

MAP No.

ASSESSMENT REPORT
PROSPECTUS
CONFIDENTIAL
OPEN FILE



DOCUMENT NO.: 091693
MINING DISTRICT: MAYO
TYPE OF WORK: DIAMOND DRILLING

106 C 10

REPORT FILED UNDER: COMINCO LTD.

DATE PERFORMED: July 8-25, 1975

DATE FILED: October 30, 1975

LOCATION	LAT.	64°40'N
	LONG.	133°00'W

AREA: BONNET PLUME RIVER

CLAIM NAME & NO.

DF 1-81

VALUE \$ 46,335.00	
WORK DONE BY:	S. Travis
WORK DONE FOR:	Cominco Ltd.
DATE TO GOOD STANDING	REMARKS: #68 DF

COMINCO LTD.

EXPLORATION

WESTERN DISTRICT

21 October 1975

*Confidential
in 1984 index*

DIAMOND DRILL ASSESSMENT REPORT

ON THE

DF GROUP OF MINERAL CLAIMS

091692

BONNET PLUME RIVER AREA

YUKON TERRITORY

N.T.S. 106C/10

64° 40' Latitude
133° 00' Longitude

Period of Work: July 8, 1975 to July 27, 1975

Vancouver, British Columbia

M.S. Travis

COMINCO LTD.

EXPLORATION

WESTERN DISTRICT

21 October 1975

DIAMOND DRILLING 1975

This report is submitted in order to fulfill the requirements for assessment work on the below-mentioned claims due on January 18, 1976.

Using a Boyles Brothers BBS-1 drill taking BQ core, a series of 7 diamond drill holes totalling 1704 feet were drilled on the DF claims during the period from July 8, 1975 to July 27, 1975 including mobilization time. All core including the remainder of those sections split for assay is stored on the property located at 64° 40' 18" N, 132° 57' 12" W on the east side of Corn Creek.

The accompanying diamond drill logs include detailed geologic descriptions of the rocks intersected and are updated with all assay results. All rocks intersected in the drilling are dolomites or fine clastic sediments and belong to the Upper Proterozoic (Hadrynian) Keele Formation.

Attached to this report is a Statement of Expenditures incurred during the period from July 8, 1975 to July 27, 1975 supported by invoices and an Affidavit.

Report by: M.S. Travis
M.S. Travis
Geologist

Endorsed by: D.W. Heddle
D.W. Heddle
Chief Geologist

Approved for
Release by: W.T. Irvine per D.W.H.
W.T. Irvine
Manager, Exploration
Western District

MST/dr
Attachs.

EXHIBIT "A"

GEOLOGICAL REPORT ON THE
DF GROUP OF MINERAL CLAIMS

situate at

64° 40' North Latitude
133° 00' West Longitude

N.T.S. 106C/10

Salaries:

M.S. Travis 20 days	1,600.00
R.D. Deobald 20 days	1,200.00

Transportation:

Helicopter	11,900.00
Fixed Wing	200.00
Fuel	2,285.00

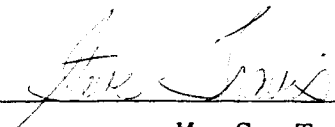
Drilling:

28,800.00

Camp Costs:

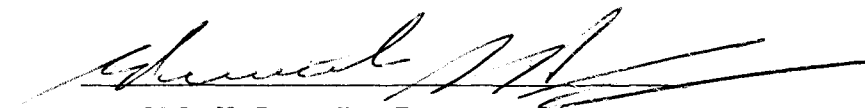
Expediting, equipment	350.00
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TOTAL: \$ 46,335.00

