

5737

COMINCO LTD.

EXPLORATION  
NTS: 93N

WESTERN DISTRICT

DIAMOND DRILLING REPORT

JEAN GROUPS 75-1 to 75-4

NATION LAKES AREA

OMINECA M.D., B.C.

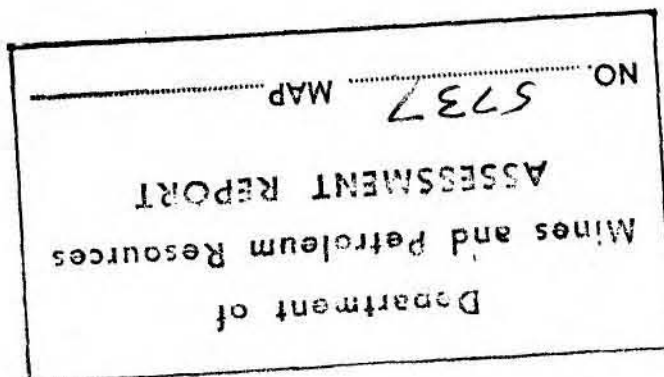
125°00'; 55°07'N

1 DECEMBER 1975

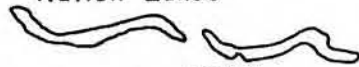
R. U. BRUASET

Period of Work

5 AUGUST to 31 AUGUST 1975



Germanen Landing  
○

Nation Lakes  
  
⊕ JEAN  
PROPERTY

55°00'

Fort St. James  
○

Fraser Lake  
○

Prince George  
□

Department of  
Mines and Petroleum Resources  
ASSESSMENT REPORT  
NO. 5737 MAP 1

124°00'



93 N/2

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

JEAN PROPERTY  
LOCATION MAP

Scale: 1" = 20 miles

Date: Nov., 1975

Plate:



EXHIBIT "A"

COST STATEMENT

DIAMOND DRILLING

JEAN PROPERTY

NATION LAKES AREA, B.C.

OMINECA M.D.

CONTRACT CHARGES SHEPHERD DRILLING LTD.

1464 feet of B.Q. Drilling at \$18.04/foot \$ 26,416

INDIRECT CHARGES:

Parts, material, tools, freight, trailer rental,  
trailer repairs, transportation, domicile, demob-  
ilization \$ 4,259

SALARY:

R.U. Bruaset 5 - 31 August 27 days @ \$103/day \$ 2,781

HELPER:

Mark Spurr - 5-7 August - 3 days @ \$44/day \$ 132

AIR TRANSPORTATION:

Fixed wing and helicopter (N.T.Air, Okanagan  
Helicopters, Northern Mountain Helicopters) \$ 3,536

SURFACE TRANSPORTATION:

Truck rental (Redhawk Lease) fuel, and maintenance 783  
Bombardier rental (Coast Utilities Ltd.) \$ 1,134

TOTAL COST : \$ 39,041

OVERALL COST/FOOT =  $\frac{\$ 39,041}{1464 \text{ ft}}$  = \$26.67

THIS IS EXHIBIT "A" TO THE STATUTORY DECLARATION OF EXPENDITURE  
RELATING TO THE DIAMOND DRILLING PROGRAM DECLARED BEFORE ME ON  
THIS 5<sup>th</sup> DAY OF DECEMBER, 1975 A.D.

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

DRILL DATA FOR DIAMOND DRILL HOLES 75-3, 4, 5, 6

DD HOLE NO.	LOCATION	CLAIM GROUP	DIP	DEPTH (Ft.)	UNIT COST PER FOOT	TOTAL COST	CREDITS REQUESTED (yrs)
75-3	J.W. 123	Jean Group 75-1	-90°	372	\$26.67	\$ 9,920	49
75-4	J.W. 124	Jean Group 75-2	-90°	528	26.67	14,081	70
75-5	J.W. 125	Jean Group 75-3	-90°	267	26.67	7,120	35
75-6	J.W. 95	Jean Group 75-4	-90°	297	26.67	7,920	39
				<u>1464</u>		<u>\$ 39,041</u>	

Total Cost at least \$ 39,041

Total assessment credits requested 195 years

All drill core is stored under cover at camp on J.W. 132 Fraction.

The hole locations have been determined by chain and compass and the elevations have been determined by altimeter. These particulars are given on the drill logs attached.

Report by:

R.U. Bruaset  
R.U. Bruaset, B.Sc  
Project Geologist

Endorsed by:

S.J. Pedley  
S.J. Pedley, P.Eng.  
Assistant Manager

Approved for Release by:

W.T. Irvine  
W.T. Irvine, P.Eng.  
Manager

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COMINCO LTD.

EXPLORATION

WESTERN DISTRICT

1 DECEMBER 1975

STATEMENT OF QUALIFICATIONS

I, R.U. Bruaset, with business address at 2200-200 Granville Square, Vancouver, British Columbia, V6C 2R2, do hereby certify that I have supervised the diamond drilling programme and the logging of the drill core, and have assessed and interpreted the data resulting from said programme on the Jean property.

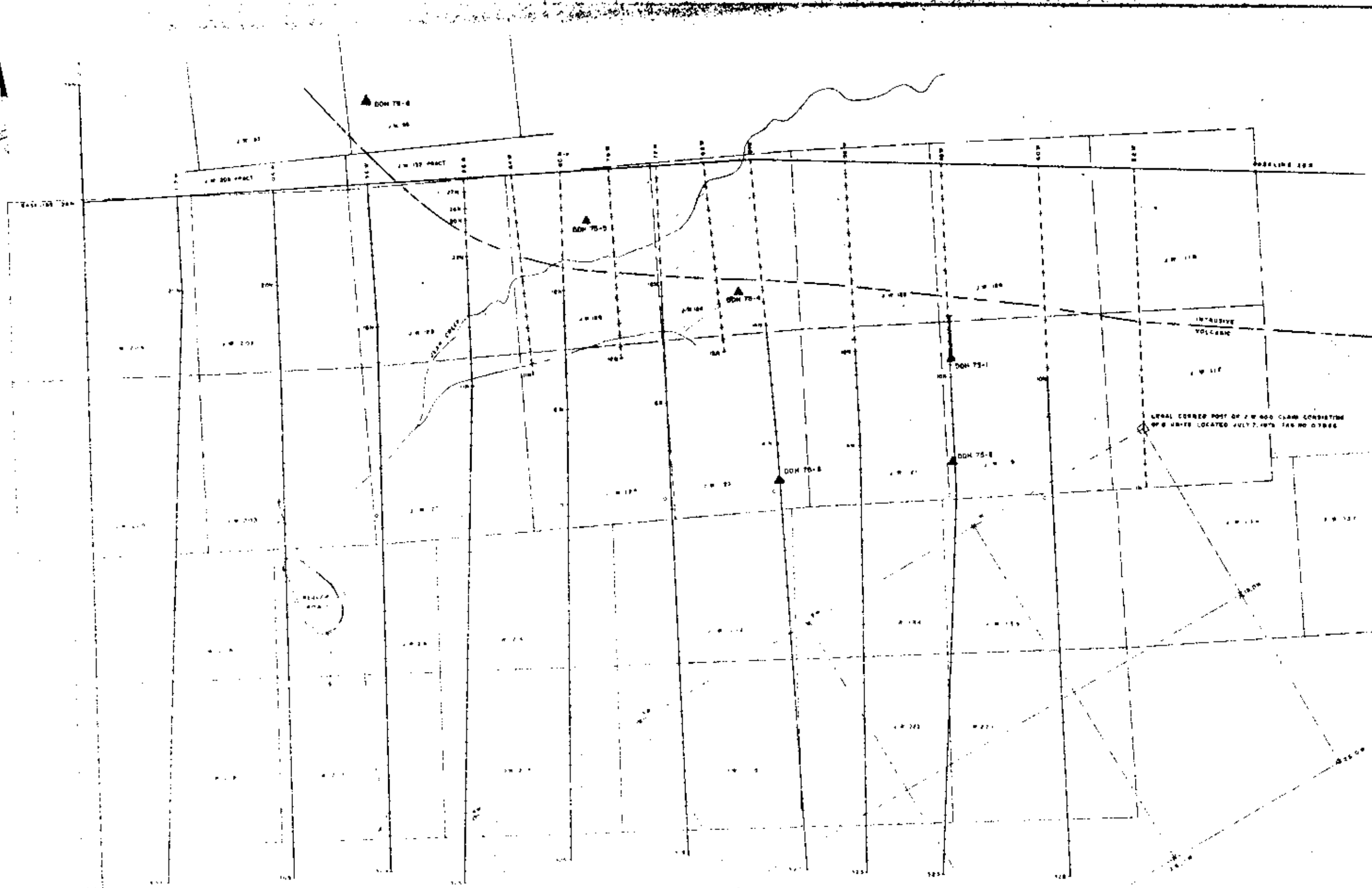
I also certify that:

1. I am a graduate of the University of British Columbia with a degree of B.Sc. in Geology 1967.
2. That I have been involved in exploration work for Cominco Ltd. since 1967 and that I have been involved in most phases of porphyry copper exploration and development since 1968 to the present.
3. That I have been closely involved with the exploration work on the Jean property during 1973, 1974 and 1975.

Respectfully submitted:



Ragnar U. Bruaset  
Project Geologist



Department of  
 Mines and Petroleum Resources  
 ASSESSMENT REPORT  
 NO. 5737 MAP 2

JEAN WEST PROPERTY  
 DIAMOND DRILLING REPORT  
 J. M. MAP  
 TONANTLA LAKE AREA, OMINACA M.D. DC.

*Robert*



# Drill Hole Record 1

Property JEAN District Omineca M.D. Hole No. DDH 75-6

Commenced \_\_\_\_\_ Location \_\_\_\_\_ Tests at \_\_\_\_\_ Hor. Comp. \_\_\_\_\_  
 Completed \_\_\_\_\_ Core Size \_\_\_\_\_ Corr. Dip \_\_\_\_\_ Vert. Comp. \_\_\_\_\_  
 Co-ordinates \_\_\_\_\_ True Brg. \_\_\_\_\_ Logged by \_\_\_\_\_  
 Objective \_\_\_\_\_ % Recov. \_\_\_\_\_ Date \_\_\_\_\_

*Submerged*

Footage		Description	% Total Sulphide	cp/py	Bo/MoS <sub>2</sub> present or absent	Magnetism A=Strong B=Moderate C=Weak D=Non-Magnetic	Core Angle	Habit A=Hardened Fractures B=Quartz Veins C=Disseminated D=Seams	Epidote Carb- onate	Notes	Sample No.	Length	Claim	T Brg.	Collar Dip	Elev.	Length	Hole No. DDH 75-6	Sheet 9
From	To																		
No casing left in hole.																			
250	- 260	Cont'd.								253 Minor fault @ 50°									
260	- 270	As above.	0.1	1:1	No/No	B→C	20,50	A	-	263 fault @ 50°.	4771I	10							9.5
270	- 280	As above. Fresh biotite.	0.1	5:1	No/No	B→C	50°	A	-	278 Heavy chalcopyrite in Kspar fracture.	4772I	10							8.5
280	- 290	As above. Somewhat chloritic groundmass.	0.05	cpy/o	No/No	B→C	20°	A+C	-		4773I	10							10
290	- 297	As above.	0.05	1:1	No/No	B→C	35, 60, 70	A+C	-	292 Kspar salvages relative to hairline fracture @ 60°. 294 fault @ 50°.	4774I	7							5
END																			



## Drill Hole Record



Property JEAN District Omineca Hole No. DDH 75-3  
 Commenced Setting up August 4, 1975 Location B-Zone Tests at Not tested Hor. Comp. *Submont*  
 Completed August 10, 1975 Core Size BQ Corr. Dip - Vert. Comp. 372  
 Co-ordinates 0 + 93N 64 + 00W Plot relative to 0 + 00N 64 + 00W True Brg. - Logged by R.U. Bruaset  
 Objective Testing IP response % Recov. 99% Date August 8-10, 1975

Claim

J.W. 123

T Brg.

Collar Dip

-90

Elev.

3430

Length

372

Hole No.

DDH 75-3

Sheet

1

Footage From To	Description								Sample No.	Length	Analysis
	0 - 17 ft. overburden.	No secondary copper minerals encountered anywhere in hole.				Magnetism	Habit of Sulphides	CaCO3			
					A=Strong B=Moderate C=Weak D=Non Magnetic	Core Angle to Core Axis	A=Hairline Fracture B=Vein C=Dissemination D=Seams	Fractures or Epidote			
	Rock Type	% Total Sulphide	cpy/py	Presence of Bn/MoS <sub>2</sub>				Notes			
17 - 30	Fine grained Takla. Presumably flow. Augite phenocrysts fairly common. Secondary biotite and silicification pervasive. Occasional feldspar phenocrysts. Takla becoming progressively more intensely silicified with depth to 107.	0.25%	1:200	No/No	D	60-70	A+C	CaCO3	4648I	Limonic fractures occasionally. K-feldspathized borders relative to pyrite hairline fractures common.	13
										23' Fragmental with rounded fragment of augite porphyry	
30 - 40	As 17 - 30.	0.25%	1:200	No/No	D	60-70	A+C	CaCO3+ Epidote clots	4649I	in vein border	10

Scale

Colour Plot & Dips

# Drill Hole Reco.



Property **JEAN** District **Omineca** Hole No. **DDH 75-3**

Commenced Location Tests at Hor. Comp. *Revised*

Completed Core Size Corr. Dip Vert. Comp.

Co-ordinates True Brg. Logged by

Objective % Recov. Date

Footage		Description	Rock Type	% Total Sulphide	cpy/py	Presence of Bn/MoS <sub>2</sub>	Magnetism	Core Angle to Core Axis	Habit of Sulphides	CaCO <sub>3</sub>	Sample No.	Length	Analysis						
From	To												A=Strong	B=Moderate	C=Weak	D=Non Magnetic	A=Hairline Fracture	B=Vein	C=Dissemination
40	- 50	As 17 - 30.		1%	1:200	No/No	D	50-70	A+C	CaCO <sub>3</sub>	4650I								
50	- 60	As 17 - 30.		1%	1:200	No/No	D	50-70	A+C	Minor CaCO <sub>3</sub>	4651I								
60	- 70	As 17 - 30.		1/2%	1:200	No/No	D	50-70	A+C	Minor CaCO <sub>3</sub>	4652I								
70	- 80	As 17 - 30.		1/2%	1:200	No/No	D	40	A+C	Minor CaCO <sub>3</sub>	4653I								
80	- 90	As 17 - 30.		1/2%	1:200	No/No	D	50-70	A+B+C	CaCO <sub>3</sub> Epidote clots	4654I								
90	- 100	As 17 - 30.		1%	1:200	No/No	D	50-70	A+C	Minor CaCO <sub>3</sub> 96.5 Fragmental or brecciated with andesitic groundmass	4655I								









# Drill Hole Record



*Handwritten signature*

Property **JEAN** District **Omineca M.D.** Hole No. **DDH75-3**

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. **DDH75-3** Sheet **7**

Footage		Description	Rock Type	% Total Sulphide	cpy/dv	Presence of Bn/MoS <sub>2</sub>	Magnetism	Core Angle to Axis	Habit of Sulphides	CaCO <sub>3</sub>	Sample No.	Length	Analysis
From	To												
190	- 200	As above.		1/2%	1:200	No/No	C+D	80, 20	A+C	CaCO <sub>3</sub>	195 4665I		10
										Epidote		Epidote becoming more widespread	
200	- 210	As above.		1/2%	1:200	No/No	C+D	70-90	A+C	CaCO <sub>3</sub>	4666I		10
210	- 220	As above.		1/2%	1:200	No/No	C+D	80	A+C	CaCO <sub>3</sub>	192: 4667I		10
												Aphanitic Takla as above bleached or metasomatized into light grey rock of same grain size as above.	
												Contacts gradational. Same at 197-198 and variously as far as 212. Also white banded quartz infractions.	



