....

DIAMOND DRILL RECORD

PROPERTY Sheet No. 3 HOLE NO. 74-3

LATITUDE ..... ELEVATION ..... BEARING ..... DEPTH ..... STARTED ..... COMPLETED .....

DEPARTURE ..... SECTION ..... DIP ..... DRILLED BY ..... LOGGED BY .....

DEPTH FEET	FORMATION	SAMPLE NO.	FROM	TO	WIDTH	ASSAYS
	occasionally resembling breccia. Banding 40 - 50°. At 117.5' fractures at 20° with slikensides, suggestion of graphite. Pyrite finely disseminated and in fractures. Pb specks.					
119.0-123.0	Grey qtzite with pyrite finely disseminated in threadlike fractures, and massive.					
123.0-131.0	Well banded alternate argillite and qtzite, minor pyrite. 123-125' gy - green arg; 125-129' dk-gy arg; 129-131 gy-grn arg. Banding at 30°.					
131.0-144.5	Mottled appearing rock with predom. gy qtzite and irregular dk gy argillite patches. Pyrite moderate to heavy.					
144.5-146.5	Interbanded gy qtzite and gy-green argillite with minor pyrite. Occasional speck Zn.					
146.5-147.0	Mottled gy qtzite and gy-green argillite.					
147.0-150.0	Predom. dk gy argillite with irregular patches gy quartzite and moderate pyrite.					
150.0-151.0	Fine grained pyrite.					
151.0-174.0	Dk-gy well-banded argillite with some bands qtzite and mod-					

core recovery

From	To	Core Length
181.0	189.0	3.0

CLAIM NO. .....

DIAMOND DRILL RECORD

PROPERTY ..... Sheet No. 4 ..... HOLE NO. 74 =4

LATITUDE ..... ELEVATION ..... BEARING ..... DEPTH ..... STARTED ..... COMPLETED .....

DEPARTURE ..... SECTION ..... DIP ..... DRILLED BY ..... LOGGED BY .....

DEPTH FEET	FORMATION	SAMPLE NO.	FROM	TO	WIDTH	ASSAYS
	erate to minor pyrite. At 153' is 6" dk gy argillite with numerous small angular qtzite fragments. Banding, locally distorted, mainly 30°-. 164' few small siderite frac.					
174.0-185.0	Pred. qtzite with minor bands dk-gy argillite and heavy pyrite.					
185.0-189.5	Rock almost completely pyritized. Originally gy qtzite judging by small patches. 186-187' ½" Zn 20°. 189-189.5' vugs filled with larger pyrite xtls and acicular qty. 188' -Pyrite and Arseno pyrite.					
189.5-198.0	Dr-gy to black argillite with numerous irregular patches lt-gy to white qtzite. Distorted appearance. Minor pyrite in argillite, moderate pyrite replacing qtzite. 194-195' crude banding 40°					
198.0-200.0	Dk-gy argillite. Banding 30-40°. Little pyrite. Bottom of section becomes darker and more pyritic.					
200.0-201.5	Rock strongly pyritized. At 200.5' is sharp contact between pyrite & dk gy argillite at 50°. At 200.7' is sharp contact again back to pyrite at 75°.					

CLAIM NO. .....

DIAMOND DRILL RECORD

PROPERTY Sheet No. 5 HOLE NO. 74-5

LATITUDE ..... ELEVATION ..... BEARING ..... DEPTH ..... STARTED ..... COMPLETED .....

DEPARTURE ..... SECTION ..... DIP ..... DRILLED BY ..... LOGGED BY .....

DEPTH FEET	FORMATION	SAMPLE NO.	FROM	TO	WIDTH	ASSAYS
201.5-206.5	Mottled appearing white & lt gy qtzite. Pyrite in thread-like seams, numerous. 205.7 - 205.9' dk-gy and gy-green argillite bands 50°.					
208.5-209.5	Chips of qtzite with some argillite partings.					
209.5-245.5	Predominately qtzite with occasional irregular patch dk-gy argillite. Moderate pyrite finely disseminated, in thready seams or along fractures. 224' - 1/8" qtz. pyrite stringer 20°. Some crude arg. banding 40°.					
245.5-247.5	Lt-gy to gy-green argillite with numerous small patches qtzite. Minor pyrite banding 30 - 45°.					
247.5-252.0	Qtzite with occasional irregular patches.and bands of dk gy argillite. Minor pyrite.					
252.0-257.0	Crumbly qtzite. lt-gy and gy-green argillite. Trace pyrite.					
257.0-273.5	Qtzite w. irreg. patches dk gy arg. Minor pyrite, generally along crude banding.					
273.5-274.0	Chips & sand gy. quzite and black arg. Heavy pyrite.					
274.0-290.0	Gy qtzite w. black arg. graphitic partings. 270-280' parts in buttons 55'65°. Minor pyrite.					

DIAMOND DRILL RECORD

CLAIM NO. ..... PROPERTY Sheet No. 6 ..... HOLE NO. 74-6

LATITUDE ..... ELEVATION ..... BEARING ..... DEPTH ..... STARTED ..... COMPLETED .....

DEPARTURE ..... SECTION ..... DIP ..... DRILLED BY ..... LOGGED BY .....

DEPTH FEET	FORMATION	CORE RECOVERY From	To	Core Length	SAMPLE NO.	FROM	TO	WIDTH	ASSAYS
290.0-298.0	Chips gy qtzite. Little black argillite.								
298.0-299.0	Black sand. Heavy pyrite.	181.0	189.0	3.0					
	END OF HOLE	189.0	193.0	2.9					
		193.0	194.5	1.1					
		194.5	197.0	1.7					
		197.0	200.0	1.3					
		200.0	202.0	1.6					
		202.0	205.5	3.0					
		205.5	209.5	2.0					
		209.5	215.5	3.4					
		215.5	222.5	5.4					
		222.5	228.0	2.7					
		228.0	233.5	2.9					
		233.5	239.0	3.6					
		239.0	242.5	1.4					
		242.5	248.5	3.1					
		248.5	251.0	2.8					
		251.0	257.0	2.0					

CLAIM NO. .....

DIAMOND DRILL RECORD

PROPERTY Sheet No. 7 .....

HOLE NO. 74 -7

LATITUDE ..... ELEVATION ..... BEARING ..... DEPTH ..... STARTED ..... COMPLETED .....

DEPARTURE ..... SECTION ..... DIP ..... DRILLED BY ..... LOGGED BY .....

DEPTH FEET	FORMATION	CORE RECOVERY From	To	Core Length	SAMPLE NO.	FROM	TO	WIDTH	ASSAYS
		257.0	259.5	1.8					
		259.5	262.0	1.2					
		262.0	264.0	1.1					
		264.0	267.0	2.2					
		267.0	273.5	2.4					
		273.5	277.0	2.0					
		277.0	281.0	3.2					
		281.0	285.0	1.8					
		285.0	288.0	1.1					
		288.0	290.0	2.0					
		290.0	293.0	0.6					
		295.0	299.0	0.7					

Length of Hole 229.0
Overburden - 25.0
Rock Drilled 204.0
Core recovered - 132.2
Shorts 71.8

% Recovery $\frac{132.2 \times 100}{204}$ = 64.8%

DIAMOND DRILL RECORD

CLAIM NO. M-23 PROPERTY McMillan HOLE NO. 75-1

LATITUDE 93,324 N ELEVATION 3836.6' BEARING -- DEPTH 380.0' STARTED June 23/56 COMPLETED June 28/56

DEPARTURE 99,890 E SECTION DIP -90° DRILLED BY LOGGED BY R. G. Kenly

DEPTH FEET	FORMATION	CORE RECOVERY From	To	Core Length	SAMPLE NO.	FROM	TO	WIDTH	ASSAYS
0-13.0	12' A casing								
	22' E casing								
0-13.0	Overburden	13.0	16.0	0.3					
13.0-29.0	Argillite-grey green to grey. Mod-	16.0	17.0	0.7					
	erate banding. 17-22' minor sider-	17.0	21.0	1.4					
	ite occurs as up to 1/8" stringers	21.0	22.5	1.0					
	paralleling banding as minute vein-	22.5	24.0	1.0					
	lets crisscrossing banding as oc-	24.0	25.5	1.3					
	casional patches. 13-20' banding at	25.5	27.0	1.0					
	25°; 20-29 banding at 45°. 27.5'	27.0	30.0	0.7					
	one patch arsenopyrite.	30.0	33.0	1.1					
29.0-33.0	Qtzite -some has brecciated appear-	33.0	37.0	3.8					
	ance with dk-gy argillite; some is	37.0	40.5	3.3					
	well-banded. Trace pyrite. Trace	40.5	46.5	2.6					
	sericite on occasional argillite	46.5	52.0	1.2					
	bands.	52.0	56.0	2.1					
33.0-60.0	Qtzite 60%, gy-green and black	56.0	58.5	0.5					
	argillite 40%. 33.5' 1/8" siderite	58.5	63.5	1.0					

CLAIM NO. .....

DIAMOND DRILL RECORD

PROPERTY Sheet No. 2 HOLE NO. 75-2

LATITUDE ..... ELEVATION ..... BEARING ..... DEPTH ..... STARTED ..... COMPLETED .....

DEPARTURE ..... SECTION ..... DIP ..... DRILLED BY ..... LOGGED BY .....

DEPTH FEET	FORMATION	CORE RECOVERY From	To	Core Length	SAMPLE NO.	FROM	TO	WIDTH	ASSAYS Ag	Pb	Zn
	fault with ½" displacement. 36.5'	63.5	68.0	0.6							
	¼" siderite and pyrite paralleling	68.0	71.0	2.0							
	banding. 38'-4" mottled qtz. vein	71.0	74.0	2.5							
	with sericite on contact with argil-	74.0	80.0	4.3							
	lite. 39' - 1.5" qtz. paralleling	80.0	87.0	4.9							
	banding. 40.5 - 42.5 banding dis-	87.0	94.0	5.0							
	torted with small lenses of qtz.	94.0	101.0	1.8							
	and siderite cutting across. 47-	101.0	105.0	2.4							
	60' minor pyrite disseminated or *	105.0	113.0	2.3							
	crudely following banding. Banding	113.0	116.0	2.6							
	30°.	116.0	121.0	3.0							
60.0-108.0	Argillite. 1" and thicker inter- *	105.0	110.0	1.3							
	bedded gy-green and dk-grey. 78'-	110.0	113.0	2.3							
	1/8" calcite paralleling banding.				3763	161.0	167.0	6.0	0.20	0.1	0.6
	80' - 1" siderite and rusty pyrite										
	parallelling banding at 40°. 86.5'-¼"										
	siderite cuts across banding at 50°										
	with pyrite at intersection. 87.5'-										
	1/8" dragged calcite vein. 90'-1/8"										

CLAIM NO. .....

DIAMOND DRILL RECORD

PROPERTY Sheet No. 3 HOLE NO. 75-3

LATITUDE ..... ELEVATION ..... BEARING ..... DEPTH ..... STARTED ..... COMPLETED .....

DEPARTURE ..... SECTION ..... DIP ..... DRILLED BY ..... LOGGED BY .....

DEPTH FEET	FORMATION	SAMPLE NO.	FROM	TO	WIDTH	ASSAYS
	siderite cutting banding at 30° is cut by 1/8" pyrite paralleling banding. 93'-3" distorted calcite stringers and irregular patches of argillite. 94.6' - 3/4" irreg. siderite and pyrite. 101.6' - 3/4" irreg. siderite and pyrite. Banding 35 - 55°					
103.0-134.0	Argillite-gy-green. Occasional band grey argillite at top of section; section grows lighter toward bottom. 109-110' crumbly rock, blue qtz. heavy pyrite. 110-116.5' occasional blue qtz and pyrite crudely following banding.					
134.0-142.0	Argillite-interbanded gy to grn-gy. Bands show slight displacement along occasional thin siderite stringers. 138.6' - 1" of criss-crossing 1/16" pyrite veins. Banding 60°.					
142.0-149.0	Argillite-gy-green with minor pyrite in quartz. First half of section is sand-size grains, second half is chips.					
149.0-156.0	Mud (driller's note)					
156.0-167.0	Argillite gy-green. Schistz appearance. Most of section pink tinted. Heavy white qtz in irregular lenses, some crudely following banding, others criss-crossing. Some pyrite as-					

CLAIM NO. .....

DIAMOND DRILL RECORD

PROPERTY Sheet No. 4 HOLE NO. 75-4

LATITUDE ..... ELEVATION ..... BEARING ..... DEPTH ..... STARTED ..... COMPLETED .....

DEPARTURE ..... SECTION ..... DIP ..... DRILLED BY ..... LOGGED BY .....

DEPTH FEET	FORMATION	SAMPLE NO.	FROM	TO	WIDTH	ASSAYS
	sociated with larger white quartz patches. Banding at 40°. 163-164' occasional dark green argillite slickensided at low angles to core. 164-164.2' - trace Zn slickensided at 15° with pyrite and blue quartz.					
167.0-170.0	Argillite gy-green. Sand					
170.0-190.0	Argillite gy-green. Schistz appearance. Most of section tinted with hard pink argillite. Heavy quartz following banding and in irregular lenses. Minor pyrite with quartz.					
190.0-194.0	Mud (driller's note) 183'-Massive pyrite - with tetrahedrite 2"-3".					
194.0-218.0	Argillite gy-green. Schistz. Pink tint Heavy quartz as above. Some bands appear dragged. 205.8' - ¼ " Zn Pb pyrite. Qtz at 40°. 205.0'-206.5' not sampled-Tetra. in vein form cutting bedding at large angle to core. DHO July 20, 1967.					
218.0-234.0	Argillite gy-green. 218'-4" massive white quartz. Moderate quartz; moderate coarse pyrite.					
234.0-240.0	Argillite gy-green. Few qtz stringers but numerous small qtz patches along banding. Looks squeezed. Minor to moderate pyrite.					

CLAIM NO. .....

DIAMOND DRILL RECORD

PROPERTY Sheet No. 5 ..... HOLE NO. 75 -5 .....

LATITUDE ..... ELEVATION ..... BEARING ..... DEPTH ..... STARTED ..... COMPLETED .....

DEPARTURE ..... SECTION ..... DIP ..... DRILLED BY ..... LOGGED BY .....

DEPTH FEET	FORMATION	CORE RECOVERY From	To	Core Length	SAMPLE NO.	FROM	TO	WIDTH	ASSAYS
240.0-244.0	Argillite-grey. Moderate irregular	121.0	125.0	1.6					
	qtz. stringers cut banding. Moder-	125.0	127.0	0.3					
	ate pyrite, often associated with	127.0	128.0	0.2					
	black argillite bands. Banding 55-	128.0	131.0	0.2					
	65°.	131.0	134.0	1.3					
244.0-255.0	Argillite dk-grey. Moderate irreg-	134.0	137.5	0.5					
	ular qtz. stringers and patches.	137.5	142.0	3.0					
	Moderate pyrite associated with qtz	142.0	149.0	1.0					
	and black argillite bands. Banding	149.0	156.0	0					
	generally 60°, often dragged.	156.0	161.0	0.7					
255.0-265.5	Argillite gy-green. Moderate pyrite	161.0	167.0	3.8					
265.5-290.5	Argillite-black. Some dk grey qtz-	167.0	170.0	2.3					
	ite. Moderate qtz as irregular	170.0	173.0	1.1					
	patches and criss-crossing stringers	173.0	179.0	2.2					
	Moderate pyrite.	179.0	183.0	2.8					
290.5-293.0	Argillite - black. Heavy pyrite.	183.0	185.5	1.5					
	Minor qtz.	186.5	190.0	0.3					
293.0-299.0	Argillite-black. Section grading	190.0	194.0	0					

CLAIM NO. .....

DIAMOND DRILL RECORD

PROPERTY Sheet No. 6 HOLE NO. 75-6

LATITUDE ..... ELEVATION ..... BEARING ..... DEPTH ..... STARTED ..... COMPLETED .....

DEPARTURE ..... SECTION ..... DIP ..... DRILLED BY ..... LOGGED BY .....

