

MAP NO:105D/16

ASSESSMENT REPORT: X

DOCUMENT NO: 093244

PROSPECTUS:

MINING DISTRICT: Whitehorse

CONFIDENTIAL: X

TYPE OF WORK:Trenching

OPEN FILE:

REPORT FILED UNDER: Larry Carlyle

DATE PERFORMED:June 30-July 14, 1994

DATE FILED:July 28, 1994

LATITUDE:60 56

AREA:Mt. Byng

LONGITUDE:134 22

VALUE:\$2500

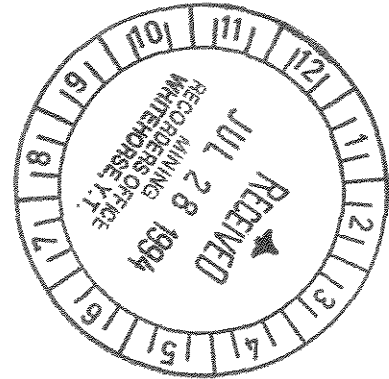
CLAIM NAME AND #:BM 1-4, 5-47

WORK DONE BY:Larry Carlyle

WORK DONE FOR:Larry Carlyle

DATE TO GOOD STANDING	

REMARKS:Hand trenching was performed on the R-17 and Main Zone. Two grab samples of vuggy iron stained quartz from Main Zone trenching returned >6667 ppb Au.



REPORT ON THE 1994 WORK PROGRAM

BM CLAIMS, MT. BYNG AREA

WHITEHORSE MINING DISTRICT, YUKON

NTS 105 D - 16

by

Larry W. Carlyle, F.G.A.C., P. Geol.

Whitehorse, Yukon

July, 1994



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INTRODUCTION

The first BM Claims were originally staked by S. Drew MacDonald and Larry W. Carlyle in July, 1986. From that time to the present, sporadic prospecting, claim staking, geological mapping, rock and soil sampling, VLF-EM and ground magnetic surveying, and hand and blast trenching have been performed on the property.

In 1994, Larry Carlyle spent 14 days on the property (June 30 - July 14) doing hand trenching on areas of interest in the R - 17 Zone and Main Zone located on the property (See Figure 1).

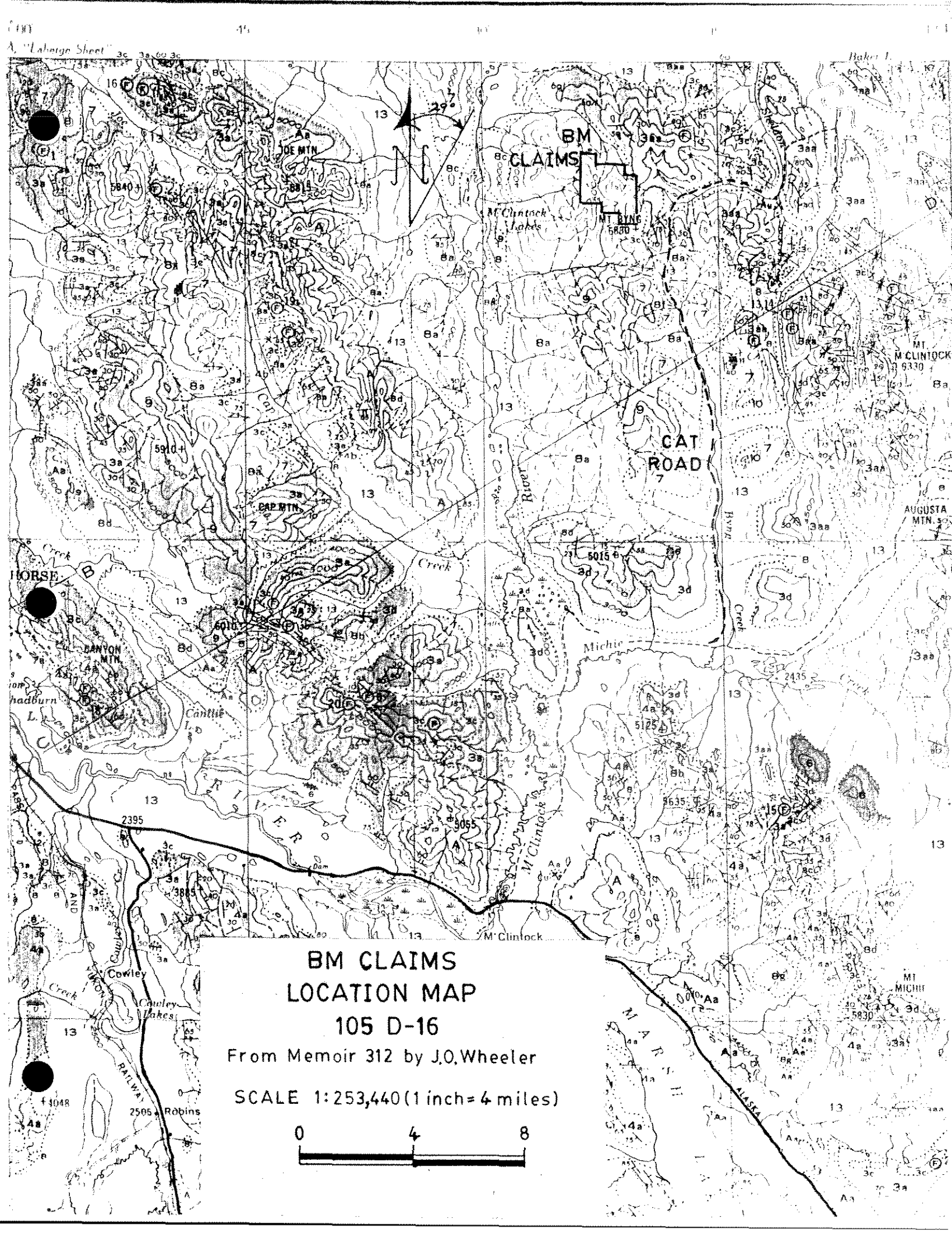
The object of this report is to summarize the information obtained from the property visit.

