

DIAMOND DRILL REPORT
ESS 1-96 CLAIMS
MAYO MINING DISTRICT, Y.T.
CLAIM SHEET 1050/1

Lat. 63°05'N

Long. 130°18'W

R.J. Cathro, P.Eng.

021221

ARCHER, CATHRO

AND ASSOCIATES LTD.

CONSULTING GEOLOGICAL ENGINEERS

Box 4127, WHITEHORSE, Y.T. Y1A 3B9 667-4415

STANDARD BUILDING, VANCOUVER, B.C. 688-2588

1016 STANDARD BUILDING
510 WEST HASTINGS STREET
VANCOUVER, B.C.
V6B 1L8

DIAMOND DRILL REPORT

ESS 1-96 CLAIMS, MAYO M.D., YUKON

CLAIM SHEET 1050/1

Latitude 63°05'N

Longitude 130°18'W

ITSI JOINT VENTURE

R.J. Cathro, P.Eng.
January 20, 1979

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Appendix I - Drill Logs

LIST OF ILLUSTRATIONS

Figure 1	Ess and Moonlight Claim Groups, Scale 1:10,000 (orthophoto basemap)	In Pocket
Figure 2	Cross-section, Holes 1 and 2	In Pocket

INTRODUCTION

The Ess claims were staked by Itsi Joint Venture (Aquitaine Co. of Canada Ltd. and St. Joseph Exploration Ltd.) in February, 1977 to protect an area underlain by the Cano1 Formation near the stratiform, barite hosted, Tom and Jason lead-zinc deposits.

In 1977, the claims were explored on behalf of Itsi Joint Venture by an Archer, Cathro crew using geological mapping, prospecting, geochemical surveys and a test EM survey. The results were reported in a previous assessment report dated January 25, 1978 by the writer.

This report summarizes a drill program conducted during 1978 in which a total of 1064 feet (322.4 m) were drilled in two holes. This program was supervised jointly between June 29 to July 16 by M.P. Phillips and C.A. Main under the overall guidance of the writer.

PROPERTY, LOCATION AND ACCESS

The Ess property consists of 96 contiguous claims that form an L-shaped block along Hess Creek, contiguous with the Moonlight group of Itsi Joint Venture to the south. The Cano1 Road passes within 5 km of the property and the MacMillan Pass airstrip is situated 9 km to the northeast of it. Access is by helicopter or foot only. The Cano1 Road is open to traffic in the summer and helicopters have been available for casual charter from MacMillan Pass airstrip for the last two years. The nearest permanent settlement is Ross River, located 250 km to the southwest.

The Ess claims are recorded in the Mayo Mining District in the name of Archer, Cathro and Associates Ltd. as follows:

<u>CLAIM NAME</u>	<u>GRANT NUMBERS</u>	<u>EXPIRY DATE</u>
Ess 1-48	YA14847-YA14895	February 21, 1979
Ess 49-80	YA30653-YA30684	June 27, 1979
Ess 81-96	YA30841-YA30856	July 5, 1979

GEOLOGY AND GEOMORPHOLOGY

The Ess property is situated within the Selwyn Mountains, where peaks commonly reach elevations of greater than 2000 m and locally greater than 3000 m. With the exception of the higher peaks, local relief is about 600 to 700 m or less and terrain is relatively subdued and gentle. Main valleys within the central part of the range are U-shaped with truncated spurs below elevations of about 1800 m. Valleys in low areas along the edge of the range are generally broad and poorly defined. The Ess claims are situated below timberline along the floor of the U-shaped glaciated valley of Hess Creek. Local relief is about 700 m.

The geology and geomorphology of the property have been described in an earlier assessment report by R.J. Cathro dated January 25, 1978. The 1977 mapping together with a minor amount of new mapping have been plotted on a new orthophoto basemap (see Figure 1 in pocket). Briefly, a relatively unoxidized exposure of disseminated and conformable banded pyrite was discovered in carbonaceous phyllitic shale in the bank of Hess Creek in 1977. The most continuous band of sulphides, about 10 cm thick, consists of very fine grained to medium grained pyrite laminae varying from 0.1 to 1.6 mm wide that are interbedded with fine shale partings. Small quartz lenses occupy dilatant zones caused by small scale folding and

The drill was operated on two 12 hour shifts with one driller and one helper per shift. Crews were moved to and from camp with a Northern Mountain Helicopter Bell 206B helicopter based at MacMillan Pass airstrip, which is 7 km by air from the camp and 9 km by air from the drill site. The drillers camped at the MacMillan River bridge on the Canol Road, about 5 km by air east of the drill site.

Two holes were drilled as follows:

	<u>Coordinates</u>	<u>Azimuth</u>	<u>Dip(start/finish)</u>	<u>Hole Size</u>	<u>Depth</u>
Hole 78-1	0+00S; 1+00W	060°	-86°/-65°	Casing	0-10 ft.(0-3.5 m)
				HQ	10-500 ft. (3.5-30.5 m)
				NQ	100-732 ft. (30.5-223.1 m)
Hole 78-2	0+00S; 1+00W	240°	-85°/-77°	Casing	0-10 ft. (0-3.5 m)
				HQ	10-50 ft. (3.5-15.3 m)
				NQ	50-332 ft. (15.3-101.2 m)

Hole 78-1 was drilled from June 30 to July 10; Hole 78-2 was drilled from July 11 to July 16.

Results

The two holes were drilled in opposite directions from the same site to provide maximum stratigraphic and structural information at minimum cost. They are plotted in vertical cross-section on Figure 2 (in pocket) and are described in a detailed log in Appendix 1.

The upper 60 to 75 m of both holes intersected dark grey, massive or occasionally weakly laminated, noncalcareous, siliceous mudstone representing the base of the Canol Formation. The mudstone contains thin pyrite laminations, often with quartz veinlets up to 5 mm thick, trace to fairly abundant pyrite disseminations, and occasional beds of fetid limestone as much as 2.5 m thick. Fracturing, slickensides, and graphite are also common.

Both holes passed through a 1.5 m thick transition zone that has been interpreted as a sheared contact with the underlying Road River Formation, which ranges from upper Cambrian to middle Devonian age in this region. Lithologies encountered at the bottom of both holes consist of black, carbonaceous, non-siliceous, massive limestone containing occasional fine laminations of pyrite and thin mudstone beds and up to 1/2 per cent disseminated pyrite. Scattered small limestone outcrops immediately upstream that were originally mapped as thin members of the Cano1 Formation have been reinterpreted on Figure 1 as Road River limestone.

Geochemical rock assays of the core show subtle but distinct differences between the two units, as shown on Figure 2. Specifically, the Road River limestone normally contains less than 4 ppm Pb (compared to a range of 6 to 16 ppm for Cano1 shale) and over 300 ppm Zn (compared to a range of 18 to 350 ppm for Cano1 shale).

The principal Maxxim EM response was apparently caused by a sheared contact between the two units.

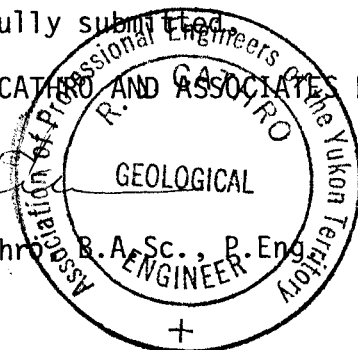
CONCLUSIONS AND RECOMMENDATIONS

The barite-sulphide horizon and chert pebble conglomerate occurring near the base of the Cano1 Formation at MacMillan Pass are not present in the Hess Creek valley. Assessment credit should be filed to maintain the property in good standing until a better understanding is available of stratigraphic and structural controls in this mineral district.

Respectfully submitted,
ARCHER, CATHRO AND ASSOCIATES LTD.

R.J. Cathro

B.A.Sc., P.Eng.



/mc

ARCHER, CATHRO
AND ASSOCIATES LTD.
CONSULTING GEOLOGICAL ENGINEERS

Whitehorse, Yukon (403) 667-4415

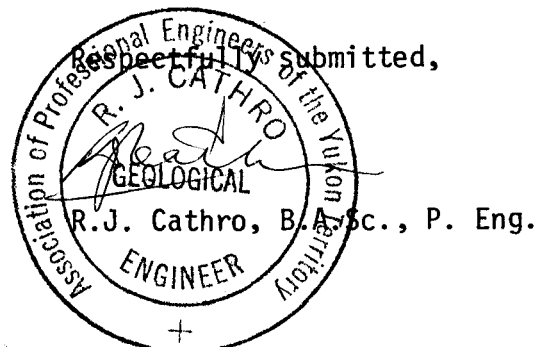
1016 - 510 West Hastings Street Vancouver, B.C. V6B 1L8 (604) 688-2568

Post Office Box 4127
Whitehorse, Yukon
Y1A 3S9

CERTIFICATE

I, Robert J. Cathro, with business addresses in Whitehorse, Yukon Territory, and Vancouver, British Columbia, and residential address in West Vancouver, British Columbia, do hereby declare that:

1. I am a 1959 graduate of the University of British Columbia in geological engineering.
2. I am registered as a professional engineer in both British Columbia and Yukon Territory.
3. I have been engaged in mineral exploration and evaluation since 1959 and have been a partner in Archer, Cathro & Associates Ltd. since 1966.
4. I have supervised the drill program described in this report.



APPENDIX ONE
 ESS CLAIMS, HESS CREEK, MAC MILLIAN PASS AREA
 NTS 1050/1

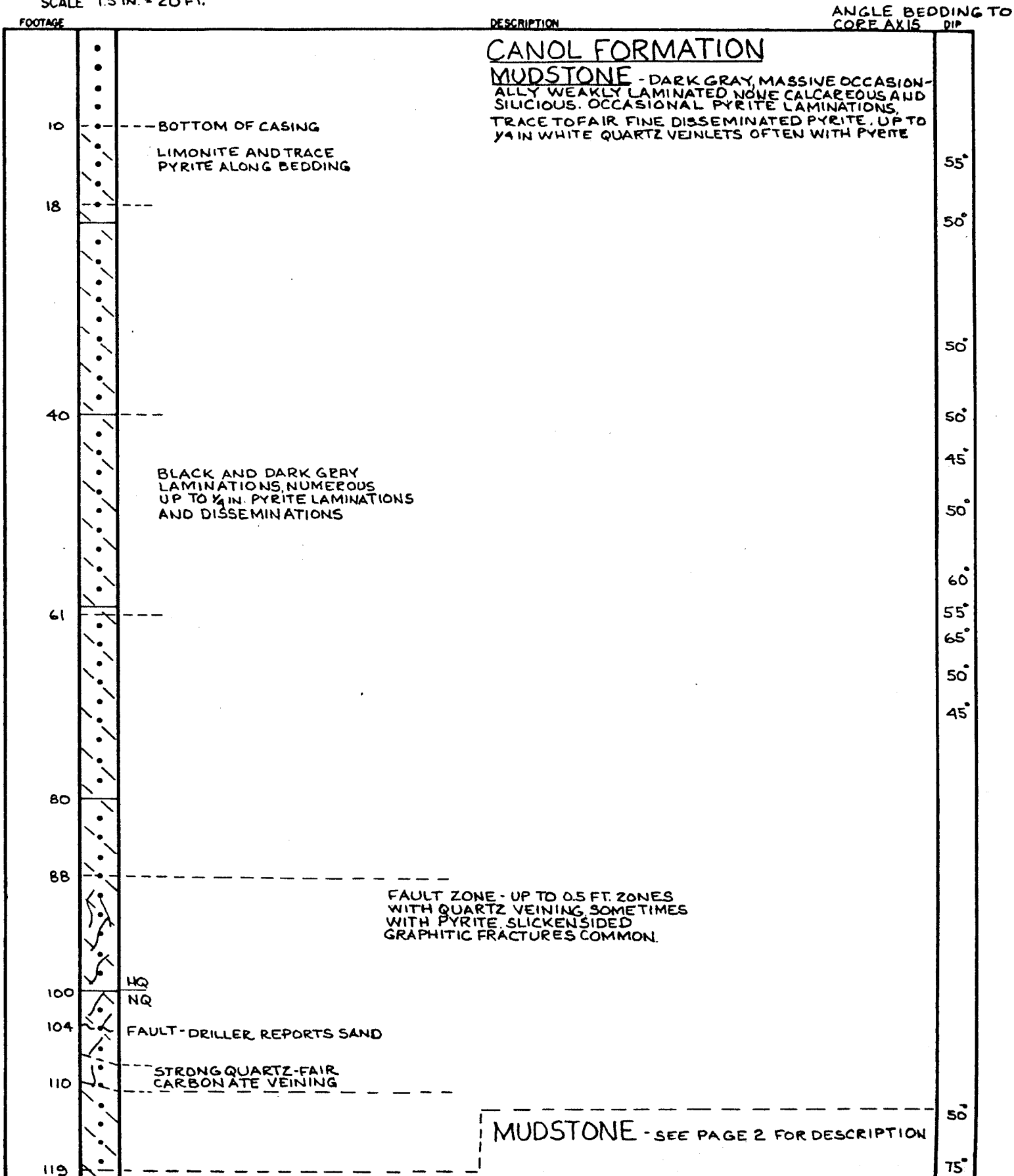
DRILL HOLE LOG

HOLE No. 1

PAGE 1 OF 7

COORDINATES O+005; 1+00W
 ELEVATION 4155 FT.
 DIP -86°
 AZIMUTH 060°
 SCALE 1.5 IN. = 20 FT.