Scale

Colour Plot & Dips

# Drill Hole Record

Property JEAN District Omineca Hole No. DDH75-3

*Relevant*

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. DDH75-3 Sheet 8

Footage		Description	% Total Sulphide	cpy/py	Presence of Bn/MoS <sub>2</sub>	Magnetism	Core Angle to Core Axis	Habit of Sulphides	CaCO <sub>3</sub>	Sample No.	Length	Analysis							
From	To											A=Strong	B=Moderate	C=Weak	D=Non Magnetic	A=Hairline Fracture	B=Vein	C=Dissemination	D=Seams
220	- 230	As above.	1/4%	1:500	No/No	C to D	80	A+C	CaCO <sub>3</sub>	4668I	10								
									on a few fractures.	220-250: Occasional magnetite in pyritic fractures.									
230	- 240	As above.	1/4%	1:500	No/No	C to D	80,20	A+C	Minor CaCO <sub>3</sub> Epidote	4669I	10								
									218 Limonitic fracture.										
240	- 250	As above.	1/4%	1:500	No/No	C to D	80	A+C	Minor CaCO <sub>3</sub> Epidote	4670I	10								
									243-246 fault @ 0° to axis.										
									247-248: About 7% pyrite in seams and closely spaced fractures. very intense bleaching.										



## Drill Hole Record



Property JEAN District Omineca Hole No. DDH75-3

Commenced Location Tests at Hor. Comp.

Completed Core Size Corr. Dip Vert. Comp.

Co-ordinates True Brg. Logged by

Objective % Recov. Date

Footage		Description	% Total Sulphide	cpy/py	Presence of Bn/MoS <sub>2</sub>	Magnetism	Core Angle to Axis	Habit of Sulphides	CaCO <sub>3</sub>	Sample No.	Length	Analysis	Claim	T Brg.	Collar Dip	Elev.	Length	Hole No. DDH75-3	Sheet 9
From	To																		
250	- 260																		
	Cont'd																		
250	- 260		1/2%	1:500	No/No	D	80	A+C	Minor CaCO <sub>3</sub>	4672I									10
260	- 270	End of above at 266. 266-274 Pinkish porphyritic dyke containing subhedral white feldspar in fine grain pinkish matrix. Trace disseminated pyrite, chalcopyrite. No alterations sharp bottom contact @ 50°, and sharp chilled top contact @ 80°. Brecciation and bleaching of volcanic rock at both contact.																	
270	- 280	END of dyke of 274.	0.1	1:1	No/No	D	No fractures	C		280 4673I									10

*Plumbment*

## Drill Hole Recd J



Property		District		Hole No.		Hor. Comp.		Vert. Comp.		Logged by		Claim	T Brg.	Collar Dip	Elev.	Length	Hole No.	Sheet										
JEAN		Omineca		DDH75-3															DDH75-3	10								
Commenced		Location		Tests at		Hor. Comp.		Vert. Comp.		Logged by		Claim	T Brg.	Collar Dip	Elev.	Length	Hole No.	Sheet										
																			DDH75-3	10								
Completed		Core Size		True Brg.		Date		Objective		Objective		Claim	T Brg.	Collar Dip	Elev.	Length	Hole No.	Sheet										
																			DDH75-3	10								
Footage		Description		Magnetism		Habit of Sulphides		CaCO3		Sample No.		Length		Analysis		Claim	T Brg.	Collar Dip	Elev.	Length	Hole No.	Sheet						
From To																							DDH75-3	10				
		Rock Type		% Total Sulphide		cpy/py		Presence of Bn/MoS <sub>2</sub>		Magnetism		Core Angle to Axis		Fractures or		Notes		Sample No.		Length		Claim	T Brg.	Collar Dip	Elev.	Length	Hole No.	Sheet
280	- 290	Aphanitic volcanic rock as above 274. Intense silicification. No secondary biotite development. Epidote common.		3/4%	1:500	No/No	C to D	80°	A+C	CaCO3	282:	4674I																10
											fractures.																	
											contact of bleached section where barren white quartz has been introduced. Brecciation cuts hairline fracture with pyrite.																	
290	- 300	As above, bleaching is most intense along fractures and where the fracture frequency is the most intense which is also where pyrite is most abundant. Only traces of chalcopyrite.		3/4%	1:500	No/No	C+D	80°	A+C	CaCO3	300-364:	4675I																10
											Common																	
300	- 310	As above.		1/2%	1:500	No/No	C+D	80,90	A+C	CaCO3	300-364:	4676I																10
											Minor																	
											Limonic fractures occasionally noted.																	

*Revised*

## Drill Hole Recd. J



*Elbment*

Property		JEAN		District		Omineca		Hole No.		DDH75-3		Claim	T Brg.	Collar Dip	Elev.	Length	Hole No. DDH75-3	Sheet 11			
Commenced		Location		Tests at		Hor. Comp.															
Completed		Core Size		Corr. Dip		Vert. Comp.															
Co-ordinates		True Brg.		Logged by																	
Objective		% Recov.		Date																	
Footage		Description						Sample No.		Length		Analysis									
From	To																				
								Magnetism		Habit of Sulphides		CaCO3									
								A=Strong B=Moderate C=Weak		Core Angle to		Fractures or									
						Presence of Bn/MoS <sub>2</sub>		D=Non Magnetic		Core Axis		Epidote CaCO3		Notes							
		Rock Type		% Total Sulphide		cpy/py															
310	- 320	310 - 314: Metasomatic dyke containing abundant pyrite. Total recrystallization into a fine grained rock consisting of silica and Kspar and pyrite mainly. 15% pyrite in total occurring mainly as closely spaced hairline fractures. Diffused contacts. Traces of cpy. Intense silicification.		5%	1:500	No/No	D	75-90	A,C	No CaCO3	4677I						10				
320	- 330	As 280 - 290.		½%	1:500	No/No	A	80°	A+B+C	Minor CaCO3 Epidote	320-330: Barren quartz veins common.	4678I					10				
330	- 340	As 280 - 290. Much faulting.		½%	1:500	No/No	D	80°	A+C	Minor CaCO3	330-333: Fault @ 70° gauge & mylonite	4679I					10				
340	- 350	As above. Much faulting.		½%	1:500	No/No	D	80°	A+C	Minor CaCO3	342-364: Fault with core angles 50-60° gauge, slickensides.	4680I					10				



## Drill Hole Recd. J



Property JEAN District Omineca Hole No. DDH75-4  
 Commenced Setting up August 10, 1975 Location A-B Zone Tests at Not tested Hor. Comp. *Refract*  
 Completed August 17, 1975 Core Size BQ Corr. Dip - Vert. Comp. 528  
 Co-ordinates 17 + 10N 66 + 10W relative to 17N 64W True Brg. - Logged by R.U. Bruaset  
 Objective % Recov. 93% Date August 13-17, 1975

Footage		Description	% Total Sulphide Estimated	cpy/py	Bn/ MoS <sub>2</sub> or absent	Degree of Magnetism A=Strong B=Moderate C=Weak D=Non Magnetic	Core Angle	Habit A=Hairline Fracture B=QB Vein C=Dissemination D=Seams	CaCO <sub>3</sub>	Notes	Sample No.	Length	Analysis
From	To												
0	- 100	Overburden.											
100	- 110	Massive medium grained hypautomorphic granodiorite. Plagioclase very weakly altered. Etched and stained specimen contains 12% Quartz; 4% (mafics + magnetite); 20% Kspar of the rock and 84% total feldspar.	.1	cpy/o	No/Yes	B	-	C	Traces		4683I		
110	- 120	As above.	.1	cpy/o	No/Yes	B	0.30 90.55	B,C	CaCO <sub>3</sub> in faulted area.		4684I		
120	- 130	The granodiorite ends at 126'. It is in fault contact with Takla. 126-130: Aphanitic Takla volcanic, massive. Silicified and biotite altered. Occasionally augite phenocrysts. Biotite alteration is dominant.	-	-	-	B	-	-	-	118-127: Gauge core angle. 50-60 chalcopyrite in the gauge.	4685I		

Claim

J,W.