LOCATION, ACCESS AND CLAIMS

The BM Claims cover an area of ground on the north ridge of Mt. Byng on NTS Map Sheet 105 D-16.

In 1984, a winter road was constructed by placer miners to the headwaters of Sheldon Creek (See Location Map). An all-terrain vehicle may provide access to the property from this road.

CLAIM NAME	GRANT NUMBERS	EXPIRY DATE
BM 1 - 4	YA 95347 - YA 95350	July 16, 1994
BM 5 - 6	YA 97128 - YA 97129	July 16, 1994
BM 7 - 19	YB 20538 - YB 20550	July 16, 1994
BM 20 - 43	YB 21551 - YB 21574	July 16, 1994
BM 44 - 47	YB 27729 - YB 27732	July 16, 1994



**BM CLAIMS
LOCATION MAP
105 D-16**

From Memoir 312 by J.O. Wheeler

SCALE 1:253,440 (1 inch = 4 miles)



PROPERTY GEOLOGY

The lack of 50,000 scale geological mapping in the region had left the understanding of the area at essentially the level of Wheeler's 1961 mapping. Four days of geological mapping by Trevor Bremner, Mineral Deposits Geologist with DIAND, in July, 1989 has greatly advanced the geological knowledge of the BM Claims (See Carlyle, April, 1991).

Bremner's mapping of contact relationships and inclusions, and subsequent radiometric age dating, have shown that the igneous rocks fall within two suites. A mafic gabbro-anorthosite-andesite suite and a felsic granodiorite-feldspar porphyry-rhyolite suite. The oldest unit in the mafic suite is an aphanitic, chloritic andesite having an age of approximately 252 +/- 10 Ma. This andesite is intruded by a coarse grained augite gabbro; this in turn, is cut by subcircular anorthosite plugs. These have been dated at 168 +/- 6 Ma by Armstrong and Gabites.

The felsic suite is younger than the mafic suite. The oldest of these units is a granodiorite to quartz-feldspar porphyry intrusion cut by rhyolite dykes and small stocks. The granodiorite has been dated at 121 +/- 5 Ma and the rhyolite at 104 +/- 4 Ma. The gold-bearing quartz veins are closely related to the rhyolite dykes which are controlled by nearly vertical north-trending faults.

Mr. Bremner states that the gabbro and anorthosite probably form part of the Lewes River Arc which was active during the Triassic

and Jurassic. He believes that the Early Triassic age of the andesite suggests it is either a part of the Cache Creek assemblage and pre-dates the Lewes River Arc, or forms a part of the Lewes River Arc and provides evidence for activity in the Lewes River Arc as long ago as Early Triassic. The latter interpretation, he believes, is most probable since the volcanic rocks are andesitic rather than basaltic.

The Lower Cretaceous age of the granodiorite and rhyolite are comparable to the age of rocks in the Mt. Nansen area, 200 km. to the northwest.

Gold mineralization occurs in brecciated and vuggy quartz-carbonate veins associated with rhyolite dykes and small stocks. The rhyolite cuts andesitic flows, gabbroic intrusions and granodiorite. Samples of vein material have returned gold values up to 126.9 g/tonne usually when associated with copper mineralization. Samples also frequently have anomalous values in mercury, arsenic, antimony, tungsten and barium.