CORE SIZE HQ TO 100 FT, NQ TO 732 FT
 HOLE STARTED JUNE 30, 1978
 HOLE COMPLETED JULY 10, 1978
 LOGGED BY M.P. PHILLIPS



CANOL FORMATION

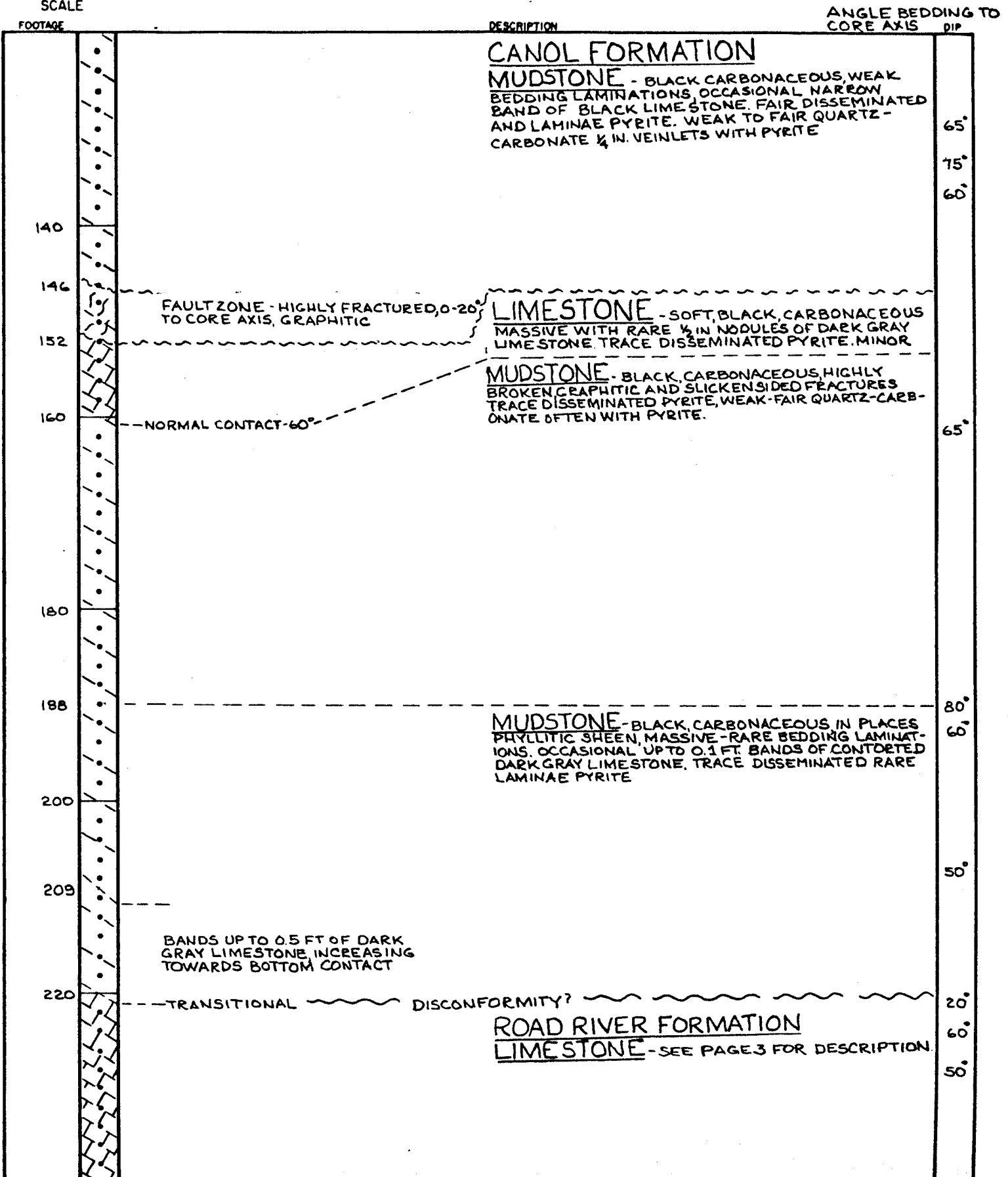
MUDSTONE - DARK GRAY, MASSIVE OCCASIONALLY WEAKLY LAMINATED NONE CALcareous AND SILICIOUS. OCCASIONAL PYRITE LAMINATIONS, TRACE TO FAIR FINE DISSEMINATED PYRITE, UP TO 1/4 IN WHITE QUARTZ VEINLETS OFTEN WITH PYRITE