DEPTH FEET	FORMATION	CORE RECOVERY From	To	Core Length	SAMPLE NO.	FROM	TO	WIDTH	ASSAYS
	into qtzite. 297-297.5' massive	194.0	199.0	4.4					
	pyrite.	199.0	203.5	2.9					
299.0-322.0	Qtzite-dk grey. Heavy qtz as strin-	203.5	207.0	2.0					
	ger and irregular patches. Heavy	207.0	210.0	0.3					
	pyrite. 309.5-310.5' massive coarse	210/0	215.0	0.7					
	grained pyrite. 314.5-318.8 very	215.0	221.0	2.2					
	heavy fine-grained pyrite. 300.6'	221.0	226.0	0.7					
	-1/8" calcite 20°.	226.0	230.0	1.2					
322.0-324.0	Argillite-black. Very heavy pyrite	230.0	234.0	24					
	Minor qtz. Argillite banded at 50°.	234.0	239.5	3.3					
324.0-349.5	Qtzite. 324-325.5' very heavy	239.5	244.0	3.5					
	pyrite. 325.5-328.5 Minor pyrite,	244.0	249.5	4.0					
	minor qtz. 328.5-329.2 very heavy	249.5	254.5	3.2					
	pyrite. 329.2-332 Trace pyrite,	254.5	260.5	2.3					
	332-336 With hard black arg. 336-	260.5	265.5	2.4					
	340 Trace pyrite 340-342.3 Massive	265.5	268.0	0.6					
	pyrite. 342.3-345 With black arg.	268.0	271.0	1.8					
	345-349.3 Trace pyrite, minor qtz.	271.0	274.0	0.6					
	349.3-350.5 Massive pyrite								

CLAIM NO. .....

DIAMOND DRILL RECORD

PROPERTY ..... Sheet No. 6 ..... HOLE NO. 75-7

LATITUDE ..... ELEVATION ..... BEARING ..... DEPTH ..... STARTED ..... COMPLETED .....

DEPARTURE ..... SECTION ..... DIP ..... DRILLED BY ..... LOGGED BY .....

DEPTH FEET	FORMATION	CORE RECOVERY From	To	Core Length	SAMPLE NO.	FROM	TO	WIDTH	ASSAYS
350.5-380.0	Qtzite. With black, sometime graphite argillite partings. 358-359' green argillite sand. 367-380' occasional bands green argillite.	274.0	278.0	1.4					
		278.0	280.0	0.9					
		280.0	284.0	0.7					
		284.0	287.0	2.2					
		~~287.0~~	~~290.0~~	~~1.4~~					
		290.0	293.0	1.6					
		~~293.0~~	~~296.0~~	~~1.0~~					
		296.0	301.0	3.2					
		301.0	306.0	1.5					
		~~306.0~~	~~309.0~~	~~1.5~~					
		309.0	314.0	3.1					
		~~314.0~~	~~318.0~~	~~2.7~~					
		318.0	320.0	1.4					
		320.0	322.0	1.2					
		322.0	327.0	4.2					
		327.0	331.0	3.0					
		~~331.0~~	~~336.0~~	~~2.5~~					
		336.0	339.0	0.4					
		~~339.0~~	~~341.0~~	~~0.9~~					
		341.0	345.5	1.7					
		345.5	349.0	2.2					
		349.0	353.0	3.5					
		353.0	358.0	3.7					
		~~358.0~~	~~363.0~~	~~2.8~~					
		363.0	368.0	1.9					
		~~368.0~~	~~373.0~~	~~2.3~~					
		* 373.0	376.0	0.9					
		* 373.0	376.0	1.0					
		376.0	380.0	0.9					

END OF HOLE

Length of Hole 380.0

Overburden 13.0

Rock drilled 204.0

Core recovered 171.8

$$\% \text{ Recovery } \frac{171.8 \times 100}{204.0} = 46.8\%$$

DIAMOND DRILL RECORD

CLAIM NO. M-20 PROPERTY McMillan HOLE NO. 76 - 1

LATITUDE 94348 N ELEVATION 750.2' BEARING DEPTH --322.0' STARTED 2 June /56 COMPLETED 6 July /56

DEPARTURE 99164 E SECTION DIP - 90° DRILLED BY LOGGED BY R. G. Kenly

DEPTH FEET	FORMATION	CORE RECOVERY From	To	Core Length	SAMPLE NO.	FROM	TO	WIDTH	ASSAYS Ag	Pb	Zn	Cu
0-50.0	Overburden	50.0	52.0	1.3								
50.0-51.0	Qtzite-Minor pyrite, trace Zn	52.0	53.0	0.8								
51.0-54.5	Qtzite - Rock almost completely	53.0	56.0	1.4								
	sideritized. Moderate Zn with less	56.0	60.0	1.1								
	Pb Minerlization occurs in irreg-	60.0	62.0	0.6								
	ular patches and vague stringers.	62.0	65.0	1.0	3743	50.0	54.5	4.5	3.30	56	0.5	
	Occasional vugs.	65.0	68.0	0.7								
54.5-62.0	Qtzite-3" at top of section on limy	68.0	71.0	0.7								
	minor pyrite. 58-60' some siderite	71.0	73.5	1.1								
	stringers. 60' one piece core with	73.5	76.0	0.6	3744	54.5	60.0	5.5	1.40	2.7	Tr	
	Zn Pb	76.0	80.0	1.1	3745	60.0	63.0	3.0	1.10	2.3	Tr	
62.0-63.0	Qtzite - interbedded with grey-	80.0	85.0	1.8								
	green argillite. Trace Zn(?)	85.0	89.0	1.0					Au	Ag	Pb	Zn
63.0-73.0	Argillite - grey green. Moderate	89.0	92.5	1.4	7974	63	73	2.0	0.003	0.09	0.16	0.01
	siderite in small irregular lenses.	92.5	97.0	0.9	7975	73	83	2.0	0.003	0.05	0.13	0.01
	Banding 30-50°.	100.0	102.0	0.4								
73.0-74.0	Qtzite - interbedded with grey-	97.0	100.0	0.8								
	green argillite. One 1/8" stringer	102.0	104.0	2.0								

CLAIM NO. .....

DIAMOND DRILL RECORD

PROPERTY Sheet No. 2 HOLE NO. 76-2

LATITUDE ..... ELEVATION ..... BEARING ..... DEPTH ..... STARTED ..... COMPLETED .....

DEPARTURE ..... SECTION ..... DIP ..... DRILLED BY ..... LOGGED BY .....

DEPTH FEET	FORMATION	CORE RECOVERY From	To	Core Length	SAMPLE NO.	FROM	TO	WIDTH	ASSAYS
	pyrite at 25°.	104.0	107.5	2.0					
74.0-80.0	Argillite - grey-green. Numerous	107.5	112.0	2.0					
	thin aiderite paralleling banding.	112.0	114.0	1.7					
	76.77' Sandy with black argillite	114.0	118.0	2.8					
	and moderate pyrite. Banding 40-45°	118.0	120.0	0.7					
80.0-90.0	Qtzite-with partings grey-green	120.0	124.0	2.4					
	argillite. Minor siderite lenses.	124.0	125.5	0.8					
	Banding 35-50°.	125.5	130.0	2.5					
90.0-98.5	Argillite-grey-green. Banding 30-	130.0	132.0	0.3					
	40°	132.0	134.5	1.0					
98.5-101.0	Qtzite-100'-1" Dark grey to black	134.5	139.5	1.3					
	mud with fine-grained pyrite. 100-	139.5	143.0	2.0					
	101' heavy pyrite.	143.0	145.0	1.4					
101.0-103.0	Argillite-Grey-green. Moderate sid-	145.0	147.5	1.8					
	erite.	147.5	151.0	1.8					
103.0-109.5	Argillite-grey-green. Pink tinted. Minor								
	siderite. Occasional minute speck	151.0	154.0	1.3					
	pyrite. Banding at 40°	154.0	156.5	1.4					

CLAIM NO. .....

DIAMOND DRILL RECORD

PROPERTY Sheet No. 3 HOLE NO. 76-3

LATITUDE ..... ELEVATION ..... BEARING ..... DEPTH ..... STARTED ..... COMPLETED .....

DEPARTURE ..... SECTION ..... DIP ..... DRILLED BY ..... LOGGED BY .....

DEPTH FEET	FORMATION	CORE RECOVERY From	To	Core Length	SAMPLE NO.	FROM	TO	WIDTH	ASSAYS			
109.5-115.0	Argillite - interbedded with pyrite	156.5	158.5	0.9								
	Mottled appearance. Minor siderite	158.5	165.0	0.5								
	& pyrite.	165.0	168.0	1.2								
115.0-157.5	Argillite-grey. Minor siderite &	168.0	171.0	2.2								
	quartz in irregular lenses & vague	171.0	176.0	3.2								
	stringers. Minor pyrite. Banding 55-	176.0	179.5	2.4								
	70°.	179.5	182.0	1.5								
157.5-171.4	Argillite-dk. grey. Almost completely											
	pyritized. fine-grained, massive py-	182.0	186.0	3.0								
	rite	186.0	190.0	1.3	3759	108.5	112.0	3.5	Tr	Tr	Tr	
171.4-173.0	Qtzite-strongly mottled with quartz,	190.0	191.0	1.0								
	siderite, calcite. Occasional vugs.	191.0	192.5	1.1								
	Minor pyrite. Some highly distorted	192.5	197.5	3.2								
	graphitic black argillite partings.	197.5	199.5	1.0	3755	157.0	162.0	5.0	Tr	Tr	Tr	
173.0-186.5	Argillite. Dk-grey, Minor, distort-	199.5	204.5	2.2	3756	162.0	167.0	5.0	Tr	Tr	Tr	
	ed quartz and siderite lenses. Band-	204.5	209.0	1.5	3757	167.0	172.0	5.0	Tr	Tr	Tr	
	ing 40-45°. 181-181.5 - quartzite.	209.0	213.5	2.0	3758	172.0	177.0	5.0	Tr	Tr	Tr	
186.5-193.0	Qtzite-Trace thin stringers quartz	213.5	217.5	1.3								
	calcite.											

CLAIM NO. .....

DIAMOND DRILL RECORD

PROPERTY ..... Sheet No. 4 ..... HOLE NO. 76-4

LATITUDE ..... ELEVATION ..... BEARING ..... DEPTH ..... STARTED ..... COMPLETED .....

DEPARTURE ..... SECTION ..... DIP ..... DRILLED BY ..... LOGGED BY .....

DEPTH FEET	FORMATION	CORE RECOVERY From	To	Core Length	SAMPLE NO.	FROM	TO	WIDTH	ASSAYS			
193.0-196.0	Argillite-dk-grey. Minor distorted	217.5	220.5	0.8								
	quartz and siderite lenses.	220.5	223.0	0.7								
196.0 -	218.0	223.0	228.0	0.3								
	Qtzite-Moderate thin stringers	228.0	231.0	0.5								
	quartz and siderite. Occasional	231.0	234.5	2.2								
	black argillite partings. 203-204'	234.5	238.0	2.5	3754	228.0	233.0	5.0	Tr	Tr	Tr	
	-Massive white quartz 207.6-208.6	238.0	241.0	0.8								
	Massive white quartz.	241.0	243.0	1.6								
218.0-219.3	Argillite-Grey-green very soft.	248.0	248.0	2.2								
	Numerous small lenses, quartz &	246.0	250.0	2.2								
	siderite. Trace to minor pyrite.	250.0	253.0	3.2								
219.3-223.0	Qtzite-Mottled rock 50% quartzite,	253.0	258.0	3.4								
	50% grey-green and black argillite	258.0	259.5	1.6								
223.0-231.0	Qtzite-dips quartzite & grey-green	259.5	261.5	1.8								
	to black argillite. Trace pyrite.	261.5	264.5	2.7								
231.0-233.6	Qtzite-moderate to heavy pyrite with	264.5	269.0	2.8								
	grey argillite. Banding 60-70°	269.0	274.0	3.8								
233.6-250.0	Qtzite-with minor locally moderate	274.0	276.0	1.2								

CLAIM NO. .....

DIAMOND DRILL RECORD

PROPERTY Sheet No. 5

HOLE NO. 76

LATITUDE ..... ELEVATION ..... BEARING ..... DEPTH ..... STARTED ..... COMPLETED .....

DEPARTURE ..... SECTION ..... DIP ..... DRILLED BY ..... LOGGED BY .....

DEPTH FEET	FORMATION	CORE RECOVERY From	To	Core Length	SAMPLE NO.	FROM	TO	WIDTH	ASSAYS
	grey-green to black argillite part-	276.0	280.0	0.8					
	ings. Limy, minor pyrite. Moderate	280.0	283.5	1.8					
	quartz and siderite distorted lenses	283.5	288.5	4.6					
250.0-259.0	Qtzite-limy, argillaceous. Numerous	288.5	293.0	2.7					
	qtz. siderite stringers & lenses.	293.0	296.0	1.7					
	Trace pyrite. Qtzite darker than pre-								
	vious sections.	296.0	299.0	0.8					
259.0-270.0	Qtzite-minor argillite partings de-	299.0	301.0	0.5					
	creasing to bottom of section. Minor								
	qtz. siderite, pyrite.	301.0	306.0	1.3					
270.0-290.0	Qtzite-trace pyrite, no argillite.	306.0	311.0	4.0					
290.0-301.0	Qtzite-occasional parting grey-grn	311.0	316.5	3.9					
	to black argillite. Trace pyrite.	316.5	322.0	3.4					
301.0-322.0	Argillite-grey. Minor to moderate ir-								
	regular patches quartzite, quartz.								
	Trace pyrite.								
	END OF HOLE								
	Hole cemented at 190'								

Length of Hole - 322.0
Overburden -50.0
Rock Drilled 272.0
Core Recovered 135.2

~~% recovery~~

$$\frac{135.2 \times 100}{272.0} = 49.7\%$$

CLAIM NO. M-18

DIAMOND DRILL RECORD

PROPERTY McMillan

HOLE NO. 77

LATITUDE 94,348 N | ELEVATION 779.3' | BEARING -- | DEPTH 309.0' | STARTED 8 July/56 | COMPLETED 18 July/56

DEPARTURE 100,040 E | SECTION | DIP -90° | DRILLED BY | LOGGED BY R. G. Kenly

DEPTH FEET	FORMATION	CORE RECOVERY From	To	Core Length	SAMPLE NO.	FROM	TO	WIDTH	ASSAYS
0-79.0	Overburden	79.0	80.0	0.5					
79.0-100.0	Argillite-gray. Occasional thin sid-	80.0	81.0	0.6					
	erite and qtz. stringers paralleling	81.0	83.0	1.7					
	and cutting banding, often with pyrite								
	Minor to trace pyrite. Banding 50-	83.0	86.0	2.0					
	60° 80-81' qtzite with moderate	86.0	88.5	1.3					
	finely disseminated pyrite. 86-86.8'	88.5	89.5	0.9					
	qtzite. with grey-green argillite.	89.5	93.0	1.0					
100.0-117.0	Argillite dk gy. Banding 55-65° 104-	93.0	96.0	9.6					
	105' light gy arg.	96.0	99.0	1.0					
117.0-125.5	Argillite-light gy. Occasional bands	99.0	101.0	1.4					
	qtzite.	101.0	103.0	0.7					
125.5-126.5	Qtzite-small ships and sand. Moder-	103.0	106.0	1.6					
	ate pyrite.	106.0	108.0	0.6					
126.5-130.0	Qtzite-trace siderite, minor pyrite	108.0	111.0	0.8					
130.0-135.0	Qtzite & Argillite, gry interbanded	111.0	113.0	1.1					
	Trace pyrite. Banding 45°, faintly	113.0	117.5	1.8					
	dragged.	117.5	118.5	0.9					

CLAIM NO. .....

DIAMOND DRILL RECORD

PROPERTY Sheet No. 2 HOLE NO. 77

LATITUDE ..... ELEVATION ..... BEARING ..... DEPTH ..... STARTED ..... COMPLETED .....

DEPARTURE ..... SECTION ..... DIP ..... DRILLED BY ..... LOGGED BY .....

DEPTH FEET	FORMATION	CORE RECOVERY From	To	Core Length	SAMPLE NO.	FROM	TO	WIDTH	ASSAYS Au	Ag	Pb	Zn
135.0-147.0	Qtzite-136.5'-½" qtz at 65°.141.3'	118.5	123.0	0.4	7976	161	171	1.5	0.003	0.03	0.01	0.01
	-½ dolomite at 55° with pyrite at	123.0	124.5	0.3	7977	171	181	2.2	0.003	0.07	0.06	0.01
	contact. Occasional thin calcite	124.5	126.5	0.5	7978	189	199	3.0	0.003	0.08	0.04	0.01
	stringer. Trace pyrite.	126.5	130.0	0.3	7979	199	209	1.8	0.003	0.10	0.09	0.01
147.0-151.0	Argillite-grey. 147'-¼" dolomite	130.0	132.0	0.6	7980	209	215	0.8	0.003	0.05	0.04	0.01
	cuts banding at 55° banding is 45°.	132.0	135.0	1.9	7981	220	230	1.2	0.003	0.05	0.15	0.01
151.0-154.0	Qtzite, interbanded with grey arg.	135.0	138.0	1.0	7982	230	240	0.2	0.003	0.05	0.07	0.01
	151.4' - ¼ dolomite cuts banding	138.0	142.0	2.2								
	at 50°, banding is 50°.	142.0	145.5	1.4								
154.0-159.0	Qtzite-limy. Numerous pronounced	145.5	146.5	1.0								
	quartz eyes.	146.5	151.0	1.9								
159.0-168.0	Qtzite-varies from argillaceous to	151.0	152.0	0.6								
	limy to silicious. 167' banding at	152.0	154.0	1.2								
	20° between qtzite and quartzite	154.0	156.5	0.6								
	argillite.	156.5	158.0	1.2								
168.0=181.0	Argillite-dk grey. 169-169.5' sand	158.0	160.0	0.7								
	174-175' quartzite. 175-178' well	160.0	163.0	1.2								
	banded at 40° with finely disem-	163.0	165.0	0.2								
	inated pyrite along banding.											