There are four known areas of interest on the property: Main Zone, R-17 Zone, R-7 Zone, and R Zone (See Figure 1). In the Main Zone, several flat-dipping, vuggy quartz veins containing spots of malachite, azurite and chalcopyrite have been exposed in hand and blast trenches. These veins appear to start from the rhyolite dykes, possible as a late fluid segregate. Similar gossaned quartz-carbonate vein material containing elevated gold values has been found associated with strong VLF anomalies in R-7 and R Zones. The R-17 Zone is a north-trending fault gully at

BM CLAIMS
VLF and SOIL SURVEY AREAS

SCALE: 1=2000

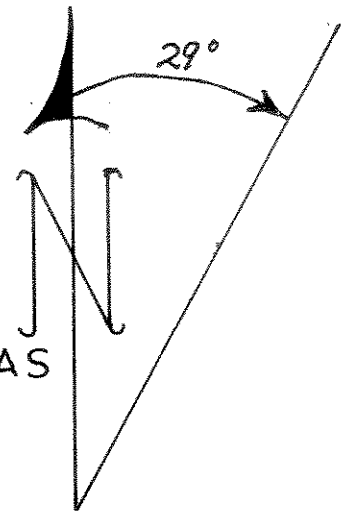
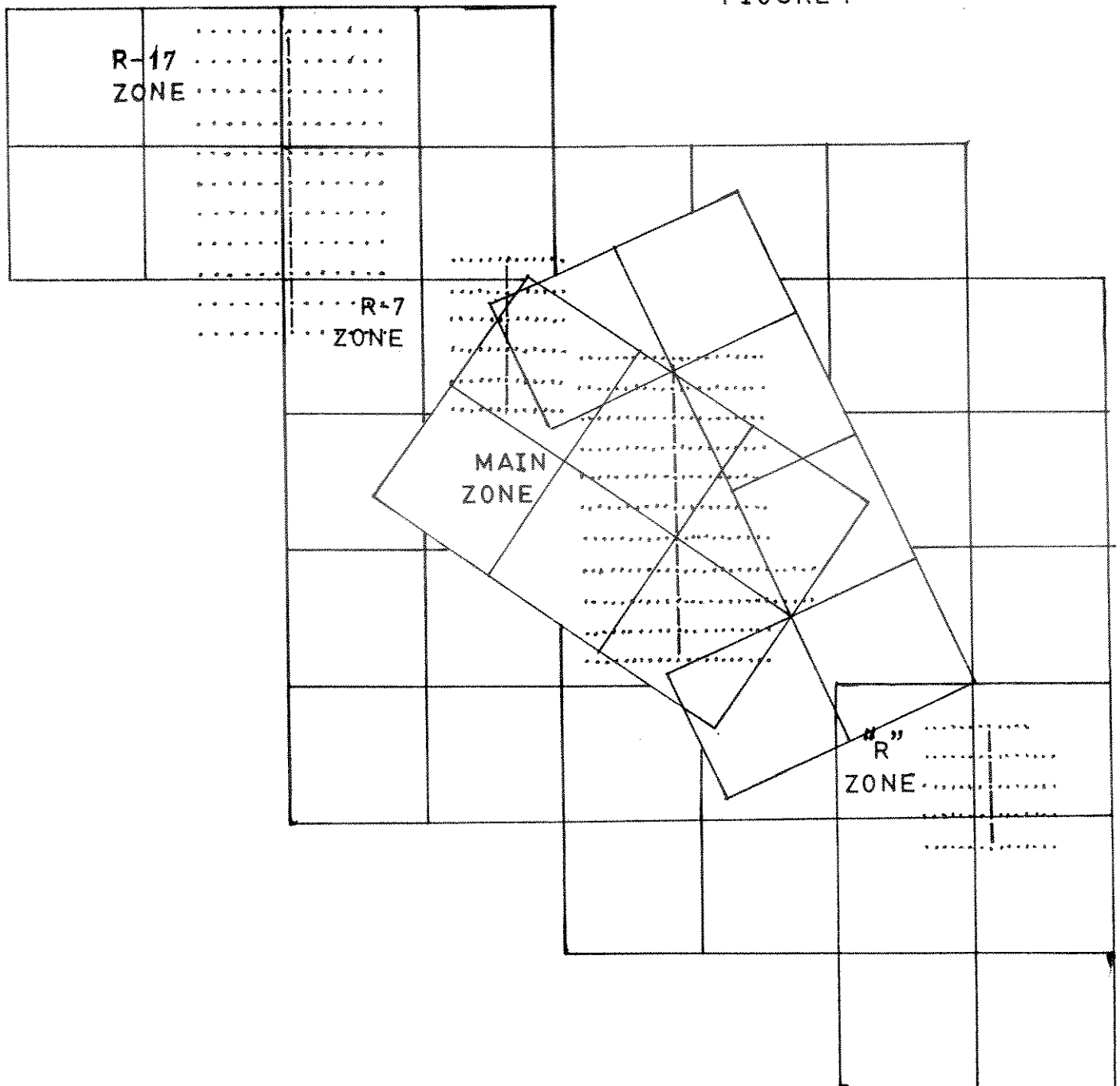


FIGURE 1



the northwest corner of the claim block. It consists of a conspicuous gossan overlying a breccia of silicified fragments up to 15 cm. across and cemented by vuggy, orange-weathering chalcedony. The writer considers this to be a silica cap; suggesting that higher grade precious metal values may exist at depth here. To this date, surface samples from this zone have returned low gold values.

