

COMINCO LTD.



EXPLORATION

WESTERN DISTRICT  
September 15, 1975

DIAMOND DRILL ASSESSMENT REPORT

ON THE

FUN GROUP OF MINERAL CLAIMS

BONNET PLUME RIVER AREA

YUKON TERRITORY

N.T.S. 106C/7

64° 23' Latitude

132° 46' Longitude

Period of Work: June 11, 1975 to June 24, 1975

Vancouver, British Columbia

M.S. Travis

091296

COMINCO LTD.

EXPLORATION

WESTERN DISTRICT  
15 September 1975

DIAMOND DRILLING 1975

This report is submitted in order to fulfill the requirements for assessment work on the below-mentioned claims due on September 14, 1975 and June 9, 1976.

Using a Boyles Brothers BBS-1 drill taking BQ core, a series of 3 diamond drill holes totalling 701 feet were drilled on the FUN claims during the period from June 11, 1975 to June 24, 1975 including mobilization time. The 3 holes were angle holes at dips  $-45^{\circ}$ ,  $-50^{\circ}$  and  $-45^{\circ}$  respectively. All core including the remainder of those sections split for assay is stored on the property located  $64^{\circ} 23' 41''$  N,  $132^{\circ} 45' 59''$  W, 1.6 miles north of the confluence of Goz Creek and the Bonnet Plume River. The accompanying diamond drill logs include detailed geologic descriptions of the rocks intersected as well as all assay results. All rocks intersected in the drilling are dolomites or fine clastic sediments and belong to the Upper Proterozoic (Hadrynian) Keele Formation and Sheepbed Formation.

A surface plan at a scale of 1 inch = 500 feet locates the 3 holes drilled in 1975 with respect to the claim boundaries on claims FUN 1, 3 and 1 FR. The distribution of footage drilled is as follows:

<u>HOLE NO.</u>	<u>FEET ON FUN 1</u>	<u>FEET ON FUN 3</u>	<u>FEET ON FUN 1FR</u>	<u>TOTAL</u>
REV 75-1	-	-	200	200
REV 75-2	301	-	-	301
REV 75-3	-	200	-	200
	<u>    </u>	<u>    </u>	<u>    </u>	<u>    </u>
TOTALS:	301	200	200	701

Attached to this report are location maps at scales of 1 inch = 80 miles and 1 inch = 8 miles and a claim map of the Fun group showing drill sites and core storage location. Also included is a Statement of Expenditures incurred during the period from June 11, 1975 to June 24, 1975 supported by an Affidavit.

Report by:

Steve Travis  
M.S. Travis  
Geologist

Endorsed by:

D.W. Heddle  
D.W. Heddle  
Chief Geologist

Approved for  
Release by:

W.T. Irvine for D.W.H  
W.T. Irvine  
Manager, Exploration  
Western District

IN THE MATTER OF THE  
YUKON QUARTZ MINING ACT

AND

IN THE MATTER OF A DIAMOND DRILL SURVEY  
CARRIED OUT ON MINERAL CLAIMS FUN 1 - 6 AND 1FR  
Located in the Mayo Mining District of the  
Yukon Territory  
More particularly, NTS 106 C/7

A F F I D A V I T

I, STEVEN TRAVIS OF THE DISTRICT OF NORTH VANCOUVER IN THE PROVINCE OF BRITISH COLUMBIA, GEOLOGIST, MAKE OATH AND SAY:

1. THAT I AM EMPLOYED AS A GEOLOGIST BY COMINCO LTD. AND, AS SUCH, HAVE A PERSONAL KNOWLEDGE OF THE FACTS TO WHICH I HEREINAFTER DEPOSE:
2. THAT ANNEXED HERETO AND MARKED AS EXHIBIT "A" TO THIS MY AFFIDAVIT IS A TRUE COPY OF EXPENDITURES ON A DIAMOND DRILL SURVEY CARRIED OUT ON MINERAL CLAIMS FUN 1, 3 AND 1FR.
3. THAT THE SAID EXPENDITURES WERE INCURRED BETWEEN THE 11TH DAY OF JUNE, 1975 AND THE 24TH DAY OF JUNE, 1975 FOR THE PURPOSE OF MINERAL EXPLORATION ON THE ABOVE NOTED CLAIM GROUP.