DRILL HOLE LOG

HOLE No. 1
PAGE 2 OF 7

COORDINATES
ELEVATION
DIP
AZIMUTH
SCALE

CORE SIZE
HOLE STARTED
HOLE COMPLETED
LOGGED BY



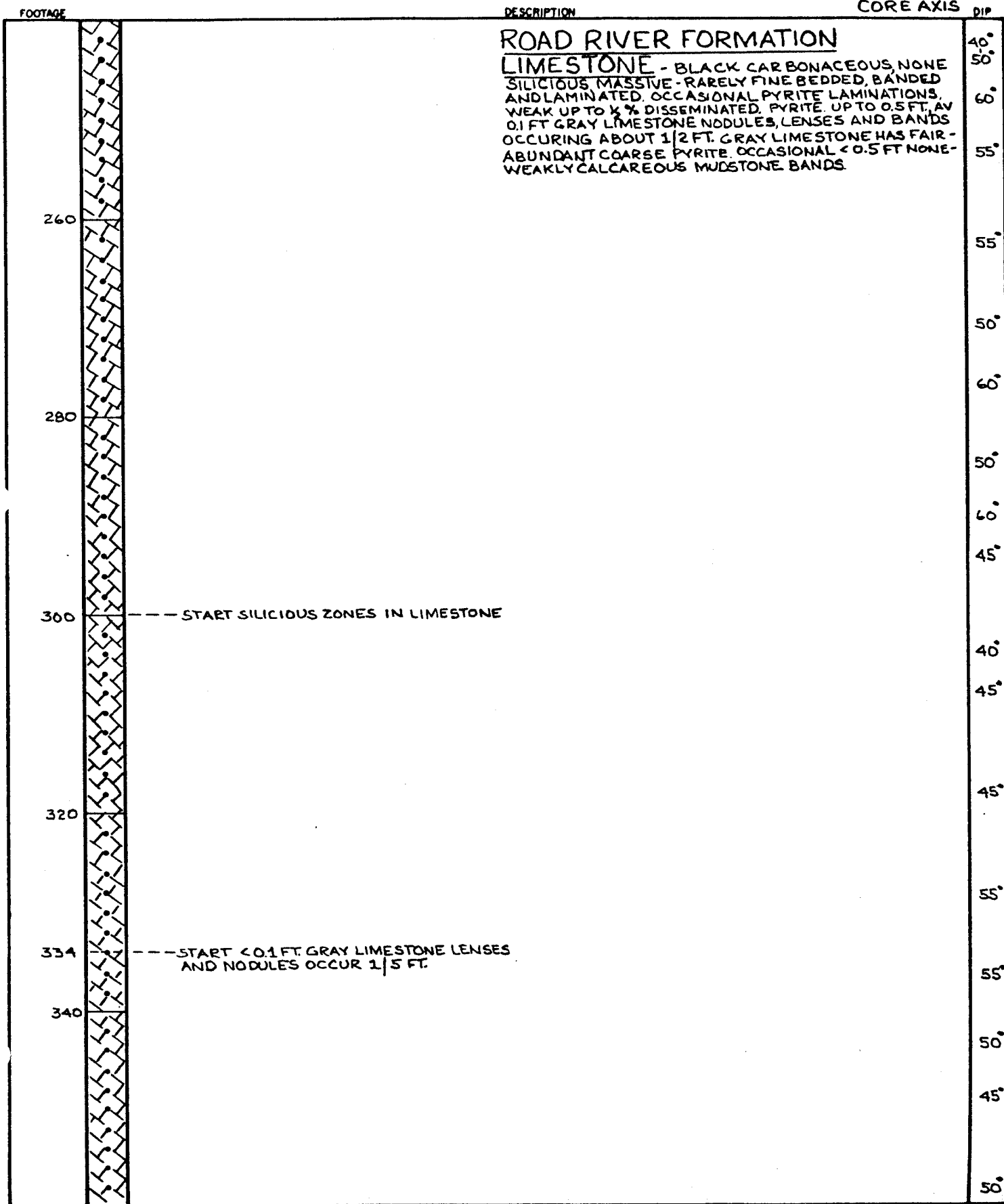
DRILL HOLE LOG

HOLE No. 1
PAGE 3 OF 7

COORDINATES
ELEVATION
DIP
AZIMUTH
SCALE

CORE SIZE
HOLE STARTED
HOLE COMPLETED
LOGGED BY

ANGLE BEDDING TO
CORE AXIS DIP



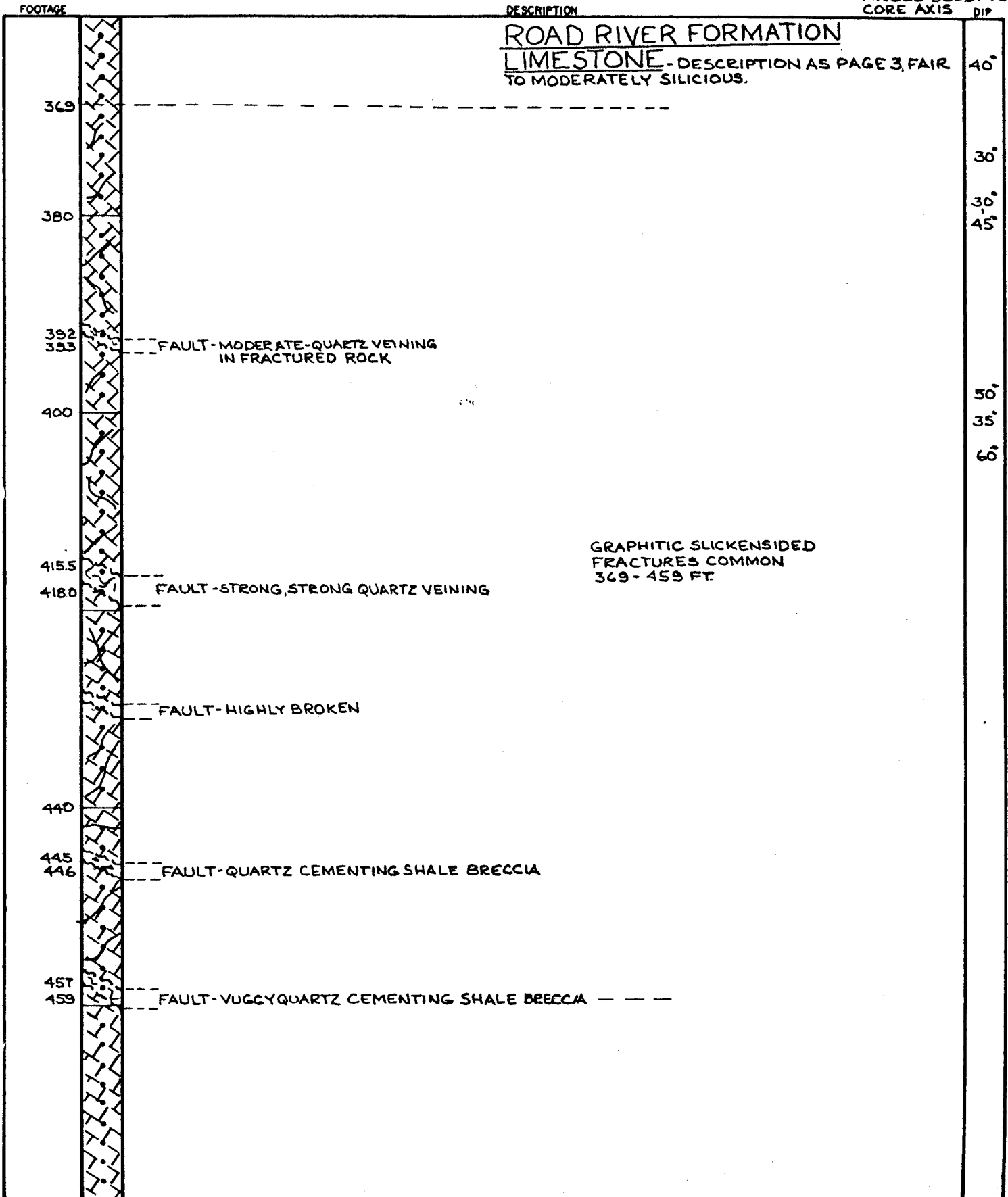
DRILL HOLE LOG

HOLE No. 1
PAGE 4 OF 7

COORDINATES
ELEVATION
DIP
AZIMUTH
SCALE

CORE SIZE
HOLE STARTED
HOLE COMPLETED
LOGGED BY

ANGLE BEDDING TO
CORE AXIS DIP



DRILL HOLE LOG

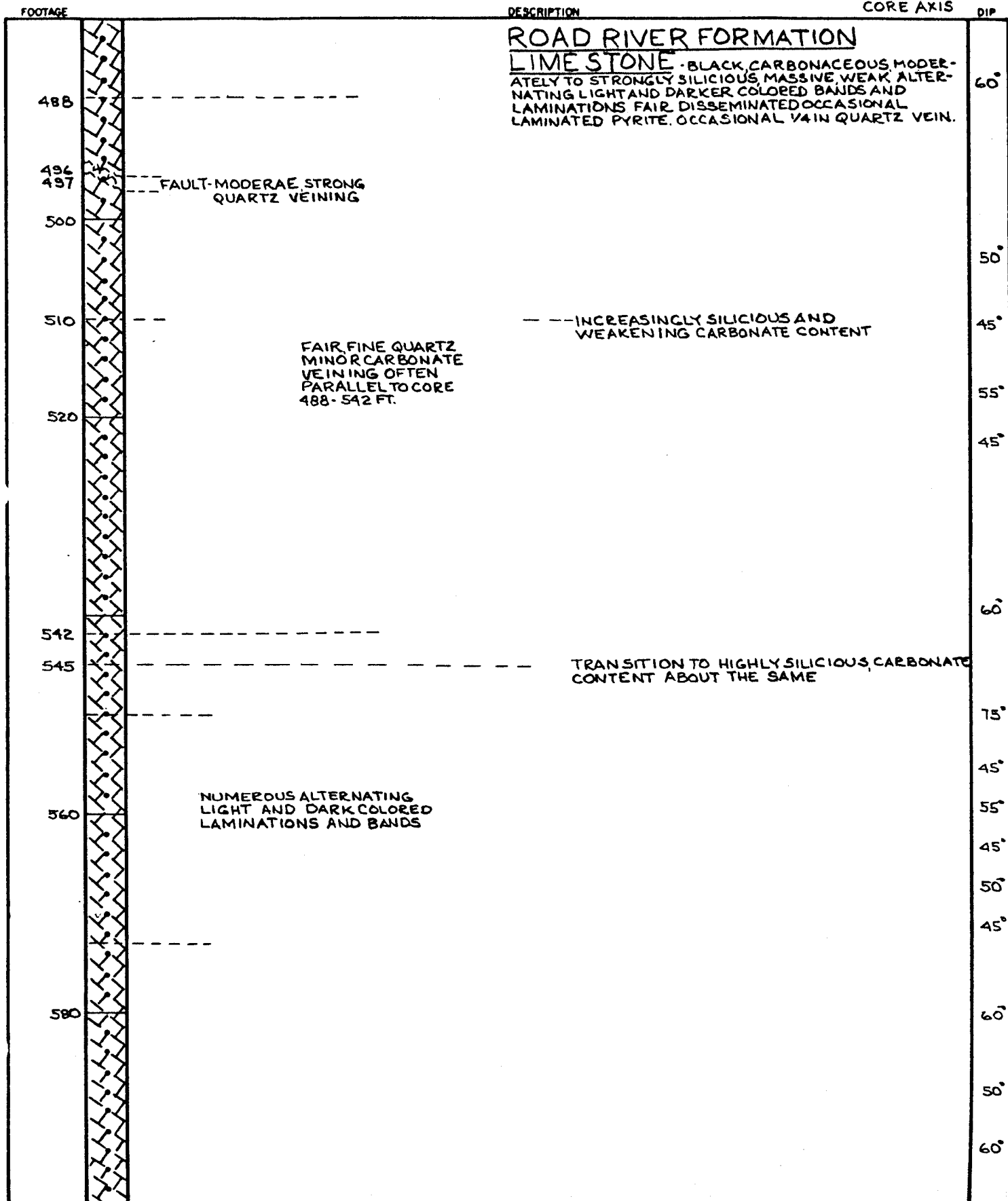
HOLE No. 1

PAGE 5 OF 7

COORDINATES
ELEVATION
DIP
AZIMUTH
SCALE

CORE SIZE
HOLE STARTED
HOLE COMPLETED
LOGGED BY

ANGLE BEDDING TO
CORE AXIS DIP



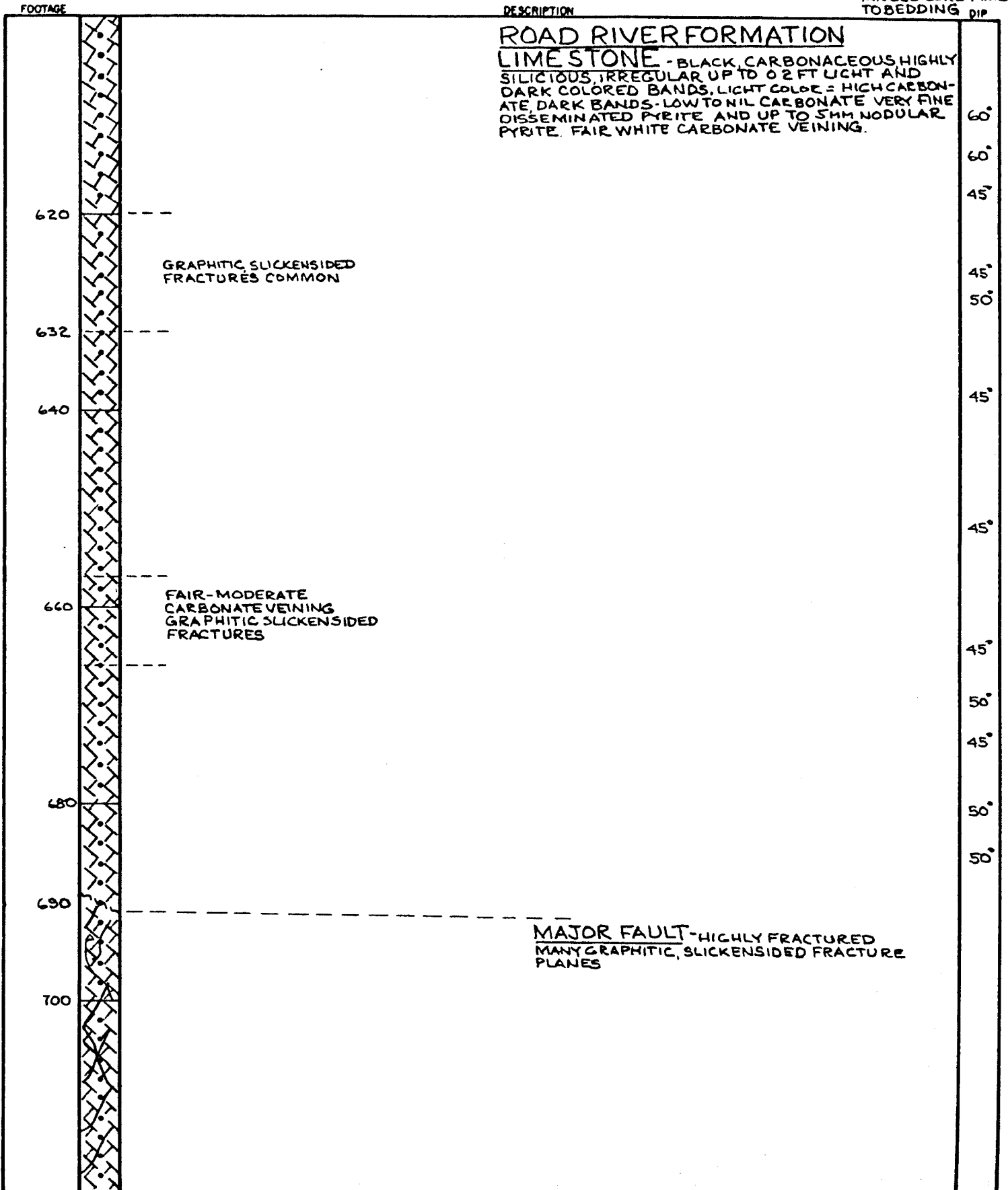
DRILL HOLE LOG

HOLE No. 1
PAGE 6 OF 7

COORDINATES
ELEVATION
DIP
AZIMUTH
SCALE

CORE SIZE
HOLE STARTED
HOLE COMPLETED
LOGGED BY

ANGLE CORE AXIS
TO BEDDING DIP



APPENDIX ONE
 ESS CLAIMS, HESS CREEK, MacMILLIAN PASS AREA
 NTS 1050/1

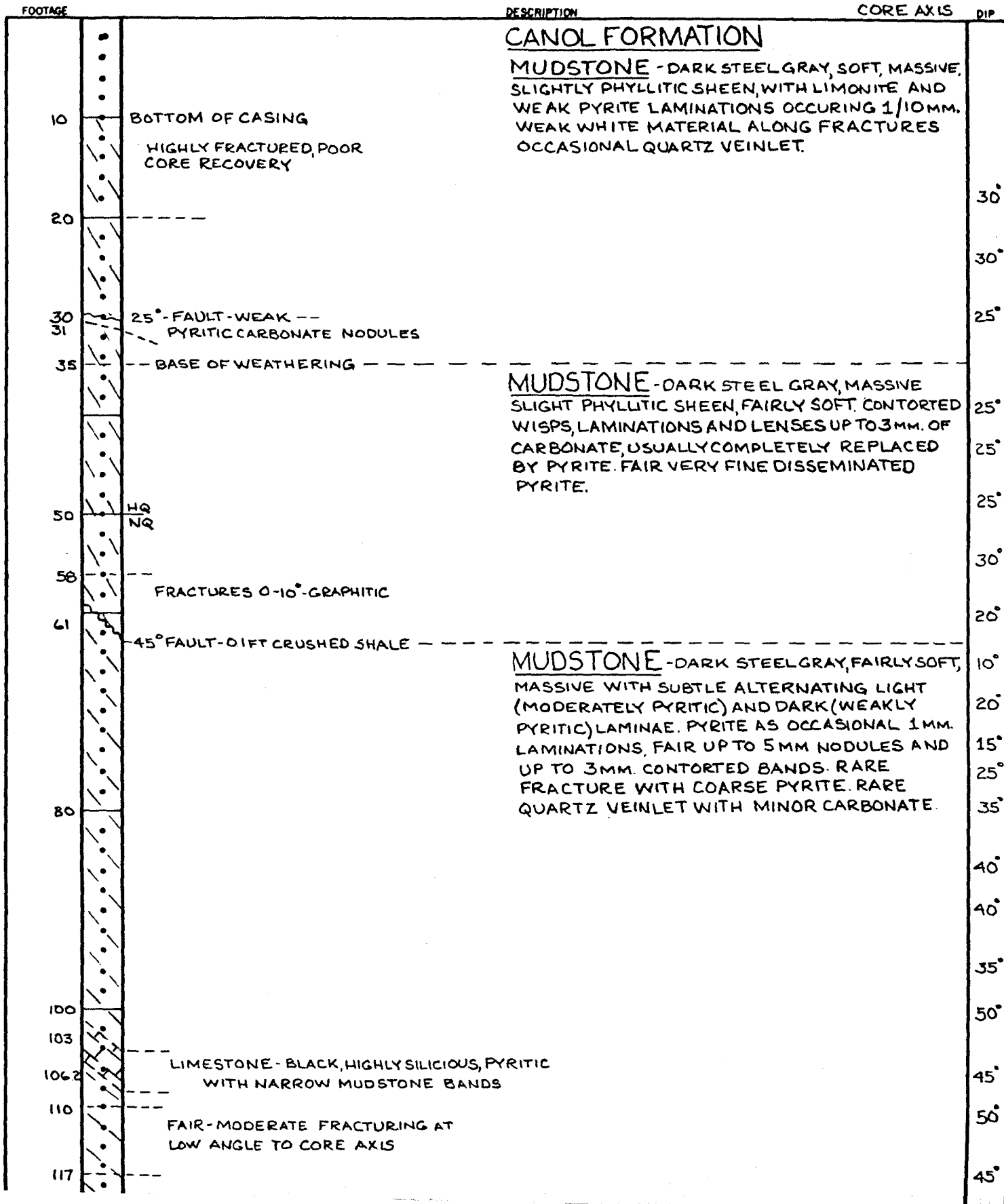
DRILL HOLE LOG

HOLE No. 2
 PAGE 1 OF 3

COORDINATES 0+00S; 1+00W
 ELEVATION 4155 FT.
 DIP -85°
 AZIMUTH 240°
 SCALE 1.5 IN. = 20 FT.