(very cavey; no core to 250)

CLAIM NO. .....

DIAMOND DRILL RECORD

PROPERTY Sheet No. 3 ..... HOLE NO. 77

LATITUDE ..... ELEVATION ..... BEARING ..... DEPTH ..... STARTED ..... COMPLETED .....

DEPARTURE ..... SECTION ..... DIP ..... DRILLED BY ..... LOGGED BY .....

DEPTH FEET	FORMATION	CORE RECOVERY From	To	Core Length	SAMPLE NO.	FROM	TO	WIDTH	ASSAYS Ag	Pb	Zn
	180'-2" heavy siderite with qtzite.	165.0	167.0	0.3							
181.0-189.0	Qtzite. Heavy siderite. 183-184'	167.0	169.0	0.7							
	minor Pb, Zn and gy acicular miner-	169.0	171.0	0.7							
	al 184-185' thready fractures Pb,	171.0	175.0	0.5	3764	181.0	189.0	8.0	0.30	5.3	Tr
	Zn, and patches acicular gy mineral.	175.0	179.0	1.5							
	185-185.2' massive Pb, Zn with 1/8"	179.0	181.0	0.9							
	square angular fragments calcite.	181.0	184.0	1.1							
	186'-2" angular fragments dk gy arg.	184.0	187.0	1.3							
	in siderite with trace pyrite 186-	187.0	191.5	0.8							
	187' minor acicular gy mineral 187'	191.5	193.5	2.1							
	- Boulangerite needles in a small	193.5	196.0	1.0							
	vug in calcite.	196.0	198.0	0.5							
189.0-192.8	Limestone-with irregular stringers	198.0	200.0	0.5							
	calcite and irregular bands grey arg.										
	Occasional patch vuggy siderite.	200.0	202.0	0.3							
192.8-194.6	Argillite-dk gy. Minor qtzite band-	202.0	204.0	0.2							
	ing at 35°. Trace pyrite on bands.	204.0	206.0	0.4							
194.6-206.5	Limestone, 198-199' chips with	206.0	208.5	1.1							

CLAIM NO. .....

DIAMOND DRILL RECORD

PROPERTY ..... HOLE NO. 77-4

LATITUDE ..... ELEVATION ..... BEARING ..... DEPTH ..... STARTED ..... COMPLETED .....

DEPARTURE ..... SECTION ..... DIP ..... DRILLED BY ..... LOGGED BY .....

DEPTH FEET	FORMATION	CORE RECOVERY From	To	Core Length	SAMPLE NO.	FROM	TO	WIDTH	ASSAYS Ag	Pb	Zn
	moderate pyrite. 199-201' dk-gy	208.5	210.0	0.6							
	argillite with thin bands qtzite at	210.0	213.0	0.7							
	45°.	213.0	215.0	0.5							
106.5-240.0	Qtzite. Locally limy. Light gy to	215.0	217.0	0.5	3765	215.0	220.0	5.0	0.04	Tr	Tr
	white. Occasional pyrite. 217.2'	217.0	220.0	1.3							
	thready fracture Pb, Zn in highly	220.0	222.5	0.4							
	silicious qtzite.	222.5	225.5	0.4							
240.0-277.0	Argillite-pink. Green argillite	225.5	227.5	0.6							
	partings and specks with trace pyrit	227.5	229.0	0.3							
	Banding 20-40°. 261-262' purple	229.0	231.0	0.2							
	argillite with dragged green argill-	231.0	233.0	0.2							
	ite. 267.5'-¼" pyrite & quartz at	233.0	236.0	0							
	70°. 268.5-270.0' vuggy purple	236.0	250.0	0.4							
	argillite with slikensided green arg	250.0	260.0	1.7							
	at 35°. 273' - 1/8" pyrite at 70°.	260.0	262.0	0.9							
	274.5-277.0' rock becoming more	262.0	263.5	1.1							
	purple. Proncunced banding with	263.5	265.5	1.6							
	quartzite.	265.5	266.5	0.3							

CLAIM NO. .....

DIAMOND DRILL RECORD

PROPERTY Sheet 5 HOLE NO. 77

LATITUDE ..... ELEVATION ..... BEARING ..... DEPTH ..... STARTED ..... COMPLETED .....

DEPARTURE ..... SECTION ..... DIP ..... DRILLED BY ..... LOGGED BY .....

DEPTH FEET	FORMATION	CORE RECOVERY From	To	Core Length	SAMPLE NO.	FROM	TO	WIDTH	ASSAYS
277.0-292.0	Argillite-purple. Lensy quartzite	266.5	271.0	2.1					
	& slikensided green argillite at	271.0	274.5	1.2					
	30°.	274.5	277.0	0.7					
292.0-309.0	Qtzite-chips qtzite and green arg.	277.0	287.0	0.8					
	Trace pyrite.	287.0	292.0	0.7					
	END OF HOLE	292.0	299.0	0.3					
		299.0	304.0	0.3					
	Length of Hole 309.0	304.0	309.0	0.3					
	Overburden -79.0								
	Rock drilled 230.0								
	Core recovered 67.7								
	% Recovery $\frac{67.7 \times 100}{230.0}$ = 29.4%								
	Hole cemented at 210.0'								

CLAIM NO. .....

DIAMOND DRILL RECORD

PROPERTY .....

HOLE NO. 78-sheet 1

LATITUDE ..... ELEVATION ..... BEARING ..... DEPTH ..... STARTED ..... COMPLETED .....

DEPARTURE ..... SECTION ..... DIP ..... DRILLED BY ..... LOGGED BY .....

DEPTH FEET	FORMATION	SAMPLE NO.	FROM	TO	WIDTH	ASSAYS			
	Overburden went to 213' no bedrock.								

CLAIM NO. .....

DIAMOND DRILL RECORD

PROPERTY .....

HOLE NO. 79-sheet #1

LATITUDE ..... ELEVATION ..... BEARING ..... DEPTH ..... STARTED ..... COMPLETED .....

DEPARTURE ..... SECTION ..... DIP ..... DRILLED BY ..... LOGGED BY .....

DEPTH FEET	FORMATION	SAMPLE NO.	FROM	TO	WIDTH	ASSAYS			
	Overburden went to 163' no bedrock.								

DIAMOND DRILL RECORD

CLAIM NO. M 20 PROPERTY McMillan HOLE NO. 80

LATITUDE 95375 N ELEVATION 747.8' BEARING DEPTH 318.0' STARTED 1 Aug. /56 COMPLETED 11 Aug /56

DEPARTURE 98890 E SECTION DIP 90° DRILLED BY LOGGED BY R. B. Kenly

DEPTH FEET	FORMATION	CORE RECOVERY From	To	Core Length	SAMPLE NO.	FROM	TO	WIDTH	ASSAYS
0-90.0	Overburden	90.0	93.0	0.9					
90.0-91.0	Argillite-pink. Trace pyrite	93.0	96.0	0.8					
91.0-94.5	Argillite-purple. Few irregular	96.0	99.0	1.0					
	patches dolomite. Few bands green	99.0	101.0	1.0					
	arg. Banding at 40°.	101.0	103.5	2.3					
94.5-106.0	Argillite-pink. Green arg. Band-	103.5	110.0	4.6					
	ing at 50°. 99.102' - very light	110.0	114.5	3.3					
	pink with trace pyrite disseminated	114.5	116.0	1.9					
	or in small patches.	116.0	131.0	4.1					
106.0-106.5	Argillite-purple	121.0	127.0	5.2					
106.5-108.0	Argillite-green. Trace pyrite.	127.0	130.0	2.1					
	Banding 45-65°.	130.0	136.5	2.7					
108.0-108.5	Argillite-pink	136.5	141.0	3.1					
108.5-112.5	Argillite-purple. Two small ir-	141.0	144.0	1.7					
	regular quartzite patches. Banding	144.0	148.0	1.1					
	45-55°.	148.0	152.0	1.1					
112.5-116.0	Argillite - pink. Moderate green	152.0	156.0	0.7					
	argillite. Trace pyrite dissemin-	156.0	160.0	0.5					

CLAIM NO. .....

DIAMOND DRILL RECORD

PROPERTY Sheet No. 2 ..... HOLE NO. 80 .....

LATITUDE ..... ELEVATION ..... BEARING ..... DEPTH ..... STARTED ..... COMPLETED .....

DEPARTURE ..... SECTION ..... DIP ..... DRILLED BY ..... LOGGED BY .....

DEPTH FEET	FORMATION	SAMPLE NO.	FROM	TO	WIDTH	ASSAYS			
						% Pb	% Zn	oz/T Ag	oz/T Au
	ated. Banding 55°. 114-114.5' - green argillite and quartzite with brecciated appearance.								
116.0-121.0	Argillite-purple. Few green argillite bands at 45°. Occasional thready distorted green argillite.								
121.0-125.5	Argillite-pink. Green argillite and few quartzite bands at 45°. Trace disseminated pyrite.								
125.5-126.0	Argillite-purple								
126.0-130.0	Argillite-pink. Trace pyrite on bands at 55°,				Recovery				
130.0-134.0	Argillite-light pink. Green argillite bands at 45°. Trace pyrite. 131.4' - 1" moderate pyrite.	8010	130	140	7.5'	0.01	<0.01	0.02	<0.003
		8011	140	150	4.4'	0.25	<0.01	0.10	<0.003
134.0-141.5	Qtzite - white with green argillite. Somewhat crusted appearance. Trace pyrite.	8012	150	160	2.5'	<0.01	<0.01	0.02	<0.003
		8013	160	170	3.7'	0.35	0.01	0.10	<0.003
141.5-160.0	Qtzite - section grades from grey at top to white. Gray & green argillite partings. 141.5-143.0' - Trace to minor Pb in irregular patches. Trace pyrite. 156.0'-1" moderate siderite.								
160.0-162.0	Pyrite								
162.0-167.0	Qtzite - trace disseminated pyrite								

CLAIM NO. .....

DIAMOND DRILL RECORD

PROPERTY ..... Sheet NO. 3 ..... HOLE NO. .....

LATITUDE ..... ELEVATION ..... BEARING ..... DEPTH ..... STARTED ..... COMPLETED .....

DEPARTURE ..... SECTION ..... DIP ..... DRILLED BY ..... LOGGED BY .....

DEPTH FEET	FORMATION	CORE RECOVERY From	To	Core Length	SAMPLE NO.	FROM	TO	WIDTH	ASSAYS
167.0-170.0	Argillite - gray. Moderate quart-	160.0	164.0	0.8					
	zite. Trace siderite. 168.0' - ½"	164.0	167.0	1.0					
	moderate pyrite	167.0	170.0	1.6					
170.0-173.5	Qtzite. Moderate dark-gray to black	170.0	173.5	1.6					
	arg. partings. Trace siderite. Trace	173.5	177.5	2.3					
	pyrite	177.5	181.0	0.3					
173.5-175.5	Argillite - light gray. Minor ir-	181.0	184.0	0.4					
	regular patches siderite with trace	184.0	187.0	1.0					
	pyrite. Banding 40 - 50°.	127.0	190.0	0.2					
175.5-218.0	Quartzite. 175.5-176.5' dark gray	190.0	191.5	0.4					
	to black arg. partings.	191.5	193.5	0.5					
	185.5-186.0' - dark gray argillite.	193.5	197.0	0.8					
	196.5-197.0' - moderate pyrite 203.5-204.0' - heavy pyrite	197.0	198.0	0					
	204.0-205.0' - white quartzite	198.0	201.0	1.6					
218.0-230.5	Argillite - light gray to green-	201.0	205.0	1.6					
	gray. 229.5-230.5' - trace Pb in	205.0	210.0	0.7					
	black partings.	210.0	213.0	2.1					
230.5-249.5	Quartzite - minor thin siderite	213.0	218.0	1.0					
	and distorted dolomite stringers.	218.0	221.5	0.5					

CLAIM NO. .....

DIAMOND DRILL RECORD

PROPERTY Sheet No. 4 HOLE NO. 80

LATITUDE ..... ELEVATION ..... BEARING ..... DEPTH ..... STARTED ..... COMPLETED .....

DEPARTURE ..... SECTION ..... DIP ..... DRILLED BY ..... LOGGED BY .....

DEPTH FEET	FORMATION	CORE RECOVERY From	To	Core Length	SAMPLE NO.	FROM	TO	WIDTH	ASSAYS
	Trace pyrite. 238.6-239.6' black	221.5	224.5	1.0					
	graphitic partings at 45°.	224.5	227.0	0.8					
249.5-256.0	Argillite-dark grey minor thin ir-	227.0	231.0	2.2					
	regular siderite stringers. 256.0'-	231.0	234.0	0.7					
	small patch siderite with one speck	234.0	238.0	2.0					
	Pb.	238.0	240.0	1.3					
256.0-267.5	Quartzite - trace pyrite. 264.0'0	240.0	242.0	2.0					
	one bleb Pb.	242.0	245.0	0.7					
267.5-269.3	Argillite - dark grey. Trace sid-	177.5	181.0	0.3					
	erite and pyrite. Occasional graph-	181.0	184.0	0.4					
	itic parting.	184.0	187.0	1.0					
269.3-272.0	Quartzite. Occasionally vuggy. Trace	187.0	190.0	0.2					
	pyrite. Some graphitic partings.	190.0	191.5	0.4					
	Trace siderite. Speck Pb at 270.6	191.5	193.5	0.5					
	and 271.8'	193.5	197.0	0.8					
272.0-292.0	Quartzite. Top of section has	197.0	198.0	0					
	heavy graphitic partings, minor	198.0	201.0	1.6					
	pyrite. Patches quartzite & sid-	201.0	205.0	1.6					

CLAIM NO. ..... **DIAMOND DRILL RECORD** PROPERTY ..... Sheet No. 5 ..... HOLE NO. 80

LATITUDE ..... ELEVATION ..... BEARING ..... DEPTH ..... STARTED ..... COMPLETED .....

DEPARTURE ..... SECTION ..... DIP ..... DRILLED BY ..... LOGGED BY .....

DEPTH FEET	FORMATION	CORE RECOVERY From	To	Core Length	SAMPLE NO.	FROM	TO	WIDTH	ASSAYS
	erite with overall suggestion of	208.0	210.0	0.7					
	banding. Grades down to mottled ap-	210.0	213.0	2.1					
	pearing rock with highly distorted,	213.0	218.0	1.0					
	often thready quartz and siderite,	218.0	221.5	0.5					
	less graphite & pyrite. Green arg.	221.5	224.5	1.0					
	~~increases~~ toward bottom. 2890'-¼"	224.5	227.0	0.8					
	siderite and trace graymineral at	227.0	231.0	2.2					
	50' 291.0' - trace Pb with siderite.	231.0	234.0	0.7					
292.0-295.0	Quartzite. Soft; crushed appear-	234.0	238.0	2.0					
	ance. Heavy black graphitic arg.	238.0	240.0	1.3					
	moderate distorted green arg.	240.0	242.0	2.0					
295.0-298.0	Quartzite. Soft; crushed appearance	242.0	245.0	0.7					
	Hard distorted quartz, siderite, &	245.0	247.5	0.2					
	green arg. Trace to minor Pb & gray	247.5	250.0	0.5					
	mineral.	250.0	252.0	0.1					
298.0-302.0	Quartzite. Heavy black arg. part-	252.0	256.0	3.4					
	ings, soft.	256.0	260.0	0.2					
302.0-308.0	Quartzite. Mottled appearance.	260.0	261.5	0.8					

CLAIM NO. .....

DIAMOND DRILL RECORD

PROPERTY ..... Sheet No. 6 ..... HOLE NO. 80

LATITUDE ..... ELEVATION ..... BEARING ..... DEPTH ..... STARTED ..... COMPLETED .....

DEPARTURE ..... SECTION ..... DIP ..... DRILLED BY ..... LOGGED BY .....