Sworn Before Me at the City )  
of Vancouver in the Province )  
of British Columbia this )  
16<sup>th</sup> day of September )  
1975. )  
)  
)  
)  
)  
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)  
)  
)  
)  
)

  
M. STEVEN TRAVIS


  
A NOTARY PUBLIC IN AND FOR THE )  
PROVINCE OF BRITISH COLUMBIA. )

EXHIBIT "A"

DIAMOND DRILLING REPORT ON THE  
FUN GROUP OF MINERAL CLAIMS

Situate at:

64° 23' Latitude  
132° 46' Longitude

Salaries:

M.S. Travis	14 days	1,109.00
R.D. Deobald	14 days	848.00

Transportation:

Helicopter and fuel	6,528.00
Fixed Wing	7,603.00

Diamond Drilling:

701 feet	14,339.00
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Assays:

34.00

Camp Costs:

Expediting, Equipment	738.00
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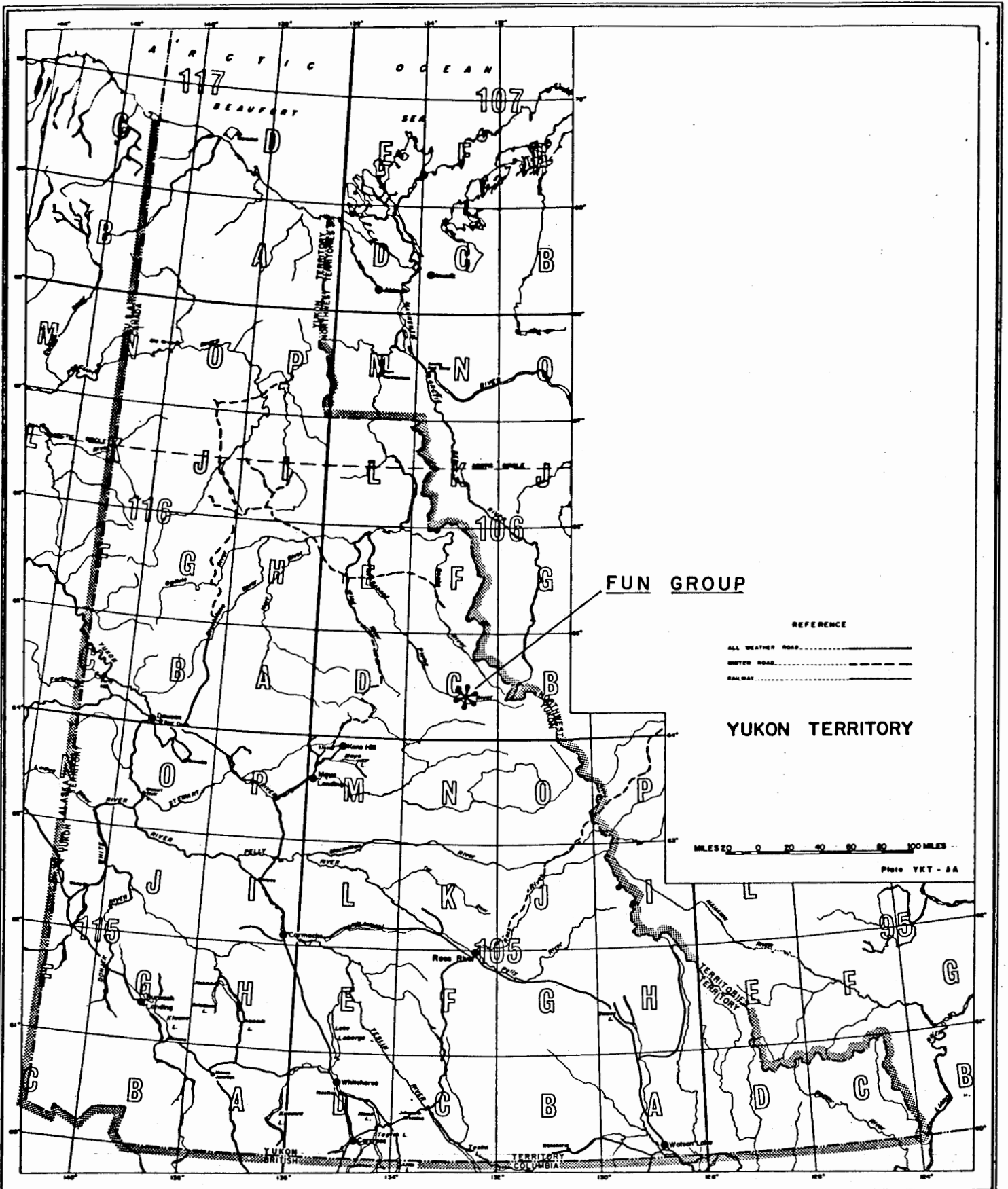
TOTAL: 31,199.00