CORE SIZE HQ TO 50 FT.; NQ TO 332 FT.
 HOLE STARTED JULY 11, 1978
 HOLE COMPLETED JULY 16, 1978
 LOGGED BY M.P. PHILLIPS

ANGLE BEDDING TO
 CORE AXIS DIP



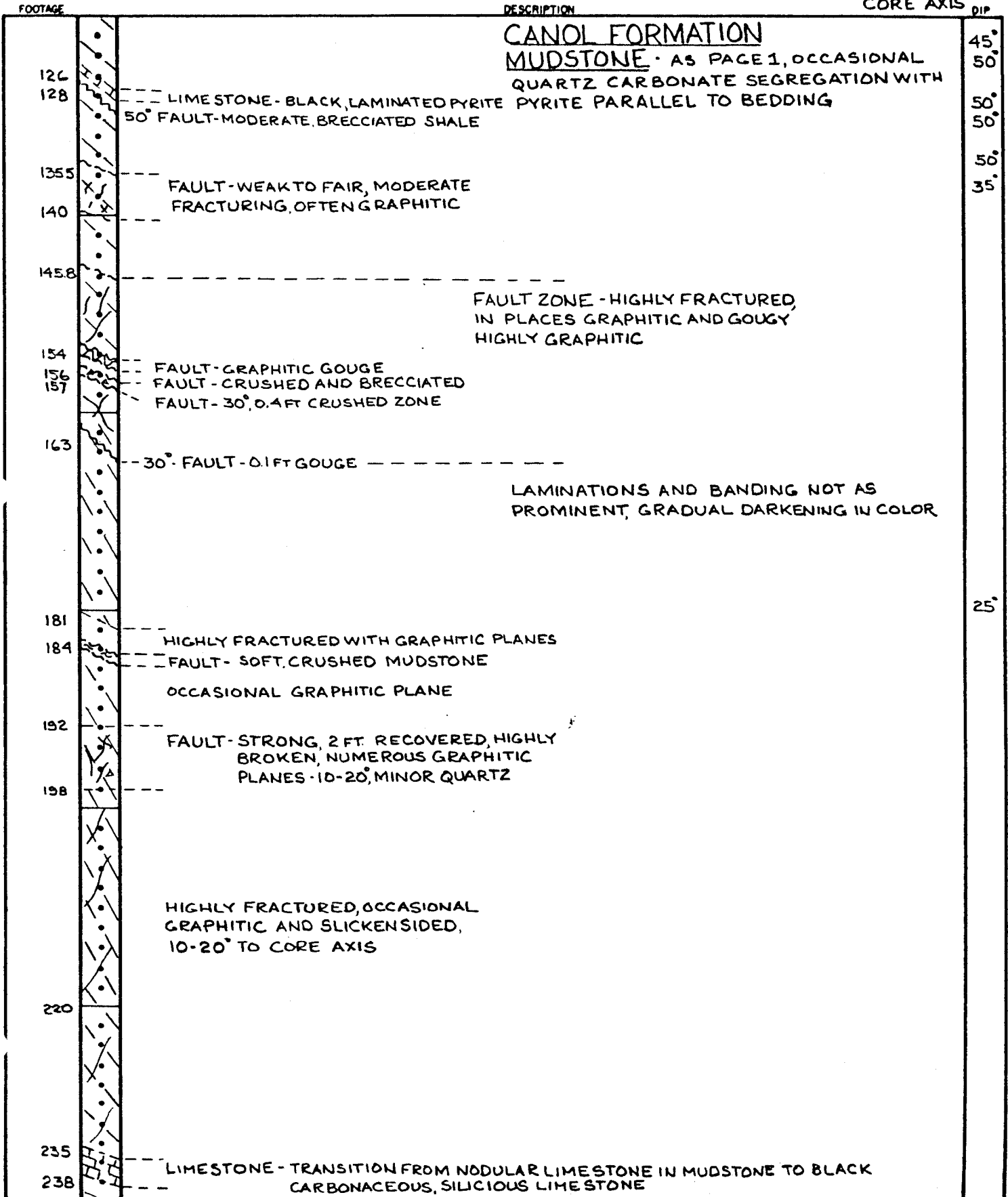
DRILL HOLE LOG

HOLE No. 2
PAGE 2 OF 3

COORDINATES
ELEVATION
DIP
AZIMUTH
SCALE

CORE SIZE
HOLE STARTED
HOLE COMPLETED
LOGGED BY

ANGLE BEDDING TO
CORE AXIS DIP

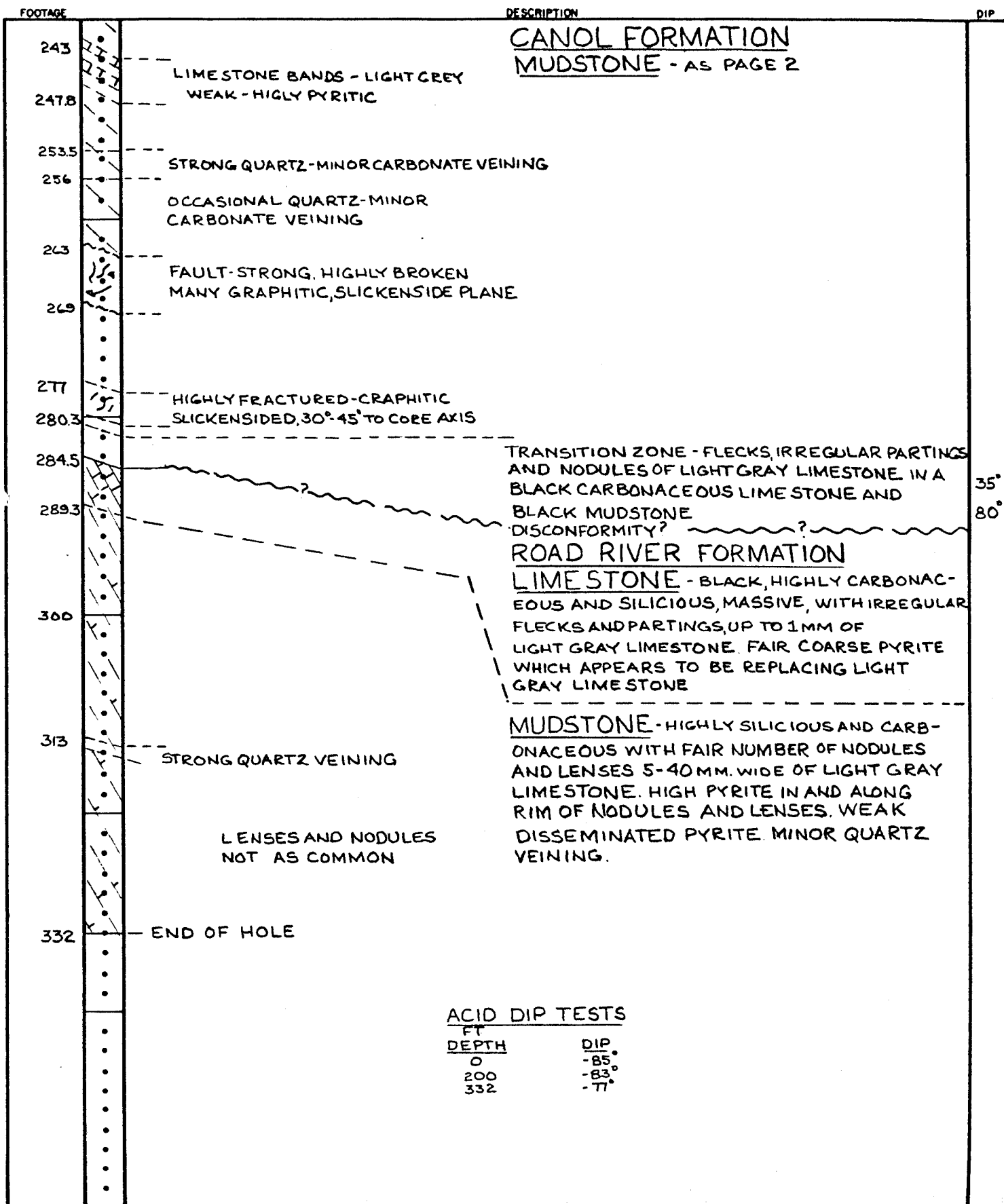


DRILL HOLE LOG

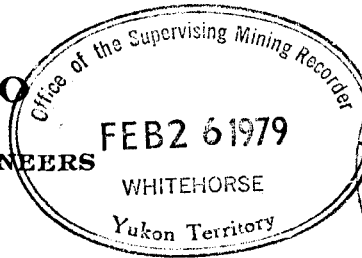
HOLE No. 2
PAGE 3 OF 3

COORDINATES
ELEVATION
DIP
AZIMUTH
SCALE

CORE SIZE
HOLE STARTED
HOLE COMPLETED
LOGGED BY



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CONSULTING GEOLOGICAL ENGINEERS



Box 4127, WHITEHORSE, Y.T. Y1A 3S9 667-4415

STANDARD BUILDING, VANCOUVER, B.C. 688-2568

1016 STANDARD BUILDING
510 WEST HASTINGS STREET
VANCOUVER, B.C.
V6B 1L8

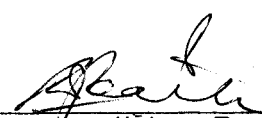
AFFIDAVIT

I, Joan Mariacher, of Vancouver, B.C. make oath and say:

That to the best of my knowledge the attached Statement of Expenditures for exploration work on the Ess 1-96 Mineral Claims on Claim Sheet 1050/1 is accurate.


Joan Mariacher

Sworn before me at Vancouver,
B.C. this 6 day of
February, 1979.


Notary, Yukon Territory

Statement of Expenditures
Ess 1-96 Claims
January 30, 1979

Consulting Fees

R.J. Cathro - June and July - 2 days; December-January - 3 days;
total 5 days at \$250/day \$ 1,250.00

Labour

M.P. Phillips (geologist) - June & July - 2.5 days at \$200/day; November - 41 hours at \$25/hr	\$ 1,525.00	
C.A. Main (geologist) - July - 8 days at \$110/day; January - 1/4 month at \$2,862/mo	1,595.00	
F. Gish (assistant) - June & July - 11 days at \$60/day	660.00	
B. Hemingway (assistant) - July - 3 days at \$55/day	165.00	
J. Mariacher (typing) - November - 3 hours at \$12/hr	<u>36.00</u>	3,981.00

Expenses

Field expenses, including groceries, camp supplies, flagging and expediting - 11 days at \$30/day	330.00	
Helicopter - 15.2 hours Hughes 500D from Terr Air Ltd. at \$315/hour plus 320 gals fuel at \$2/gal	5,603.00	
Helicopter - 16.9 hours Bell 206B from Northern Mountain at \$330/hour plus fuel at \$1.50/bal	6,053.67	
Fixed wing - Tradewinds Aviation	232.65	
Orthophoto map preparation	3,045.28	
Diamond drilling	34,531.60	
Chemex Labs Ltd. - 63 samples	<u>366.00</u>	<u>50,162.20</u>
		<u>\$55,393.20</u>

In Account With
Ipsi Joint Venture
 November 30, 1978

Consulting Fees

R. J. Cather - 3 days preparing ONU
 assessment @ \$250 - - \$750.00

Labour

J. Maniader - 4 hrs typing assessment
 report and financial statements
 @ \$11/hr. - - 44.00

M. P. Phillips - 41 hrs preparing
 draft logs @ \$25/hr. - - 1025.00

Expenses

accounting, November - - 50.00 B6

xerox, (2+235) - 245 copies @ .25 - 61.25 B1

telephone - - 17.10 + .75 - 17.85 B3

Whitcomb Assan - - - 10.25 E1

139.35
 \$ 1958.35

AND ASSOCIATES LTD.
CONSULTING GEOLOGICAL ENGINEERS

Whitehorse, Yukon (403) 887-4415

1016 - 510 West Hastings Street Vancouver, B.C. V6B 1L8 (604) 888-2568

Post Office Box 4127
 Whitehorse, Yukon
 Y1A 3S9

In Account With
 Itsi Joint Venture
 30 June, 1978

Consulting Fees

R.J. Cathro - total 3.5 days supervising
 (1 day Abbey, 1 day Ohno, 1.5 days Ess) ----- \$ 875.00 *AI*

Labour

Supervision

M.P. Phillips - total 26 1/2 days field and office
 work at \$200/day ----- 5,300.00 *AV*

Field Crew

F. Gish - June 1-23 at \$1000 -----	\$ 767.00	
S. Todoruk - June 1-24 at \$800 -----	640.00	
Cooking bonus (Gish - \$27, Todoruk - \$27, Gelling \$27) -----	<u>81.00</u>	1,488.00 <i>AV</i>
plus 50%		744.00 <i>AV</i>

Casual

A. Gelling - June 1-26,28,29 - 28 days at \$85	2,380.00	
D. Smail - June 17-20 - 4 days at \$53 -----	<u>212.00</u>	2,592.00 <i>AV</i>

Expenses

Room and board in Whse. (Todoruk 18-24; Gelling 22-25,28,29) - total 13 days at \$30/day -----	390.00 <i>D4</i>	
Accounting, June -----	200.00 <i>B6</i>	
Expeditin, June -----	350.00 <i>D5</i>	
Radio rental June 1-30 -----	250.00 <i>D1</i>	
Rental Hoo truck, 8 days at \$30/day plus 950 miles at .30/mile -----	525.00 <i>D6</i>	
Blueprinting, 73.0 ft ozalid at .50 plus 17.4 ft dilar at \$2/ft.-----	71.30 <i>B1</i>	
Drafting, 19.5 hours at \$16 -----	312.00 <i>BV</i>	
Canadian Freightways -----	1.07 <i>D5</i>	
AC petty cash -----	47.93	
Willson Office -----	<u>.65</u> <i>B4</i>	

*04-7.03 -
 02-19.70 -
 02-64 -
 06-14.80 -*

Expenses con't.

Telephone -----	\$ 70.90	L ³ -
Norman Wade -----	29.00	DY -
Von Lengerke, drafting -----	47.60	BY -
Field equipment from ac supplies -----	109.22	DY -
Jane McArthur, Ess staking -----	25.00	FI -
Receiver General, record Ess 81-96 cls -----	160.00	FI -
Xerox copies, 187 at .25 -----	46.75	B1
Horwods Department Store -----	5.38	DY -
Yukon Health Food -----	1.85	D3 -
Receiver General -----	1.50	B4 -
Deakin Equipment -----	33.82	DY -
Nelson's -----	12.45	DY -
Whitehorse Motors -----	68.50	DL -
		<u>\$ 2,759.92</u>
Total		<u>\$13,758.92</u>

Respectfully submitted,

ARCHER, CATHRO & ASSOCIATES LTD.,

ARA:jm

A.R. Archer

ARCHER, CATHRO

AND ASSOCIATES LTD.