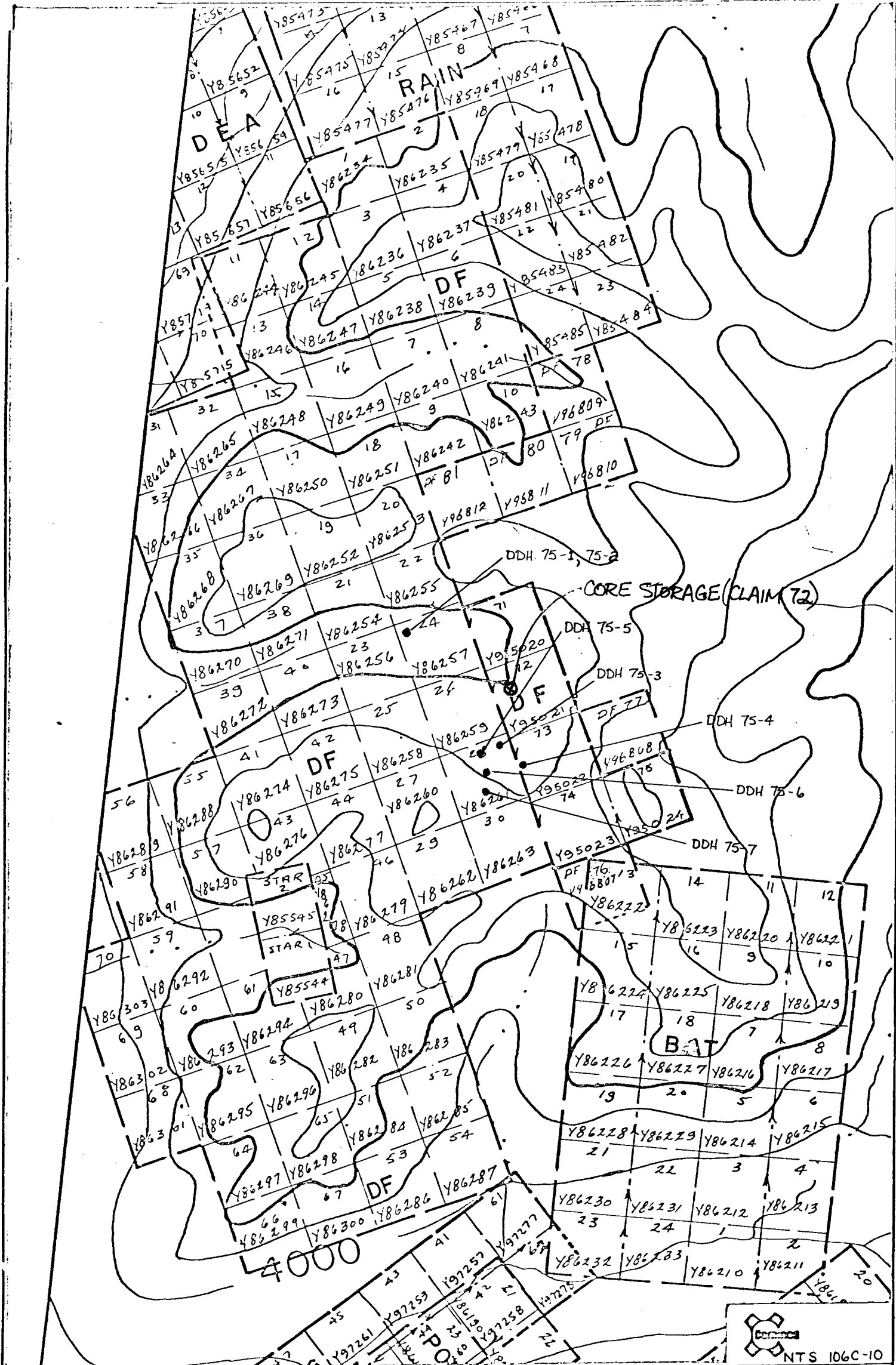


M. S. Travis

THIS IS EXHIBIT "A" TO THE STATUTORY DECLARATION OF
EXPENDITURES RELATING TO THE DIAMOND DRILL SURVEY
DECLARED BEFORE ME ON THE 24th DAY OF October,
1975.



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



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

DF GROUP
DIAMOND DRILL HOLE
LOCATIONS

Scale:	Date:	Plate:
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Drill Hole Record



Property	DF	District	MAYO	Hole No.	DF 75-1
Commenced	July 9/1975	Location	NW Corner of Claim 24	Tests at	Hor. Comp.
Completed	July 12/1975	Core Size	BQ	Corr. Dip	-45°
Co-ordinates	64°41'N; 132°59'W		True Brg.	295°	Logged by
Objective	Test extension of surface mineralization		% Recov.	85%	Date
					July 14/75

Claim DF 24

T Brg. 295°

Collar Dip -45°

Elev. 5280 ft.

