87-129 - 15594

3/88

Operator: BRENDA MINES LTD.

ASSESSMENT REPORT FOR DIAMOND DRILLING

ON

BERN #8 and BERN #17 MINERAL CLAIMS

MINERAL LEASE #M-82, LOT 5156

N.T.S. 82E/13W

53.2' 59.6'

49° ~~53' 20"~~ 119° ~~59' 30"~~

BRENDA MINE SITE

OSOYOOS MINING DIVISION

Owners: Brenda Mines Ltd.
Noranda Expl. Ltd.

Core Storage : All-Core Assaying

Work Performed: November 10 to November 24, 1986

Author : R.U. Bruaset, FGAC

Date : November 26, 1986

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INTRODUCTION

During the period November 10 to November 24, 1986, Brenda Mines Ltd. conducted a diamond drilling programme on the Bern #8 and Bern #17 mineral claims near its Peachland area mine site.

Brenda Mines Ltd. is currently mining fracture controlled copper molybdenum porphyry mineralization from a pit situated 0.8 km southwest of the drill target (Plate 2).

The current drill target was selected on the basis of it having similar induced polarization, soil geochemical and geological signatures to those of the Brenda deposit. In the case of the current drill target, a diamond drill hole collared in 1966 and testing the margin of the target intersected short intervals of low grade copper mineralization and occasionally encouraging values in molybdenum.

The results of the drill programme demonstrated the presence of fracture controlled copper-molybdenum mineralization of sub-economic grades within the target area. Further drilling is not warranted.

LOCATION AND ACCESS

The Brenda mine site is situated 225 km east-northeast of Vancouver, B.C. and 22.5 km west of the Okanagan Valley in south central British Columbia. Access to the Brenda operation is by the Brenda Mine road, a distance of 28.5 km from Peachland on Okanagan Lake. The drill target is situated approximately 2 km NE of the Brenda mill. Access to the drill target is by mine service roads. Heavy duty equipment from the mine was utilized in preparing access in the drill target and leveling for drill sites, digging water sumps and keeping the road open during a period of heavy snow fall.

SUMMARY OF DIAMOND DRILLING

The drilling was carried out on a two ten-hour shift per day basis. The diamond drill holes ranged from 106.7 m (350 feet) to 134.5 m (441 feet) in length for a total 355 m (1165 feet) in 3 holes. NQ core and drilling mud were utilized in order to enhance core recovery. Recoveries ranging from 96.7% (DDH EX 8601) to 98.2% (DDH EX 8603) were achieved.

Whole-core samples based on a 3.05 m (10 feet) sample interval were submitted to Brenda Assay office for determinations of Cu, Mo, Pb, Fe and Ca. The analytical procedures are standard for Brenda Mine samples.

Drill casing was left in the ground at the request of Brenda Mines.

Holes have been surveyed by Brenda Mines.

GEOLOGY

The target area is underlain by porphyritic quartz diorite of the Jurassic Brenda stock (Carr, 1967, Unit 10). Chalcopyrite and molybdenite and minor associated pyrite occur mostly in hairline fractures in the target area. More substantial mineralization is associated with quartz veins ranging in width from 3-10 mm. The sulphides in the veins are frequently coarse and constitute a higher percentage of the total structure than in the case of hairline fractures. Narrow fracture mineralization (< 2 mm) also occurs in the Brenda deposit where, according to Soregaroli, 1974 they account for most of the fractures but only 5% of the total sulphide. The bulk of the sulphides in the Brenda deposit is controlled by quartz veins ranging from 6 mm to 13 mm in thickness (Soregaroli, 1974). The current drill target is conspicuous by its low frequency of quartz veins similar to those carrying the bulk of the Brenda sulphides. The best example of this type of vein mineralization encountered in the current drilling is the interval from 36.6 to 39.6 metres in DDH EX 8603. Low core angles in the section enhance the grade.

Alteration in the target area is generally weak, as at Brenda. Feldspars are typically hard to the knife blade indicating relatively fresh plagioclase. Also largely fresh are the mafic minerals which are biotite-dominant. Chlorite is practically ubiquitous in hairline fractures. K-spar vein selvages are well developed in margins of quartz veins. In hairline fractures K-spar is often intimately intergrown with chalcopyrite and molybdenite but discrete selvages are not obvious relative to these structures although etching and staining techniques would probably indicate otherwise. Molybdenite is also present in gouges and slips. In the case of gouge zones molybdenite, if present, comprises a small portion of the soft dark material. Typically molybdenite in this form occurs in close association with quartz which show signs of post-mineral disruption. The molybdenum grades tend to be sensitive to the number of gouge zones occurring in a given sample.