T Brg.

Collar Dip -90°

Elev.

Length

3450

528

Hole No. DDH75-4

Sheet

1



Scale

Colour Plot & Dips

# Drill Hole Recd. J

Property **JEAN** District **Omineca** Hole No. **DDH75-4**

Commenced \_\_\_\_\_ Location \_\_\_\_\_ Tests at \_\_\_\_\_ Hor. Comp. \_\_\_\_\_

Completed \_\_\_\_\_ Core Size \_\_\_\_\_ Corr. Dip \_\_\_\_\_ Vert. Comp. \_\_\_\_\_

Co-ordinates \_\_\_\_\_ True Brg. \_\_\_\_\_ Logged by \_\_\_\_\_

Objective \_\_\_\_\_ % Recov. \_\_\_\_\_ Date \_\_\_\_\_

*Element*

Footage		Description	% Total Sulphide Estimated	cpy/py	Bn/MoS <sub>2</sub> present or absent	Degree of Magnetism A=Strong B=Moderate C=Weak D=Non Magnetic	Core Angle	Habit A=Hairline Fracture B=QB Vein C=Dissemination D=Seams	CaCO <sub>3</sub>	Notes	Sample No.	Length	Claim	T Brg.	Collar Dip	Elev.	Length	Hole No. DDH75-4	Sheet 2
From	To																		
130	- 140	As above.	1/2%	100:1	No/No	B	20-30	A,C	Minor	132.5 Minor gauge zone @ 65°	4686I								10
										132: Very heavy disseminated pyrite, minor chalcopyrite over 4".									
140	- 150	As above.	1/2%	1:3	No/No	D	20,70	A,C	Minor		4687I								7.5
150	- 160	As above.	1/2%	1:10	No/No	D	20°	A+C	Minor		4688I								7.5
160	- 170	As above.	1/2%	1:2	No/No	C	60,70	A+C	Minor		4689I								10
170	- 180	Massive aphanitic grey Takla as above, Secondary biotite and silicification	1/2%	1:5	No/No	C+D	-	C	Minor		4690I								9









# Drill Hole Record

Property JEAN District Omineca Hole No. DDH75-4

Commenced \_\_\_\_\_ Location \_\_\_\_\_ Tests at \_\_\_\_\_ Hor. Comp. \_\_\_\_\_

Completed \_\_\_\_\_ Core Size \_\_\_\_\_ Corr. Dip \_\_\_\_\_ Vert. Comp. \_\_\_\_\_

Co-ordinates \_\_\_\_\_ True Brg. \_\_\_\_\_ Logged by \_\_\_\_\_

Objective \_\_\_\_\_ % Recov. \_\_\_\_\_ Date \_\_\_\_\_

*Revised*

Footage		Description	% Total Sulphide Estimated	cpy/py	Bn/MoS <sub>2</sub> present or absent	Degree of Magnetism A=Strong B=Moderate C=Weak D=Non Magnetic	Core Angle	Habit A=Hairline Fracture B=QB Vein C=Dissemination D=Seams	CaCO <sub>3</sub>	Notes	Sample No.	Length	Analysis
From	To												
273	- 280	Takla as 240 - 270.5	0.1	4:1	No/No	D	60,70	A,C	Minor	4701I		6.5	
280	- 290	As 240 - 270.5	.05	50:1	No/No	D	-	C	Minor	4702I		10	
290	- 300	As 240 - 270.5	.1	1:200	No/Yes	D	20,60	C	Minor	295.5 Minor MoS <sub>2</sub> .	4703I		9.5
300	- 310	Generally aphanitic Takla. Locally bleached or silicified. Augite phenocrysts noted. Sulphide ratio is 1:200 to 295.5 than 1:50.	0.25	1:50	No/Yes	D	20 50-60	A,C	Minor		4704I		6.5
310	- 320	As above.	0.1	1:50	No/No	D	20 80,90	A,C	Minor		4705I		4
320	- 330	Fine grained Takla with pervasive secondary biotite and siliceous sections. Augite phenocryst altered to secondary biotite.	0.1	1:50	No/No	D	85,20	A,C	Minor		4706I		9.5

Claim  
T Brg.  
Collar Dip  
Elev.  
Length  
Hole No. DDH75-4  
Sheet 5

## Drill Hole Rec'd



Property JEAN District Omineca Hole No. DDH75-4

Commenced \_\_\_\_\_ Location \_\_\_\_\_ Tests at \_\_\_\_\_ Hor. Comp. \_\_\_\_\_

Completed \_\_\_\_\_ Core Size \_\_\_\_\_ Corr. Dip \_\_\_\_\_ Vert. Comp. \_\_\_\_\_

Co-ordinates \_\_\_\_\_ True Brg. \_\_\_\_\_ Logged by \_\_\_\_\_

Objective \_\_\_\_\_ % Recov. \_\_\_\_\_ Date \_\_\_\_\_

*Revised*

Footage		Description	% Total Sulphide Estimated	cpy/py	Bn/MoS <sub>2</sub> present or absent	Degree of Magnetism A=Strong B=Moderate C=Weak D=Non Magnetic	Core Angle	Habit A=Hairline Fracture B=QB Vein C=Dissemination D=Seams	CaCO <sub>3</sub>	Notes	Sample No.	Length	Analysis	Claim	T Brg.	Collar Dip	Elev.	Length	Hole No. DDH75-4	Sheet 6
From	To																			
330	- 340	As above.	0.1	1:50	No/No	D	-	C	Minor		4707I									10
340	- 350	As above.	0.1	1:5	Yes/No	D	50,20	C	Minor		4708I									8.5
350	- 360	As above.	0.2	5:1	No/No	D	50,60 80	A,B,C,D	Minor	352: Chalco- pyrite bearing seam.	4709I									10
360	- 370	As above.	1%	5:1	No/No	D	50,60	A,C	Minor	362-367: pegmatitic dyke @ 40° Chalco- pyrite in fractures and diss- eminations	4710I									7
370	- 380	As above.	1%	5:1	No/No	D	50-60	A,C	Minor		4711I									10

## Drill Hole Record


 Property JEAN District Omineca Hole No. DDH75-4

Commenced \_\_\_\_\_ Location \_\_\_\_\_ Tests at \_\_\_\_\_ Hor. Comp. \_\_\_\_\_

Completed \_\_\_\_\_ Core Size \_\_\_\_\_ Corr. Dip \_\_\_\_\_ Vert. Comp. \_\_\_\_\_