DEPTH FEET	FORMATION	CORE RECOVERY From	To	Core Length	SAMPLE NO.	FROM	TO	WIDTH	ASSAYS
	Hard	261.5-	264.5	2.0					
308.0-312.0	Quartzite. Heavy black arg. Soft	264.5	269.0	1.4					
312.0-314.5	Quartzite. Mottled appearance. Hard	269.0	272.0	2.7					
314.5-318.0	Quartzite. Brecciated appearance,	272.0	276.5	3.0					
	quartzite fragments in black to dk	276.5	281.0	3.3					
	gy argillite.	281.0	284.5	2.0					
	END OF HOLE	284.5	287.0	1.5					
		287.0	292.0	2.4					
	Length of Hole 318.0	292.0	296.0	1.2					
	Overburden - 90.0								
	Rock drilled 228.0	296.0	300.5	2.9					
	Core recovered 104.0	300.5	303.0	2.0					
	% Recovery $\frac{104.4 \times 100}{228.0}$ = 45.8%	303.0	308.0	3.4					
	Hole cemented at 201.0' and 261.0'	308.0	312.0	1.5					
		312.0	314.5	1.2					
		314.5	318.0	1.4					

CLAIM NO. M-19

DIAMOND DRILL RECORD

PROPERTY McMillan

HOLE NO. 81

LATITUDE 95955 N | ELEVATION 725.0' | BEARING - | DEPTH 286.0' | STARTED 12 Aug/56 | COMPLETED 19 Aug/56

DEPARTURE 98942 E | SECTION | DIP -90° | DRILLED BY | LOGGED BY R. Kenly

DEPTH FEET	FORMATION	CORE RECOVERY From	To	Core Length	SAMPLE NO.	FROM	TO	WIDTH	ASSAYS
0-108.0	Overburden	109.0	110.0	2.0					
108.0-109.5	Argillite dk gy. Numerous irregular	110.0	113.5	1.2					
	stringers & lenses of dolomite. Trace	113.5	115.0	0.5					
	siderite and pyrite.	115.0	116.0	0.7					
109.5-126.0	Quartzite. Numerous thready quartz	116.0	117.5	0.7					
	filled fractures. Occasional black,	117.5	120.0	1.4					
	slightly graphitic, argillite partings	120.0	123.0	1.3					
126.0-128.0	Argillite-dark gray. Numerous irreg-	123.0	125.5	1.3					
	ular patches quartzite & dolomite.	125.5	128.0	1.0					
128.0-133.0	Trace pyrite. Quartzite. Numerous	128.0	130.0	1.6					
	thready quartz filled fractures.	130.0	135.0	2.5					
133.0-137.0	Quartzite. Mottled appearance with	135.0	138.0	0.3					
	patches of quartzite, dark gray & grn	138.0	140.0	1.3					
	arg. More dark gray argillite &	140.0	144.5	2.6					
	increased crushed appearance toward	144.5	149.0	1.3					
	bottom of section.	149.0	154.0	1.9					
137.0-139.7	Argillite-green. Alternate bands arg.	154.0	157.0	2.1					
	and quartzite at 40°.	157.0	159.5	1.0					
139.7-140.5	Argillite-green, dark gray arg. &	159.5	162.0	0.3					
	quartzite patches.	162.0	164.0	1.0					
140.5-142.0	Quartzite.	164.0	166.0	0.7					
142.0-144.5	Argillite-dark gray. Banding at 40°.	166.0	170.0	0.7					
144.5-150.0	Argillite-dark gray. Slightly quartz-	170.0	173.5	1.3					
	dtic. Moderate irregular lenses sid-	173.5	176.5	0.9					
	erite & green argillite.	176.5	179.0	2.7					
150.0-153.0	Argillite-green. Numerous quartz blebs	179.0	184.0	2.8					
	distorted vague banding.	184.0	187.0	0.5					
153.0-153.0	Argillite-Minor pyrite in thready	187.0	191.0	2.6					
	fracture 156.3'-½" pyrite at 30°.	191.0	194.0	0.7					
157.0-159.5	Argillite-dark gray. Moderate to minor	194.0	197.0	0.7					
	lenses dolomite. Minor pyrite.	197.0	200.0	1.2					
159.5-168.0	Quartzite-dark, slightly limy. Minor	200.0	202.5	1.3					

CLAIM NO. .....

DIAMOND DRILL RECORD

PROPERTY Sheet No. 2 HOLE NO. 81

LATITUDE ..... ELEVATION ..... BEARING ..... DEPTH ..... STARTED ..... COMPLETED .....

DEPARTURE ..... SECTION ..... DIP ..... DRILLED BY ..... LOGGED BY .....

DEPTH FEET	FORMATION	CORE RECOVERY From	To	Core Length	SAMPLE NO.	FROM	TO	WIDTH	ASSAYS
	irregular bands dolomite.								
168.0-173.0	Argillite-dark gray. Thin distorted quartz bands with trace pyrite.	202.5	205.0	1.5					
		205.0	208.0	14.					
173.0-184.0	Quartzite. Very competent. Minor dolomite & siderite.	208.0	211.0	0.7					
		211.0	214.0	1.5					
184.0-198.0	Argillite-black. Occasional graphitic partings. Minor irregular lenses & stringers quartz, dolomite, & siderite.	214.0	217.0	1.8					
		217.0	220.0	2.0					
		220.0	221.0	0.8					
		221.0	225.0	2.6					
198.0-206.0	Quartzite. Mottled appearance with heavy black quartzite, minor siderite & dolomite; trace pyrite.	225.0	228.0	1.3					
		228.0	233.0	2.1					
		233.0	238.0	4.2					
206.0-208.0	Argillite-black. Minor small patches quartzite. Minor pyrite.	238.0	242.0	19					
		242.0	244.0	0.8					
208.0-209.5	Quartzite.	244.0	246.0	0.9					
209.5-218.5	Quartzite - mottled with heavy distorted gray green & black argillite, moderate siderite & quartz, & trace pyrite.	246.0	250.0	2.4					
		250.0	254.5	1.6					
		254.5	256.0	1.2					
		256.0	261.0	0.4					
218.5-221.5	Quartzite. Mottled; with moderate siderite trace black argillite.	261.0	265.0	0.7					
		265.0	268.0	0.4					
221.5-223.5	Quartzite. Mottled; with heavy black argillite.	268.0	270.0	0.3					
		270.0	273.0	0.5					
223.5-228.0	Quartzite. Competent; mottled, no black argillite.	273.0	278.0	0.6					
		278.0	281.0	0.4					
228.0-238.0	Quartzite. Mottled; heavy black arg. slightly graphitic toward section bottom.	281.0	286.0	0.7					
238.0-254.5	Argillite-black. Minor thin distorted bands & lenses of quartz & quartzite. Trace pyrite.								

CLAIM NO. .....

DIAMOND DRILL RECORD

PROPERTY ..... Sheet No. 3 ..... HOLE NO. 81

LATITUDE ..... ELEVATION ..... BEARING ..... DEPTH ..... STARTED ..... COMPLETED .....

DEPARTURE ..... SECTION ..... DIP ..... DRILLED BY ..... LOGGED BY .....

DEPTH FEET	FORMATION	CORE RECOVERY From	To	Core Length	SAMPLE NO.	FROM	TO	WIDTH	ASSAYS
	Occasional graphitic parting.								
254.5-286.0	Quartzite-Occasional black argillite slightly graphitic parting. Mottled minor patches dolomite & quartz.								
	END OF HOLE								
	Length of Hole 286.0								
	Overburden -108.0								
	Rock Drilled 178.0								
	Core Recovered 74.8								
	% Recovery $\frac{74.8 \times 100}{178.0} = 42\%$								

CLAIM NO. M - 19

DIAMOND DRILL RECORD

PROPERTY McMillan HOLE NO. 82

LATITUDE 96540N ELEVATION 850.3 (650.3) BEARING -- DEPTH 319.0' STARTED Aug 20-28,/56 COMPLETED Sept 4-5 /56

DEPARTURE 98814E (E) SECTION DIP -90° DRILLED BY LOGGED BY R. G. Kenly

DEPTH FEET	FORMATION	CORE RECOVERY From	To	Core Length
0-75.0	Overburden	75.0	77.0	1.5
75.0-94.0	Limestone. Gray, impure. Numerous	77.0	79.0	1.5
	dolomite & calcite stringers & patches	79.0	84.0	4.0
	Numerous thready black argillite part-	84.0	89.0	4.5
	ings; sometimes stylolitic appearance.	89.0	92.0	1.7
	Larger black argillite partings show	92.0	96.5	1.9
	trace pyrite.	96.5	102.5	1.3
94.0-96.5	Quartzite. Moderate green argillite	102.5	106.0	0.8
	partings with trace pyrite.	106.0	109.0	0.4
96.5-102.5	Quartzite.	109.0	110.5	0.6
102.5-105.0	Quartzite. Numerous thin slikensided	110.5	112.5	0.7
	black argillite partings at 35°.	112.5	114.0	0.7
105.0-118.0	Quartzite. 113.0' - 1"massive pyrite	114.0	116.0	0.5
	114.5-115.5'-moderate pyrite.	116.0	118.0	0.8
118.0-120.4	Quartzite. Moderate pyrite.	118.0	120.0	1.1
120.4-124.0	Quartzite. Completely pyritized. Mod-	120.0	124.5	3.5
	erate small irregular calcity patches	124.5	127.0	0.8
124.0-127.0	Quartzite. Minor to moderate pyrite.	127.0	131.0	2.0
	Moderate gray argillite.	131.0	135.0	1.5
127.0-137.5	Argillite-green. Minor small patches	135.0	139.5	3.2
	pyrite on 50-60° banding.	139.5	143.0	1.1
137.5-142.5	Argillite-green & gray 137.5-138.0	143.0	146.5	1.3
	moderate pyrite. 137.8' one speck	146.5	152.0	2.2
	gray mineral. 138.5-140.0-quartzitic.	152.0	154.5	1.3
142.5-143.0	Quartzite. Chips with heavily pyritic	154.5	158.0	2.3
	black sand.	158.0	163.0	3.0
143.0-171.0	Quartzite. Moderate quartz, calcite	163.0	168.0	3.1
	& dolomite give locally mottled to	168.0	173.0	2.8
	brecciated appearance. Minor to mod-	173.0	175.0	1.4
	erate pyrite. 155.0'-pyrite sliken-	175.0	179.5	3.4
	sided on gray argillite at 10°.			

SAMPLE NO.	FROM	TO	WIDTH	ASSAYS Au	Ag	Pb	Zn
7983	160	171	3.9	0.003	0.04	0.06	0.01
7984	173	183	6.0	0.003	0.06	0.01	0.01
7985	183	190.5	4.3	0.003	0.17	0.07	0.04
7986	210.5	220	5.6	0.003	0.23	0.01	0.01
7987	220	230	2.5	0.003	0.03	0.01	0.01
7988	230	240	1.5	0.003	0.07	0.01	0.01
7989	240	250	0.4	0.003	0.03	0.01	0.01
7990	250	257	0.7	0.003	0.05	0.06	0.01
7991	259	269	2.0	0.003	0.19	0.25	0.05
7992	269	279	1.5	0.003	0.07	0.09	0.01
8006	150	160	1.5'	<0.003	<0.01	<0.01	<0.01

CLAIM NO. .....

DIAMOND DRILL RECORD

PROPERTY ..... Sheet No. 2 ..... HOLE NO. 82

LATITUDE ..... ELEVATION ..... BEARING ..... DEPTH ..... STARTED ..... COMPLETED .....

DEPARTURE ..... SECTION ..... DIP ..... DRILLED BY ..... LOGGED BY .....

DEPTH FEET	FORMATION	CORE RECOVERY From	To	Core Length	SAMPLE NO.	FROM	TO	WIDTH	ASSAYS Ag	Pb	Zn	Cu
171.0-173.0	Quartzite. Moderate pyrite. Trace to minor Pb. Minor green argillite at section bottom	179.5	184.0	3.8	3768	171	173		0.1	0.6	Tr	
		184.0	187.0	2.4								
173.0-174.0	Argillite-green	187.0	190.5	2.3								
174.0-180.5	Quartzite. Moderate pyrite disseminated and in vague stringers. 177.2'-one small patch Zn.	190.5	195.5	3.4								
		195.5	200.5	3.7	3769	190.5	191.5	1.0	5.5	0.4	Tr	0.45
		200.5	204.0	2.4								
180.5-181.0	Argillite-green with minor black. Banding at 45°.	204.0	208.0	3.7								
		208.0	212.5	2.5	3770	191.5	195.0	3.5	1.3	Tr	Tr	0.20
181.0-186.5	Quartzite. Moderate calcity at top of section.	212.5	217.5	2.5								
		217.5	223.5	4.5	3773	195.0	200.5	5.5	3.8	4.6	Tr	Tr'
186.5-188.2	Quartzite. With moderate gray argillite, moderate pyrite. Occasional black slightly graphitic argillite parting.	223.5	228.0	0.7								
		228.0	233.0	0.5	3771	200.5	201.5	1.0	11.3	Tr	0.9	15.2
		233.0	235.6	1.0								
188.2-190.5	Quartzite. Moderate pyrite in vague stringers.	235.6	240.0	0.9	3772	201.5	210.5	9.0	17.1	0.9	Tr	2.1
		240.0	244.0	04								
		244.0	248.0	0.3								
190.5-191.5	Quartzite. Heavy pyrite. Minor Zn Pb Pyrite veined by minor gray Cu and/or boulangerite.	248.0	252.0	0.4								
		252.0	256.0	0.2								
		256.0	258.0	0.8								
191.5-200.8	Quartzite. Moderate pyrite. Occasional speck Pb. 191.0-195.9'.	258.0	260.0	0.4								
		260.0	264.0	2.0								
200.8-201.5	Quartzite. Moderate pyrite. Heavy Ag chalcopyrite. Chalcopyrite is veined by gray mineral.	264.0	269.0	0.8	3774	257	259		1.4	Tr	Tr	0.20
		269.0	270.0	0.3								
		270.0	275.0	1.2								
201.5-210.5	Quartzite. Hard, mottled, occasionally(205-207 streaks of and patches of gray mineral.) slightly brecciated appearance. Moderate quartz, calcite. Minor to moderate Zn, Pb in vague stringers & small patches. 205.8'-1" Zn Pb.	275.0	280.0	0.8								
		280.0	283.0	2.2								
		283.0	285.0	1.4								
		285.0	289.0	2.2								
		289.0	293.0	1.1								
		293.0	296.0	1.0								
		296.0	301.0	4.4								

CLAIM NO. .....

DIAMOND DRILL RECORD

PROPERTY ..... Sheet No. 3 ..... HOLE NO. 82

LATITUDE ..... ELEVATION ..... BEARING ..... DEPTH ..... STARTED ..... COMPLETED .....

DEPARTURE ..... SECTION ..... DIP ..... DRILLED BY ..... LOGGED BY .....

DEPTH FEET	FORMATION	CORE RECOVERY From	To	Core Length	SAMPLE NO.	FROM	TO	WIDTH	ASSAYS % Pb	% Zn	oz Ag	oz Au
210.5-215.5	Quartzite. Dark gray with moderate to heavy dark gray to black irregular argill to partings, some slightly graphitic. Moderate pyrite.	301.0	306.5	4.8								
		306.5	308.0	0.4								
		308.0	313.0	5.0								
		313.0	319.0	3.2								
215.5-222.5	Quartzite. Light colored mottling, occasionally slightly brecciated appearance. Minor to moderate pyrite in vague stringers 219.6' - small patch (gray mineral) Zn with 1/16" pyrite at 75°.											
222.5-228.0	Quartzite. Heavy black & green arg. irregular partings. Moderate pyrite.											
228.0-256.0	Quartzite. 236-240.0'-moderate siderite in small irregular sometimes dthready, ptches.											
256.0-259.5	Quartzite. Crushed, sometimes brecciated appearance. (black fault??-J. Dl). Moderate siderite, green & black argillite, black graphitic partings. Sand at top of section. 257.6-258.2'-moderate to heavy Pb. Ag Trace pyrite.											
259.5-262.0	Quartzite. Heavy siderite. Black slightly graphitic argillite. Trace to minor pyrite.											
262.0-267.0	Limestone. Numerous thready black arg. partings, often with pyrite. Minor siderite.											
267.0-270.0	Quartzite. Moderate irregular patchos green & black argillite. Trace Pb.											
270.0-272.0	Argillite. Dark gray. hard.											
272.0-290.0	Quartzite. Mottled somewhat brecciated. Heavy black argillite, some graphitic. Moderate pyrite in irregular lenses				2004	279	290	69'	<0.01	<0.01	<0.01	<0.003

CLAIM NO. .....

DIAMOND DRILL RECORD

PROPERTY ..... Sheet No.4 ..... HOLE NO. 82

LATITUDE ..... ELEVATION ..... BEARING ..... DEPTH ..... STARTED ..... COMPLETED .....

DEPARTURE ..... SECTION ..... DIP ..... DRILLED BY ..... LOGGED BY .....