CONSULTING GEOLOGICAL ENGINEERS

Whitehorse, Yukon (403) 687-4415

1016 - 510 West Hastings Street Vancouver, B.C. V6B 1L8 (604) 688-2568

Post Office Box 4127
Whitehorse, Yukon
Y1A 3S9

In Account With
Itsi Joint Venture
31 July, 1978

Consulting Fees

R.J. Cathro - total 4 days organizing Ess drilling, tungsten
exploration and nisc. office work at \$250/day ----- \$1,000.00 A1

Labour

Supervisory

→ M.P. Phillips - drill supervision, tungsten
exploration, file assessment on Abbey,
total 11.5 days (8.5 Ess, 2 regional, 1
Abbey) at \$200/day ----- 2,300.00 Av

Field

→ F. Gish - July 1-13 at \$1000 plus \$84 cooking
bonus ----- \$503.00
→ B. Hemingway - July 1-6 at \$900 ----- 174.00
S. Todoruk - cooking bonus ----- 68.00
A. Gelling - cooking bonus ----- 84.00
D. Smail ----- 16.00
C. Main - 9 days at \$1800 ----- 523.00 1,368.00 Av

Plus 50% 684.00 Av

Expenses

Expediting, July 1-11 at \$12/day ----- 132.00 D1
Accounting, July ----- 200.00 Ab
Room and board in Whse (Gish 12-13; Hemingway 5-6;
← Main 3,7,17) total 7 days at \$30 ----- 210.00 D4
- Rental SBX 11 radio July 1-10 at \$250/month ----- 81.00 D1
Drafting, 25 hours at \$16 ----- 400.00 B2
Blueprinting, 3.0 ft mylar at \$2/ft ----- 6.00 B1
Xerox copies, 158 at .25 ----- 39.50 A1
AC petty cash ----- 2.90 B4
Postage ----- 4.90 B4
Woolworths ----- 8.94 DV
Vancal Reproduction ----- 3.23 B1
Horwoods ----- 3.33 D4



INVOICE

Tel. (604) 985-0642

Telex 642-52597

CHEMEX LABS LTD. 212 BROOKSBANK AVENUE, NORTH VANCOUVER, B.C. CANADA V7J 2C1

Archer Cathro & Assoc. Ltd.,

1016 - 510 W. Hastings St.,

Vancouver, B.C. V8B 1L8

DATE August 14, 1978

INVOICE NO. 27424

CERTIFICATE NO. 34091

ATTN. I.J.V.

549

ITEM	DESCRIPTION	SUB-TOTAL	TOTAL
13	Assayed for Cu, Pb, & Zn @ 15.00	\$195.00	
	Less 20%	39.00	
			\$156.00

*Just say 17/78
57 4/27*

TERMS—NET 30 DAYS

76-040

1½% Per Month (18%) Per Annum Charged on Overdue Accounts



INVOICE

CHEMEX LABS LTD.

212 BROOKSBANK AVE.
 NORTH VANCOUVER, B.C.
 CANADA V7J 2C1
 TELEPHONE: 985-0648
 AREA CODE: 604
 TELEX: 043-52597

• ANALYTICAL CHEMISTS • GEOCHEMISTS • REGISTERED ASSAYERS

TO: Archer Cathro & Assoc. Ltd.,
 1016 - 510 W. Hastings St.,
 Vancouver, B.C.
 V6B 1L8

CERTIFICATE NO. 46587

INVOICE NO. 29242

ATTN:

IJV

DATE

Dec. 8/78

	DESCRIPTION	SUB-TOTAL	TOTAL
20	Analyzed for Cu, Pb & Zn @ \$2.70 No preparation charge	\$54.00 10.80	
	Less 20%		\$43.20
	<i>445</i>		
	<i>per Dec 11/78</i> <i>2 # 448</i>		

TERMS—NET 30 DAYS

78-040

1½% Per Month (18% Per Annum) Charged on Overdue Accounts



INVOICE

Tel. (604) 985-0648

Telex 042-62697

CHEMEX LABS LTD. 212 BROOKSBANK AVENUE, NORTH VANCOUVER, B.C. CANADA V7J 2C1

Archer Cathro & Assoc. Ltd.,

DATE August 21, 1978

Box 4127

INVOICE NO. 27591

Whitehorse, Y. T.

CERTIFICATE NO. 45014

VIA 3S9

IJV *SS*

ATTN. _____

ITEM	DESCRIPTION	SUB-TOTAL	TOTAL
30 30	Analyzed for Cu, Pb, Zn, & Ba @ \$5.70 Prepared @ \$1.25 (ROCKS) Less 20%	\$171.00 37.50 <hr/> 208.50 41.70	
<p><i>plus #436</i> <i>1/4 # 27641 - 38.38</i></p> <p><i>per Cathro 8/28</i> <i>4 # 430</i></p>		<i>27861</i>	<p>\$166.80 <i>738</i> <hr/><i>174.18</i></p>

TERMS—NET 30 DAYS

76-040

1½% Per Month (18%) Per Annum Charged on Overdue Accounts

NOT GOOD FOR PASSAGE

TRADEWINDS Aviation Limited

AUDIT COUPON

CF *HEP* Pilot *GILBERT* Date *JULY 3/78*

Chartered to *ARCURE CATHRO*

Address

From	To	No. of Pass.	W.T.	Hrs.	Miles
<i>FARO</i>	<i>ROSS</i>				<i>35</i>
	<i>BEFF LN</i>	<i>2</i>			<i>100</i>
	<i>FARO</i>				<i>100</i>
Passenger Miles				Total H/M	<i>235</i>

Fare: *235* Miles @ \$ *999.* \$ *232.65*
 Fare: Hours @ \$ \$
 Plus:
 Waiting Time: @ \$ \$
 Extra Landings: @ \$ \$
 Other: \$

PAID CHARGE TOTAL CHARGE *232.65*

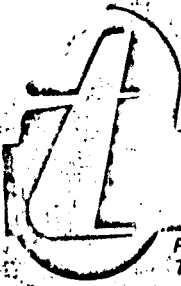
This ticket is expressly subject to the conditions printed on the reverse side of ticket.

NAME OF PASSENGER	Passengers Acceptance of Conditions as printed on reverse side
<i>BOB CATHRO</i>	<i>+ MICK PHILLIPS</i>
<i>(Signature)</i>	<i>20 July 1978</i>
	<i>LA 417</i>

(Signature)

I hereby authorize the above charges

No. 5464 ✓



ROSS RIVER
YUKON
CANADA

FIXED AND ROTARY
WING AIRCRAFT

terr-air LTD.
(TERRITORIAL AIRWAYS)

PHONE: 969-0040 FARO 994-2789
TELEX: TERR-AIR ROSS

PROJECT: X. CHARTER TICKET No 4070
 AIRCRAFT XON HUGHES 500D DATE JUNE 30/58
 NAME Archer, Cathro & Associates Ltd
 ADDRESS P.O. Box 427, Whitehorse, Y.T.
(ITV - ESS CLS)

FLIGHT/PASSENGER DETAILS	HOURS	MINS.	FUEL
TO CAMP w fuel 2 45's	1.1		
CREW OUT (5) SLING	2.0		
7 LANYARD, 4 BARRELL SLINGS			
2.4 POINT SLINGS & ROD SLINGS			6
1 SHACK SLING 3, 16 NETS			
1 RADIO SLINGING, 2 CHAIN			
BINDERS, 4 CLEVIS			
SHEDDON FUEL	.4		
CREWS IN SLING	.7		
SLING 8.7 hrs	3.5		
RTN Ross Pt	1.0		
TOTAL HRS 8.7 @ 315.00 PER HR.	2740.50		
EXTRA CHARGES fuel 270 gals @ 2.00 gal	540.00		
TOTAL CHARGES \$	3280.50		

[Signature]
Charterer's Authorization

[Signature]
Pilot's Signature

ROSS RIVER
YUKON
CANADA

FIXED AND ROTARY
WING AIRCRAFT

terr-air
(TERRITORIAL AIRWAYS)

PHONE: 969-0040 FARO 994-2789
TELEX: TERR-AIR ROSS

No.		ces Ltd.,
✓	DR. OR CR.	BALAN
		3,280
		00
		2322

PROJECT: _____ CHARTER TICKET N^o 4042
 AIRCRAFT XON 500 D DATE JULY 16/78
 NAME ARCHER CATHRO + ASSOCIATES
 ADDRESS Box 4127
WHITEHORSE YT.

FLIGHT/PASSENGER DETAILS HOURS MINS. FUEL

DKILL MOVE
FSS PROPERTY, 6.5

MT 45'S RTN
TO WPK YR BELONGING
TO TERR AIR.

5 @ 40.00 \$200.00

↓

TOTAL HRS 6.5 • 315.00 PER HR. \$2047.50

EXTRA CHARGES 250.00 75.00

250.00 TOTAL CHARGES 2322.50

2322.50

[Signature]
Charterer's Authorization

[Signature]
Pilot's Signature

NORTHERN MOUNTAIN HELICOPTERS INC.

CHARTER AND CONTRACT TICKET

From *Cathlamet (LTV)* Date *June 18/78*

Pilot *[Signature]* P.O. *[Blank]*
 A/C Type *206 B* Base *CF-6611C* Cash *[Blank]* Cheque *[Blank]* Charge *[Blank]*
 From *Mac Pass local* Area *Yukon*

To (2) *[Blank]* To (3) *0.5 Staring*
 To (4) *[Blank]* To (5) *0.5 ESS*
 To (6) *[Blank]* To (7) *[Blank]*
 To (8) *[Blank]* To (9) *[Blank]*
 To (10) *[Blank]* To (11) *[Blank]*

Charter Rate	<i>11.0</i>	Hours at \$	<i>330.00</i>		\$ <i>330.00</i>
Contract Rate		Hours at \$			
Fuel Charge	<i>Mac Pass</i>		<i>23 gals @ 1.50</i>		<i>35.00</i>
Pilot Expenses	<i>[Blank]</i>				
Other	<i>[Blank]</i>				
I personally guarantee payment of this charter					
Authorized by: <i>[Signature]</i>					
This ticket is expressly subject to the conditions printed on the reverse side of ticket and which are hereby accepted: (Passengers' Signature)					
					TOTAL CHGE. <i>385.00</i>

1. *[Blank]*
2. *[Blank]*
3. *[Blank]*
4. *[Blank]*
5. *[Blank]*
6. *[Blank]*
7. *[Blank]*
8. *[Blank]*
9. *[Blank]*
10. *[Blank]*
11. *[Blank]*
12. *[Blank]*

8785

MAIN BASE
 P.O. Box 368
 Prince George, B.C.
 Phone 963-9622
 Telex 047-8027

2 BASE
 P.O. Box 280
 Fort St. James, B.C.
 Phone 996-7208

No. of Departures *[Blank]*

No. of Passengers *[Blank]*

Lbs. cargo *[Blank]*

No. of hours flown *1.0*

Miles flown *[Blank]*

Base or designated Pt. *Mac Pass*

Class of flying *[Blank]*

NORTHERN MOUNTAIN HELICOPTERS INC.
 P.O. BOX 368, PRINCE GEORGE, B.C.
 V2L 4S2

Service Charge of 1% per Month on Overdue Accounts

PAY LAST AMOUNT ABOVE

ESS 182.50

NORTHERN MOUNTAIN HELICOPTERS INC.

CHARTER AND CONTRACT TICKET

Date: June 19/78
 Pilot: [Signature]
 Base: [Blank] Cash: [Blank] Cheque: [Blank] Charge: [Blank]
 A/C Type: 206B CF: GGME Area: Yakon

From: Mac Pass To (1): [Blank]
 To (2): [Blank] To (3): 1.75 to 6 y
 To (4): [Blank] To (5): 03 ESS GR
 To (6): [Blank] To (7): [Blank]
 To (8): [Blank] To (9): [Blank]
 To (10): [Blank] To (11): [Blank]

Charter Rate	2.0	Hours at \$	330.00		\$ 660.00
Contract Rate		Hours at \$			
Fuel Charge	<u>Mac Pass 46 gals @ 1.50</u>				69.00
Pilot Expenses					
Other					
I personally guarantee payment of this charter.				TOTAL CHGE.	<u>729.00</u>
Authorized by: <u>[Signature]</u>					

This ticket is expressly subject to the conditions printed on the reverse side of ticket and which are hereby accepted: (Passengers' Signature)

- 1. _____ 7. _____
- 2. _____ 8. _____
- 3. _____ 9. _____
- 4. _____ 10. _____
- 5. _____ 11. _____
- 6. _____ 12. _____

8787
 MAIN BASE
 P.O. Box 368
 Prince George, B.C.
 Phone 963-9622
 Telex 047-8027
 2 BASE
 P.O. Box 280
 Fort St. James, B.C.
 Phone 996-7208

No. of Departures	No. of Passengers	No. of hours flown	Base or designated Pt.
<u>[Blank]</u>	<u>4</u>	<u>2.0</u>	<u>Mac Pass</u>
Lbs. cargo	Miles flown	Class of flying	
<u>[Blank]</u>	<u>[Blank]</u>	<u>[Blank]</u>	

NORTHERN MOUNTAIN HELICOPTERS INC.
 P.O. BOX 368, PRINCE GEORGE, B.C.
 V2L 4S2

TERMS: NET 30 DAYS
 Service Charge of 1% per
 Month on Overdue Accounts

PLEASE PAY
 LAST AMOUNT
 ABOVE

ESS 109.35

NORTHERN MOUNTAIN HELICOPTERS INC.