CONCLUSION

1. No copper or molybdenum mineralization of economic consequence was intersected in the Dam target.

2. The fracture system in the Dam target appears to be too tight to host Brenda style Cu-Mo ore.

3. The target has been conclusively tested and no further drilling is warranted.

REPORT BY:

Ragnar U. Bruaset

REFERENCES

Carr, J.M., 1967 The Geology of the Brenda Lake Area 1967 Lode Metals

Soregaroli, A.E., 1974 Geology of the Brenda Copper-Molybdenum Deposit in British Columbia. C.I.M. Bulletin for October.

APPENDIX I

STATEMENT OF QUALIFICATIONS

STATEMENT OF QUALIFICATIONS

I Ragnar U. Bruaset, resident of 5851 Halifax Street, Burnaby, B.C., do hereby certify that I have supervised the diamond drilling programme on the Bern #8 and Bern #17 mineral claims described in this report.

I also certify that:

1. I am a graduate of the University of B.C. with a degree of BSc in Geology, 1967 and a Fellow of the Geological Association of Canada.

2. That I have been involved in exploration geology since my graduation from U.B.C. which includes about 14 years of porphyry related experience.

Dated this 15 day of December, 1986

Ragnar U. Bruaset

Ragnar U. Bruaset

APPENDIX II

STATEMENT OF COSTS

APPENDIX II

STATEMENT OF COSTS

Drilling Contract Charges			$33,214.92
Fuel for Drill, Pump, Coil Heater	3800 litres @ $0.38/l		1,444.00
Drilling Miscellaneous			124.50
Surface Transportation			1,450.94
Domicile			508.06
Analytical Costs			2,700.00
Heavy Equipment	D9H with Ripper	33.5 hours @ $130/hr.	4,355.00
	Grader 14G	5.0 hours @ $ 73/hr.	365.00
	Excavator	3.0 hours @ $100/hr.	300.00
Supervision, Core Logging, Samling			3,750.00
Reporting Including Drafting, Typing			750.00
		TOTAL:	$48,962.42

Overall Cost/Foot 1165 feet $42.03/ft.
Cost/m 355 m $137.92/m

APPENDIX III

DIAMOND DRILL LOGS

NORANDA EXPLORATION COMPANY LTD.

Date Collared	Date Completed	Core Size	DIP TESTS				PROPERTY		PROJECT No.	N.T.S. No.
November 14/86	November 17/86	NQ with mud	DEPTH	BEARING RECORDED	BEARING CORRECTED	ACID ANGLE RECORDED	ACID ANGLE CORRECTED	BRENDA MINES DAM TARGET	NORTH BRENDA	82E/13
Relative to FIELD CO-ORDINATES 25E L28N								BRENDA MINE GRID SURVEYED CO-ORDINATES (IMPERIAL)		Sheet 1 of 9
Lat. 27+87N Ft.	Elev. No data	Dip -45°	414				-43°	Lat. 15184.06 Ft.	Elev. 5118.87 Ft.	Dip ----	HOLE No.
Dep. 26+16E Ft.	Length 441	Bearing 270°					See pg. 9 of 9	Dep. 16813.03 Ft.	Length	Bearing ----	DDHEX8601