DEPTH FEET	FORMATION	SAMPLE NO.	FROM	TO	WIDTH	ASSAYS			
						% Pb	% Zn	oz/T Ag	oz/T Au
290.0-297.0	Quartzite. Minor to moderate pyrite. No black argillite.	2005	290	300	6.2'	<0.01	<0.01	<0.01	<0.003
297.0-301.0	Quartzite. 297.0-298.0' heavy black argillite; 298.0-299.0' ~~-moderate black argillite; 300.5-301.0' - heavy black arg.~~ Minor pyrite.								
301.0-306.0	Quartzite. Light gray mottled. Moderate to heavy pyritepatches. Trace black argillite.								
306.0=308.5	Argillite-dark gray to black, minor lenses quartzite. Then distorted lenses pyrite.								
308.5-313.0	Quartzite. Light gray mottled with fragments quartzite & ~~argillaceous quartzite. Minor pyrite. Trace black argillite~~ Trace gray mineral 309'.								
313.0-318.0	Quartzite. Minor to moderate black argillite. Trace to minor pyrite.								
318.0-319.0	Quartzite. Some argillaceous patches.								

~~Length of Hole~~ 319.0
Overburden -75.0
~~Rock drilled~~ 244.0
Core Recovered 121.5

$$\% \text{ Recovery} = \frac{121.5 \times 100}{244.0} = 49.8$$

Cemented at 269' and 287'

DIAMOND DRILL RECORD

CLAIM NO. M 22 PROPERTY McMillan HOLE NO. 83

LATITUDE 93953 N ELEVATION 730.3 BEARING DEPTH 244.0' STARTED 20 Aug /56 COMPLETED 2 Sept /56

DEPARTURE 98050 E SECTION DIP 90° DRILLED BY LOGGED BY R. G. Kenly

DEPTH FEET	FORMATION	CORE RECOVERY From	To	Core Length	SAMPLE NO.	FROM	TO	WIDTH	ASSAYS
0-44.0	Overburden	44.0	46.0	0.8					
44.0-46.0	Quartzite. Moderate to heavy pyrite,	46.0	60.0	1.2					
	trace limonite.	60.0	63.0	1.9					
46.0-67.0	Quartzite. Minor to moderate pyrite.	63.0	65.0	0.8					
	Minor linonite. Moderate thin lenses	65.0	67.0	1.0					
	& criss-crossing vague stringers of	67.0	71.0	1.2					
	siderite.	71.0	73.0	0.4					
67.0-82.5	Quartzite. Chips quartzite, green arg.	73.0	75.0	0.4					
	pyrite, siderite. Brecciated at top	75.0	77.5	0.6					
	of section.	77.5	79.5	0.8					
82.5-97.0	Argillite-green. Minor dark-gray arg.	79.5	81.0	0.4					
	partings. Thin, distorted banding	81.0	84.0	0.6					
	with minor siderite & trace quartz.	84.0	88.0	0.6					
97.0-101.0	Quartzite - dark gray. Moderate thin	88.0	90.0	0.2					
	distorted lenses diderite & dolomite.	90.0	91.0	0					
	97.0-99.0' - intergrading from arg.	91.0	92.0	0.4					
	illaceous quartzite to quartzitic	92.0	93.0	0.6					
	argillite.	93.0	95.0	0.3					

CLAIM NO. .....

DIAMOND DRILL RECORD

PROPERTY ..... Sheet No. 2 ..... HOLE NO. 83

LATITUDE ..... ELEVATION ..... BEARING ..... DEPTH ..... STARTED ..... COMPLETED .....

DEPARTURE ..... SECTION ..... DIP ..... DRILLED BY ..... LOGGED BY .....

DEPTH FEET	FORMATION	CORE RECOVERY From	To	Core Length	SAMPLE NO.	FROM	TO	WIDTH	ASSAYS
101.0-104.0	Argillite-gray green	95.0	97.0	0.3					
104.0-115.0	Quartzitic-moderate to minor ir-	97.0	101.0	1.0					
	regular patches and stringers sid-	101.0	106.0	1.0					
	erite & dolomite. 113.0-114.0' heavy	106.0	109.0	0.8					
	green argillite, 114.8-115.0' - mas-	109.0	112.0	0.9					
	sive pyrite.	112.0	115.0	0.8					
115.0-117.0	Argillite - gray, quartzitic.	115.0	119.0	1.1					
117.0-123.0	Quartzite. Moderate siderite & dolo-	119.0	122.0	0.5					
	mite. Trace pyrite.	122.0	125.0	1.0					
123.0-140.0	Quartzitic. Brecciated appearance.	125.0	120.0	0.6					
	Moderate to heavy black argillite	128.0	132.0	0.2					
	in regular partings, some sliken-	132.0	135.0	0.5					
	sided. Trace pyrite.	135.5	138.0	0.8					
190.0-164.0	Quartzite. Harder than above section.	138.0	140.0	0.8					
	Locally brecciated. Moderate black	140.0	142.0	0.4					
	argillite, siderite, dolomite &	142.0	145.0	2.0					
	pyrite.	145.0	149.5	1.8					
		149.5	151.0	0.7					

CLAIM NO. .....

DIAMOND DRILL RECORD

PROPERTY Sheet No.3 HOLE NO. 83

LATITUDE ..... ELEVATION ..... BEARING ..... DEPTH ..... STARTED ..... COMPLETED .....

DEPARTURE ..... SECTION ..... DIP ..... DRILLED BY ..... LOGGED BY .....

DEPTH FEET	FORMATION	CORE RECOVERY From	To	Core Length	SAMPLE NO.	FROM	TO	WIDTH	ASSAYS
164.0-170.0	Quartzite, Moderate siderite & dolo-	151.0	154.0	1.2					
	mite. heavy pyrite.	154.0	156.5	2.0					
170.0-173.0	Quartzite. Slight brecciated appear-	156.5	160.0	2.3					
	ance at top of section. Moderate	160.0	163.0	1.8					
	pyrite.	163.0	166.5	2.5					
173.0-177.0	Med. Dark gray. Chips of quartzite,	166.5	171.0	4.4					
	argillite, pyrite.	171.0	173.0	0.7					
177.0-186.5	Quartzite. Chips. Larger chips have	173.0	177.0	0.8					
	crushed appearance.	177.0	181.5	0.3					
186.5-199.0	Quartzite. Competent. Minor massive pyrite								
	patches. 190.5-191.0' - gray argil-	181.5	184.0	1.0					
	lite.	184.0	187.5	1.4					
199.0-200.0	Argillite - dark gray. Thin dis-	187.5	192.0	2.3					
	torted lenses dolomite.	192.0	195.0	1.7					
200.0-206.0	Argillite - dark gray, some quartzite	195.0	199.0	1.0					
	trace pyrite.	199.0	202.0	2.2					
206.0-207.0	Quartzite. Fine-grained interforma-	202.0	206.0	1.2					
	tional conglomerate. Minor tale.	206.0	208.0	1.4					
		208.0	211.5	2.8					

CLAIM NO. .....

DIAMOND DRILL RECORD

PROPERTY Sheet No. 4 ..... HOLE NO. 83

LATITUDE ..... ELEVATION ..... BEARING ..... DEPTH ..... STARTED ..... COMPLETED .....

DEPARTURE ..... SECTION ..... DIP ..... DRILLED BY ..... LOGGED BY .....

DEPTH FEET	FORMATION	CORE RECOVERY From	To	Core Length	SAMPLE NO.	FROM	TO	WIDTH	ASSAYS
207.0-244.0	Quartzite. Moderate pyrite in locally	211.5	216.0	0.4					
	heavy massive patches.	216.0	218.0	1.1					
		218.0	222.0	1.0					
	END OF HOLE	222.0	225.0	2.0					
	Length of Hole 244.0	225.0	229.0	3.0					
	Overburden 44.0	229.0	233.5	1.0					
	Rock drilled 200.0	233.5	236.0	1.4					
	Core recovered 69.1	236.0	244.0	0.6					
	% Recovery $\frac{69.1 \times 100}{200.0} = 34.6$								

DIAMOND DRILL RECORD

CLAIM NO. South Nahanni 57564 23 PROPERTY McMillan 95-D-5 HOLE NO. 84 091083

LATITUDE Line 44N ELEVATION 3250 BEARING DEPTH 400' STARTED June 17/68 COMPLETED June 24/68

CORE SIZE: BQ Wireline

DEPARTURE Station 48E SECTION DIP - 90° DRILLED BY LOGGED BY E. Bayley

DEPTH FEET	FORMATION	CORE Recovery	%	SAMPLE NO.	FROM	TO	WIDTH	ASSAYS Zn	Ag	Au
0-98	OVERBURDEN: 0-67 sand; 67-98 gravel									
98-100	Gray to white, mottled quartz-rich zone with argillitic partings 60 to 80 degrees to core. Pyritized fractures 5 to 10 degrees to core. 3" heavy pyrite @ 99.5'	2	100							
100-105	No change to 101'. 101' to 103': black argillitic section with slickensided fractures @ 25 degrees to core, some sericite and graphite on slip planes Quartz veinlets or bands @ 85 and 5 degrees to core. Scattered pyrite on fractures. 103-105: highly fractured pyritized quartz. Massive pyrite along fractures 85-90 and 0-5 degrees to core.	3.7	74							
105-115	Mostly quartz rich bands with massive pyrite on fractures. Some argillitic sections with graphitic slickensides parallel to banding and 80 to 90 degrees to core. 113-115': cave?	6.3	63	7951	104	109		0.01	0.01	0.003
115-165	Dark gray to black carboniferous argillite. Often mylonitic in appearance. Irregular fragments, seams, and veinlets of quartz and feldspar at roughly 30	37.5	75							

CLAIM NO. .....

DIAMOND DRILL RECORD

PROPERTY Sheet No. 2

HOLE NO. 84

LATITUDE ..... ELEVATION ..... BEARING ..... DEPTH ..... STARTED ..... COMPLETED .....

DEPARTURE ..... SECTION ..... DIP ..... DRILLED BY ..... LOGGED BY .....

DEPTH FEET	FORMATION	CORE Recovery	%	SAMPLE NO.	FROM	TO	WIDTH	ASSAYS Zn	Ag	Au
	and 60 degrees to core. Gouge and slickensides	37.5	75							
	with graphite chlorite, and sericite are common.	(above recorded on other page)								
	Bedding often contorted around quartz-feldspatic									
	fragments. Scattered pyrite in quartz veinlets									
	and in some gougey sections.									
165-175	No change to 167.5 then quartz-rich zone with	10	100							
	carboniferous partings and minor pyrite similar									
	to start of hole, to 171.5. Carbonaceous arg.									
	171.5-175'. Heavy pyrite @ 173'.									
175-255	Black carboniferous argillite with numerous	66.6	83	7952	205	210		0.01	0.01	0.003
	graphitic slips and gouge. Fracture planes @ 60,									
	70, & 90 degrees to core. Core broken and gougy									
	205-225. Massive pyrite scattered 205-210, 230-									
	235, & 254 ft.									
255-260	No change to 258.5 then 4" gouge and rock becomes	2.7	54							
	altered to light greenish-gray. Probable fault									
	around 258-259.									
260-280	Pale greenish-gray argillite with green to yellow	18.3	90							

CLAIM NO. .....

DIAMOND DRILL RECORD

PROPERTY Sheet No. 3

HOLE NO. 84

LATITUDE ..... ELEVATION ..... BEARING ..... DEPTH ..... STARTED ..... COMPLETED .....

DEPARTURE ..... SECTION ..... DIP ..... DRILLED BY ..... LOGGED BY .....

DEPTH FEET	FORMATION	CORE Recovery	%	SAMPLE NO.	FROM	TO	WIDTH	ASSAYS Zn	Ag	Au
	shaley partings. Quartz-feldspar fragments, vein-									
	lets, and bands still present at generally high									
	angles to core. Scattered pyrite in quartz-feld-									
	spar veinlets. At 279-280, core becomes black									
	argillite with graphitic slips 60 degrees to core.									
280-290	Black argillite to 282.5 then 2" gouge followed	7.3	73							
	by greenish argillite. 287.5 - 290: Quartz-rich									
	zone with pyritized fractures.									
290-310	Quartz-rich zone to 291.5 followed by black arg.	19	95							
	with qtz-feldspar veinlets or stringers @ 40-50									
	degrees to core. ¼ - ½" feldspar veins at 299-300									
	& 307.5-308. 0-35 degrees to core.									
310-320	Black argillite with quartz-rich zone 312-315	7.4	74	7953	310	315		0.01	0.01	0.003
	containing heavy pyrite along fractures and bounded									
	by gouge at 310.5 & 315.5. Gouge and cave @ 318.5									
	followed by mylonitic black argillite with several									
	pyritized bands.									

CLAIM NO.....

DIAMOND DRILL RECORD

PROPERTY

HOLE NO. 84

LATITUDE ELEVATION BEARING DEPTH STARTED COMPLETED

DEPARTURE SECTION DIP DRILLED BY LOGGED BY

DEPTH FEET	FORMATION	CORE Recovery	%	SAMPLE NO.	FROM	TO	WIDTH	ASSAYS Zn	Ag	Au
320-365	Mostly black argillite with short greenish-gray sections. Gouge at 336.5, 345 ft. Heavy pyrite at 325' & 360'. Some silicification @ 344.5. Alteration and gouge contacts 80 degrees to core. "Mylonitic" at 349 ft.	45	100							
365-375	Greenish argillite with short black sections. Core broken @ 90 degrees to core.	10	100							
375-400	Black argillite with quartz-rich zone 390-397' containing massive pyrite on fractures. Some silication and pyrite @ 380'. Argillite less feldspathic at end of interval.		25	100						
				7954	390	395		0.01	0.01	0.003
	END OF HOLE									
	Total Recovery: 260.8 ft. -- 86.3%									

DIAMOND DRILL RECORD

CLAIM NO. ..... PROPERTY McMillan HOLE NO. 85

LATITUDE Line 52N ELEVATION 3200 ft. BEARING DEPTH 400.0' STARTED June 26,/68 COMPLETED June 29/68

DEPARTURE Sta. 40E SECTION DIP 90° CORE SIZE : BQ Wireline DRILLED BY LOGGED BY E. Bayley

DEPTH FEET	FORMATION	CORE Rec.	%	SAMPLE NO.	FROM	TO	WIDTH	ASSAYS Zn	Ag	Au
0-87	OVERBURDEN									
87-90	Greenish-gray argillite to 87.8 followed by cave and 2½" solid pyrite @ 89'. Pyrite is banded parellel to fissility of the argillitic host rock @ 70 degrees to core. 89-90': black carbonaceous argillite with numerous quartz bands w/ pyrite @ 30 degrees to core.	2	66	7955	88	94		0.01	0.01	0.003
90-130	Black argillite banded with quartz feldspar(?) stringers and veinlets. Somewhat "mylonitic" in places. Frequent pyrite on bedding planes and in gougy slips, 60-90 degrees to core. Silicified zones(quartzite?): 93.7-94.3 ft. 107 ft. & 120-125 ft. Gouge @ 114.8' & 125'.	29.2	73							
130-180	Black argillite to 134.5 followed by gouge & 4" massive pyrite which retains fissility of argillite. Quartz-rich to 137' followed by pyritized gouge to 140' with quartz fragments in dark clay matrix. Pyrite d148-150 followed by 6" gouge.	34.0	68	7956	134	140		0.01	0.01	0.003
				7957	140	145		0.01	0.03	0.003
				7958	145	150		0.01	0.02	0.003

CLAIM NO. .....

DIAMOND DRILL RECORD

PROPERTY

HOLE NO. 85

LATITUDE ..... ELEVATION ..... BEARING ..... DEPTH ..... STARTED ..... COMPLETED .....

DEPARTURE ..... SECTION ..... DIP ..... DRILLED BY ..... LOGGED BY .....

DEPTH FEET	FORMATION	CORE Recovery %	SAMPLE NO.	FROM	TO	WIDTH	ASSAYS Zn	Ag	Au
	150-180: medium gray feldspathic argillite becoming silicified into quartzite with frequent pyrite. Limestone appearing at 178.5.								
180-200	Gray limestone and limy gray argillite. Banding 40-60 degrees to core. Some quartzite with pyrite	18.1 90	•						
	park argillite at 199.5 with qtz. bands and minor pyrite.								
200-250	Gray to black mottled argillite with frequent stringers and bands of quartz. Banding generally 60 to 90 degrees to core. Quartzitic from 200-210. heavy pyrite & gouge @ 207, 215, 219.5, 228-230, & 247 (w/ qtz.).	38.2 76.4							
250-300	No significant change to 266 then becoming quartzitic w/massive pyrite on fractures & in quartz veinlets @ 30 degrees to core. Fracture set @ 5 degrees to core visible in quartz-rich rx. (fracture cleavage?). Mass. py. seams @ 60 degrees at 275.5, 276.5 & 278 ft. Greenish alteration 280-285 with	45.3 90.6	7959	275	280		0.01	0.03	0.003

CLAIM NO. .....