Co-ordinates \_\_\_\_\_ True Brg. \_\_\_\_\_ Logged by \_\_\_\_\_

Objective \_\_\_\_\_ % Recov. \_\_\_\_\_ Date \_\_\_\_\_

Footage		Description	% Total Sulphide Estimated	cpy/py	Bn/ MoS <sub>2</sub> or absent	Degree of Magnetism A=Strong B=Moderate C=Weak D=Non Magnetic	Core Angle	Habit A=Hairline Fracture B=QB Vein C=Dissemination D=Seams	CaCO <sub>3</sub>	Notes	Sample No.	Length	Claim	T Brg.	Collar Dip	Elev.	Length	Hole No. DDH75-4	Sheet 7
From	To																		
380	- 390	Similar to above but by 396 the hole is already grading into aphanitic Takla without intense secondary biotite development.	1%	2:1	No/Yes	C	30,50	A,B,C	Minor	380: Heavy MoS <sub>2</sub> + pyrite + minor chalcopyrite in 3/4" quartz vein.	4712I								10
390	- 400	Aphanitic Takla with silicification as dominant alteration type	0.25	1:1	No/No	A,C	75,85 20	A,C	Minor	402: Minor Kspar along fractures Chalcopyrite + MoS <sub>2</sub> .	4713I								10
400	- 410	Fine grained Takla with augite common in this somewhat less intensely altered section.	1%	1:1	No/Yes	D	25 60-70	A+D	Minor	404-405: Limonitic fractures.	4714I								10
410	- 423	Rock as 400-410.	1.5	3:1	No/Yes	D	50,70	A,B,C	Minor	414-416: Faulting @ 60°. Bleaching	4715I								13

*Refract*

## Drill Hole Recc J



Property	JEAN	District	Omineca	Hole No.	DDH 75-4
Commenced		Location		Tests at	Hor. Comp.
Completed		Core Size		Corr. Dip	Vert. Comp.
Co-ordinates				True Brg.	Logged by
Objective				% Recov.	Date

*Submer*

Footage From To	Description	% Total Sulphide Estimated	cpy/py	Bn/ MoS <sub>2</sub> present or absent	Degree of Magnetism A=Strong B=Moderate C=Weak D=Non Magnetic	Core Angle	Habit A=Hairline Fracture B=QB Vein C=Dissemin- ation D=Seams	CaCO <sub>3</sub>	Notes	Sample No.	Length	Analysis					
												Claim	T Brg.	Collar Dip	Elev.	Length	Hole No. DDH 75-4
410 - 423																	
Cont'd									418: Faulting @ 60° MoS <sub>2</sub>								
423 - 428	As above but intense bleaching in sections of better grade. Chalcopryrite + MoS <sub>2</sub> in seams up to 1/8" and in quartz veins to 1/4".	10%	10:1	No/Yes	D	50,70	A,B,C	Minor		4716I							5
428 - 440	Fine grained Takla with pervasive secondary biotite & silicification. The biotite alteration is most well developed of the two.	.2%	10:1	No/Yes	D	60-70	A,B,C,	Minor	436: Minor fault @ 40° gauge	4717I							12
440 - 450	As above.	1.5	10:1	No/Yes	C to D	60-70	A,B,C,	Minor		4718I							10
450 - 460	As above but including fragmental rock.	0.75	2:1	No/No	D	50-60	A,B,C,	Minor	456-459: Fragmental Takla with angular fragments	4719I							10

## Drill Hole Record



Property JEAN District Omineca Hole No. DDH 75-4

Commenced Location Tests at Hor. Comp.

Completed Core Size Corr. Dip Vert. Comp.

Co-ordinates True Brg. Logged by

Objective % Recov. Date

Footage		Description	% Total Sulphide Estimated	cpy/py	Bn/ MoS <sub>2</sub> present or absent	Degree of Magnetism A=Strong B=Moderate C=Weak D=Non Magnetic	Core Angle	Habit A=Hairline Fracture B=QB Vein C=Dissemin- ation D=Seams	CaCO <sub>3</sub>	Notes	Sample No.	Length	Claim	T Brg.	Collar Dip	Elev.	Length	Hole No. DDH 75-4	Sheet 9
From	To																		
450	- 460																		
	Cont'd																		
460	- 470	Fine grained, locally aphanitic Takla. Silicified and biotitized.	0.25	1:5	No/No	D	50-70	A,C	Minor		4720I								10
470	- 480	As above. 477: Diorite specimen slabbed, etched and stained: 2% quartz, 25% mafics plus magnetite, 73% total feldspar, 1% Kspar of rock, 99% plagioclase of total feldspar massive medium grained hypautomorphic.	1.5	5:1	No/No	D	40, 70 20	A,C	Minor	470-472: dyke with sharp contact @ 60°.	4721I								10

*Submerged*

# Drill Hole Record



Property **JEAN** District **Omineca** Hole No. **DDH 75-4**

Commenced Location Tests at Hor. Comp. *Refinement*

Completed Core Size Corr. Dip Vert. Comp.

Co-ordinates True Brg. Logged by

Objective % Recov. Date

Footage		Description	% Total Sulphide Estimated	cpy/py	Bn/MoS2 present or absent	Degree of Magnetism A=Strong B=Moderate C=Weak D=Non Magnetic	Core Angle	Habit A=Hairline Fracture B=QB Vein C=Dissemination D=Seams	CaCO3	Notes	Sample No.	Length	Analysis	Claim	T Brg.	Collar Dip	Elev.	Length	Hole No. DDH 75-4	Sheet 10
From	To																			
480	- 485	As above. Specimen 481 Etched and stained slab 2% quartz, 27% mafics + magnetite, 73% total feldspar < 1% Kspar of rock, 100% + plagioclase of total feldspar. Massive, medium grained hypautomorphic diorite.	1	100:1	No/Yes	D	50,90	A,B,C	Minor	481: dyke as 470-472 @ 60°. Disseminated pyrite. Chalcopyrite in hairline fractures cut both dyke and volcanic rock.	4722I									5
485	- 487	As above. Faulted section well mineralized with chalcopyrite + MoS2 in quartz veins. Faulting @ 70°.	5%	100:1	No/Yes	C	-	B	Minor		4723I									2
487	- 500	As 460-470 pervasive biotite alteration with lesser silicification.	0.5	10:1	No/No	C	-	C	Minor		4724I									13
500	- 510	As above.	0.1	1:1	No/No	C	-	A,C	Minor	506: Augite crystals common.	4725I									10

# Drill Hole Record



Property **JEAN** District **Omineca** Hole No. **DDH 75-4**

Commenced \_\_\_\_\_ Location \_\_\_\_\_ Tests at \_\_\_\_\_ Hor. Comp. \_\_\_\_\_

Completed \_\_\_\_\_ Core Size \_\_\_\_\_ Corr. Dip \_\_\_\_\_ Vert. Comp. \_\_\_\_\_

Co-ordinates \_\_\_\_\_ True Brg. \_\_\_\_\_ Logged by \_\_\_\_\_

Objective \_\_\_\_\_ % Recov. \_\_\_\_\_ Date \_\_\_\_\_

*Reformed*

Claim
T Brg.
Collar Dip
Elev.
Length
Hole No. DDH 75-4
Sheet 11

Footage		Description	% Total Sulphide Estimated	cpy/py	Bn/MoS2 present or absent	Degree of Magnetism A=Strong B=Moderate C=Weak D=Non Magnetic	Core Angle	Habit A=Hairline Fracture B=QB Vein C=Dissemination D=Seams	CaCO3	Notes	Sample No.	Length	Analysis						
From	To																		
510	- 520	As above.	0.1	1:1	No/No	C	-	A,C	Minor		4726I								
520	- 528	As above.	0.1	1:1	No/No	C	-	A,C	Minor		4727I								7.5
END																			



# Drill Hole Record

Property **JEAN** District **Omineca M.D.** Hole No. **75-5**  
 Commenced **Setting up August 17, 1975** Location **A-Zone** Tests at **-** Hor. Comp. **-**  
 Completed **August 19, 1975** Core Size **BQ** Corr. Dip **-** Vert. Comp. **267 feet**  
 Co-ordinates **23 + 85 N 77 + 90 W** Plot relative to **24N 80W only** True Brg. **-** Logged by **R.U. Bruaset**  
 Objective **-** % Recov. **94.6%** Date **Aug 18 - Aug 19, 1975**