1994 WORK PROGRAM

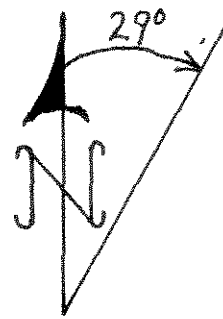
The 1994 work program consisted exclusively of hand trenching in the R-17 and Main Zones of the property. Hand trenching was necessitated by the lack of sufficient funding to do other work programs. The use of explosives for trenching was rejected as too dangerous for a lone man with uncertain radio communication.

R - 17 ZONE TRENCHING

Four trenches were added to the 4 earlier trenches existing on this showing (Trenches 5 to 8).

Trench 5 exposed more of the breccia stock about 10 metres south of the original showing (See Figure Page Following). Trench 6 was dug 20 metres east of Station 8 + 50 N to investigate breccia float approximately on strike with, and below, the earlier trenches. Strong water inflow from the large snow bank uphill prevented the reaching of bedrock. Trench 7 was dug at 5 + 70 N on the baseline in an attempt to uncover the rhyolite dyke whose float was present. Slide material due to solufuction was too thick to locate the bedrock. However, quartz - rhyolite float

B L



T #6

8+00 N

SNOW

7+00 N

T #1

T #2

T #3

T #4 (Original Showing) 6+00 N

T #5

T #7

T #8

1994 TRENCHES
 R-17 ZONE
 SCALE 1:2000

⋯⋯⋯ Earlier Trenches
 □ 1994 Trenches

B L

with a trace of pyrite located in the trench was sampled as Sample 17 - 1. Trench 8 is located at 5 + 20 N and 115 metres west of the baseline on a VLF high located in 1990. The trench is located between two frost boils containing significant rhyolite. Frozen ground prevented digging to bedrock; however, Sample 17 - 2 was made from blocky and weakly vuggy white quartz float found in trench.

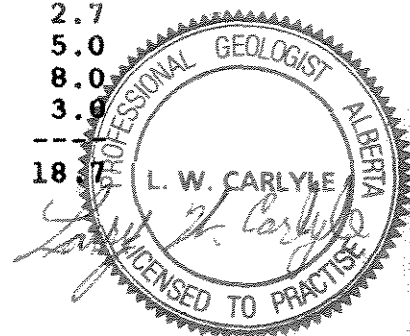
R-17 ZONE TRENCH VOLUMES

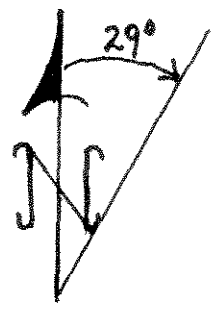
Trench	Length(ft)	Width(ft)	Depth(ft)	Cubic Feet	Cubic Yards
T # 5	6.0	6.0	2.0	72.0	2.7
T # 6	15.0	3.0	3.0	135.0	5.0
T # 7	24.0	3.0	3.0	216.0	8.0
T # 8	9.0	3.0	3.0	81.0	3.0
				Total	18.7

MAIN ZONE TRENCHING

The original Trench # 1 was reopened, lengthened and deepened in an attempt to locate a quartz vein - rhyolite contact; however, large rocks and frozen ground prevented this. Vuggy quartz vein material located during digging was sampled as Sample M - 1.

Trench # 2 was dug at 0 + 80 S, 0 + 50 E (See Figure Page Following) in an area where there is a large amount of blocky white bull quartz float. A quartz vein having a true thickness of 6 to 12 inches, a strike of N 32° W, and a dip of ~ 12° Northeast was located and sampled as Sample M - 2. Blocky andesite or gabbro was located under the vein.





B L

1+00 N

T#9

T#8

T#6

T#7

T#1

0+00

T#3

T#5

T#4

T#2

1+00 S

2+00 S

1994 TRENCHES
MAIN ZONE

SCALE 1:2000

..... Earlier Trenches

▭ 1994 Trenches

B L

Trench # 3 was dug at 0 + 30 S, 0 + 70 W up and along strike from earlier blast trenches. It located a vuggy, iron stained quartz vein with trace malachite staining and having a dip of 10-20° NE, a plunge of ~ 25° to the north, and a true thickness of 6 to 12 inches. Vein sampled as Sample M - 3.

Trenches # 4 and # 5 are located on a new vein exposure having the same true thickness, strike, dip and plunge as the other veins. Trench # 4 is located at 0 + 50 S, 1 + 20 W and Trench # 5 is located at 0 + 50 S, 1 + 40 W. Sample M - 4 of vuggy, iron stained quartz was taken from Trench # 4. Sample M - 5 of vuggy, iron stained quartz with trace malachite was taken from Trench # 5.

Trench # 6 was dug 20 metres below the lowest blast trench on the western most vein located earlier (See Figure). No vein was located. Trench # 7 was dug 5 metres further east in a north-south direction to investigate other vein float. Strongly vuggy vein material with well developed quartz crystals in the vugs and strong iron staining was located in this trench and sampled as Sample M - 6.

Trench # 8 was dug 30 metres down strike and dip from Trench # 7. At the west end of this trench, a 6 to 8 inch wide vein of white, vuggy quartz with strong iron staining and chalcopryrite and bornite blebs was located resting on oxidized brown andesite. The vein was sampled as Sample M - 7.