DIAMOND DRILL RECORD

PROPERTY Sheet No. 3

HOLE NO. 85

LATITUDE ..... ELEVATION ..... BEARING ..... DEPTH ..... STARTED ..... COMPLETED .....

DEPARTURE ..... SECTION ..... DIP ..... DRILLED BY ..... LOGGED BY .....

DEPTH FEET	FORMATION	CORE Recovery	%	SAMPLE NO.	FROM	TO	WIDTH	ASSAYS Zn	Ag	Au
	gouge. 285-300: mostly black argillite w/ some qtz. banding.									
300-310	No significant change: black argillite with sccattered pyrite. Some greenish alteration @ 308.	7.5	75							
310-360	No change to 311.5 then gray to green mottled quartzite with argillitic partings. Massive pyrite 318.8-319.2 (in gray siliceous gangue),331-332, 332.5, 347, 354-355, & 357. Fracture sets at 5, 30, & 85 degrees to core.	37.0	74	7960	330	335		0.01	0.01	0.003
360-375	Greenish-gray pyritized argillite and quartzite Heavy pyrite & gouge: 362-364. Smeared pyrite in slickenside @ 369' (slicks trend obliquely across plane @ 60 degrees to core.) Dark argillite 370-372.5'.	11.5	77							
375-400	Mostly dark carbonaceous argillite becoming siliceous at end of interval. Gouge at 383.5-384, 388 (40 degrees to core),393-394, & 397-398 (50 de-	23.0	92							

CLAIM NO. .....

DIAMOND DRILL RECORD

PROPERTY Sheet No. 4

HOLE NO. 85

LATITUDE ..... ELEVATION ..... BEARING ..... DEPTH ..... STARTED ..... COMPLETED .....

DEPARTURE ..... SECTION ..... DIP ..... DRILLED BY ..... LOGGED BY .....

DEPTH FEET	FORMATION	CORE Recovery %	SAMPLE NO.	FROM	TO	WIDTH	ASSAYS Zn	Ag	Au	
	grees to core). Pyritized quartzite 389-395,									
	& 399-400.		7961	390	395		0.01	0.05	0.003	
				SLUDGE SAMPLES FROM OVERBURDEN:						
							Total Pb	Total Zn	Au	Ag
	END OF HOLE									
	Total Recovery: 245.8 ft. or 78.5%			45'	50'		13	160		
				50'	55'		60	125		
				55'	60'		18	91		
				60'	65'		19	100		

South Nahanni 17 57558 95 L-5

DIAMOND DRILL RECORD

CLAIM NO. ..... PROPERTY McMillan HOLE NO. 86

LATITUDE Line 52N ELEVATION 3240 BEARING ° DEPTH 340.0' STARTED June 30/68 COMPLETED July 2/68

CORE SIZE: BQ Wireline

DEPARTURE Station 32-50E SECTION DIP 90 DRILLED BY LOGGED BY E. Bayley

DEPTH FEET	FORMATION	CORE Recovery %	SAMPLE NO.	FROM	TO	WIDTH	ASSAYS
0-122	OVERBURDEN						
122-135	Light gray to lime-green argillite and gray quartz-ite with scattered pyrite. Bedding planes 70 deg. to core. Core very broken.	4.0 30.7					
135-145	Alternating bands of gray and green argillite at 20 degrees to core. ¼ - ½" veinlets of pyrite in grey argillite at 60-70 degrees to core. At 144 core becomes mostly light green argillite with a pinkish tinge in narrow bands. Some minor gouge and pyrite.	4.8 48					
145-155	Light green argillite with ⅛ to ½ in. bands of pinkish alteration at 35 degrees or less to core. Minor pyrite veinlets. Core very gougey 152-155, pinkish alteration decreasing at 155.	5.6 56					
155-160	No change to 157.5 then core becmmes black, carboniferous, gougey argillite with quartz fragments (lenses?) at 30-40 degrees to core. Scattered pyrite.	3.8 76					
160-185	2" gray pryitized quartz followed by dark gray to black gouge with quartz pebbles. No core 164-169.	11.1 44.4					

CLAIM NO. .....

DIAMOND DRILL RECORD

PROPERTY Sheet No. 2

HOLE NO. 86

LATITUDE ELEVATION BEARING DEPTH STARTED COMPLETED

DEPARTURE SECTION DIP DRILLED BY LOGGED BY

DEPTH FEET	FORMATION	CORE Recovery	%	SAMPLE NO.	FROM	TO	WIDTH	ASSAYS
	Pyritized quartzitic gouge & blue clay @ 175 followed by pyritized gray quartzite (8") and gray to black quartzitic gouge with argillitic partings. Heavy pyrite at 179, 180-181			7993	178	185-(?)		Pending
185-195	Yellowish green argillitic and quartzitic gouge with quartz pebbles and scattered pyrite to 192.8. 192.8-194: Dark green, serpentinized (?) ultra-basic dike; non-magnetic; contact at 194 ft. is 20-25 degrees to core. 194-195: yellow green gouge with dike fragments. Banding in gouge is 60 degrees to core.	7.9	79					
195-200	Yellow green argillitic gouge to 196 followed by black pyritized argillitic gouge with qtz. bsnds to199. 199-200: broken pieces of quartzite.	4.1	82					
200-220	Mostly broken pieces of quartz with some black pyritized gougey argillite partings. Massive pyrite @ 216.0-216.2							
220-260	Gougey black argillite and black carboniferous	19.8	49.5					

CLAIM NO.

DIAMOND DRILL RECORD

PROPERTY Sheet No. 3

HOLE NO 86

LATITUDE | ELEVATION | BEARING | DEPTH | STARTED | COMPLETED

DEPARTURE | SECTION | DIP | DRILLED BY | LOGGED BY

DEPTH FEET	FORMATION			SAMPLE NO	FROM	TO	WIDTH	ASSAYS
	argillite with quartz bands at 60 degrees to core. Occasional pyritization. Massive pyrite 232-233.			OVERBURDEN SLUDGE SAMPLES :				Total (ppm) Zn / Total Pb (ppm)
260-275	Light and dark gray quartzite with banding at 60 degrees to core. Gougey with pyrite @ 267 & 273.	9.5	63.3	$)40	45		125	5
					45	50	75	12
	Argillitie partings at 272 @ 30 degrees to core.				50	55	162	12
275-300	Black gougey argillite with quartzite bands and scattered pyrite. Banding parallel to core @ 283 & 296 feet. Fissility at 290-295 is 10-20 degrees to core where seen.	11.6	46.4		55	60	150	7
					60	65	125	7
					65	70	112	5
					70	75	107	5
300-340	Gougey black argillite and scattered quartzite. No core 307-315, & 320-327. 1.8 ft. of black gauge at the end of interval.	5.3	13.2		75	80	90	7
					80	85	125	7
					85	90	71	7
	END OF HOLE				90	95	75	7
	Total Recovery: 89.5 feet or 41.4%				95	100	117	8
					100	105	150	12
					105	110	125	12
					110	115	125	23

CLAIM NO. .....

DIAMOND DRILL RECORD

PROPERTY McMillan

HOLE NO. 87

LATITUDE Line 60 N. | ELEVATION | BEARING | DEPTH | STARTED July 4/68 | COMPLETED July 5/68

DEPARTURE Station 41 E. | SECTION | DIP | DRILLED BY | LOGGED BY E. Bayley

DEPTH FEET	FORMATION	SAMPLE NO.	FROM	TO	WIDTH	ASSAYS
	Started on July 4, 1968 and stopped at 225 feet on July 5th.					
	No bedrock encountered. Overburden mostly sand with some gravel layers. Hole stopped due to lack of additional casing. I.P. anomaly probably in overburden.					

CLAIM NO. .....

DIAMOND DRILL RECORD

PROPERTY McMillan

HOLE NO. 88

LATITUDE Line 76 N. ELEVATION ..... BEARING ..... DEPTH ..... STARTED July 7/68 COMPLETED ---

DEPARTURE Station 16 E. SECTION ..... DIP ..... DRILLED BY ..... LOGGED BY E. Bayley

DEPTH FEET	FORMATION	SAMPLE NO.	FROM	TO	WIDTH	ASSAYS	
						Total Zn (ppm)	Total Pb (ppm)
	Started on July 7, 1968 and abandoned at 177 feet on July 9th.		OVERBURDEN SLUDGE SAMPLES				
	No bedrock encountered. Overburden sandy to 140 then gravel		40	45		500	625
	and blue clay. Hole stopped due to severe caving and mud loss.		45	50		438	865
	I. P. anomaly unexplained.		50	55		338	388
			55	60		325	625
			60	65		262	485
			65	70		182	375
			70	75		300	400
			75	80		275	300
			100	105		2312	163
			150	155		168	29
			155	160		125	22
			160	165		125	33
			165	170		168	25

CLAIM NO. .....

DIAMOND DRILL RECORD

PROPERTY McMillan

HOLE NO. 89

LATITUDE 33-85S, 0-88 W (150 ft. east of DDH 68) ELEVATION 3592 ft. (as- suming datum of 3600 ft. @ DDH 68) BEARING DEPTH 300.0' STARTED July 11, 1962 COMPLETED July 13, 1968

DEPARTURE SECTION DIP -90° DRILLED BY CORE SIZE: EQ Wireline LOGGED BY E. Bayley

DEPTH FEET	FORMATION	CORE Recovery	%	SAMPLE NO	FROM	TO	WIDTH	ASSAYS Cu	Pb	Zn	Ag	Au	Antimony
0-22	Overburden	26.1	66										
22-60	Medium gray limestone with frequent limy black arg. partings at 40-45 degrees to core. Some vuggy calcite stringers at 0-10 degrees to core. 6" black argillite @ 44.5-45.0 Ft.												
60-70	No change to 68. Two feet of brown to white carbonate (siderite?) with stylolitic veinlets carrying pyrite and possible gray mineral.	8.8	88	8042	65	70		a) 0.01 b) 0.01	a) 0.01 b) 0.10	a) 0.003 b) 0.01			
70-90	Gray to black limestone with narrow bands of brown to white carbonates and black argillite with calcite and limestone fragments. Prominent black & white banding at 84-85.6 ft. @ approx. 40° to the core.	15.6	78	8051 (Should follow Sample # 8043 on 2nd sheet)	140	145		a) 0.03 b) 0.02	a) 0.01 b) 0.64	a) 0.003 b) 0.01			
				8552	75	80		a) 0.01 b) 0.01	a) 0.01 b) 0.09	a) 0.003 b) 0.01			
90-115	Black graphitic (?) argillite (limy) with narrow bands of calcite and limestone fragments at 40° to core, increasing toward end of interval.	16.1	64.5	8553	80	85		a) 0.01 b) 0.01	a) 0.01 b) 0.07	a) 0.003 b) 0.01			
				8554	85	90		a) 0.01 b) 0.01	a) 0.01 b) 0.04	a) 0.003 b) 0.01			
				8555	90	95		a) 0.01 b) 0.01	a) 0.01 b) 0.03	a) 0.003 b) 0.01			

DIAMOND DRILL RECORD

CLAIM NO. ..... PROPERTY Sheet No. 2 HOLE NO. 89

LATITUDE ELEVATION BEARING DEPTH STARTED COMPLETED

DEPARTURE SECTION DIP DRILLED BY LOGGED BY

DEPTH FEET	FORMATION	CORE Recovery	%	SAMPLE NO.	FROM	TO	WIDTH	ASSAYS Cu/Pb	Zn/Ag	Au/Sb
115-125	Gray to black limestone and argillite to 124. 124-	7.4	74	8556	95	100		a) 0.01	a) 0.01	a) 0.003
								b) 0.01	b) 0.01	b) 0.01
	125: white quartzite with heavy coarse pyrite &									
	traces of gray mineral. Pyritized section @ 40-			8046	100	105		a) 0.01	a) 0.01	a) 0.003
								b) 0.01	b) 0.04	b) 0.01
	50 degrees to core. Heavy gray mineral kin yellow-									
	white limestone inclusion @ 117.5			8047	105	110		a) 0.01	a) 0.01	a) 0.003
								b) 0.01	b) 0.05	b) 0.01
125-150	Pyritized quartzite to 125.8 followed by gray	20.4	81.6							
	argillite with dolomitized limestone or limey			8048	110	115		a) 0.01	a) 0.01	a) 0.003
								b) 0.01	b) 0.05	b) 0.01
	quartzite fragments. Scattered pyrite, massive									
	at 131.5, 132.5, 139, & 144 ft. Traces of gray			8049	115	120		a) 0.01	a) 0.01	a) 0.003
								b) 0.23	b) 0.17	b) 0.01
	mineral.									
150-200	Gray to black argillite with narrow quartzite	29.1	58.2	8050	120	125		a) 0.01	a) 0.01	a) 0.003
								b) 0.92	b) 0.17	b) 0.05
	bands and frequent massive pyrite. Greenish al-									
	teration at 180, 173, 192-200. Banding at 40-50			8043	125	130		a) 0.01	a) 0.01	a) 0.003
								b) 0.02	b) 0.07	b) 0.01
	degrees to core. Gray mineral (Jamesonite?) in									
	qtz. veinlet at 156.5 @ 60 degrees to core and			8044	130	135		a) 0.04	a) 0.01	a) 0.003
								b) 0.13	b) 0.10	b) 0.03
	in ½" seam at 195. Massive pyrite at 165, 174-175,									
	& 193. Gouge at 175.5 and 196-196.6 ft.			8045	135	140		a) 0.04	a) 0.01	a) 0.003
								b) 0.10	b) 0.58	b) 0.01
200-225	No change: dark gray argillite with massive pyrite	18.7	74.5							

CLAIM NO.

DIAMOND DRILL RECORD

PROPERTY

HOLE NO. 89

LATITUDE | ELEVATION | BEARING | DEPTH | STARTED | COMPLETED

DEPARTURE | SECTION | DIP | DRILLED BY | LOGGED BY

DEPTH FEET	FORMATION	CORE Recovery %	SAMPLE NO	FROM	TO	WIDTH	ASSAYS Cu/Pb	Zn/Ag	Au/~~Pt~~ Sb
	at 60° to core. 2" quartzite at 223 ft. (Note: This should be on page 2 in place of # 8051)		8551	70	75		0.01 0.01	0.01 0.11	0.003 0.01
225-250	Mostly gray to black argillite with greenish alteration at 238, 241-242, & 248-250. Pyritized vuggy quartzite 226-228. Frequent pyritized bands often with quartz gangue at 70-80 degrees to core.		8052	145	150		0.05 0.13	0.01 0.76	0.003 0.01
			8053	150	155		0.01 0.01	0.01 0.03	0.003 0.01
250-300	Light grayish green argillite with pinkish tinge in places. Banding at 90° to core. Scattered massive crystalline pyrite to 254. Traces of pyrite through rest of interval. Occasional quartzite. 1" gouge @ 294. 2" pyritized quartzite at 295.	35.4 70.8	8054	155	160		0.01 0.02	0.01 0.04	0.003 0.01
			8055	160	165		0.01 0.01	0.01 0.03	0.003 0.01
			8056	165	170		0.01 0.01	0.01 0.03	0.003 0.01
			8057	170	175		0.01 0.01	0.01 0.03	0.003 0.01
	END OF HOLE		8058	175	180		0.01 0.01	0.01 0.06	0.003 0.01
	Total recovery: 188.9 ft. or 67.9%		8059	180	185		0.01 0.01	0.01 0.02	0.003 0.01
			8060	185	190		0.01 0.01	0.01 0.01	0.003 0.01

CLAIM NO. .....

DIAMOND DRILL RECORD

PROPERTY Sheet No. 4

HOLE NO. 89

LATITUDE | ELEVATION | BEARING | DEPTH | STARTED | COMPLETED

DEPARTURE | SECTION | DIP | DRILLED BY | LOGGED BY

DEPTH FEET	FORMATION	SAMPLE NO.	FROM	TO	WIDTH	ASSAYS Cu/Pb	Zn/Ag	Au/~~Ag~~Sb
		8061	190	195		0.05	0.01	0.003
						0.01	0.64	0.01
		8062	195	200		0.08	0.01	0.003
						0.01	0.88	0.01
		8063	200	205		0.01	0.01	0.003
						0.01	0.04	0.01
		8064	205	210		0.01	0.01	0.003
						0.01	0.03	0.01
		8065	210	215		0.01	0.01	0.003
						0.01	0.04	0.01
		8066	215	220		0.01	0.01	0.003
						0.01	0.04	0.01
		8067	220	225		0.01	0.01	0.003
						0.01	0.03	0.01
		8068	225 ~~0.01~~	230		0.01	0.01	0.003
						0.01	0.03	0.01
		8069	230	235		0.01	0.01	0.003
						0.01	0.04	0.01

CLAIM NO.....