Length 351 ft.

Hole No. DF 75-1
Sheet 106C/10

Footage		Description	Sample No.	Length	Analysis			
From	To				Pb	Zn		
0	15	Overburden						
15	55	Dololutite - medium grey very fine grained, pisolitic. Largely massive with only rare veinlets of coarse white dolospar. Red brown iron oxide along most fractures down to 90 feet.						
55	64.5	Dark grey fine grained poorly laminated dolomite with minor small vugs, fractures and replacement zones of white dolospar.						
64.5	123	Medium grey fine grained vuggy dololutite. Vugs contain coarse calcite and quartz crystals surrounded by white dolospar and orange iron oxide. The unlaminated dolomite grades into faint thick laminations from 70 to 73 and then to fine laminations which are slightly collapse brecciated at 79. Grades back to unlaminated at 84, only with rare vug and minor factures 2 mm to 5 mm wide. Grades into laminated dolomite again at 95 with more collapse brecciation from 104 to 115. Minor dolospar filled fractures in finely laminated medium to dark grey dolomite from 115 to 123.						
123	128.5	Very finely laminated pyritic shaly dolomite grading into dolomitic shale at 124. Minor argillaceous beds 1/4" thick rarely in the dolomitic shale. Frequent quartz stringers frequent from 125 to 127 usually parallel to laminations but sometimes crosscutting.						
128.5	158	Medium grey fine grained finely laminated dololutite. Minor irregular patches of white dolomite replacing grey dolomite. From 134 to 146 small pyrite filled stylolitic stringers. From 145						

Drill Hole Record



Property	DF	District	Hole No.	DF 75 -1
Commenced		Location	Tests at	Hor. Comp.
Completed		Core Size	Corr. Dip	Vert. Comp.
Co-ordinates			True Brg.	Logged by
Objective			% Recov.	Date

Claim	T Brg.	Collar Dip	Elev.	Length	Hole No.	Sheet
						2

Footage		Description	Sample No.	Length	Analysis				
From	To				Pb	Zn	Cd	Cu	
		to 146 small disseminations of galena and sphalerite. Orange oxide on many fractures.		158- 163.5	.03	.02		.02	
				163.5- 168.5	.03	.04		.02	
158 - 172		Buff to light brown fine grained dololomite. Minor disseminated pyrite at 159. Frequent orange oxide on fractures as well as dendritic Mn oxide. Malachite stain at 160.		168.5- 173.5	.03	.02			
				173.5- 175.5	.01	.02		.01	
				180- 185	.01	.01		.02	
172 - 207		Medium grey fine grained dololomite, massive with dolospar-filled fractures. Malachite stain at 183. Fault breccia at 191 to 192.5 and 203 to 204.		207- 210	.01	.04			
				210- 215	.01	.02		.09	
				215- 220	.01	.07			
207 - 271		Buff fine grained dolomite with disseminated patches of Mn oxide, malachite, pyrite and chalcocopyrite from 207 to 213. Mn oxide only from 213. Sandy friable complete oxide sections, orange weathering with occasional secondary Zn oxides mixed with the iron oxides. Minor sections containing coarse crystals of calcite (10 mm wide). Frequent sections, 2 in. to 1.5 ft. in length, of relatively unbrecciated fine grained dolomite. Malachite stain again at 256 to 258. Galena stringers frequent from 258 to 262. Fractures of sphalerite, 1 mm to 15 mm in thickness from 258 to 271.		220- 225	.01	.06			
				225- 230	.01	.03			
				230- 235	.03	.06			
				235- 240	.01	.06			
				240- 245	.03	.03			
				245- 250	.01	.04			
				250- 255	.01	.10			
				255- 258	.03	.15		.70	
271 - 317		Medium grey fine grained dololomite partly replaced by irregular patches of white dolomite. Minor large fractures healed by white dolospar and quartz. Minor disseminated pyrite from 280 to 295. Sphalerite veinlets, 6 mm wide, at 277.5 and minor dissemination from 277.5 to 281. Brecciated sections healed with white dolomite at 295 and at 301 to 303.5. Pyrite nodules and stringers in the brecciated areas. Disseminated sphalerite in dolospar-healed fractures near 310.		258- 262	.18	2.40	.01		
				262- 263	.28	13.57	.03		
				263- 267	.01	.49			
				267- 272	.01	.25			
				274.5- 277.5	tr.	1.26			
				277.5- 283	.01	.09			

Drill Hole Record



Property DF District Hole No. DF 75 -1
 Commenced Location Tests at Hor. Comp.
 Completed Core Size Corr. Dip Vert. Comp.
 Co-ordinates True Brg. Logged by
 Objective % Recov. Date

Claim

T Brg.