CHARTER AND CONTRACT TICKET

Mac Pass

Date *June 20/70*

Pilot	Base	Cash	Cheque	Charge
<i>[Signature]</i>	<i>CFGGMC</i>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
A/C Type	Area	P.O.		
<i>206 B</i>	<i>Yukon</i>	<i>[Signature]</i>		

From *Mac Pass local* To (1) *[Signature]*

To (2) _____ To (3) _____

To (4) _____ To (5) _____

To (6) _____ To (7) _____

To (8) _____ To (9) _____

To (10) _____ To (11) _____

Charter Rate	<i>1.2</i> Hours at \$		
Contract Rate	Hours at \$	<i>330.00</i>	\$ <i>396.00</i>
Fuel Charge	<i>Mac Pass 28 gals @ 1.50</i>		<i>42.00</i>
Pilot Expenses			
Other			

I personally guarantee payment of this charter.

Authorized by: *[Signature]*

This ticket is expressly subject to the conditions printed on the reverse side of ticket and which are hereby accepted: (Passengers' Signature)

TOTAL CHGE. *438.00*

8788

1. _____
2. _____
3. _____
4. _____
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7. _____
8. _____
9. _____
10. _____
11. _____
12. _____

MAIN BASE
P.O. Box 368
Prince George, B.C.
Phone 963-9622
Telex 047-8027

2 BASE
P.O. Box 280
Fort St. James, B.C.
Phone 996-7208

No. of Departures	No. of Passengers	No. of hours flown	Base or designated Pt.
<input type="checkbox"/>	<i>4</i>	<i>1.2</i>	<i>Mac Pass</i>
Lbs. cargo	Miles flown	Class of flying	
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

NORTHERN MOUNTAIN HELICOPTERS INC.
P.O. BOX 368, PRINCE GEORGE, B.C.
V2L 4S2

TERMS: NET 30 DAYS
Service Charge of 1% per Month on Overdue Accounts

PAY LAST AMOUNT ABOVE

ESS 438.00

NORTHERN MOUNTAIN HELICOPTERS INC.

CHARTER AND CONTRACT TICKET

Cher Co. Hco

Date: *June 21/76*

P.O. *Yakona*

Pilot: <i>Jim Swan</i>	Base: <i>EGMC</i>	Cash: <input checked="" type="checkbox"/>	Cheque: <input type="checkbox"/>	Charge: <input type="checkbox"/>
A/C Type: <i>206B</i>	CF: <i>EGMC</i>	Area: <i>Yakona</i>		

From: <i>local</i>	To (1)
To (2)	To (3)
To (4)	To (5)
To (6)	To (7)
To (8)	To (9)
To (10)	To (11)

Charter Rate: <i>1.11</i>	Hours at \$: <i>330.00</i>	\$: <i>363.00</i>
Contract Rate	Hours at \$	
Fuel Charge: <i>MAR PASS 25 gals @ 1.50</i>		<i>38.00</i>
Pilot Expenses		
Other		

I personally guarantee payment of this charter.

Authorized by: *[Signature]*

TOTAL CHGE. *401.00*

This ticket is expressly subject to the conditions printed on the reverse side of ticket and which are hereby accepted: (Passengers' Signature)

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| 1. | 7. |
| 2. | 8. |
| 3. | 9. |
| 4. | 10. |
| 5. | 11. |
| 6. | 12. |

8793

MAIN BASE
P.O. Box 368
Prince George, B.C.
Phone 963-9622
Telex D47-8027

2 BASE
P.O. Box 280
Fort St. James, B.C.
Phone 996-7208

No. of Departures	No. of Passengers	No. of hours flown	Base or designated Pt.
<i>[Blank]</i>	<i>[Blank]</i>	<i>[Blank]</i>	<i>MAR PASS</i>
	Lbs. cargo	Miles flown	Class of flying
	<i>[Blank]</i>	<i>[Blank]</i>	<i>[Blank]</i>

NORTHERN MOUNTAIN HELICOPTERS INC.
P.O. BOX 368, PRINCE GEORGE, B.C.
V2L 4S2

TERMS - NET 30 DAYS
Service Charge of 1% per
Month on Overdue Accounts

PLEASE PAY
LAST AMOUNT
ABOVE

\$\$\$ 401.00

NORTHERN MOUNTAIN HELICOPTERS INC.

CHARTER AND CONTRACT TICKET

Charge To: Archer Pathco		Date: July 1/78	
ITV			
Pilot: [Signature]		P.O.:	
Base: [Blank]	Cash: [Blank]	Cheque: [Blank]	Charge: [Blank]
A/C Type: 206-3	C/G: GOMC	Area: Yukon	

From: MHC Pass Total	To (1): 12 Drillers
To (2):	To (3): .9 Staking
To (4):	To (5):
To (6):	To (7):
To (8):	To (9):
To (10):	To (11):

Charter Rate: 2.1	Hours at \$: 330.00	\$: 693.00
Contract Rate:	Hours at \$:	
Fuel Charge: MHC Pass	49 gals @ 1.50	72.00
Pilot Expenses:		
Other:		
I personally guarantee payment of this charter.		TOTAL CHGE. 765.00
Authorized by: [Signature]		

This ticket is expressly subject to the conditions printed on the reverse side of ticket and which are hereby accepted: (Passengers' Signature)

8816

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|----|-----|
| 1. | 7. |
| 2. | 8. |
| 3. | 9. |
| 4. | 10. |
| 5. | 11. |
| 6. | 12. |

MAIN BASE
P.O. Box 368
Prince George, B.C.
Phone 963-9622
Telex 047-8027
Z BASE
P.O. Box 280
Fort St. James, B.C.
Phone 996-7208

No. of Departures: 5	No. of Passengers: 6	No. of hours flown: 2.1	Base or designated Pt.: MHC Pass
Lbs. cargo:	Miles flown:	Class of flying:	

ESS 327.85

NORTHERN MOUNTAIN HELICOPTERS INC.

CHARTER AND CONTRACT TICKET

Charge To: <i>Archie Cathro</i>		Date: <i>July 2 / 78</i>	
P.O. <i>ETU</i>			
Pilot: <i>Paul S...</i>	Base:	Cash:	<input checked="" type="checkbox"/> Cheque <input type="checkbox"/> Charge
A/C Type: <i>206 D</i>	Of: <i>GGMC</i>	Area: <i>Yukon</i>	

From <i>Mac Pass / local</i>	To (1)
To (2)	To (3)
To (4)	To (5)
To (6)	To (7)
To (8)	To (9)
To (10)	To (11)

Charter Rate	<i>3.0</i>	Hours at \$	<i>330.00</i>	\$	<i>990.00</i>
Contract Rate		Hours at \$			
Fuel Charge	<i>Mac Pass</i>	<i>69 gals @ 1.50</i>			<i>104.00</i>
Pilot Expenses					
Other					
I personally guarantee payment of this charter.				TOTAL CHGE.	<i>1094.00</i>
Authorized by: <i>[Signature]</i>					

This ticket is expressly subject to the conditions printed on the reverse side of ticket and which are hereby accepted: (Passengers' Signature)

8823

- 1. Mac Drillers, 1.17.*
- 2. Geology 1.9*
-
-
-
-
-
-
-
-
-
-

MAIN BASE
 P.O. Box 368
 Prince George, B.C.
 Phone 963-9622
 Telex 047-8027
 2 BASE
 P.O. Box 280
 Fort St. James, B.C.
 Phone 996-7208

No. of Departures	No. of Passengers	No. of hours flown	Base or designated Pt.
<i>[Box]</i>	<i>[Box]</i>	<i>[Box] 3.0</i>	<i>[Box] Mac Pass</i>
	Lbs. cargo	Miles flown	Class of flying
	<i>[Box]</i>	<i>[Box]</i>	<i>[Box]</i>

Ess 401.13

NORTHERN MOUNTAIN-HELICOPTERS INC.

CHARTER AND CONTRACT TICKET

Charge To:

Archer Path

Date: *July 3 78*

Pilot

Jan Swan

P.O.

A/C Type

206B

Base

of GMC

Cash

Cheque

Charge

Area

Yukon

From

Mac Pass local

To (1)

1.8 Dr. Hens.

To (2)

To (3)

1.5 Geology

To (4)

To (5)

To (6)

To (7)

To (8)

To (9)

To (10)

To (11)

Charter Rate

3.3

Hours at \$

330.00

Contract Rate

Hours at \$

\$ *1089.00*

Fuel Charge

Mac Pass

76 gal @ 1.50

114.00

Pilot Expenses

Other

I personally guarantee payment of this charter

Authorized by:

W. O. An. Min

This ticket is expressly subject to the conditions printed on the reverse side of ticket and which are hereby accepted: (Passengers' Signature)

TOTAL CHGE.

1203.00

8828

MAIN BASE
 P.O. Box 368
 Prince George, B.C.
 Phone 963-9622
 Telex 047-8027
2 BASE
 P.O. Box 280
 Fort St. James, B.C.
 Phone 996-7208

Base or designated Pt.

Mac Pass

Class of flying

[] [] [] [] [] []

No. of Departures

[]

No. of Passengers

9

Lbs. cargo

[]

No. of hours flown

3.3

Miles flown

[]

Σ 55 656.18

HELICOPTERS INC.

CHARTER AND CONTRACT TICKET.

Date: July 4/67

Pilot						P.O.	
A/C Type		Base	Cash	Cheque	Charge		
206 B		CF60MC			<input checked="" type="checkbox"/>		
		Area	Yukon				

From	MPC Pass local	To (1)	1.3	Drillers
To (2)	Crew meals	To (3)	.9	Ecology
To (4)		To (5)		
To (6)		To (7)		
To (8)		To (9)		
To (10)		To (11)		

Charter Rate	2.2	Hours at \$	330.00	\$	726.00
Contract Rate		Hours at \$			
Fuel Charge	MPC Pass	51.00 @ 1.5			77.00
Pilot Expenses					
Other					

I personally guarantee payment of this charter.
 Authorized by: *Charles A. McNeil*

TOTAL CHGE. 803.00

8831

MAIN BASE
 P.O. Box 368
 Prince George, B.C.
 Phone 963-9622
 Telex 047-8027

2 BASE
 P.O. Box 280
 Fort St. James, B.C.
 Phone 996-7208

1. _____
2. _____
3. _____
4. _____
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7. _____
8. _____
9. _____
10. _____
11. _____
12. _____

No. of Departures	No. of Passengers	No. of hours flown	Base or designated PL
	7	2.2	MPC Pass
Lbs. cargo		Miles flown	Class of flying

555 474.50

Loss of claim of 10 to 25

CONTRACT

HELICOPTERS INC.

CHARTER AND CONTRACT TICKET

Proctor Sutton

Date *July 5/72*

Pilot <i>[Signature]</i>				Base	Cash	Cheque	Charge <input checked="" type="checkbox"/>
A/C Type <i>206 B</i>		CF <i>60MC</i>		Area <i>Yukon</i>			

From <i>11000</i>	To (1)
To (2)	To (3)
To (4)	To (5)
To (6)	To (7)
To (8)	To (9)
To (10)	To (11)

Charter Rate <i>32</i>	Hours at \$ <i>330.00</i>	\$ <i>1056.00</i>
Contract Rate	Hours at \$	
Fuel Charge <i>111.00</i>		<i>111.00</i>
Pilot Expenses		
Other		
I personally guarantee payment of this charter.		TOTAL CHGE. <i>1167.00</i>

This ticket is expressly subject to the conditions printed on the reverse side of ticket and which are hereby accepted: (Passengers' Signature)

8835

- 1. *[Signature]*
- 2. *[Signature]*
- 3.
- 4.
- 5.
- 6.
- 7.
- 8.
- 9.
- 10.
- 11.
- 12.

MAIN BASE
P.O. Box 368
Prince George, B.C.
Phone 963-9622
Telex 047-8027

2 BASE
P.O. Box 280
Fort St. James, B.C.
Phone 996-7208

No. of Departures	No. of Passengers	No. of hours flown	Base or designated Pt.
<input type="text"/>	<input type="text"/>	<input type="text" value="3.2"/>	<i>MAC Pass</i>
	Lbs. cargo	Miles flown	Class of flying
	<input type="text"/>	<input type="text"/>	<input type="text"/>

655 320.22

Loss of claim of \$5 of paid to CS OF CONTRACT

HELICOPTERS INC.