*See Appendix*

Claim **J. W. 126**  
 T Brg. **-**  
 Collar Dip **-90**  
 Elev. **3390**  
 Length **267**  
 Hole No. **75-5** Sheet **1**

Footage From To	Description	% Total Sulphide	cpy/py	Bornite or MoS <sub>2</sub> noted Yes/Yes No/No 0 = Not present in notice- able amounts	Magnetism		Core Angle	Habit		Notes	Sample No.	Length	Analysis					
					A=Strong B=Moderate C=Weak D=Non- Magnetic			A=Hairline Fracture B=Quartz Vein C=Dissemin- ated D=Seam										
0 - 46	Overburden. Drilled with mud. All rods and casing recovered.																	
46 - 60	Medium grained massive hypautomorphic biotite granodiorite. Considerable faulting. Alteration mainly in the form of argillic alteration which has softened the plagioclase principally in areas of faulting. Hematitized plagioclase noted mainly in areas of faulting. Local intense argillic alteration appears to enhance the quality of plagioclase crystal outlines.	0.15	cpy only	No/Yes	C	40,70	A,D				4728I	46 to 60 14						4
50 - 60	As above.	2%	2:1	No/Yes	D	30,70	B,D			Occasionally Kspar envelope. 52.5 A 4 inch thick quartz vein containing nearly massive chalcopyrite & pyrite & MoS <sub>2</sub> @ 70°.	See above.							9



# Drill Hole Record



*Reformed*

Property JEAN District Omineca M.D. Hole No. 75-5

Commenced \_\_\_\_\_ Location \_\_\_\_\_ Tests at \_\_\_\_\_ Hor. Comp. \_\_\_\_\_

Completed \_\_\_\_\_ Core Size \_\_\_\_\_ Corr. Dip \_\_\_\_\_ Vert. Comp. \_\_\_\_\_

Co-ordinates \_\_\_\_\_ True Brg. \_\_\_\_\_ Logged by \_\_\_\_\_

Objective \_\_\_\_\_ % Recov. \_\_\_\_\_ Date \_\_\_\_\_

Footage From To	Description	% Total Sulphide	cpy/py	Bornite or MoS <sub>2</sub> noted Yes/Yes No/No 0 = Not present in notice- able amounts	Magnetism A=Strong B=Moderate C=Weak D=Non- Magnetic	Core Angle	Habit A=Hairline Fracture B=Quartz Vein C=Dissemin- ated D=Seam	Notes	Sample No.	Length	Analysis					Hole No. 75-5	Sheet 2
											Claim	T Brg.	Collar Dip	Elev.	Length		
50 - 60								53-56 Intense kaolinization & gauging rear fault @ 70° Also hematite stained feldspar in fault zone. 54 Chalcopyrite & MoS <sub>2</sub> in quartz vein @ 1/8 cut by barren quartz vein. 57 Barren quartz vein.									
60 - 70	Granodiorite. Minor shearing indicated by minor gauge development.	1%	cpy only	No/Yes	D	50,70	B+D	58-62.5 Medium grained porphyritic dyke consisting of plagioclase in fine grained pinkish ground mass. Unmineralized except for heavy chalcopyrite & MoS <sub>2</sub> in quartz vein @ 40° in contact of dyke with granodiorite. 64 Barren quartz vein cuts cpy & MoS <sub>2</sub> quartz vein.	4729I	10						10	

# Drill Hole Record



Property **JEAN** District **Omineca M.D.** Hole No. **75-5**

*Deformed*

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. 75-5 Sheet 3

Footage From To	Description	% Total Sulphide	cpy/py	Bornite or MoS <sub>2</sub> Yes/Yes No/No 0 = Not present in notice- able amounts	Magnetism A=Strong B=Moderate C=Weak D=Non- Magnetic	Core Angle	Habit A=Hairline Fracture B=Quartz Vein C=Dissemin- ated D=Seam	Notes	Sample No.	Length	Analysis					
70 - 80	Granodiorite as above. Hematite staining of plagioclase near faults. Faulting @ 50°, 80° clearly cuts barren and mineralized quartz veins which have been gauged and crushed. Plagioclase variously soft to hard to knife depending on closeness to faults.	2%	200:1	No/Yes	D	35.50	B+D	78-81 Fault @ 30-50°. 73 1/8 chalco- pyrite seam cut by fault parallel to core axis & displaced 1 inch	4730I	10						9.5
80 - 90	Granodiorite. 97 Specimen slabbed etched and stained: 12% Quartz, 3% mafics & magnetite 85% total feldspar, 17% Kspar of rock, 80% plagioclase of total feldspar. Massive medium grained hypauto- morphic.	1%	CPY only	No/Yes	D	70	B	85-92 Intense hematite staining, gauging & shearing.	4731I	10						8.5
90 - 100	Granodiorite. Kspar borders relative to mineralized fractures.	-	CPY only	No/Yes	D	70	D	Minor gauging	4732I	10						10

# Drill Hole Reco.



*Refinement*

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

Footage From To	Description	% Total Sulphide	cpy/py	Bornite or MoS <sub>2</sub> noted Yes/Yes No/No 0 = Not present in noticeable amounts	Magnetism A=Strong B=Moderate C=Weak D=Non-Magnetic	Core Angle	Habit A=Hairline Fracture B=Quartz Vein C=Disseminated D=Seam	Notes	Sample No.	Length	Analysis					Hole No. 75-5	Sheet 4
											Claim	T Brg.	Collar Dip	Elev.	Length		
100 - 110	Granodiorite.	1%	5:1	No/Yes	D	70	D	98-113.5 Many minor faults & sections of softened feldspar much red staining of plagioclase presumable due to hematite. Core angles generally 30 - 50°.	4733I	10							8
110 - 120	Granodiorite. Dominant alteration associated with mineralization is Kspar borders. Plagioclase tend to be slightly greenish in colour.	1%	4:1	No/Yes	D	60,70	B+D		4734I	10							8.5
120 - 130	Granodiorite. Biotite generally fresh and plagioclase generally greenish. Kspar envelope relative to fractures containing mineralization.	½	only	Yes/Yes	D	60,70	B+D	120 Bornite first noticed in this hole. Accompanied by chalcopyrite & MoS <sub>2</sub> commonly here.	4735I	10							7

# Drill Hole Reco



*Handwritten signature*

Property **JEAN** District **Omineca M.D.** Hole No. **75-5**

Commenced Location Tests at Hor. Comp.

Completed Core Size Corr. Dip Vert. Comp.

Co-ordinates True Brg. Logged by

Objective % Recov. Date

Footage		Description	% Total Sulphide	cpy/py	Bornite or MoS <sub>2</sub> noted Yes/Yes No/No 0 = Not present in noticeable amounts	Magnetism A=Strong B=Moderate C=Weak D=Non-Magnetic	Core Angle	Habit A=Hairline Fracture B=Quartz Vein C=Disseminated D=Seam	Notes	Sample No.	Length	Claim	T Brg.	Collar Dip	Elev.	Length	Hole No. 75-5	Sheet 5
From	To																	
130	- 140	As 120 - 130.	1/2	cpy only	Yes/Yes	C	60	B+D	130 - 131 fault @ 50° gauge of red or hematitized plagioclase.	4736I	10							9.5
140	- 150	As 120 - 130.	1/2	cpy only	Yes/Yes	D	60	D		4737I	10							9.5
150	- 160	As 120 - 130.	1/2	cpy only	Yes/Yes	D	50-60	B+D		4738I	10							10
160	- 170	As 120 - 130.	1/2	cpy only	Yes/Yes	C	65-70	B+D		4739I	10							10
170	- 180	As 120 - 130.	1/2	cpy only	Yes/Yes	C	70-80	D		4740I	10							10
180	- 190	Granodiorite as above with Kspar borders relative to mineralized veins. Biotite generally fresh. Biotite altered to chlorite in better mineralized sections. Plagioclase soft in such sections.	1/2	only	Yes/Yes	D	60-65	B+D	176-180 Barren quartz vein @ 10° cut biotite chalcopyrite-MoS <sub>2</sub> veinlet.	4741I	10							10