SIGNED:

Steve Travis  
M.S. TRAVIS

THIS IS EXHIBIT "A" TO THE STATUTORY DECLARATION OF EXPENDITURES  
RELATING TO THE DIAMOND DRILL SURVEY DECLARED BEFORE ME ON THE  
16<sup>th</sup> DAY OF SEPTEMBER, 1975 A.D.

M. Brown  
A NOTARY PUBLIC IN AND FOR THE  
PROVINCE OF BRITISH COLUMBIA

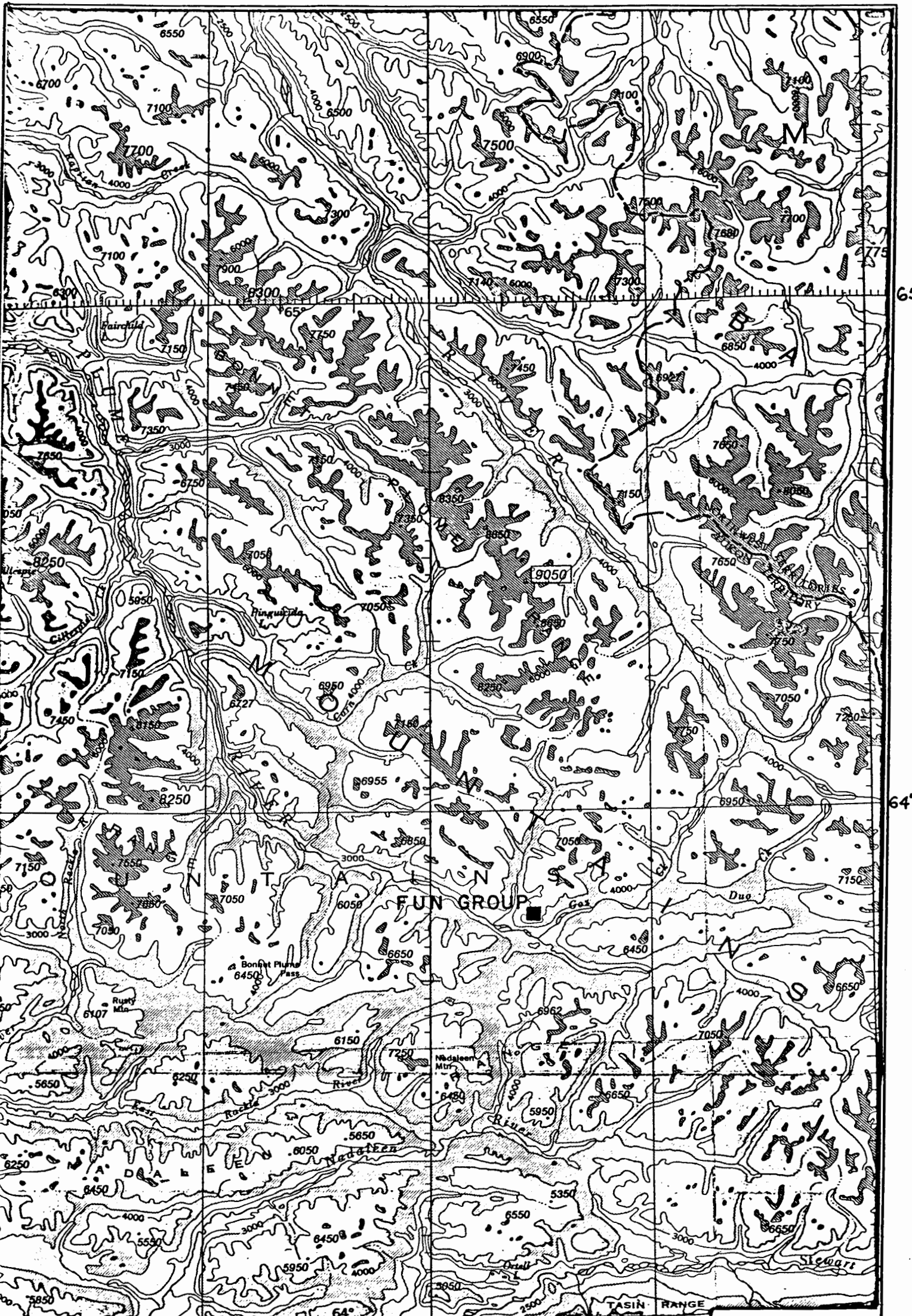


NTS 106 C/7 

Drawn by:		Traced by:	
Revised by:	Date:	Revised by:	Date:

# LOCATION MAP FUN GROUP

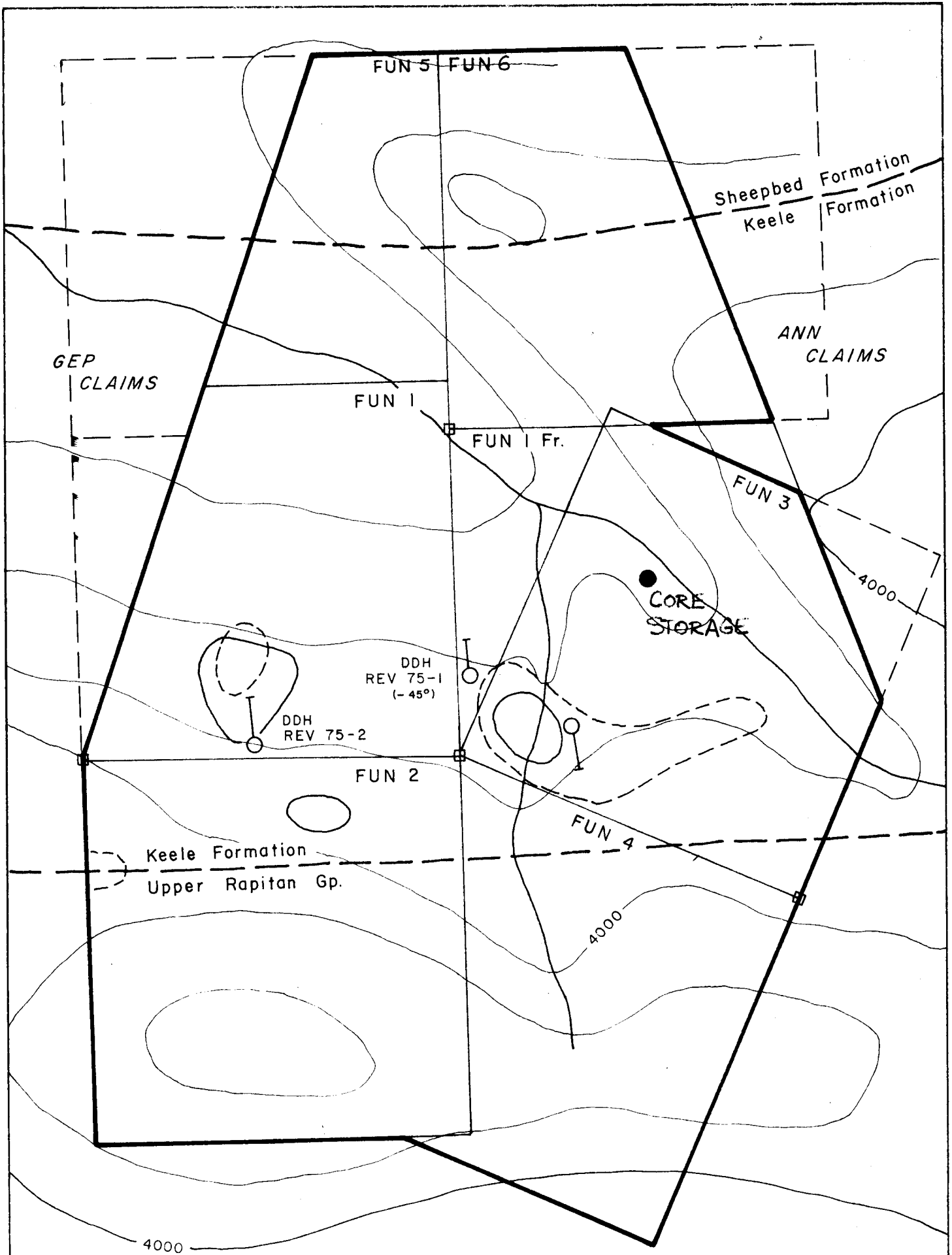
Scale: 1" = 80 Miles      Date:      Plate:



Drawn by:		Traced by:	
Revised by	Date	Revised by	Date

# LOCATION MAP FUN GROUP

Scale: 1" = 8 Miles      Date:      Plate:



**LEGEND**

- — Diamond Drill Hole
- - - Outline of Pb anomalies
- " " Zn "
- / - Geological contacts



106 C/7



Drawn by:		Traced by:	
Revised by	Date	Revised by	Date

**FUN CLAIMS**  
GEOCHEMISTRY & D.D.H. LOCATIONS

Scale: 1" = 500'

Date: JUNE, 1975

Plate:

Scale

Colour Plot & Dips



# Drill Hole Record

Property	FUN	District	MAYO	Hole No.	REV 75 - 1
Commenced	June 15/75	Location	BONNET PLUME RIVER	Tests at	Hor. Comp.
Completed	June 17/75	Core Size	BQ	Corr. Dip	45°
Co-ordinates				True Brg.	355°
Objective	TEST GEOCHEMICAL SOIL ANOMALY IN DOLOMITE			% Recov.	75%
				Date	June 16/75

Claim  
FUN IF  
T Brg. 355°  
Collar Dip -45°  
Elev. 3800 ft.  
Length 200 ft.  
Hole No. REV 75 - 1  
Sheet 106C/7

Footage		Description	Sample No.	Length	Analysis				
From	To								
0	6	Overburden							
6	10	Dark grey medium grained dolarenite with frequent fractures filled with white dolospar. Occasional 1 mm. oxidized pyrite grains in white dolospar.							
10	23	Light grey medium grained dolarenite becoming increasingly finer grained up to 23 ft. Few fractures filled with coarse white dolospar and minor dolospar-lined vugs approximately 5 mm. across. Oxidation products (limonite, goethite) on fractures and joints.							
23	52	Medium grey very fine grained dololutite with frequent irregular patches and fracture fillings of white dolospar and/or ferrodolomite. Abundant limonite stain on joints and fractures.							
52	54	Same rock as above with slightly laminated appearance. Minor amounts of medium crystalline calcite appearing with dolospar in fractures.							
54	62	Same as section 23' to 52'. Minor amount of marcasite (oxidized) on fractures near 62'.							
62	79	Dark grey fine to medium grained dolarenite with faint lamination and elongate patches of dolospar paralleling lamination. Small sections of complete oxide (65'). Local areas where fracturing approaches brecciation.							
79	86	Extreme fracturing and brecciation with coarse white dolospar healing open spaces. Abundant amounts of pink Mn carbonate. Original rock was medium to coarse grained black dolarenite.							
86	111	Light grey fine grained dololutite with a few vugs 5 mm wide. Dendritic Mn on fractures and joints. Small areas of dark grey coarse grained dolomite surrounded by white coarse dolospar.							
111	144	Medium grained medium grey dolarenite with few small vugs less than 7 mm wide. Section from 112 to 116 is same rock type as above with graphite or MnO <sub>2</sub> as open space and fracture fillings.							