1m = 3.28 ft From Feet	To Feet	96.7% Recovery Feet	Description	MINERALIZED FRACTURES # of M.F.	MINERALIZED FRACTURES C.A. of M.F.	ALTERATION Feld-spar	ALTERATION mafics	SAMPLE No.	Width	ASSAYS Mo	ASSAYS Pb	ASSAYS Cu
0	31		OVERBURDEN									
31	35	0	BEDROCK Triconed; no sample recovered			N/D	N/D					
35	40	4	PORPHYRITIC QUARTZ DIORITE = P.Q.D. Grey medium grained porphyritic biotite > hbl. quartz diorite. Rare mafic inclusions. Biotite well shaped 2-3 mm. No wedge shaped quartz. Typically weakly magnetic.	2	30,40	FF minor KSP VS	MF	9576J		0.007	0.005	0.037
40	50	8.5	P.Q.D.	7	(2)25,(2)30 (1)35,(1)55 (1)60	FF minor KSP VS	MF	9577J		0.009	0.005	0.080
50	60	10	P.Q.D. 50.5: Heavy moly in gouge zone @ 55° 59.0: 3 mm quartz veinlet. Barren.	7	(2)30,(2)40 (1)60,(1)65 (1)80	FF minor KSP VS	MF	9578J		0.009	0.009	0.036
60	70	10	P.Q.D 64.0: 1 cm X 2 cm mafic inclusion 65.0: Foliation @ 55°	14	(2)10,(2)30 (2)40,(1)50 (1)55,(4)60 (1)65,(1)70	FF minor KSP VS	MCl	9579J		0.002	0.002	0.045
70	80	10	P.Q.D. 72.0: Minor gouge zone @ 60°. No moly. 74.5: Moly slip @ 65°.	4	(1)0,(1)10 (1)55,(1)65	FF minor KSP VS	MCl	9580J		0.004	0.006	0.034

DRILL LOG - 81

Date November 15-17/86 Logged By R.U. Bruaset

NORANDA EXPLORATION COMPANY LTD.

Date Collared	Date Completed	Core Size	DIP TESTS				ACID	PROPERTY		PROJECT No.	N.T.S. No.
November 14/86	November 17/86	NQ with mud	DEPTH	BEARING RECORDED	BEARING CORRECTED	ANGLE RECORDED	ANGLE CORRECTED	BRENDA MINES DAM TARGET		NORTH BRENDA	82E/13
Relative to ~~25E L28N~~ FIELD CO-ORDINATES								BRENDA MINE GRID SURVEYED CO-ORDINATES (IMPERIAL)			Sheet 2 of 9
Lat. 27+87N Ft.	Elev No data	Dip -45°	414				-43°	Lat. 15184.06 Ft.	Elev. 5118.87 Ft.	Dip ----	HOLE No.
Dep. 26+16E Ft.	Length 441	Bearing 270°						Dep. 16813.03 Ft.	Length	Bearing ----	DDHEX8601

1m = 3.28 ft From Feet	To Feet	96.7% Recovery Feet	Description	MINERALIZED FRACTURES # of M.F.	MINERALIZED FRACTURES C.A. of M.F.	ALTERATION Feld-spar	ALTERATION mafics	SAMPLE No.	Width	ASSAYS Mo	ASSAYS Pb	ASSAYS Cu	
80	90	10	P.Q.D. 85.0-86.0: Aplitic dyke @ 65° cuts foliation. Barren 86.0: Foliation @ 40° 88.0: Minor gouge zone 2mm wide @ 60°	2	20,65	FF Minor KSP VS	MCl	9581J		0.002	<0.002 (0.001?)	0.010	
90	100	10	P.Q.D. Sparse Cpy along hairline fractures. 95.5-96.5: Bleaching, biotite altered to chlorite.	3	(2)30,(1)65	"	MF Epi	9582J		0.002	<0.001	0.027	
100	110	10	P.Q.D. A few 2-3mm wide quartz veins with relatively heavy Cp and minor moly. Also hairline fractures with traces of Cp.	9	(1)25,(1)50 (3)60,(1)65 (1)70,(1)75	FF	MF	9583J		0.004	<0.001	0.039	
			104.0: Mafic inclusion 2cm X 4cm										
110	120	10	P.Q.D. Cp in hairline tracts 111.5: Heavy moly in slip-heaviest moly so far in hole @ 50°. 112.0: Heavy moly in slip @ 60°	9	(1)25,(1)50 (1)60,(2)65 (1)70,(3)75	"	MF Epi	9584J		0.004	<0.001	0.033	
120	130	10	P.Q.D. Cp in tight fractures traces of moly. 121.0: 5mm of gouge in fault @ 60°. No moly. 128.5: 1cm X 2cm mafic inclusion	2	60,70	"	MF	9585J		0.002	0.005	0.041	
130	140	10	P.Q.D. 131.0: Moly slip @ 20°.. Minor moly. 132.0-134.5: Intense fracturing & minor gouge zones, occasional moly.	5	(1)15,(1)55 (2)60,(1)70	"	MF	9586J		0.030	0.033	0.049	
			139.5: Moly gouge in slip @ 70°.										

DRILL LOG - 81

Date November 15-17/86 Logged By R.U. Bruaset

NORANDA EXPLORATION COMPANY LTD.