DIAMOND DRILL RECORD

PROPERTY Sheet No. 5

HOLE NO. 89

LATITUDE | ELEVATION | BEARING | DEPTH | STARTED | COMPLETED

DEPARTURE | SECTION | DIP | DRILLED BY | LOGGED BY

DEPTH FEET	FORMATION	SAMPLE NO.	FROM	TO	WIDTH	ASSAYS Cu/Pb	Zn/Ag	Au/~~Ag~~ Sb
		8070	235	240		0.01	0.01	0.003
						0.01	0.04	0.01
		8071	240	245		0.01	0.01	0.003
						0.01	0.02	0.01
		8072	245	250		0.01	0.01	0.003
						0.01	0.03	0.01
		8073	250	255		0.01	0.01	0.003
						0.01	0.02	0.01
		8074	255	260		0.01	0.01	0.003
						0.01	0.02	0.01

DIAMOND DRILL RECORD

CLAIM NO. ..... PROPERTY McMillan HOLE NO. 90

CORE SIZE: BQ Wireline

LATITUDE 32-10S, ELEVATION 3622 ft. BEARING DEPTH 400.0' STARTED July 15/68 COMPLETED July 17/68

(assuming elevation of 3600 ft. at DDH 68)

DEPARTURE 1-84 W SECTION DIP -90° DRILLED BY LOGGED BY E. Bayley

DEPTH FEET	FORMATION	CORE Recovery	%	SAMPLE NO.	FROM	TO	WIDTH	ASSAYS Cu/Pb	Zn/Ag	Au/Sb
0-56	Overburden									
56-100	Pink to purple argillite with greenishsections. Banding at 50° to core. Scattered pyrite often	25.1	57	8075	85	90		0.01 0.02	0.01 0.02	0.003 0.01
	smeared along bedding slip planes. Frequent			8076	90	95		0.01 0.01	0.01 0.03	0.003 0.01
	microfolding with axial planes parallel to core. Some massive pyrite towards end of interval. Minor			8077	95	100		0.01 0.01	0.01 0.04	0.003 0.01
	gray mineral 89-100 with pyrite & quartz.							Au	Ag	Cu / Pb/Zn
100-111	Massive pyrite with crystals and blebs of silver-	2.5	22.7	7994	100	105		trace	trace	0.02 / 0.93 0.01
	white mineral (arsenopyrite?) and dark-gray sectile mineral (jamesonite?). Quartzitic gangue			7995	105	111		0.02	trace	0.03 / 0.19 0.02
	with a few graphitic slips @ 70-80 degrees to core. Missing core.									
111-117	Massive pyrite in siliceous gangue as above with	4.6	76.6	7996	111	117		0.01	0.40	0.10 / 5.71 0.05
	3" solid gray mineral at 116.8, with dark brown to black carbonate. A few argillite partings at 20 degrees to core.									
117-122	1" massive gray mineral at 117 followed by 2 ft. of yellow-brown to white carbonate(siderite &	4.1	82							

DIAMOND DRILL RECORD

PROPERTY Sheet No. 2 HOLE NO. 90

CLAIM NO. ..... ELEVATION ..... BEARING ..... DEPTH ..... STARTED ..... COMPLETED .....

LATITUDE ..... SECTION ..... DIP ..... DRILLED BY ..... LOGGED BY .....

DEPARTURE ..... FORMATION ..... CORE Recovery %

DEPTH FEET	FORMATION	CORE Recovery %		SAMPLE NO.	FROM	TO	WIDTH	ASSAYS Au	Ag	Cu	Pb/Zn
	calcite?) and 3 feet of limey quartzite. Several			7997	117	122		0.02	0.41	0.05	7.36 0.02
	½" stringers of gray mineral in carbonate at 60 de-										
	grees to core. Gray mineral with pyrite in styo-										
	litic fractures and as fracture coatings at 40										
	degrees to core.										
122-127	Gray to buff to white (often banded) limey	3.1	62	7998	122	127		0.02	0.40	0.13	7.01 0.02
	(dolomitized) quartzite (or Ls?) with several										
	1-2" stringers of gray mineral. Also gray mineral										
	with pyrite scattered throughout section on fractures										
	and bedding planes. Some green chlorite (?) on										
	fractures.										
127-133	No change: limey gray quartzite or limestone with	2.4	40	7999	127	133		trace	trace	0.01	1.15 0.03
	scattered gray minerals and pyrite.										
133-142	Gray fissile limey argillite and black limestone	5.8	72.2	8000	133	137		trace	trace	0.02	0.19 0.03
	with some limey quartzite. Traces of gray mineral										
	to 139. Some pyrite bands at 60 degrees to core.			8041	137	142		trace	trace	0.03	0.22 0.02
	Massive pyrite with quartz "eyes" 139-142, vuggy										
	in places.										
142-155	Gray quartzite with black argillite partings be-	11.0	84.6								

DRILL RECORD PROPERTY Sheet No. 3 HOLE NO. 80(ninety)

LATITUDE ELEVATION BEARING DEPTH STARTED COMPLETED

DEPARTURE SECTION DIP DRILLED BY LOGGED BY

DEPTH FEET	FORMATION	SAMPLE NO.	FROM	TO	WIDTH	ASSAYS Cu/Pb	Zn/Ag	Au/Sb
	coming light gray-green argillite with quartzite	8078	142	145		0.01	0.01	0.003
	bands. Banding at 60 degrees to core & fractures					0.02	0.08	0.01
	at 40-45 degrees to core. Heavy pyrite to 143 ft.	8079	145	150		0.01	0.01	0.003
	scattered to 150.5 and heavy at 150.5 and 151.					0.01	0.02	0.01
	Scattered carbonates in hairline veinlets.	8080	150	155		0.01	0.02	0.003
155-200	Dark argillite becoming gray to green at 165' 28.2 62.6					0.16	0.05	0.01
	Frequent pyrite veinlets and quartz bands. Banding	8081	155	160		0.01	0.01	0.003
	is 30 degrees to core at 160' & 60 degrees at 185'					0.01	0.07	0.01
	Massive pyrite at 157, 160, 168, 169, 170, 181,	8082	160	165		0.01	0.01	0.003
	187.5, 188-189, & 195 feet. Visible gray sulfide					0.10	0.06	0.01
	minerals at 162, 167, 170 193.5, 194, & 198 ft.	8083	165	170		0.01	0.01	0.003
	Fracturing at 167 feet is at 0, 40, & 90 degrees					0.20	0.05	0.01
	to core. Pinkish alteration @ 183-184 feet.	8084	170	175		0.01	0.01	0.003
200-250	Green argillite to 201 followed by mottled gray 44.7 89.4					0.02	0.02	0.01
	quartzite with frequent patches and partings of	8085	175	180		0.01	0.01	0.003
	argillite. Frequent pyrite seams at 40 to 60					0.01	0.03	0.01
	degrees to core. Scattered visible gray mineral	8086	180	185		0.01	0.01	0.003
	and silver-white sulfide. Argillite partings &					0.01	0.03	0.01
		8087	185	190		0.01	0.01	0.003
						0.01	0.07	0.01

CLAIM NO. .....

DIAMOND DRILL RECORD

PROPERTY Sheet No. 4

HOLE NO. 90

LATITUDE | ELEVATION | BEARING | DEPTH | STARTED | COMPLETED

DEPARTURE | SECTION | DIP | DRILLED BY | LOGGED BY

DEPTH FEET	FORMATION	CORE Recovery %		SAMPLE NO.	FROM	TO	WIDTH	ASSAYS Cu/Pb	Zn/Ag	Au/Au
	banding at 50 degrees to core. Gougey quartzite			8088	190	195		0.02	0.01	0.003
	with pyrite at 210-210.5, & 227.5-228.5. Occas-							0.02	0.25	0.01
	ional vuggy veinlets with crystals of pyrite,			8089	195	200		0.01	0.01	0.003
	gray mineral, and silver-white sulfide.							0.13	0.06	0.01
250-300	No change: gray quartzite with frequent black	47.4	94.8	8090	200	205		0.01	0.01	0.003
	argillite partings. Banding at 40-50 degrees to							0.06	0.12	0.01
	core. Heavy to massive pyrite at 259.8, 262-263, 266			8091	205	210		0.01	0.01	0.003
	-266.5, 267, 269, 271.7, 276.5-277, 281-281.5 &							0.01	0.01	0.01
	297.5. Pyrite is scattered throughout most of			8092	210	215		0.01	0.01	0.003
	interval. Visible gray minerals at 251.5, 259.8,							0.02	0.04	0.01
	271.7, 277 (galena), 288, 289, 291.5, 292(massive,			8093	215	220		0.03	0.01	0.003
	hackley mineral --possibly different from others-							0.01	0.09	0.01
	tetrahedrite?). Gougey at 262-3, & 265.			8094	220-225			0.01	0.01	0.003
300-335	No change to 311, then pyritized gray to black	32.6	93.1					0.01	0.04	0.01
	argillite with banding at 60 to 80 degrees to			8095	225	230		0.01	0.01	0.003
	core. Some quartzite bands and fragments present.							0.01	0.10	0.01
	Heavy pyrite at 302-305, 308-310, 311-311.5,			8096	230	235		0.06	0.01	0.003
	314, 325-330 (scattered), and 334-335. Traces of							0.01	0.10	0.02
				8097	235	240		0.01	0.01	0.003
								0.01	0.03	0.01

DIAMOND DRILL RECORD

PROPERTY | Sheet No. 5 | HOLE NO. 90

LATITUDE | ELEVATION | BEARING | DEPTH | STARTED | COMPLETED

DEPARTURE | SECTION | DIP | DRILLED BY | LOGGED BY

DEPTH FEET	FORMATION	CORE Recovery %		SAMPLE NO.	FROM	TO	WIDTH	ASSAYS Cu/Pb	Zn/Ag	Au/Pt
	gray mineral at 302 and 325 (the latter in quartz			B098	240	245		0.01	0.01	0.003
	veinlet @ 10 degrees to core.).							0.01	0.21	0.01
335-385	Green argillite with white pyritized quartzite	36.8	73.6	B099	245	250		0.01	0.01	0.003
	bands to 360 followed by black argillite to 363							0.01	0.03	0.01
	then green to 377. Mottled gray quartzite 377 to			B100	250-255			0.03	0.01	0.003
	382. Gougey contacts. Massive to heavy pyrite at							0.01	0.44	0.01
	339.5-340, 349, 353.5, 374-375, & 384-385. Band-			B557	255	260		0.01	0.01	0.003
	ing and fissility at 40-60 degrees to core. Gouge							0.01	0.03	0.01
	at 335.5, 362-365, 378, & 383.5-384. Traces of			B558	260	265		0.01	0.01	0.003
	gray mineral at 354 (?), 365-370(?), & 374-375(?).							0.01	0.03	0.01
385-400	Mottled gray quartzite and argillite to 390. 390-400:			B559	265	270		0.01	0.01	0.003
	black graphitic argillite with white quartz bands at							0.01	0.04	0.01
	40 degrees to core. Massive pyrite at 387 & 388-389.			B560	270	275		0.05	0.01	0.003
	Minor scattered pyrite 390-400. No visible gray	12.8	85.3					0.05	01.62	0.01
	mineral.			B561	275	280		0.01	0.01	0.003
	END OF HOLE							0.49	0.17	0.01
				B562	280	285		0.01	0.01	0.003
	Total Recovery 261.3 feet or 75.9%							0.16	0.09	0.01
				B563	285	290		0.01	0.02	0.003
								0.02	0.03	0.01

DIAMOND DRILL RECORD

CLAIM NO. ..... PROPERTY Sheet No. 6 HOLE NO. 90

LATITUDE ELEVATION BEARING DEPTH STARTED COMPLETED

DEPARTURE SECTION DIP DRILLED BY LOGGED BY

DEPTH FEET	FORMATION	SAMPLE NO.	FROM	TO	WIDTH	ASSAYS Cu/Pb	Zn/Ag	Au/~~Ag~~ Pb
		8564	290	295		0.10	0.01	0.003
						0.97	0.15	0.02
		8565	295	300		0.01	0.01	0.003
						0.02	0.03	0.01
		8566	300	305		0.01	0.01	0.003
						0.10	0.07	0.01
		8567	305	310		0.01	0.01	0.003
						0.01	0.04	0.01
		8568	310	315		0.01	0.01	0.003
						0.01	0.02	0.01
		8569	315	320		0.01	0.01	0.003
						0.01	0.02	0.01
		8570	320	325		0.01	0.01	0.003
						0.01	0.01	0.01
		8571	325	330		0.01	0.01	0.003
						0.13	0.01	0.01
		8572	330	335		0.01	0.01	0.003
						0.01	0.01	0.01
		8573	335	340		0.01	0.01	0.003
						0.02	0.01	0.01

CLAIM NO. .....

DIAMOND DRILL RECORD

PROPERTY Sheet No. 7 HOLE NO. 90

LATITUDE ELEVATION BEARING DEPTH STARTED COMPLETED

DEPARTURE SECTION DIP DRILLED BY LOGGED BY

DEPTH FEET	FORMATION	SAMPLE NO.	FROM	TO	WIDTH	ASSAYS Cu/Pb	Zn/Ag	Au/Ag	Sb
		8574	340	345		0.01	0.01	0.003	
						0.01	0.01	0.01	
		8575	345	350		0.01	0.01	0.003	
						0.01	0.01	0.01	
		8576	350	355		0.01	0.01	0.003	
						0.01	0.02	0.01	
		8577	355	360		0.01	0.01	0.003	
						0.01	0.01	0.01	
		8578	360	365		0.01	0.01	0.003	
						0.01	0.01	0.01	
		8579	365	370		0.01	0.01	0.003	
						0.01	0.01	0.01	
		8580	370	375		0.01	0.01	0.003	
						0.01	0.02	0.01	
		8581	375	380		0.01	0.01	0.003	
						0.01	0.31	0.01	
		8582	380	385		0.04	0.01	0.003	
						0.01	1.02	0.01	
		8583	385	390		0.01	0.01	0.003	
						0.01	0.10	0.01	

CLAIM NO.

DIAMOND DRILL RECORD

PROPERTY Sheet No. 8

HOLE NO. 90

LATITUDE | ELEVATION | BEARING | DEPTH | STARTED | COMPLETED

DEPARTURE | SECTION | DIP | DRILLED BY | LOGGED BY

DEPTH FEET	FORMATION	SAMPLE NO.	FROM	TO	WIDTH	ASSAYS Cu/Pb	Zn/Ag	Au/[illegible]
		8584	390	395		0.01	0.01	0.003
						0.01	0.03	0.01
		8585	396	400		0.01	0.01	0.003
						0.01	0.04	0.01

CLAIM NO. .....

DIAMOND DRILL RECORD

PROPERTY McMillan

HOLE NO. 91

LATITUDE Line 8S | ELEVATION 3525 ft. | BEARING | DEPTH 400.0' | STARTED July 21/68 | COMPLETED July 24/68

DEPARTURE Station 10W | SECTION | DIP -90degrees | CORE SIZE: BQ Wireline | DRILLED BY | LOGGED BY R. J. Trimble & E. Bayley

DEPTH FEET	FORMATION	CORE Recovery	%	SAMPLE NO.	FROM	TO	WIDTH	ASSAYS Cu/Pb	Zn/Ag	Au/~~Pt~~ Se
0-122	Overburden									
122-150	Gray to black limestone and limey argillite with green argillite sections at 129-133 & 139 feet. Frequent calcite and quartzite. Banding at 60 degrees to core. Narrow fault gouge at 130, 133.2, 140, and 145: 30 & 60 degrees to core. Scattered pyrite.	20.4	72.8	8586	205	210		0.01 0.02	0.02 0.04	0.003 0.01
				8587	215	220		0.01 0.06	0.01 0.04	0.003 0.01
				8588	220	225		0.01 0.13	0.01 0.05	0.003 0.01
150-200	Black to gray argillite with frequent calcite and narrow quartz banding. Narrow graphitic slip planes and gouge seams 20-40 degrees to core. Limey quartzite with gouge & pyrite at 192.5 ½" gouge seam at 199. 20 degrees to core. Minor to moderate pyrite.	36.9	73.8							
200-235	Gray argillite as above with increasing quartzite and calcite at 206. Heavy quartz, calcite, and siderite from 206-224. Green argillite 225-230 becoming gray with minor carbonate at 235. Traces of gray mineral (galena) in narrow veinlets at	29.0	82.8							

CLAIM NO. ....