## Drill Hole Record



Property FUN District MAYO Hole No. REV 75 - 1  
 Commenced June 15/75 Location BONNET PLUME RIVER Tests at Hor. Comp.  
 Completed June 17/75 Core Size BQ Corr. Dip -45° Vert. Comp.  
 Co-ordinates True Brg. 355° Logged by M.S. TRAVIS  
 Objective TEST GEOCHEMICAL SOIL ANOMALY IN DOLOMITE % Recov. 75% Date June 17/75

Footage		Description	Sample No.	Length	Analysis
From	To				
144	152	Medium grained medium to dark grey dolarenite with extensive (up to 50%) replacement by patches of white dolomite. Random large vugs lined with coarse white dolospar. More MnO <sub>2</sub> as open space fillings near 150 ft.			
152	161	Same as above with almost no replacement by white dolomite except along some fractures.			
161	175	Same as above with laminated appearance. White dolomite laminae parallel laminations in host rock with some small brecciated patches healed by white dolomite from 169 to 171.			
175	192	Medium grey fine grained dololutite partly replaced by patches of white dolomite giving the rock a spotted appearance.			
192	200	Very fine grained greenish grey dolomite with minor lamination.			

Claim  
 FUN IF  
 T Brg. 355°  
 Collar Dip -45°  
 Elev. 3800 ft.  
 Length 200 ft.  
 Hole No. REV 75 - 1  
 Sheet 106C/7



## Drill Hole Record

Property	FUN	District	MAYO	Hole No.	REV 75 - 2
Commenced	June 18/75	Location	BONNET PLUME RIVER	Tests at	WHITEHORSE ASSAY OFFICE Hor. Comp.
Completed	June 20/75	Core Size	BQ	Corr. Dip	-50°
Co-ordinates	64° 23' North 132° 46' W		True Brg.	355	Logged by R.D. DEOBALD
Objective	TEST GEOCHEMICAL SOIL ANOMALY IN DOLOMITE		% Recov.	95%	Date June 20/75

Claim  
FUN 1T Brg.  
355°Collar Dip  
-50°Elev.  
3900 ft.Length  
301 ft.Hole No. - 2 : Sheet  
REV 75 - 2 : 106/7

Footage		Description	Sample No.	Length	Analysis				
From	To								
0'	20'	Overburden							
20'	57'	Medium grey, medium grained dolarenite, extremely broken up near surface becoming more consolidated at approximately 35'. Heavily oxidized fractures throughout. Vugs partially filled with dolospar increase in number with depth. From 20' - 35' fractures filled with dolospar have random orientation. From 35' to end of unit core becomes banded, approximate bedding core angle of 60°. Some 3" - 5" sections of dark grey and white banding. Quartz crystals present in some vugs. Vugs up to 1 cm. in diameter.							
57'	63.5'	Dark grey medium grained dolarenite with thin white dolospar bands. A few elongate vugs present in bands.							
63.5'	73'	Same as 20' - 57'. 63.5' - 69' heavily fractured. Vugs to 1 cm. in diameter partially filled by dolospar.							
73'	88'	Dark grey medium grained dolarenite becoming more highly fractured with depth. Minor pyrite surrounding vugs up to 1.5 cm. in diameter. Pyrite highly oxidized from 87' - 88'. Vugs lined with dolospar. Gore extremely broken up from 85' - 88'.							
88'	106'	Medium grey, medium grained dolarenite. Consists of sections of brecciated dolarenite healed with dolospar and interbanded light and dark sections. Pyrite, moderately oxidized, rims primary dark fragments in breccia and occurs as stringers in dolospar bands. Some partially filled vugs up to 1.5 cm. in diameter occur mainly in the brecciated sections. A few pyrite and quartz crystals are present in these vugs.							