Collar Dip

Elev.

Length

Hole No.

Sheet 3

Footage		Description	Sample No.	Length	Analysis			
From	To				Pb	Zn		
317	334	Same rock type as above only laminated with extensive collapse brecciation healed by white dolospar. Stromatactoid texture in unbrecciated sections. Minor patches of sphalerite in white dolospar at 330.5.		283- 287 287- 292	.01	.08		
				300- 305 305- 310	.01	.10		
334	351	Same rock type as above unlaminated or thickly laminated with small localized areas of white dolospar. 5 mm bands of purple chert parallel to bedding from 347 to end.		310- 315 329- 332	.01	.02		
351		END OF HOLE.						

Drill Hole Record



Property	DF	District	MAYO	Hole No.	DF 75-2
Commenced	July 12/75	Location	NW Corner of Claim 24	Tests at	Hor. Comp.
Completed	July 13/75	Core Size	BQ	Corr. Dip	-60°
Co-ordinates	64°41'N ; 132°59'W		True Brg.	345°	Logged by M.S. Travis
Objective	Test depth extension of Main Zone mineralization.		% Recov.	95%	Date July 20/75

Claim
DF 24T Brg.
345Collar Dip
-60Elev.
5280 ft.Length
283 ft.Hole No.
DF 75-2
Sheet
106C/10

Footage		Description	Sample No.	Length	Analysis		
From	To				Pb	Zn	
0	8	Overburden					
8	55	Dololutite - light to medium grey fine grained, pisolitic. Only minor replacement by white dolomite. Small amounts of orange-red oxides on recent joints. 5 mm thick shale bed at 43. No fracturing until 51 where there is a small amount of brecciation.					
55	84	Dololutite - medium to dark grey fine grained, probably slightly recrystallized equivalent of above rock type. Occasional dolospar healed fractures up to 3 mm wide and small areas of complete infilling by coarse white dolospar. Vuggy in the areas of extensive dolospar. Calcite crystals in some vugs. No core recovery from 77 to 82. Trace galena at 67.5.		66.6-69	.01	.02	
84	101	Same rock type as above only thinly to moderately thin laminated from 84 to 87 and then grading into a more massive slightly fractured equivalent of above rock type.					
101	128	Silicified dololutite - laminated medium to dark grey. Dark grey bands unsilicified surrounded by lighter grey silicified patches. Brecciated from 112 to 128. Minor pyrite along small stylolitic stringers and as small disseminations.					
128	131	Dolomitic shale - black, finely laminated. Frequent crosscutting stringers of dolomite (white) Laminations often slickensided. Rare galena disseminations.		130-133	.05	.07	

Drill Hole Record



Property	DF	District	Hole No.	DF 75-2
Commenced		Location	Tests at	Hor. Comp.
Completed		Core Size	Corr. Dip	Vert. Comp.
Co-ordinates			True Brg.	Logged by
Objective			% Recov.	Date

Claim

T Brg.

Collar Dip

Elev.

Length

Hole No.