DIAMOND DRILL RECORD

PROPERTY Sheet No. 2

HOLE NO. 91

LATITUDE | ELEVATION | BEARING | DEPTH | STARTED | COMPLETED

DEPARTURE | SECTION | DIP | DRILLED BY | LOGGED BY

DEPTH FEET	FORMATION	CORE Recovery %	SAMPLE NO	FROM	TO	WIDTH	ASSAYS Cu/Pb	Zn/Ag	Au/Pt	Sb
	203, 207, 216, 220 & 224. Possible sphalerite in		8589	240	245		0.01	0.01	0.003	
							0.06	0.05	0.01	
	places. Gouge seams at 208.6, 210.6, & 221.5;									
	at 40 degrees to core. Scattered pyrite.		8590	245	250		0.01	0.01	0.003	
							0.01	0.03	0.01	
235-270	Black argillite becoming quartzitic at 236 followed 31.6	87.4								
	by green argillite with pinkish tinge at 241.5.		8591	250	255		0.01	0.01	0.003	
							0.01	0.02	0.01	
	Green argillite with pink alteration becomes									
	progressively more quartzitic toward 260. From		8592	255	260		0.01	0.01	0.003	
							0.01	0.03	0.01	
	260 to 270 core is mostly gray to white mottled									
	quartzite with minor argillite partings. Scat-		8593	260	265		0.01	0.01	0.003	
							0.01	0.03	0.01	
	tered minor gray mineral is visible from 240 to									
	270. Gouge seams at 239, 241.5, 243, 245, 249-		8594	265-	270		0.01	0.01	0.003	
							0.02	0.03	0.01	
	249.5, 266, 270, & 274. Scattered pyrite.									
270-300	Mostly black argillite with gray to white quartz-	24.1 80.3								
	ite bands. Heavy graphitic fractures in places									
	at 60 & 80-90 degrees to core. Gouge at 270-270.8,									
	273-273.5, 274.5-278, 280-282, 294-296, & 297-299.									
	Scattered pyrite and some siderite.									
300-350	Mostly gray to black argillite and quartzite with	38.9 77.8								

DIAMOND DRILL RECORD

CLAIM NO. ..... PROPERTY Sheet No. 3 HOLE NO. 91

LATITUDE ELEVATION BEARING DEPTH STARTED COMPLETED

DEPARTURE SECTION DIP DRILLED BY LOGGED BY

DEPTH FEET	FORMATION	SAMPLE NO.	FROM	TO	WIDTH	ASSAYS Cu/Pb Zn/Ag Au/At.
	some green argillite from 307-320. Gouge at 302-308,					
	320 (@ 70 degrees to core), 334-338, & 340-341.6.					
	Greenish alteration generally associated with faults.					
	Scattered massive pyrite and graphite. Banding at					
	310 is at 30 degrees to core and at 325 is parallel					
	to core.					
350-400	No significant change: gray to black argillite 40.8 81.6					
	with frequent gray and white quartz. Gouge at 355,					
	359, 362, 390-392.6 (mylonitic with qtz. fragments)					
	Fracturing @ 384 is 15 degrees to core, banding @					
	394 is at 65 degrees to core. Scattered heavy to					
	moderate pyrite.					
	END OF HOLE					
	Total recovery: 221.7 ft. or 79.3%					

DIAMOND DRILL RECORD

CLAIM NO. ..... PROPERTY McMillan HOLE NO. 92-1

LATITUDE Line 12-15N. ELEVATION 3475 ft. BEARING DEPTH STARTED July 26/68 COMPLETED July 31/68

ANGLE: -65 degrees bearing due East

DEPARTURE Station 8-00 W. SECTION DIP DRILLED BY CORE SIZE: BQ Wireline LOGGED BY H. D. Rogers & E. Bayley

DEPTH FEET	FORMATION	CORE RECOVERY Recovery	%	SAMPLE NO.	FROM	TO	WIDTH	ASSAYS
0-90	Overburden							
90-120	Light green banded argillite with quartz-rich bands. Banding is at 40° to core & fracturing at 20°. Fractures carry iron oxides to a depth of 110 ft. Fracture pattern is parallel to minute slips and may be associated with slip cleavage. Traces of fine pyrite. 2" gouge at 115.	24.8	82.6					
120-150	No significant change: light green argillite becoming purple at 145 feet. Color change appears to be alteration associated with fractures. ½" fault gouge parallel to core from 129 to 131 feet. Banding is at 35 degrees to core @ 130-135 feet. From 136 is a sissor-like fracture pattern, which is filled with quartz-siderite veinlets and carries fine pyrite in places. Banding is at 30 degrees to core at 145.	25.2	84.0					
150-200	No significant change: banded purple, pink & green							

DIAMOND DRILL RECORD

CLAIM NO. ..... PROPERTY HOLE NO. 92-2

LATITUDE ELEVATION BEARING DEPTH STARTED COMPLETED

DEPARTURE SECTION DIP DRILLED BY LOGGED BY

DEPTH FEET	FORMATION	CORE Recovery	%	SAMPLE NO.	FROM	TO	WIDTH	ASSAYS Cu/Pb	Zn/Ag	Au/Sb
	argillite and quartzite. Stratification 30° to core at 150', 35 degrees at 170'. Very fine quartz veinlets parallel to stratification. Some ⅛" white quartz bands at 25 degrees to core at 177'. Some color changes sharp while others are gradational. ¼" veinlet of pyrite at 162'.	48.7	97.4							
200-250	Continued banded argillite with quartz-rich bands. Stratification 30° to core at 214' & 50° to core at 235'. Narrow gouge seams at 201', 212', and 232'-parallel to banding. Scattered pyrite in fractures and disseminated in some quartz-rich bands. Heavy fracturing from 232' to 233.5 and 245'-250'.	45.3	90.6							
250-275	Rock type unchanged but highly fractured and veined with quartz. Banding becomes parallel to core at 250'. Frequent pyrite & some soft gray ~~mixed~~ mineral. 6" of massive sulfide at 269'. Small crystalline red mineral in vuggy quartz at 264-5'.	16.2	64.8	8595	260	265		0.01 0.10	0.06 0.04	0.003 0.02
				8596	265	270		0.01 0.25	0.06 0.09	0.003 0.03

CLAIM NO. .....

DIAMOND DRILL RECORD

PROPERTY

HOLE NO 92-3

LATITUDE | ELEVATION | BEARING | DEPTH | STARTED | COMPLETED

DEPARTURE | SECTION | DIP | DRILLED BY | LOGGED BY

DEPTH FEET	FORMATION	CORE Recovery	%	SAMPLE NO	FROM	TO	WIDTH	ASSAYS Cu/Pb	Zn/Ag	Au/Sb
275-300	Light green banded argillite with some pinkish quartz-rich bands. Stratification 75-90 degrees to core. Weak fracture pattern at 0 to 45 degrees to core. Scattered pyrite.	22.6	90.4							
300-320	No change to 317' then three limestone bands. 3 to 6 inches wide at 317', 318.5', and 319'. Small fault at 317.5' at 55 degrees to core.	20.0	100.0							
320-350	Limestone with several ⅛" veinlets of soft gray mineral to 322 followed by green argillite with narrow limey bands carrying small amounts of gray minerals in calcite veins. 4" of gouge at 340' at 40 degrees to core.	24.7	62.3	8597	320	325		0.01	0.36	0.003
								0.15	0.09	0.03
				8598	330	335		0.01	0.16	0.003
								0.37	0.18	0.01
				8599	335	340		0.01	0.24	0.003
								0.07	0.05	0.02
350-400	Light green argillite with some narrow limestone bands. Three ½" veins of quartz-siderite with gray mineral and pyrite at 358' at 25 to 35 ° to cored. Narrow fault gouge and vein quartz with scattered mineralization at 372', 378' & 379'. Stratification is 30 degrees to core at 368' and 20 degrees at 380'. Fracturing 10 to 45 degrees to core. Light green argillite with	39.4	78.8	8600	355	360		0.01	0.10	0.003
								0.02	0.07	0.02

CLAIM NO.

DIAMOND DRILL RECORD

PROPERTY

HOLE NO. 92-4

LATITUDE | ELEVATION | BEARING | DEPTH | STARTED | COMPLETED

DEPARTURE | SECTION | DIP | DRILLED BY | LOGGED BY

DEPTH FEET	FORMATION	CORE Recovery	%	SAMPLE NO	FROM	TO	WIDTH	ASSAYS Cu/Pb	Zn/Ag	Au/Sb
	increasing limestone from 385'-400'.									
400-450	Limy green argillite & limestone becoming	42.7	85.4							
	quartzitic at 415'. Pink to green quartzite			8601	420	425	0.01 ---→		0.04	0.003
	and argillite from 420'-450'. Frequent veinlets							0.05	0.05	0.02
	of mineralization between 420 and 440 feet. 6"			8602	425	430		0.01	0.28	0.003
	mineralized gouge at 30 degrees to core at							0.10	0.07	
	426 ft. 2" of heavy gray mineralization at			8603	430	435		0.01	0.14	0.003
	436.8' and ½" to 1" at 448' and 449'. (dip							0.02	0.03	
	test @ 450 ft.: - 66 degrees)			8604	435	440		0.01	0.80	0.003
450-500	No significant change: light green argillite	46.3	92.6					0.25	0.10	
	with interbedded quartzite bands. Scattered			8505	455	460		0.01	1.05	0.003
	mineralization to 465'. Stratification at 40°							0.40	0.22	
	to core. 1" massive pyrite at 481.5' followed by			8606	460	465		0.03	0.66	0.003
	7" of gouge. From 482 to 500 feet core is							0.34	0.15	
	mylonitic in texture and gougey with scattered			8607	485	490		0.04	0.14	0.003
	mineralization. White quartz granules & lenses							1.53	0.52	
	are frequent in black argillite matrix: Appears									
	to be Black Fault.									
	TOTAL RECOVERY = 355.90 feet or 86.8%									

DIAMOND DRILL RECORD

CLAIM NO. ..... PROPERTY MCMILLAN PROPERTY HOLE NO. 93

LATITUDE Line 76N ELEVATION BEARING DEPTH STARTED 2 Aug/68 COMPLETED Abandoned

DEPARTURE Station 14-23 E SECTION DIP 90° DRILLED BY LOGGED BY E. Bayley

DEPTH FEET	FORMATION	SAMPLE NO.	FROM	TO	WIDTH	ASSAYS Total Pb	ASSAYS Total Zn
						ppm	
	Started on August 2, 1968 and abandoned on Aug 6, 1968.		OVERBURDEN	SLUDGE	SAMPLES		
	Tricone penetration to 262 feet in sandy overburden and clay.		20	25		204	1330
	No bedrock encountered.		25	30		362	480
			30	35		486	584
			35	40		680	521
			40	45		486	542
			45	50		1080	396
			50	55		1195	438
			55	60		2010	459
			60	65		1250	542
			65	70		390	584
			70	75		292	1490
			75	80		430	605
			80	85		472	605
			85	90		444	895
			90	95		348	805
			95	100		158	396
			100	105		136	542
			105	110		204	715
			110	115		181	625
			115	120		63	266
			120	125		58	179
			125	130		37	250
			130	135		68	215
			135	140		43	143
			140	145		25	143
			145	150		15	161
			150	155		55	125
			155	160		60	250
			160	165		55	143
			165	170		19	125
			170	175		75	282
			175	180		13	102
			180	185		15	233
			185	190		13	161

DIAMOND DRILL RECORD

CLAIM NO. ..... PROPERTY MCMILLAN PROPERTY HOLE NO. 93

LATITUDE Line 76N ELEVATION BEARING DEPTH STARTED 2 Aug/68 COMPLETED Abandoned

DEPARTURE Station 14-23 E SECTION DIP 90° DRILLED BY LOGGED BY E. Bayley

DEPTH FEET	FORMATION	SAMPLE NO.	FROM	TO	WIDTH	ASSAYS Total Pb	ASSAYS Total Zn
						ppm	
		OVERBURDEN SLUDGE SAMPLES					
			190	195		15	161
			195	200		49	233
			200	205		13	143
			205	210		11	81
			210	215		19	99
			215	220		21	105
			220	225		15	84
			225	230		13	78
			230	235		21	99
			235	240		23	125
			240	245		11	146
			245	250		13	179

MAP No.	ASSESSMENT REPORT N. M. E. A. P. CONFIDENTIAL OPEN FILE	TYPE OF WORK: GEOLOGICAL; DRILLING; MINE FEASABILITY
95 D 12	☐ ☐ ☐ ☐	091083

REPORT FILED UNDER	LIARD RIVER MINING CO. LTD. DOCUMENT NO. ~~091751~~
DATE PERFORMED	1972 DATE FILED: JULY 16, 1973
LOCATION – LAT.	AREA: WATSON LAKE
LONG.	
CLAIM NO.	MCMILLIAN PROPERTY
VALUE $	
WORK DONE BY	J.J. CROWHURST
WORK DONE FOR	LIARD RIVER MINING CO. LTD.
REMARKS	Ore reserves are estimated at 1,225,000 tons of 1.64 oz/ton Ag, 4.27% Pb and 9% Zn after dilution. Mineralization occurs in brecciated quartzite.

Indian and Northern Affairs / Affaires indiennes et du Nord

Office Of The Supervising Mining Recorder
JUL 24 1973
WHITEHORSE
Yukon Territory

Box 269, Watson Lake,
19 July 1973

SUPERVISING MINING RECORDER

Your file Votre référence

Our file Notre référence

Liard River Mining Co. Ltd.
Certificates of Improvements

The above mentioned company has applied for Certificates of Improvements on the following claims:

95 D-12

Name of Claim	Mineral Claim No.
South Nahanni 3	57467
South Nahanni 4	57468
South Nahanni 5	57469
+ Dorthy	57470
South Nahanni 6	57471
South Nahanni 7	57472
South Nahanni 48	63341
South Nahanni 49	63342
WHI 3 Fraction	Y 64399

Enclosed please find copies of diamond drill logs showing part of assessment work done. You will note from the attached letter from American Smelting and Refining Company that cost of this work was $52,441.30. Invoices covering this amount are on file in this office.

Will you please forward a statement under Section 64(3) YQMA to the effect that you are satisfied the required expenditure ($500.00 per claim) has been incurred by the company in order that Certificate of Improvements may be issued.

Wm. B. Jewett
Mining Recorder
Watson Lake District

Encl.

+ Claim spelt this way.

RECEIVED
JUL 23 1973
MINING
INSPECTORS OFFICE
WHITEHORSE, Y.T.

ASARCO

TELEPHONE 684-1274

340-20

AMERICAN SMELTING AND REFINING COMPANY
CANADIAN EXPLORATION DIVISION

T. C. OSBORNE
SUPERVISOR

ROOM 504 - 535 THURLOW STREET
VANCOUVER 5, B.C.

23 Jan/69

Mr. J.A.C. McKenzie, Mining Recorder,
Box 269,
Watson Lake, Y.T.

Attention: Mr. R.L. Williams
Re: South Nahanni, Dorothy, M Mineral Claims
(McMillan Property)

Dear Sir:

In reply to your letter of the 20th instant, enclosed please find drilling and flying invoices for the Quartz Lake drilling program for a total of $ 52,441.30. We completed 3,404 feet of drilling, which gives a cost per foot of $ 15.41 per foot. Not included are salaries of the Asarco crew, which totalled $ 6,845.91, for a grand total of expenditures of $ 59,287.21. The cost of drilling, therefore, was $ 17.39 per foot. We have not submitted time sheets for Asarco salaries, but will forward these if required.

Also, in duplicate, are drill logs for holes completed in 1968.

The core is stored in a plywood shack located at our old campsite about one mile due south of Quartz Lake. A tractor road runs from Quartz Lake to the campsite and core storage.

We hope the above information and attached invoices are what you require.

Yours very truly,

John DeLeen.

JD:sm
Encls

091083



L 76N

L 68N

L 64N

L 60N

L 56N

52N

48N

44N

40N

L 36N

L 32N

L 28N

L 24N

L 20N

L 16N

L 12N

L 4N

L 0

L 8S

L 16S

L 24S

L 32S

L 34S

L 36S

L 40S

15W

15E

30E

45E

60E

75E

90E

STREAM

LITTLE QUARTZ LAKE

4

3

5

7

6

9

8

Pb, Zn, Ag

Zn, Pb, Ag

pyrite + Zn, Pb, Ag

Pb, Zn, Ag

Pb & Zn, Ag

Pb, Zn

WH I

Pb, Zn Ag

Pb, Zn, Ag

Ag, Pb, Zn, Au

Pb, Zn, Ag, Au

93 88 46 39 48 38 52 49 47 53 33 36 25 37 40 24 23 32 41 26 22 35 27 20 30 28 29 31 34 19 60 41 16 10 42 17 9 54 2 8 11 5 7 55 57 4 3 12 13 44 15 61 45 92 59 58 56 50 66 82 91 81 80 79 71 72 73 78 83 76 77 74 90 70 69 68 89 67 75

87 86 85 84 62 63 65 (500'E) 64

LEGEND

Outline of Ore Zone

AMERICAN SMELTING & REFINING CO.

McMILLAN PROJECT

Watson Lake M.D., Yukon Territory

SCALE 1" = 500'

DRILL HOLES

1949 - 1956 - 1968