Scale

# Drill Hole Record



Colour, Plot & Dips

Property	FUN	District	MAYO	Hole No.	REV 75 - 2
Commenced	June 18/75	Location	BONNET PLUME RIVER	Tests at	Hor. Comp.
Completed	June 20/75	Core Size	BQ	Corr. Dip	50
Co-ordinates	64° 23' North 132° 46' W		True Brg.	355	Logged by R.D. DEOBALD
Objective	TEST GEOCHEMICAL SOIL ANOMALY IN DOLOMITE		% Recov.	95%	Date June 20/75

Claim FUN 1  
 T Brg. 355°  
 Collar Dip -50°  
 Elev. 3900 ft.  
 Length 301 ft.  
 Hole No. REV 75 - 2  
 Sheet 106C/7

Footage From To	Description	Sample No.	Length	Analysis		
				%Pb	%Zn	
106' 128'	Dark grey, fine grained dolarenite. Mainly interbanded dark and light bands with some short brecciated sections. From 112' - 120' dark bands are highly graphitic and appear almost black. Graphitic slickensides throughout section. Pyrite rims around dark bands and fragments, slightly oxidized. Small vugs less than .5 cm throughout dolospar except at 116' where 5" section with vugs up to 2.5 cm. Quartz crystals up to 1.5 cm are contained.	14070	127-132	.05	.08	
128' 214'	Very fine grained medium to dark grey dolarenite. Highly brecciated and healed by dolospar fillings up to 6" wide. Pyrite forms prominent rims around primary fragments from 128' - 148' and 159' - 170.6' and 201' - 208' with minor amounts throughout ending at 215'. Highly graphitic throughout most of section. Pyrite is essentially non-oxidized. Where banding is present bedding core angle is variable from 30° to 75°. Prominent vugs in dolospar with abundant quartz crystals from 156' - 157'. Trace amounts of sphalerite occur as isolated crystals in vugs from 156' - 158' and 174.5' - 179.5'. Gypsum (?) helps fill vugs from 175' - 189'. Grain size coarsens towards end of unit.	14069	160-165	.05	.03	
214' 301'	Medium grey, medium grained dolarenite. Brecciated sections occur from 214' - 229', 240' - 247', 250' - 255' and 281' - 301' with pyrite rimming dark fragments in the latter 3 sections. Core is extremely broken up from 252' - 261'. Fractures healed by dolospar almost all very thin (less than 4mm wide). Vugs are present throughout and range from less than 2mm to approximately 1 cm. with the majority being less than .5 cm. Bedding core angle varies in most cases from 50° - 70° and sections where shearing along this angle has taken place are highly graphitic. At 246.5' a few blebs of galena less than .5 cm occur in dolospar filling.					
301'	End of hole.					



## Drill Hole Record

Property FUN

District MAYO

Hole No. REV 75 - 3

Commenced June 22/75

Location BONNET PLUME RIVER

Tests at WHITEHORSE ASSAY OFFICE Hor. Comp.

Completed June 23/75

Core Size BQ

Corr. Dip -45°

Vert. Comp.