Sheet 2

Footage From To	Description	Sample No.	Length	Analysis			
				Pb	Zn		Cu
131 - 158	Dololutite - medium grey fine grained, massive, with occasional small spots of white dolomite.						
158 - 163	Dololutite - yellow grey, fine grained with silver clay-like material deposited in small fractures. Some patches of dolomite sand in open spaces. Fractures frequently filled with coarse dolospar and occasionally galena, chalcopyrite and pyrite.						
163 - 176	Same rock type as above without mineralization. Minor fracturing with white dolomite filling.						
176 - 224.5	Same as section 158 to 163 with yellow oxidized sections and malachite staining. Large breccia sections and extensive areas replaced by grey and white coarse grained dolospar. From 212 to 222 there is occasional fragment of black fine grained dololutite in the breccia. Pyrite stylolitic stringers and disseminations from 218 to 222.		176.5 180.5 180.5 -185 196- 198 224- 228	.03 .01 .01 .20	.06 .02 .02 .92	.39 .16	
224.5 - 283	Dololutite - medium grey fine grained dololutite replaced with irregular patches of light grey dolomite. Irregular patches of galena and sphalerite spread randomly throughout the section from 225 to 234. Rock grades into a laminated texture near 230 crosscut by small dolospar-filled stringers. Pisolitic from 245 to 246. Laminated rock grades back into massive again at 280.		228- 233 233- 238 238- 243 261.5 -265	.24 .08 .55 .06	.44 .20 .13 .06		
283	END OF HOLE.						

Drill Hole Record



Property	DF	District	MAYO	Hole No.	DF 75-3
Commenced	July 15/75	Location	North corner of Claim 28	Tests at	Hor. Comp.
Completed	July 16/75	Core Size	BQ	Corr. Dip	-45°
Co-ordinates	64°41'N; 132°59'W		True Brg.	035°	Logged by M.S. Travis
Objective	Test extension at depth of Ridge Zone mineralization.		% Recov.	90%	Date July 23/75

Claim DF 28

T Brg. 035°

Collar Dip -45°

Elev. 5400'

Length 202'

Hole No. DF 75-3
Sheet 106C/10

Footage		Description	Sample No.	Length	Analysis			
From	To				Pb	Zn		
0	10	Overburden						
10	143	Dololutite light grey to buff very fine grained algal laminated. Vuggy with oxidized pyrite nodules as frequent fillings. Sandy dolomite filling some larger open spaces. Rare pyrobitumen nodule in vugs. Fractures are healed with coarse white dolospar and joints have yellow to orange oxide stain. Trace sphalerite and galena in rare vug fillings from 71 to 76.5. Frequently coarsely crystalline quartz in vugs.		71.5-76.5	.24	.48		
143	145	Dolarenite - medium grey medium grained sandy, brecciated, with fragments rounded by replacement by dolomite matrix.						
145	153	Granule conglomerate - intraclastic dolomite cemented. Intraclasts of chert, light grey and white dolomite and pyrite. Upper 3 feet (145-148) is medium grey changing to black from 148 to 151 and then back to medium grey. Clasts have imbricate texture and black section is very finely laminated.		140-143.5 146-151 167-172	.01 .04 .03	.06 .10 .04		
153	202	Dolarenite - same as section 143 to 145. Section 172 to 174 contains many fractures of pyrite, sphalerite and galena grading approximately 1% Pb-Zn. 4-inch sections of about 80% pyrite at 173.5 and 183. Well brecciated from 176 to end of hole.		172-174 183-186	.23 .08	.72 .08		
202		END OF HOLE.						

Scale

Colour Plot
& Dips

Drill Hole Record



Property	DF	District	MAYO	Hole No.	DF 75-4
Commenced	July 16/75	Location	SW edge of Claim 73	Tests at	Hor. Comp.
Completed	July 17/75	Core Size	BQ	Corr. Dip	-45°
Co-ordinates	132°59'W, 64°41'N		True Brg.	035°	Logged by M.S. Travis
Objective	Test for depth extension of Ridge Zone mineralization.			% Recov.	95%
				Date	July 24/75

Claim DF 73

T Brg. 035°

Collar Dip -45°

Elev. 5300 ft.

Length 202 ft.