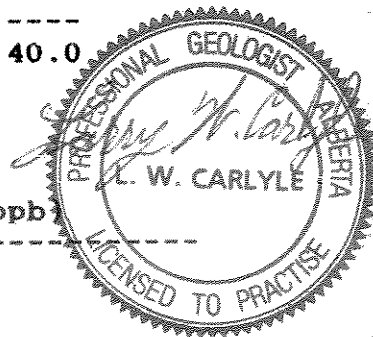
Trench # 9 was dug approximately 20 metres down strike and dip from the lowest most blast trench on the eastern most (original) vein of the showing. Large rocks and frozen ground prevented the exposure of the vein.

MAIN ZONE TRENCH VOLUMES

Trench	Length(ft)	Width(ft)	Depth(ft)	Cubic Feet	Cubic Yards
T # 1	21.0	3.0	3.0	189.0	7.0
T # 2	12.0	3.0	3.0	108.0	4.0
T # 3	18.0	3.0	3.0	162.0	6.0
T # 4	9.0	3.0	3.0	81.0	3.0
T # 5	12.0	3.0	3.0	108.0	4.0
T # 6	12.0	3.0	3.0	108.0	4.0
T # 7	12.0	3.0	3.0	108.0	4.0
T # 8	12.0	3.0	3.0	108.0	4.0
T # 9	12.0	3.0	3.0	108.0	4.0
Total					40.0

ROCK DESCRIPTION TABLE

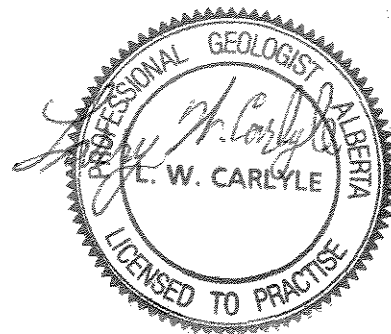
SAMPLE #	DESCRIPTION	Au (ppb)
<u>R-17 ZONE</u>		
17 - 1	Quartz-rhyolite float, Trace Pyrite (?)	5
17 - 2	Weakly vuggy white quartz	<5
<u>MAIN ZONE</u>		
M - 1	Vuggy, iron stained quartz	826
M - 2	Blocky, white bull quartz	7
M - 3	Vuggy iron stained quartz Trace malachite	>6667
M - 4	Vuggy iron stained quartz	>6667
M - 5	Vuggy iron stained quartz Trace malachite	1135
M - 6	Vuggy iron stained quartz	308
M - 7	Vuggy iron stained quartz	809
M - 8	Blebs of chalcopyrite & bornite Vuggy boxwork of quartz-calcite in brown oxidized andesite.	65



1994 STATEMENT OF COSTS

Labour (14 days @ \$50/day)	\$ 700.00
Report Writing (2 days @ \$200/day)	\$ 400.00
Helicopter	\$ 765.05
Board and Room	\$ 141.81
Assaying	\$ 112.58
Field Supplies	\$ 123.66
Representation Work (58.7 yd ³ @ \$6/yd ³)	\$ 352.20

Total	\$2,595.30

**CONCLUSIONS**

1. Most of the rocks in the area have a north or north northwest strike with a dip of 75° - 90° to the west. This structure controls the rhyolite stocks and dykes. However, there are two other major fracture patterns. The first, strikes approximately east-west with steep dips both to the north and south. The second, appears to have a strike of approximately N 32° W, a dip of 10° - 20° NE, and a plunge of approximately 25° north. This second fracture pattern seems to control the veins; suggesting that it is a later feature. All 4 of the veins presently known to exist in the Main Zone appear to be controlled by this fracture system.
2. The banded and vuggy quartz veins in the Main Zone seem to be restricted to the north end of the zone. This silicification seems to grade into white, blocky bull quartz both vertically and toward the south. Further to the north and south, the silicification weakens to a boxwork then to minor stringers.

3. Both the silicification in the Main Zone and the intense chalcedony in the R-17 Zone breccia are relatively close to anorthosite plugs mapped by Bremner (See Carlyle, April, 1991). It may be possible that these plugs are in some way controlling the silicification.

RECOMMENDATIONS

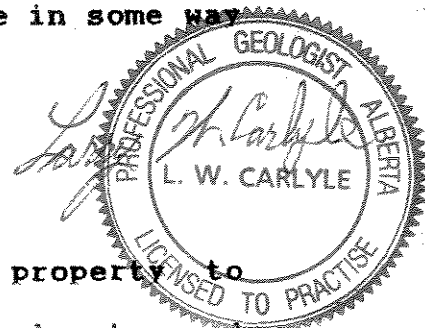
1. Mechanized trenching should be done on the property to further expose and sample the known veins and locate and sample new veins.
2. Diamond drilling is recommended to test the down dip extensions of the sub-parallel veins in the Main Zone. Diamond drilling should also be done on the R-17 Zone to test if a high grade precious metal zone exists below the surface silica cap.
3. More work should be done in comparing this property with the Mt. Nansen properties.