Co-ordinates 132° 46' W 64° 23' N

True Brg. 170°

Logged by M.S. TRAVIS

Objective TEST GEOCHEMICAL SOIL ANOMALY IN DOLOMITE

% Recov. 65%

Date June 23/75

Footage From To	Description	Sample No.	Length	Analysis	
				%Pb	%Zn
0 - 17	Overburden				
17 - 42	Dk. grey, fine grained dololomite, finely laminated with medium to coarse grained white dolospar separating laminations and giving rock a black and white striped appearance. Crosscutting fractures also healed by white dolospar. Frequent extreme fracturing to the point of brecciation. Minor small vugs especially in brecciated zones. Yellow to orange and pink weathering on fracture planes and on white dolospar.				
42 - 73	Same dark grey fine grained dololomite as above with laminations but lacking white dolospar. Pink, orange and yellow weathering on fractures.				
73 - 77	More dark grey and white-striped laminated dololomite with occasional 6" sections of extreme brecciation. Some breccia zones have up to 80% of volume filled with white dolospar. Rock weathers only yellow on fractures.	14053	74-79	Tr.	.01
		14054	79-84	Tr.	.01
		14055	84-89	.01	.01
77 - 91	Medium to dark grey fine grained massive with patchy replacement by white dolomite alternating with black and white striped laminated and brecciated dolomite.	14056	89-94	.01	.01
		14057	94-99	.01	.01
		14058	99-104	.01	.01
91 - 122	Poorly laminated dark grey fine grained dololomite with irregular bands 3-7 mm wide of white dolospar roughly parallel to laminations.	14059	104-109	.03	.01
		14060	109-114	.01	.01
		14061	114-119	.01	.02

Claim

FUN 4

T Brg.  
170°Collar Dip  
-45°

Elev.

3800 ft.

Length  
200 ft.

Hole No.

REV 75 - 3

Sheet  
306 C/7

## Drill Hole Record



Property	FUN	District	MAYO	Hole No.	REV 75 - 3
Commenced	June 22/75	Location	BONNET PLUME RIVER	Tests at	WHITEHORSE ASSAY OFFICE Hor. Comp.
Completed	June 23/75	Core Size	BQ	Corr. Dip	-45°
Co-ordinates	132° 46' W 64° 23' N			True Brg.	170°
Objective	TEST GEOCHEMICAL SOIL ANOMALY IN DOLOMITE			% Recov.	65%
				Vert. Comp.	
				Logged by	M.S. TRAVIS
				Date	June 23/75

Claim  
FUN 4T Brg.  
170°Collar Dip  
-45°

Elev.

3800 ft.

Length  
200 ft.Hole No.  
REV 75 - 3Sheet  
106 C/7

Footage From To	Description	Sample No.	Length	Analysis		
				Pb%	Zn%	
122 - 140	Same as above with better lamination and more vuggy in areas of coarse white dolospar. Pink, orange and yellow weathering on fractures and around dolospar. Some patches of breccia from 122-124, 126, 128, 130-142. Pyrite along fractures (less than 1 mm) starting at 125. Pyrite increasing gradually, rimming breccia fragments at 130 until breccia is completely healed by massive pyrite at 135. Pyrite comprises approx. 80% of core at 132-133'. Pyrite decreases to approx. 10% at 142 and occurs mainly as irregular patches along fractures and laminations. From 131.5 to 135 visible galena on highly brecciated fine grained dark grey dolomite. Galena varies between 2% and 6% and occurs as matrix of breccia along with pyrite. Trace sphalerite occurring as rare disseminations (2 mm wide) in white dolospar from 133 to 138. Small fault breccia from 138.5 to 140.	14062	119-124	.03	.05	
		14901 I	125-130	Tr.	.02	
		14902 I	130-135	3.23	4.62	
		14903 I	135-138	.18	3.36	
		14904 I	138-143	Tr.	.46	
		14067	143-148	.09	1.74	
		14068	148-158	.08	.13	
140 - 142	Dark grey possibly slightly argillaceous dolomite, slickensided, laminated and slightly brecciated at 141.5. Contains approximately 5% pyrite.					
142 - 151	Black fine grained brecciated dolomite containing approx. 30% pyrite as breccia matrix. Pyrite increases to 80% between 144 and 150. Minor 1/4" argillaceous bands near 150.					
151 - 200	Carbonaceous slickensided finely laminated black argillite. Minor quartz stringers crosscutting laminations. Minor 6 inch sections of more massive dolomitic rock but mostly very fissile and argillaceous. Pyrite varies from 30%-60% and occurs as irregular patches and frequently parallel laminations but decreases gradually to 163 where pyrite ends.					
200	END OF HOLE					