CHARTER AND CONTRACT TICKET

Date <u>July 6/78</u>					
P.O.					
Pilot <u>S. [unclear]</u>	Base	Cash	Cheque	Charge	<input checked="" type="checkbox"/>
A/C Type <u>206 B</u>	CF <u>95.6</u>	Area <u>Yukon</u>			

From <u>[unclear]</u>	To (1)
To (2)	To (3)
To (4)	To (5)
To (6)	To (7)
To (8)	To (9)
To (10)	To (11)

Charter Rate <u>1.0</u>	Hours at \$ <u>594.00</u>	\$ <u>594</u>	<u>00</u>
Contract Rate	Hours at \$		
Fuel Charge <u>400 @ 1.50</u>		<u>62</u>	<u>00</u>
Pilot Expenses			
Other			
I personally guarantee payment of this charter, Authorized by: <u>[Signature]</u>		TOTAL CHGE.	<u>656.00</u>

This ticket is expressly subject to the conditions printed on the reverse side of ticket and which are hereby accepted: (Passengers' Signature)

8837

- | | |
|---------------------|-----|
| 1. <u>[unclear]</u> | 7. |
| 2. <u>[unclear]</u> | 8. |
| 3. | 9. |
| 4. | 10. |
| 5. | 11. |
| 6. | 12. |

MAIN BASE
P.O. Box 368
Prince George, B.C.
Phone 963-9622
Telex 047-8027

2 BASE
P.O. Box 280
Fort St. James, B.C.
Phone 996-7208

No. of Departures	No. of Passengers	No. of hours flown	Base or designated Pt.
<input type="text"/>	<input type="text"/>	<u>1.5</u>	<u>TIME PASS</u>
	Lbs. cargo	Miles flown	Class of flying
	<input type="text"/>	<input type="text"/>	<input type="text"/>

695 218.67

Archer - Cathco

Date *July 7/75*

Pilot *[Signature]* Base *[Blank]* P.O. *[Blank]*

A/C Type *206 B* CF *GGMC* Cash Cheque Charge Area *Yukon*

From *[Blank]* To (1) *[Blank]*

To (2) *[Blank]* To (3) *[Blank]*

To (4) *[Blank]* To (5) *[Blank]*

To (6) *[Blank]* To (7) *[Blank]*

To (8) *[Blank]* To (9) *[Blank]*

To (10) *[Blank]* To (11) *[Blank]*

Charter Rate *1.7* Hours at \$ *330.00*

Contract Rate Hours at \$ *561.00*

Fuel Charge *[Blank]*

Pilot Expenses *39.00* *21.50* *59.00*

Other *[Blank]*

I personally guarantee payment of this charter.

Authorized by: *[Signature] ESS*

This ticket is expressly subject to the conditions printed on the reverse side of ticket and which are hereby accepted: (Passengers' Signature)

TOTAL CHGE. *620.00*

8842

MAIN BASE
 P.O. Box 368
 Prince George, B.C.
 Phone 963-9622
 Telex 047-8027

2 BASE
 P.O. Box 280
 Fort St. James, B.C.
 Phone 996-7208

1. *[Blank]*
2. *[Blank]*
3. *[Blank]*
4. *[Blank]*
5. *[Blank]*
6. *[Blank]*
7. *[Blank]*
8. *[Blank]*
9. *[Blank]*
10. *[Blank]*
11. *[Blank]*
12. *[Blank]*

No. of Departures

No. of Passengers

Lbs. cargo

No. of hours flown

Miles flown

Base or designated Pt. *MAC Base*

Class of flying

ESS 620.00

Archie's Cathra

Date *July 8/78*

Pilot	Base	Cash	P.O.	
A/C Type	CF	Area	Cheque	Charge

From	To (1)
To (2)	To (3)
To (4)	To (5)
To (6)	To (7)
To (8)	To (9)
To (10)	To (11)

Charter Rate	Hours at \$		
Contract Rate	Hours at \$		
Fuel Charge			
Pilot Expenses			
Other			
TOTAL CHGE.			

BALAN

8
97

Mac Pass Inc

Yukon

2.4 Hours at \$ *330.00*

\$ *792.00*

Mac Pass 55 gals @ 1.50

83.00

11.1 hours (I.T.V)

875.00

8847

I personally guarantee payment of this charter.

Authorized by:

This ticket is expressly subject to the conditions printed on the reverse side of ticket and which are hereby accepted: (Passengers' Signature)

- Drill 1.0*
- Geology 1.4*
-
-
-
-

MAIN BASE
 P.O. Box 368
 Prince George, B.C.
 Phone 963-9622
 Telex D47-8027
2 BASE
 P.O. Box 280
 Fort St. James, B.C.
 Phone 996-7208

No. of Departures	No. of Passengers	No. of hours flown	Base or designated Pt.
	Lbs. cargo	Miles flown	Class of flying

Σ 364.58

Hecken, C. Thron

Date *July 9/78*

Pilot <i>Jan Soren</i>				P.O.			
A/C Type <i>206 D</i>		Base <i>CP</i>		Cash		Cheque <input checked="" type="checkbox"/> Charge	
From <i>MAC Pass / local</i>				Area <i>Yukon</i>			

From	To (1)
To (2)	To (3)
To (4)	To (5)
To (6)	To (7)
To (8)	To (9)
To (10)	To (11)

Charter Rate <i>1.3</i>	Hours at \$	<i>330.00</i>			
Contract Rate	Hours at \$				\$ <i>429.00</i>
Fuel Charge <i>MAC Pass</i>		<i>30 gal @ 1.50</i>			<i>45.00</i>
Pilot Expenses <i>1.1111</i>					
Other <i>1.1111</i>					

I personally guarantee payment of this charter.

Authorized by: *W. H. Williams IV*

TOTAL CHGE. *474.00*

This ticket is expressly subject to the conditions printed on the reverse side of ticket and which are hereby accepted: (Passengers' Signature)

1. *Drill* 1.3.
- 2.
- 3.
- 4.
- 5.
- 6.
- 7.
- 8.
- 9.
- 10.
- 11.
- 12.

9779

MAIN BASE
P.O. Box 368
Prince George, B.C.
Phone 963-9622
Telex 047-8027

2 BASE
P.O. Box 280
Fort St. James, B.C.
Phone 996-7208

No. of Departures	No. of Passengers	No. of hours flown <i>1.3</i>	Base or designated Pt. <i>MAC Pass</i>
	Lbs. cargo	Miles flown	Class of flying

ESS 474.00

MAINTAIN HELICOPTERS INC.

CHARTER AND CONTRACT TICKET

Robert C. Caffre Date July 16/78

JC Type		Base	Cash	Cheque	Charge
2063		CP BGMCO		<input checked="" type="checkbox"/>	
Area		Yukon			

From *MAC Pass local* To (1)

To (2) To (3)

To (4) To (5)

To (6) To (7)

To (8) To (9)

To (10) To (11)

Charter Rate	Hours at \$	330.00	\$	231.00
Contract Rate	Hours at \$			
Fuel Charge	<i>MAC Pass 16 gal @ 1.50</i>			24.00
Pilot Expenses				
Other				
I personally guarantee payment of this charter.			TOTAL CHGE.	255.00
Authorized by: <i>W. Williams JUV</i>				

This ticket is expressly subject to the conditions printed on the reverse side of ticket and which are hereby accepted: (Passengers' Signature)

1. *DD*
- 2.
- 3.
- 4.
- 5.
- 6.
- 7.
- 8.
- 9.
- 10.
- 11.
- 12.

9785

MAIN BASE
P.O. Box 368
Prince George, B.C.
Phone 963-9622
Telex 047-8027

2 BASE
P.O. Box 280
Fort St. James, B.C.
Phone 996-7208

No. of Departures	No. of Passengers	No. of hours flown	Base or designated Pt.
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<i>MAC Pass</i>
	Lbs. cargo	Miles flown	Class of flying
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

555 255.00

STAIN HELICOPTERS INC.

CHARTER AND CONTRACT TICKET

Date July 11/70

VC Type	Base	Cash	Chegue	Charge
<u>LOG 1</u>	<u>CFRMC</u>		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Area	<u>Yukon</u>			

From MAC Pass local To (1)

To (2) To (3)

To (4) To (5)

To (6) To (7)

To (8) To (9)

To (10) To (11)

Charter Rate	<u>3.5</u> Hours at \$	<u>330.00</u>	\$	<u>1155.00</u>
Contract Rate	Hours at \$			
Fuel Charge	<u>MAC Pass 2100 hr @ 1.00</u>			<u>2100.00</u>
Pilot Expenses	<u>()</u>			
Other	<u>()</u>			

I personally guarantee payment of this charter.

Authorized by: W. J. [Signature] TOTAL CHGE. 1277.00

This ticket is expressly subject to the conditions printed on the reverse side of ticket and which are hereby accepted: (Passengers' Signature)

1. Drill 2.2
2. Geology 1.3
- 3.
- 4.
- 5.
- 6.
- 7.
- 8.
- 9.
- 10.
- 11.
- 12.

9789

MAIN BASE
 P.O. Box 368
 Prince George, B.C.
 Phone 963-9622
 Telex 047-8027

2 BASE
 P.O. Box 280
 Fort St. James, B.C.
 Phone 996-7208

No. of Departures	No. of Passengers	No. of hours flown	Base or designated Pt.
	<u>6</u>	<u>3.5</u>	<u>MAC Pass</u>
Lbs. cargo	Miles flown	Class of flying	

ESS 802.69

NORTH WEST SURVEY CORPORATION (YUKON) LTD.

Land, Aerial and Photogrammetric Surveyors

AREA CODE 403
TELEPHONE 452-1450

12750 - 127 STREET
EDMONTON ALTA. T5L 1A5

INVOICE

DATE: May 10, 1978

JOB NO: 78-50

WITH: Archer Cathro Associates Ltd.

1016 Standard Building
510 West Hasting Street
VANCOUVER, B.C.
V6Z 1L8

Attn: Mr. T.J. Cathro

DESCRIPTION	UNIT PRICE	AMOUNT
For the provision of one (1) cronaflex positive of 10x14cm. Press Area of scale of 1:10,000 with 25' and 50' contours.		\$2,950.00
12" F.S.D.		\$5.28
		<hr/> \$2,955.28
		↑ 3045.28

RECEIVED

(As per your letter of March 22, 1978)

INVOICE NO: 00287

NET 15th OF MONTH FOLLOWING DATE OF INVOICE
PER MONTH (18% PER ANNUM) WILL BE CHARGED

E. Caron Diamond Drilling Limited

CONTRACT DIAMOND DRILLING

HEAD OFFICE:
7 ROUNDEL ROAD
WHITEHORSE, Y.T. Y1A-3H3
PHONE 688-2424 - 668-2425
TELEX 036-B-337

VANCOUVER OFFICE:
~~XXXXXX~~
~~XXXXXX~~
~~XXXXXX~~
PHONE 667-4634

August 31, 1978

Invoice #-453

IN ACCOUNT WITH:

Archer, Cathro & Associates Ltd.,
1016 Standard Building,
510 West Hastings Street,
Vancouver, B. C.

Misc. Charges for MacPass Project:

Demobilization
Drill Crew

ok

Fuel Charges

White Pass # 982365
Imperial Oil # 713

ok

Ticket MacPass on Mobilization

Air North # 844 (Mike Phillips)

ok

Supply Trip for Fuel

MacMillan Pass Services # 253

ok

Material Chargeable

Stabilized Core Barrel Cost

=			
=	\$	834.03	
=	\$	149.89	
=			\$ 600.00
=			\$ 983.92
=			\$ 84.00
=			\$ 92.80
=			\$ 300.00

See latter Invoice

*AS ITEM = 3
HEAVY DUTY
DRUMS.*

*Greenwood
Drum etc now at
Tom. Caronowes
US 3 drums*

Total Final Invoice \$2,060.72

E. Caron Diamond Drilling Limited

CONTRACT DIAMOND DRILLING

HEAD OFFICE:
7 ROUNDEL ROAD
WHITEHORSE, Y.T. Y1A-3H3
PHONE 668-2424 - 668-2425
TELEX 036-8-337

VANCOUVER OFFICE:
~~XXXXXX HOWE STREET XX~~
~~VANCOUVER B.C. V6C 7A6X~~
PHONE 687-4634

July 15, 1978

Invoice #-402

IN ACCOUNT WITH:

Archer, Cathro & Associates Ltd.,
1016 Standard Building,
510 West Hastings Street,
Vancouver, B. C.

Drilling Charges June 29 to July 16, 1978

(MacPass Project)

Hole: #-1/79°/NQ

Moving & Preparing Drill

119 man hrs.	@ \$14.50 per hr.	=	\$1,725.50	
<u>Mid Time</u>				
64 man hrs.	@ \$14.50 per hr.	= \$	928.00	
32 machine hrs.	@ \$10.00 per hr.	= \$	<u>320.00</u>	\$1,248.00
<u>Testing</u>				
8 man hrs.	@ \$14.50 per hr.	= \$	116.00	
4 machine hrs.	@ \$10.00 per hr.	= \$	<u>40.00</u>	\$ 156.00
<u>Truck Time</u>				
6 machine hrs.	@ \$25.00 per hr.	=	\$ 150.00	
<u>Casing</u>				
0 - 14 = 14 ft.	@ \$21.00 per ft.	=	\$ 294.00	
<u>Coring</u>				
8 - 100 = 92 ft.	@ \$22.50 per ft.	=	\$2,070.00	
100 - 500 = 400 ft.	@ \$21.00 per ft.	=	\$8,400.00	
500 - 732 = 232 ft.	@ \$22.00 per ft.	=	<u>\$5,104.00</u>	<u>\$15,574.00</u> \$19,147.50

Hole: #-2/84°/HQ-NQ

Moving

78 man hrs.	@ \$14.50 per hr.	=	\$1,131.00	
<u>Reaming Cave</u>				
4 man hrs.	@ \$14.50 per hr.	= \$	58.00	
2 machine hrs.	@ \$10.00 per hr.	= \$	<u>20.00</u>	\$ 78.00
<u>Mud Time</u>				
32 man hrs.	@ \$14.50 per hr.	= \$	464.00	
16 machine hrs.	@ \$10.00 per hr.	= \$	<u>160.00</u>	\$ 624.00
<u>Testing</u>				
2 man hrs.	@ \$14.50 per hr.	= \$	29.00	
1 machine hr.	@ \$10.00 per hr.	= \$	<u>10.00</u>	\$ 39.00
<u>Casing</u>				
0 - 12 = 12 ft.	@ \$21.00 per ft.	=	\$ 252.00	
<u>Coring</u>				
8 - 50 = 42 ft.	@ \$22.50 per ft.	= \$	945.00	
50 - 332 = 282 ft.	@ \$21.00 per ft.	=	<u>\$5,922.00</u>	<u>\$6,867.00</u> \$ 8,991.00