PROPOSED WORK PROGRAM

No costs have been determined to carry out the recommendations expressed above.

REFERENCES

1. Carlyle, L.W. (1991) "Report on the 1990 Work Program BM Claims, Mt. Byng Area" Report to Aurora Gold Ltd.
2. INAC, (1991) Yukon Exploration 1990; Exploration and Geological Services Division, Yukon, Indian and Northern Affairs Canada, pages 52 - 56.

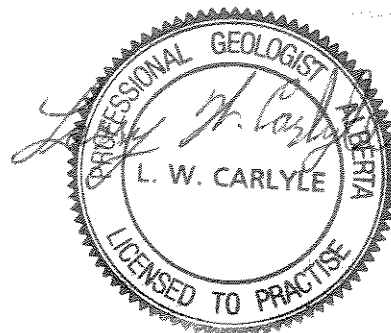


STATEMENT OF QUALIFICATIONS

I, LARRY W. CARLYLE, do certify:

1. That I am a professional geologist resident at 74 Tamarack Drive, Whitehorse, Yukon Y1A 4Y6.
2. That I hold a B. Sc. degree in geology from the University of British Columbia (1970).
3. That I am a Fellow of the Geological Association of Canada (F - 4355).
4. That I am a Registered Professional Geologist in the Association of Professional Engineers, Geologists and Geophysicists of the Province of Alberta (41097).
5. That I have practiced my profession as a mine and exploration geologist for seventeen years.
6. The conclusions and recommendations in the attached report are based on work I performed on the property and on a review of available private and public reports on the property.

DATED at Whitehorse, Yukon, this 28th day of July, 1994.



APPENDIX A

ASSAY CERTIFICATES

23/07/94

Assay Certificate


Page 1

Larry Carlyle

WO#25277

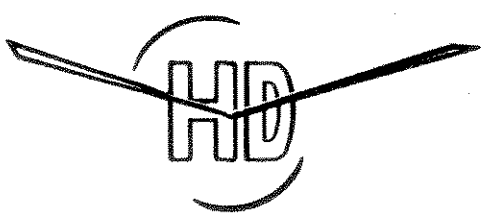
Sample #	Au ppb
M-1	826
M-2	7
M-3	>6667
M-4	>6667
M-5	1135
M-6	308
M-7	809
M-8	65
17-1	5
17-2	<5

Certified by



APPENDIX B

**INVOICES SUPPORTING
STATEMENT OF COSTS**



Heli Dynamics Ltd.

Helicopter Charter Services

Phone: (403) 668-3536 or 667-4971

Fax (403) 668-5637

P.O. Box 4280

Whitehorse, Yukon Y1A 3T3

Nº 003423

Charterer Billing Address <i>Larry Carlyle</i>			Customer P.O. #		
Date <i>July 14/94</i>		Flight Authorized by:		Pilot: <i>Karl Zick</i>	
Aircraft <i>C-640D</i>	Type <i>206B</i>	Rate/Hour <i>600/HR</i>		Base <i>Whitehorse</i>	
FUEL: <input type="checkbox"/> Charterer <input checked="" type="checkbox"/> Heli Dynamics					
FROM:	TO:	Time Up	Time Down	Flight Time	
<i>June 30/94</i>	<i>BM Chaims</i>	<i>8:40</i>	<i>9:15</i>	<i>.6</i>	
<i>July 14/94</i>	<i>BM Chaims to whitehorse.</i>	<i>10:06</i>	<i>10:39</i>	<i>.5</i>	
<i>Paid Chg # 539</i>					
				TOTAL REV HOURS: <i>1.1</i>	

EXPENSES		FUEL		
	Cost /litre	Hours @ 100 litres /hour	FUEL COST	
Hotel				
Food				
Transport				
Incidentals				
TOTAL EXPENSES			TOTAL FUEL COSTS =	

SUMMARY		AMOUNT	GST	TOTAL
<i>1.1</i>	Hours FLYING	<i>715.00</i>	<i>50.05</i>	<i>765.05</i>
	Hours FUEL			
	Hours OIL			
	EXPENSES			
GRAND TOTAL:				<i>765.05</i>

23/07/94

Invoice for Analytical Services

Larry Carlyle

WO#25277

Sample Preparation 10 x \$ 4.25 = \$ 42.50
Au + 30 10 x \$15.50 = \$ 155.00

Subtotal \$ 197.50
GST @ 7% (#R 121285662) \$ 13.83
Total due on receipt of invoice \$ 211.33
2% interest charge on accounts over 30 days

ASSAY COUPONS

(#98.75)

NET

\$112.58

PAID CK # 552



Mt. Byng Groceries

EXTRA FOODS
 THANK YOU FOR SHOPPING
 GST REGISTRATION # 130960891

Y&S LICORICE	2.39	H
HERSHEY V-PK	5.59	H
HERSHEY V-PK	5.59	H
WWHI BREAD	1.88	
KRAFT DINNER	1.05	
SPAM DRUMS	3.99	
SODAS	903171	1.85
WHEAT THINS	2.26	
M HSE INST	6.49	
GST/STP TAX DUE	.95	
TOTAL TAX DUE	.95	
BALANCE DUE	32.04	
CHECK TENDER	32.04	
CHANGE DUE	.00	
94/06/29 12:48 8567	1	2200

Mt. Byng Groceries

PORTER CREEK
 SUPER A
 WHITEHORSE

06/29/94

MGD SPAGHT	
1/4	3.25
MF S S CHICK	
1/4	3.25
STRW ROLLUPS	
1/2	3.11
MINTS ENG	
1/2	2.33
SUBTTL	11.94
GST	0.38
TOTAL	12.32
CASH	12.50
CHANGE	0.18

4 ITM-CT

8514A032 13:10

THANK-YOU!