Hole No. DF 75-4
Sheet 100C/10

Footage From To	Description	Sample No.	Length	Analysis	
				Pb	Zn
0 - 9	Overburden				
9 - 74	Light grey to buff very fine grained dololomite. Algal and stromatolite laminae visible in most of section. Yellow to orange iron and manganese oxide stains on joints. Minor fracturing and healing with white dolospar. Vugs are common with very coarse euhedral crystals of calcite, dolomite, quartz and very rarely sphalerite. Frequent spherical blebs of pyrobitumen also in vugs and stylolitic fractures containing occasional pyrobitumen.				
74 - 155	Same as above with very light grey colour. Very rare euhedral crystals of sphalerite in vugs from 82 to 96. Well fractured with orange and red oxides on surfaces. Yellow sphalerite rarely on fractures from 102 to 110. Pyrite and sphalerite fracture fillings and replacement from 113.5 to 117. Well brecciated from 119 to 121 and 127 to 136. Well laminated from 136 to 154. Pyrite bed 10 mm thick at 155.		113.5- 117	.25	.42
155 - 170	Black to dark grey silty intraclastic dolomite-cemented conglomerate. Occasional terrigenous pyrite fragment. Rare chert pebble.				
170 - 202	Dark grey, fine grained well brecciated diamicritic dolomite. Fractures and open spaces healed by coarse white dolospar. Minor pyrite bleb. Minor 6 inch sections grade into intraclastic dolomite.				

Drill Hole Record



Property	DF	District	MAYO	Hole No.	DF 75-5
Commenced	July 18/75	Location	North corner of Claim 28	Tests at	Hor. Comp.
Completed	July 19/75	Core Size	BQ	Corr. Dip	-45°
Co-ordinates	64°41'N; 132°59'W		True Brg.	065°	Logged by R.D. Deobald
Objective	Test extension at depth of Ridge Zone mineralization.		% Recov.	90	Date July 24/75

Claim

DF 28

T Brg.

065°

Collar Dip

-45°

Elev.

5500'

Length

202'

Hole No.

DF 75-5

Sheet

106C/10

Footage From To	Description	Sample No.	Length	Analysis
0 - 7	Overburden			
7 - 110	Light grey to buff, fine grained dololomite. Algal laminations fairly obvious throughout unit. Vugs and fractures up to 4"-5" across largely filled in and healed with coarse yellowish dolospar. Vugs often contain quartz crystals or may be filled entirely with silica. Dolospar fillings have darker rings which are carbon rich. Rare blebs of pyrobitumen occur in open vugs as well as healed areas. Much of unit is broken up. Joint and fracture surfaces have orange brown iron oxide weathering.			
110 - 127	Intraclastic conglomerate with dolomite matrix. Medium grey from 110-115. Medium grained dolomite containing rip-up clasts up to 3" diameter plus white dolomite clasts less than 1/4" in diameter and blebs of pyrite (possibly replacement). Fractures, less than 2 mm across filled with white dolomite or carbon. Some chert pebbles also present throughout unit. Carbon rich seams in upper part of unit. Dark grey from 115 - 121'. Rare isolated red sphalerite clasts less than 4 mm in this section. Remainder of unit medium to light grey. Trace sphalerite in last foot of unit.			
127 - 148	Medium grey, medium grained dolarenite. Upper 13' of unit vuggy. Vugs largely filled with dolospar and quartz with traces of pyrobitumen. Fractures throughout healed with white dolomite. From 133.5'-134' and 144.5'-145.5' occurs a conglomerate with rounded clasts and a sandy matrix.			

Scale

Colour Plot & Dips

Drill Hole Record



Property	DF	District	Hole No.	DF 75 - 5
Commenced		Location	Tests at	Hor. Comp.
Completed		Core Size	Corr. Dip	Vert. Comp.
Co-ordinates			True Brg.	Logged by
Objective			% Recov.	Date

Claim
T Brg.
Collar Dip
Elev.
Length
Hole No. **2**
Sheet **2**

Footage	Description	Sample No.	Length	Analysis				
From To								
148 - 202	Medium grained, medium grey dolarenite. Consists largely of sub-rounded clasts of somewhat finer grained materials in a coarser grained conglomeritic matrix. All fractures present have been healed with a white dolomite and rarely carbon rich material. Matrix contains fragments of white dolomite, dark grey to black carbon rich dolomite, a few chert pebbles and blebs of pyrite. From 177-202 core is greater than 50% matrix while upper part of unit consists almost totally of larger clasts with very little conglomeritic matrix.							
202	END OF DF 75-5							