*Refined*

# Drill Hole Reco

Property **JEAN** District **Omineca M.D.** Hole No. **75-5**

Commenced	Location	Tests at	Hor. Comp.
Completed	Core Size	Corr. Dip	Vert. Comp.
Co-ordinates	True Brg.	Logged by	
Objective	% Recov.	Date	

Footage From To	Description	% Total Sulphide	cpy/py	Bornite or MoS <sub>2</sub> noted Yes/Yes No/No 0 = Not present in notice- able amounts	Magnetism		Core Angle	Habit		Notes	Sample No.	Length	Analysis	Claim	T Brg.	Collar Dip	Elev.	Length	Hole No. 75-5	Sheet 6		
					A=Strong B=Moderate C=Weak D=Non- Magnetic			A=Hairline Fracture B=Quartz Vein C=Dissemin- ated D=Seam														
190 - 200	As 180 - 190.	1/2	CPY only	Yes/Yes	D		65,20	B+D		191 Barren quartz vein cuts & displaces chalcopyrite - bornite veinlet.	4742I	10								10		
200 - 210	As 180 - 190.	3/4%	2:1	No/Yes	D		50-70	B+D		203 Minor fault @ 30°. Also heavy pyrite + MoS <sub>2</sub> and chalc- pyrite in quartz vein in shear zone. Some sericite.	4743I	10									10	
210 - 220	Granodiorite as above with similar type Kspar development in vein borders, one perhaps a little less intense. Kaolinization appears to have become the most intense alteration type.	3/4%	1:1	No/Yes	D		50-70	B+D		216-220 Plagio- clase occasionally altered to emerald-green material (possibly sercite).	4744I	10								9.5		



# Drill Hole Record

Property **JEAN** District **Omineca M.D.** Hole No. **75-5**

*Reclamation*

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. **75-5**  
Sheet **7**

Footage		Description	% Total Sulphide	cpy/py	Bornite or MoS <sub>2</sub> noted Yes/Yes No/No 0 = Not present in noticeable amounts	Magnetism A=Strong B=Moderate C=Weak D=Non-Magnetic	Core Angle	Habit A=Hairline Fracture B=Quartz Vein C=Disseminated D=Seam	Notes	Sample No.	Length	Analysis					
From	To																
220	- 230	Granodiorite as 210-220 plagioclase generally greenish in colour. Biotite fresh. Chalcopyrite + MoS <sub>2</sub> + pyrite in veins with Kápar envelopes frequently.	½	1:1	No/Yes	D	60,80	B+D		4745I	10						9
230	- 240	Granodiorite as 210-220.	½	2:1	No/Yes	D	60,80	B+D	232 Barren quartz vein.	4746I	10						10
240	- 248	Granodiorite as above with fresh biotite.	-	-	-	-	-	-	232 Minor fault @ 50°.	4747I	8						8
248	- 249	Heavy chalcopyrite, MoS <sub>2</sub> , pyrite in quartz vein.	3%	3:1	No/Yes	D	-	B	-	4748I	1						1
249	- 260	Granodiorite as above Greenish feldspars. Fresh biotite. Minor bornite.	½	only	Yes/Yes	D	20,60	B+D		4749I	11						11

# Drill Hole Record



Property JEAN District Omineca M.D. Hole No. 75-5

Commenced \_\_\_\_\_ Location \_\_\_\_\_ Tests at \_\_\_\_\_ Hor. Comp. \_\_\_\_\_

Completed \_\_\_\_\_ Core Size \_\_\_\_\_ Corr. Dip \_\_\_\_\_ Vert. Comp. \_\_\_\_\_

Co-ordinates \_\_\_\_\_ True Brg. \_\_\_\_\_ Logged by \_\_\_\_\_

Objective \_\_\_\_\_ % Recov. \_\_\_\_\_ Date \_\_\_\_\_

*See Appendix*

Footage From To	Description	% Total Sulphide	cpy/py	Bornite or MoS <sub>2</sub> noted Yes/Yes No/No 0 = Not present in notice- able amounts	Magnetism A=Strong B=Moderate C=Weak D=Non- Magnetic	Core Angle	Habit A=Hairline Fracture B=Quartz Vein C=Dissemin- ated D=Seam	Notes	Sample No.	Length	Analysis	Claim	T Brg.	Collar Dip	Elev.	Length	Hole No. 75-5	Sheet 8	
260 - 267	As above except 261-263 which is a quartz-Kspar pegmatite dyke with minor associated chalcopyrite & MoS <sub>2</sub> .	1/4	only	No/Yes	D	50°	B+D		4750I	7									
END																			

## Drill Hole Record



Property JEAN District Omineca M.D. Hole No. DDH-75-6  
 Commenced 19 August 1975 Location A-Zone Tests at - Hor. Comp. -  
 Completed 23 August 1975 Core Size BQ Corr. Dip - Vert. Comp. 296  
 Co-ordinates 35 + 24N 96 + 00W relative to 35N/96W True Brg. - Logged by R.Ú. Bruaset  
 Objective % Recov. 92% Date 20 Aug - 23 Aug 1975

Claim

J.W. 95

T Brg.

Collar Dip -90

Elev. 3390

Length 297

Hole No. DDH 75-6

Sheet 1

No casing left in hole.		% Total Sulphide	cp/py	Bo/MoS <sub>2</sub> present or absent	Magnetism A=Strong B=Moderate C=Weak D=Non-Magnetic	Core Angle	Habit A=Hardened Fractures B=Quartz Veins C=Disseminated D=Seams	Epidote Carbonate	Notes	Sample No.	Length	Analysis					
Footage From	To											Description					
0	- 60																
60	- 70	0.25	cpy/No	No/Yes	D	50.70	A+B	-		4751I	10						9
		Medium grained massive hypautomorphic biotite-quartz diorite. Etched & stained specimen at 67' 15% Qtz, 3% mafic and magnetite, 82% total feldspar, 3% of rock is kspar. Biotite fresh: some argillic alteration of plagioclase; Kspar occasionally form borders of veins.															
70	- 80	0.1	cpy/No	No/Yes	D	90,60°	A	-	Post-mineral barren quartz veins cut cpy/MoS <sub>2</sub> bearing fractures.	4752I	10						8.5
		Rock type as above. Plagioclase frequently assume euhedral grain boundary in the more intensely argillicly altered sections.															
80	- 91	0.1	cpy/No	Yes/Yes	D	85,45	A	-	91 kspar salvage relative to cpy bearing hairline fracture.	4753I	9						9





Scale

Colour Plot & Dips

# Drill Hole Reco

Property JEAN District Omineca M.D. Hole No. DDH-75-6

*Refract*

Commenced Location Tests at Hor. Comp.

Completed Core Size Corr. Dip Vert. Comp.

Co-ordinates True Brg. Logged by

Objective % Recov. Date

No casing left in hole.

Footage From To		Description	% Total Sulphide	cp/py	Bo/MoS <sub>2</sub> present or absent	Magnetism A=Strong B=Moderate C=Weak D=Non-Magnetic	Core Angle	Habit A=Hardened Fractures B=Quartz Veins C=Disseminated D=Seams	Epidote Carbonate	Notes	Sample No.	Length	Analysis
91	- 101	As above. Intensely kaolinized in better mineralized section. Fresh biotite crystals.	1.5	1:1	No/Yes	D	30,70	A,B	-	98: Heavy pyrite, chalcopyrite, MoS <sub>2</sub> , in quartz veins @ 30°.	4754I	10	
										99-101 fault @ 50° gauge			
101	- 110	Fresher quartz diorite than at start of hole. Local sections of strong argillic alteration (clayey plagioclase soft to fingernails, plagioclase frequently greenish in colour),	0.1	cpy/No	No/Yes	D	50°	A	-		4755I	9	
110	- 120	Quartz diorite as 101 - 110.	0.1	cpy/No	No/Yes	D	60°	A,B	-	119 Blebs of cpy to 1/2 inch in quartz vein. About one foot of core not recovered at	4756I	10	

Claim

T Brg.