Mt. Byng Groceries

FOOD FAIR
 WHITEHORSE, YUKON
 GST # R10405192

PORK CHOPS	5.35
LEAN BR BEEF	7.84
SOB BACON	4.29
ML WIENERS	3.39
SHAKER BATH	3.61
CANNED HAM	7.41
BEEF STK	22.10
CHICK DRED	5.27
CHEWY CANDLA	3.55
CHEESE SLICE	2.59
DM FR CTAIL	2.01
DM FR CTAIL	2.01
APRICOT HALVES	2.01
WIB CORN	0.79
WIB CORN	0.79
PEACHES SL	2.01
PEACHES SL	2.01
APRICOT HALVES	2.01
MT TOMATOES	2.75
MT TOMATOES	2.75
BAKED BEANS	1.51
PURITAN STEW	2.43
PURITAN STEW T & C	1.65
WIB CORN	0.79
WIB CORN	0.79
SUMMER SWEET PEAS	0.79
SUMMER SWEET PEAS	0.79
MM TOM PASTE	0.73
MM TOM PASTE	0.73
FLAKED WHITE	1.39
SPARTAN SHL.	4.64
1.905KG @	2.40/KG
ORANGES	3.69
ONIONS MED	0.27
0.205KG @	1.30/KG
SUBTOTAL	97.20
PST	0.00
GST	0.25
AMOUNT DUE	97.45
CHEQUE	97.45
CHANGE	0.00

THANK YOU
 FOR SHOPPING WITH US

DATE	TIME	LANE	CLEAR	TRANS#
06-29-94	12:33	3	99014	6147

International Communications
 #303 BLACK STREET
 Whitehorse, Yukon Y1A 2N1
 (403) 668-2255

INVOICE

INVOICE
 009736

TO:

LARRY CARLYLE
 74 TAMARACK DRIVE
 Whitehorse, Yukon
 Y1A 4Y6

SALESPERSON	DATE OF INVOICE
SHIP TO	07-14-94
SAME	

ACCOUNT NO.	DATE SHIPPED	SHIPPED VIA	COL.P.P.	F.O.B. POINT	TERMS	YOUR ORDER NUMBER
CARLYL					Net 7 DAYS	
QUANTITY	DESCRIPTION				UNIT PRICE	AMOUNT
# 1	RADRENT RADIO RENTAL				93.75	93.75
<p><i>PAID July 14th via card.</i></p> <p>INTERNATIONAL COMMUNICATIONS CORP. 303 Black Street WHITEHORSE, YUKON Y1A 2N1 Phone 668-2255 Fax 668-2633</p>						
ALL INVOICES PAYABLE UPON RECEIPT 2%/MONTH(26.8%/annum) ON OVERDUE					Net amount	93.75
					Discount	
					Shipping	
					G.S.T.# R102510526	6.56
<i>Thank You</i>					TOTAL	\$100.31

Mt. Byng Field Sup.

EXTRA FOODS
 THANK YOU FOR SHOPPING
 GST REGISTRATION # 130960891

CAN OPENER 4.88 G
 TURNER ASST 1.98 G
 GST/CEX TAX DUE .67
 TOTAL TAX DUE .63
 BALANCE DUE 9.59
 CASH TENDER 10.00
 CHANGE DUE .41
 28/06/14 11:07 8567 9 2300

CANADIAN TIRE WHITEHORSE, --- #452
 2 CASH 1 7957 0452 005
 6508850*EVEREADY AA 4 PA 1G 2.89
 6508850*EVEREADY AA 4 PA 1G 2.89
 6508850*EVEREADY AA 4 PA 1G 2.89
 SUBTOTAL 8.67
 7% G.S.T. .61
 TOTAL 9.28

(00-061748)
 ACCT NUMBER 4510409427444 11/95
 VISA CARD 9.28

PLEASE RETAIN FOR RETURNS & INQUIRIES
 THERE IS A LOT MORE TO CANADIAN TIRE
 WHITEHORSE FOR A LOT LESS

CANADIAN TIRE WHITEHORSE, --- #452
 15 CASH 1 6544 0452 008
 5310322*87-0013 MINK OIL 1G 4.19
 SUBTOTAL 4.19
 7% G.S.T. .27
 TOTAL 4.48
 CASH TENDER 5.00
 CHANGE .52