Scale

Colour Plot
& Dips

Drill Hole Record



Property	DF	District	Mayo	Hole No.	DF 75-6
Commenced	July 20/75	Location	Center of Claim 28	Tests at	Hor. Comp.
Completed	July 21/75	Core Size	BQ	Corr. Dip	-45°
Co-ordinates	132°59'W, 64°41'N		True Brg.	035°	Logged by R.D. Deobald
Objective	To test depth extension of Ridge Zone mineralization		% Recov.	90%	Date July 25/75

Claim	DF 28
T Brg.	035°
Collar Dip	-45°
Elev.	5400'
Length	202'
Hole No.	DF 75-6
Sheet	C/10

Footage From To	Description	Sample No.	Length	Analysis	
				Pb	Zn
0 - 21	Overburden				
21 - 118	Light grey to buff, fine grained algal laminated dololomite. Prominent laminations from 95'-118'. Vugs throughout but becoming fewer with depth. Vugs and fractures partially or totally filled with dolospar, pyrobitumen and silica. Sphalerite and minor galena occur in vugs and fractures from 34.5' - 40' and from 51'-51.5' with trace amounts throughout unit. Pyrite occurs in stringers less than 1 mm wide except at 39.5' where there is a 1.5" fracture.		34.5- 40- 45 50- 51.5	.65 .11 .18	.92 .38 1.16
118 - 170	Gritty intraclastic conglomerate with dolarenite matrix. Minor sections from 135'-147' and 157'-166' approach solution collapse breccia as very little conglomeritic matrix is present. Conglomerite contains fragments of white dolomite, a few chert pebbles, and pyrite blebs (probably replacement). Conglomerite is dark grey to black (carbon-rich). Trace sphalerite at 144.5'.				
170 - 202	Solution collapse breccia with minor conglomeritic section from 174'-175'. Medium grey, fine grained dolarenite fragments healed by white dolospar. Zebra texture from 200-202'. Sphalerite and pyrobitumen in fracture at 172.5' and trace sphalerite from 184'-185' also in fractures. Last 15' of unit vuggy and contains coarsely crystalline quartz, dolospar and pyrobitumen.		172- 173	.01	1.68
202	End of DF 75-6.				

Scale

Colour Plot
& Dips

Drill Hole Record



Property	DF	District	MAYO	Hole No.	DF 75-7
Commenced	July 23/75	Location	Centre of Claim 28	Tests at	Hor. Comp.
Completed	July 24/75	Core Size	BQ	Corr. Dip	-45
Co-ordinates	64°41'N, 132°59'W		True Brg.	035°	Logged by
Objective	Test surface mineralization and IP anomaly on Ridge Zone. % Recov.			95%	Date
					July 25/75

Claim

DF 28

T Brg.

035°

Collar Dip

-45°

Elev.

5325 Ft.

Length

262 Ft.

Hole No.

DF 75-7

Sheet

1030/10

Footage		Description	Sample No.	Length	Analysis	
From	To				Pb	Zn
0	8	Overburden				
8	102	Light grey to buff very fine grained algal laminated dololomite. Occasional fracture filled with coarse white dolospar. Yellow to red oxide on joints down to 65. Minor vugs filled with coarse euhedral crystal of quartz, calcite and dolospar. Rare stringers of galena and sphalerite at 27.5, 38.5, 69.5, and 97.		27-29 69-71 102-107 107-112	.30 .01 .01 .01	.38 .14 .06 .05
102	117	Black to dark grey intraclastic dolomite-cemented conglomerate. Rounded fragments of white and light grey dolomite, chert and pyrite. Large irregular patches of pyrite scattered randomly in the conglomerate.		112-117 121-126 126-131	.03 .03 .05	.03 .06 .14
117	127	Medium grey silty partly intraclastic dolarenite well brecciated and healed by white to light grey dolospar. Frequent vugs containing minor sphalerite crystals and pyrobitumen.				
127	262	Laminated medium grey and white sandy dolarenite. Zebra textured with laminae ranging from 2 mm to 10 mm in width. Vugs common with rare crystals and colloform sphalerite and minor pyrobitumen. Frequent stylolitic fractures parallel to laminations in rock.		147.5-152.5 152.5-157.5 198-203 203-208	.04 .03 .04 .01	.05 .03 .17 .10
262		END OF HOLE.		217-222 227-232	.05 .05	.24 .13