Collar Dip

Elev.

Length

Hole No. DDH 75-6

Sheet 2

## Drill Hole Recd J



Property JEAN District Omineca M.D. Hole No. DDH 75-6

Commenced Location Tests at Hor. Comp.

Completed Core Size Corr. Dip Vert. Comp.

Co-ordinates True Brg. Logged by

Objective % Recov. Date

No casing left in hole.

Footage		Description	% Total Sulphide	cp/py	Bo/MoS <sub>2</sub> present or absent	Magnetism	Core Angle	Habit	Epidote Carbonate	Notes	Sample No.	Length	Analysis	Claim	T Brg.	Collar Dip	Elev.	Length	Hole No. DDH 75-6	Sheet 3
From	To																			
110	- 120									this point. Fault @ 300. Sericitic gauge. Fault extends to 122. Limonitic gauge also.										
120	- 130	Quartz diorite quite fresh.	0.1	cpy/No	No/Yes	C	50,65	A	-		4757I	10								9.5
130	- 140	Quartz diorite as 120-130 Kspar salvages along veins & fractures.	0.1	cpy/No	Yes/No	C	50,60	A,B	-	No barren quartz veins noted 132 Mod of medium grained massive hypautomorphic quartz diorite 12% Quartz, 2% mafic & magnetite 86% total feldspar 5% Kspar in the rock.	4758I	10								9.5



*for record*

Scale

Colour Plot & Dips

# Drill Hole Recd

Property **JEAN** District **Omineca M.D.** Hole No. **DDH 75-6**

Commenced Location Tests at Hor. Comp.

Completed Core Size Corr. Dip Vert. Comp.

Co-ordinates True Brg. Logged by

Objective % Recov. Date

No casing left in hole.		% Total Sulphide	cp/py	Bo/MoS <sub>2</sub> present or absent	Magnetism A=Strong B=Moderate C=Weak D=Non-Magnetic	Core Angle	Habit A=Hardened Fractures B=Quartz Veins C=Disseminated D=Seams	Epidote Carbonate	Notes	Sample No.	Length	Analysis
Footage From	To											
140	- 150	0.1	cpy/No	Yes/No	C	30, 50,60	A	-	149 heavy chalcopyrite & bornite in hairline fracture @ 50c. No MoS <sub>2</sub> associated.	4759I	10	9.5
150	- 160	0.1	cpy/No	Yes/Yes	B C	50,60	B	-	149 Mode for massive medium grained hypautomorphic quartz diorite 10% Quartz, 3% mafics & magnetite +87% total feldspar, 6% Kspar in the rock.	4760I	10	10
160	- 170	0.1	cpy/No	Yes/Yes	B C	50,60	A+D	-	161 A 1/8" thick seam of chalcopyrite + biotite. Minor Kspar salvage.	4761I	10	9.5

Claim  
T Brg.  
Collar Dip  
Elev.  
Length  
Hole No. DDH 75-6  
Sheet 4



## Drill Hole Record



Property JEAN District Omineca M.D. Hole No. DDH 75-6

Commenced Location Tests at Hor. Comp.

Completed Core Size Corr. Dip Vert. Comp.

Co-ordinates True Brg. Logged by

Objective % Recov. Date

No casing left in hole.

Footage		Description	% Total Sulphide	cp/py	Bo/MoS <sub>2</sub> present or absent	Magnetism A=Strong B=Moderate C=Weak D=Non- Magnetic	Core Angle	Habit A=Hardened Fractures B=Quartz Veins C=Dissemin- ated D=Seams	Epid- ote Carb- onate	Notes	Sample No.	Length	Analysis
From	To												
180	- 190	Rock as above.	0.25	Yes/No	No/No	B→C	50-55	A+C	-	186 Limon- itic fracture containing heavy bornite.	4763I	10	
190	- 200	As above.	Minor	Yes/No	No/No	B→C	-	C	-	191 Fract- ure con- taining quartz & chalco- pyrite cuts fresh biotite crystal leaving biotite fresh and partly replaced by chalco- pyrite.	4764I	10	
										193 mode of massive medium grained hypauto- morphic quartz			

Claim

T Brg.

Collar Dip

Elev.

Length

Hole No.  
DDH 75-6

Sheet

6



# Drill Hole Recd 1

Property **JEAN** District **Omineca M.D.** Hole No. **DDH 75-6**

Commenced \_\_\_\_\_ Location \_\_\_\_\_ Tests at \_\_\_\_\_ Hor. Comp. \_\_\_\_\_

Completed \_\_\_\_\_ Core Size \_\_\_\_\_ Corr. Dip \_\_\_\_\_ Vert. Comp. \_\_\_\_\_

Co-ordinates \_\_\_\_\_ True Brg. \_\_\_\_\_ Logged by \_\_\_\_\_

Objective \_\_\_\_\_ % Recov. \_\_\_\_\_ Date \_\_\_\_\_

No casing left in hole.		% Total Sulphide	cp/py	Bo/MoS <sub>2</sub> present or absent	Magnetism A=Strong B=Moderate C=Weak D=Non-Magnetic	Core Angle	Habit A=Hardened Fractures B=Quartz Veins C=Disseminated D=Seams	Epidote Carbonate	Notes	Sample No.	Length	Claim	T Brg.	Collar Dip	Elev.	Length	Hole No.	Sheet
Footage From	To																	
190	- 200								diorite: 13% Quartz, 7% mafics + magnetite 74% total feldspar, 6% Kspar of total feldspar.									
200	- 210	Traces	Yes/No	No/No	B-C	-	-	-	196½ fault @ 30° 208 fault @ 50°	4765I	10							10
210	- 220	A few specimens.	Yes/No	No/No	B-C	-	C	-		4766I	10							8
220	- 230	0.1	Yes/No	Yes/Yes	B-C	-	-	-	226 Heavy chalco- pyrite, bornite in quartz vein ¼" thick. Minor MoS <sub>2</sub> .	4767I	10							9

*Submitt*

## Drill Hole Record



Property JEAN District Omineca M.D. Hole No. DDH 75-6

Commenced Location Tests at Hor. Comp.

Completed Core Size Corr. Dip Vert. Comp.

Co-ordinates True Brg. Logged by

Objective % Recov. Date

No casing left in hole.

Footage		Description	% Total Sulphide	cp/py	Bo/MoS <sub>2</sub> present or absent	Magnetism A=Strong B=Moderate C=Weak D=Non-Magnetic	Core Angle	Habit A=Hardened Fractures B=Quartz Veins C=Disseminated D=Seams	Epidote Carb- onate	Notes	Sample No.	Length	Analysis	Claim	T Brg.	Collar Dip	Elev.	Length	Hole No. DDH 75-6	Sheet 8
From	To																			
230	- 240	As above. Note that pyrite all of a sudden appears.	0.25	2:1	Yes/No	B→C	30, 50 60°	-	-	227: fault @ 50°. Minor gauge 236: fault @ 50°. Pyrite in gauge. 237 Limonitic fractures occasionally noted generally fresh biotite books and plagioclase is generally fresh to very weakly altered.	4768I	10							10	
240	- 250	Rock as above. Limonitic fractures common.	0.25	100:1	No/No	B→C	40, 50	-	-		4769I	10							10	
250	- 260	Rock as above.	0.1	100:1	No/No	B→C	30	A	-	Minor Kspar alteration in borders of veinlets.	4770I	10							10	