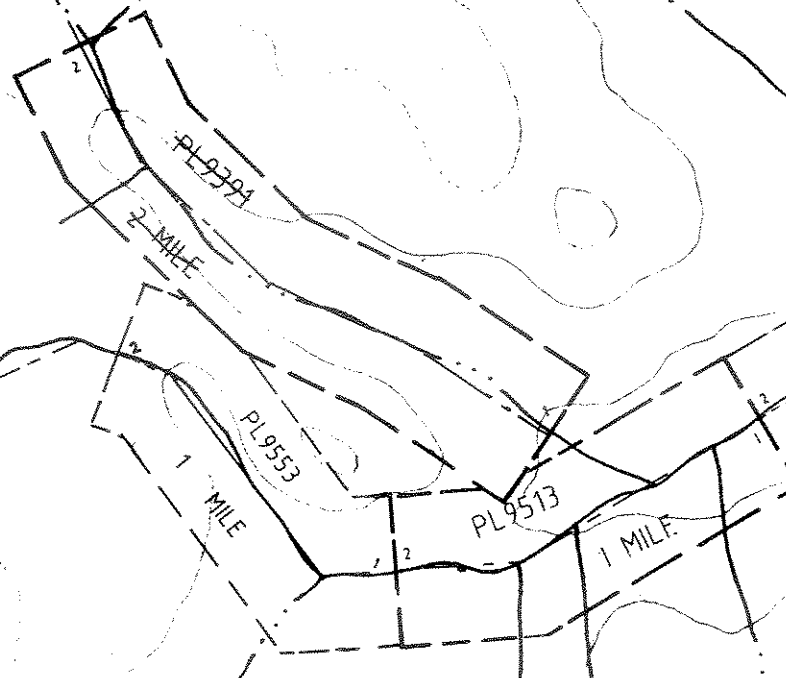
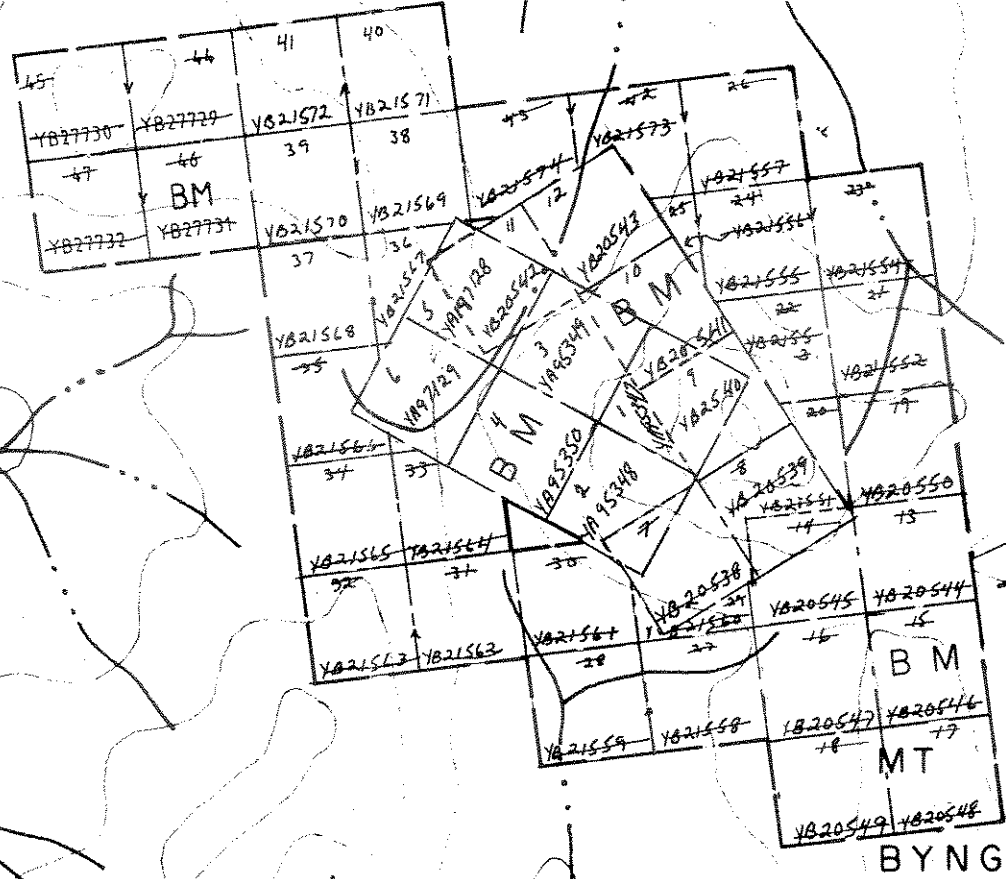
PLEASE RETAIN FOR RETURNS & INQUIRIES
 THERE IS A LOT MORE TO CANADIAN TIRE
 WHITEHORSE FOR A LOT LESS

GST REG# 122874605 6/22/94 8:48

LAKES

M'CLINTOCK

55'



093244
DWG ①