E. Caron Diamond Drilling Limited

CONTRACT DIAMOND DRILLING

HEAD OFFICE:
7 ROUNDEL ROAD
WHITEHORSE, Y.T. Y1A-3H3
PHONE 668-2424 - 668-2425
TELEX 036-8-337

VANCOUVER OFFICE:
XXYZAKHDKKXHEEY
VANCOUVER, B.C. V6L 2A8
PHONE 687-4834

Additional for Archer Cathro

<u>Mud</u>				
90 bags Quik-Gel	@ \$10.75 per bag	=	\$ 967.50	
53 bags Quik Trol	@ \$8.50 per bag	=	\$ 450.50	\$ 1,418.00
<u>Fuel</u>				
Imperial Oil Invoice # 790		=	\$ 431.10	
" " " # 710		=	\$ 134.89	
" " " # 789		=	\$ 273.51	
Fuel from Stock		=	\$ 492.48	\$1,331.98
	+ 15%	=	\$ 199.79	\$ 1,531.77
<u>Core Boxes</u>				
54 NQ core boxes	@ \$7.50 per box	=	\$ 405.00	
15 HQ core boxes	@ \$7.50 per box	=	\$ 112.50	
50 lids	@ \$1.50 per lid	=	\$ 75.00	\$ 592.50
<u>Core Splitter</u>				
\$100.00/2 weeks rental		=		\$ 100.00
<u>Fresh Grocery Supply Trip MacPass from Whitehorse</u>				
Yukon Airways Invoice # 2784		=		\$ 528.00
<u>MacPass with Groceries using Jeep</u>				
390 miles	@ .35¢/mile/pickup	=	\$ 136.50	
9 man hrs.	@ \$14.50 per hr.	=	\$ 130.50	\$ 267.00
<u>Supply Trip from Ross River to MacPass</u>				
MacMillan Services Invoice #-00074		=		\$ 25.00
<u>Mobilization</u>				
Drill Crew		=		\$ 600.00
			Total Invoice	<u>\$33,200.77</u>

- credits \$ 729.89.



TABLE OF FORMATIONS

- RECENT**
- Q** Unconsolidated alluvial and glacial till
- CRETACEOUS**
- Kg** Quartz monzonite or quartz-feldspar porphyry
- MISSISSIPPIAN TO PERMIAN (?)**
- IMPERIAL FORMATION**
- Ist** Buff to brown weathering, light to medium grey siltstone and calcareous siltstone
- LOWER DEVONIAN TO MISSISSIPPIAN**
- CANOL FORMATION**
- Cst** Grey, glistripe weathering non-carbonaceous siltstone
 - Csh** Black, carbonaceous, silvery blue weathering shale with minor interbedded cherty argillite and chert
- ORDOVICIAN TO LOWER DEVONIAN**
- ROAD RIVER FORMATION**
- Rm** Mudstone - soft, black carbonaceous
 - Rms** Mudstone - siliceous, black, carbonaceous
 - RLs** Limestone - black, carbonaceous

LEGEND

- normal fault
- anticline, syncline
- bedding - vertical, inclined
- plunge of cleavage/bedding intersections
- geophysical grid
- Max-min conductor
- nodular barite

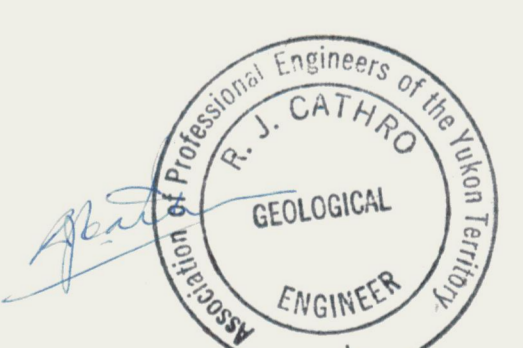
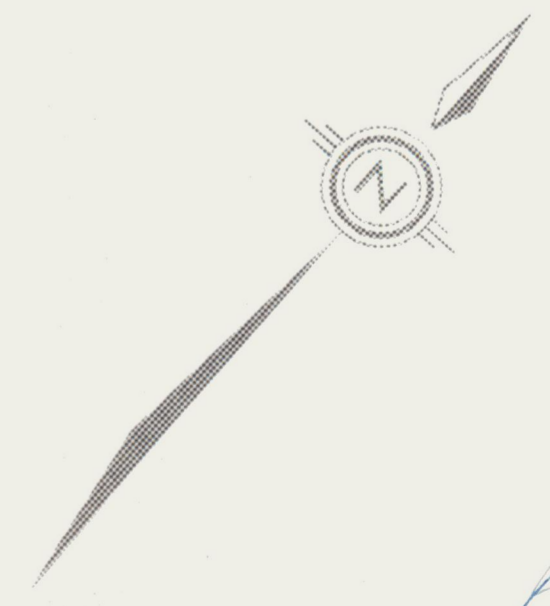
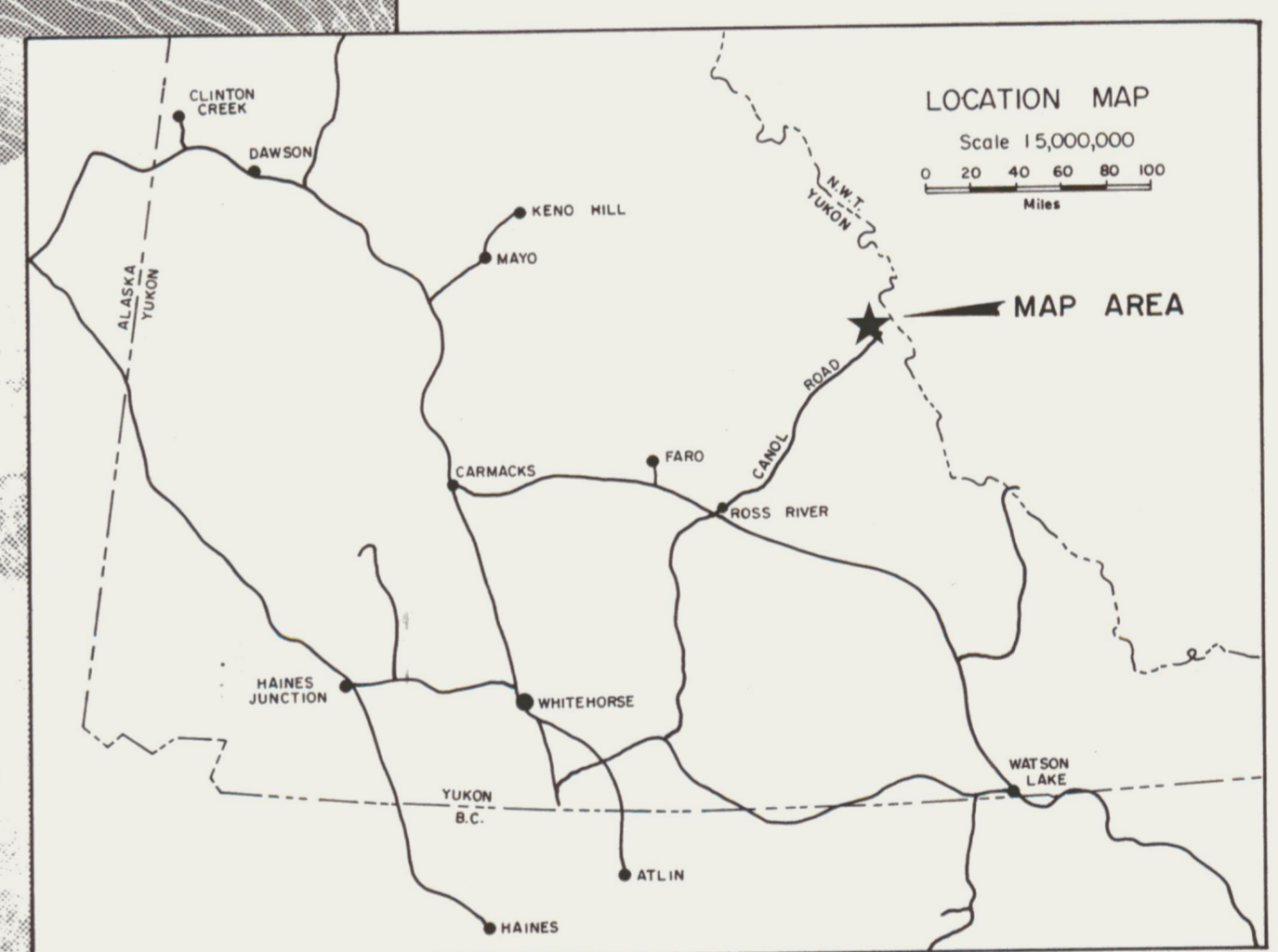
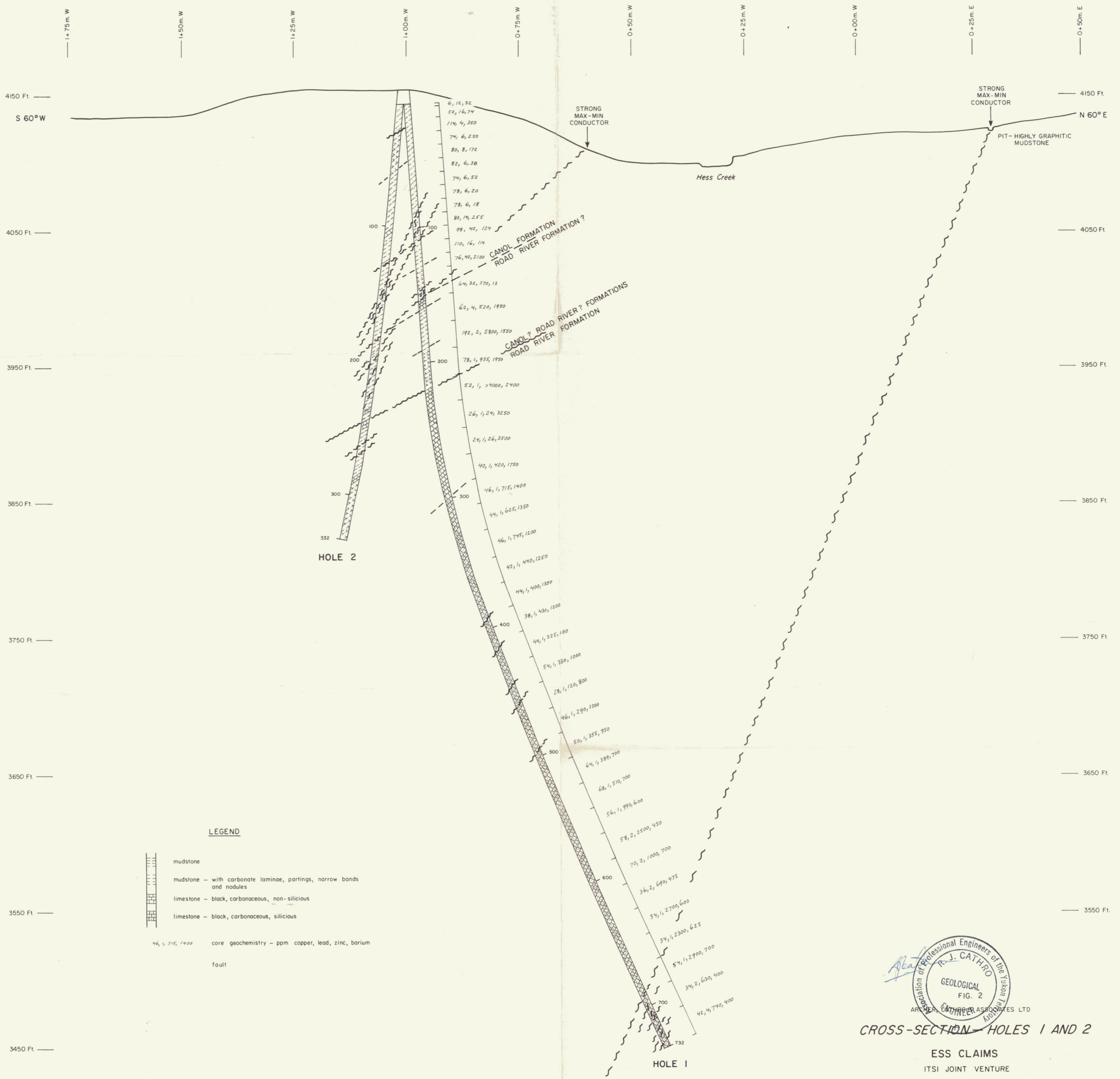


FIG. 1
 ARCHER, CATHRO & ASSOCIATES LTD
ESS AND MOONLIGHT CLAIM GROUPS
 ITSJI JOINT VENTURE

SCALE 1:10,000				
FEET	1000	0	1000	2000
AERIAL PHOTOGRAPHY BY GOVERNMENT OF CANADA				
CONTROL BY HOSFORD IMPRY & WELTER				
NORTH WEST SURVEY CORPORATION (YUKON) LTD				
NWDC JOB NOS. 76-108 AND 78-50				



Professional Engineers of the Yukon Territory
R. J. CATHRO
 GEOLOGICAL
 FIG. 2
 ARCHITECTS ASSOCIATES LTD
 1000
CROSS-SECTION - HOLES 1 AND 2
ESS CLAIMS
 ITSJ JOINT VENTURE