Date Collared	Date Completed	Core Size	DIP TESTS ACID				PROPERTY		PROJECT No.	N.T.S. No.
November 14/86	November 17/86	NQ with mud					BRENDA MINES DAM TARGET		NORTH BRENDA	82E/13
Relative to FIELD CO-ORDINATES			DEPTH	BEARING		ANGLE	BRENDA MINE GRID SURVEYED CO-ORDINATES (IMPERIAL)			Sheet 3 of 9
				RECORDED	CORRECTED	RECORDED / CORRECTED				
Lat. 27+87N Ft.	Elev. No data	Dip -45°	414			-43°	Lat. 15184.06 Ft.	Elev. 5118.87 Ft.	Dip ----	HOLE No.
Dep. 26+16E Ft.	Length 441	Bearing 270°					Dep. 16813.03 Ft.	Length	Bearing ----	DDHEX8601

1m = 3.28 ft From Feet	To Feet	96.7% Recovery Feet	Description	MINERALIZED FRACTURES # of M.F.	MINERALIZED FRACTURES C.A. of M.F.	ALTERATION Feld-spar	ALTERATION mafics	SAMPLE No.	Width	ASSAYS Mo	ASSAYS Pb	ASSAYS Cu	
140	150	10	P.Q.D. 149.5: Minor gouge @ 55°. No moly. 150.0: Two fractures with heavy moly @ 50°,70°	7	(2)50,(2)60 (2)70,(1)75	FF	MF	9587J		0.011	0.039	0.075	
150	160	5 tube mis-locked	P.Q.D. 151.0: Moly slip @ 70° 152.0: Moly slip @ 15° 152.5-160.0: Heavy brass rub on the core from the bit; source of contamination.	4	(1)15,(2)55 (1)70	FF	MF	9588J		0.004	0.013	0.026	
160	170	8	P.Q.D. 160.0-161.5: Core missing, see 150.0-160.0. 168.5-170.0: Fault gouge @ 15°. No moly.	NIL	---	FF	MF	9589J		<0.001	0.011	0.028	
170	180	10	P.Q.D. 176.0-179.0: Massive black aphanitic dyke. Fresh. Lower contact core angle @ 40°. Dyke is unmineralized but has abundant chloritic fractures.	NIL	---	FF	MF	9590J		<0.001	0.014	0.021	
180	190	10	P.Q.D. Rare epidote filled fractures but no assoc. sulphides	6	(1)20,(1)55 (2)65,(1)70 (1)75	FF	MF Epi	9591J		0.001	0.004	0.020	
190	200	10	P.Q.D. Hairline fracture mineralization. 192.0-193.5: Two mafic inclusions 194.0: Very heavy moly in fracture @ 55°. Mo > Cp.	5	(1)25,(2)50 (1)55,(1)60	FF	MF	9592J		0.002	<0.001	0.028	

DRILL LOG - 81

Date November 15-17/86 Logged By R.U. Bruaset

NORANDA EXPLORATION COMPANY LTD.

Date Collared	Date Completed	Core Size	DIP TESTS				ACID	PROPERTY		PROJECT No.	N.T.S. No.
November 14/86	November 17/86	NQ with mud	DEPTH	BEARING RECORDED	BEARING CORRECTED	ANGLE RECORDED	ANGLE CORRECTED	BRENDA MINES	DAM TARGET	NORTH BRENDA	82E/13
Relative to ~~25E L28N~~ FIELD CO-ORDINATES								BRENDA MINE GRID	SURVEYED CO-ORDINATES (IMPERIAL)		Sheet 4 of 9
Lat. 27+87N Ft.	Elev. No data	Dip -45°	414				-43°	Lat. 15184.06 Ft.	Elev. 5118.87 Ft.	Dip ----	HOLE No. DDHEX8601
Dep. 26+16E Ft.	Length 441	Bearing 270°						Dep. 16813.03 Ft.	Length	Bearing ----	

From Feet	To Feet	96.7% Recovery Feet	Description	MINERALIZED FRACTURES # of M.F.	MINERALIZED FRACTURES C.A. of M.F.	ALTERATION Feldspar	ALTERATION mafics	SAMPLE No.	Width	ASSAYS Mo	ASSAYS Pb	ASSAYS Cu	
190	200 cont.		197.5: Unusually heavy Cp in 3 mm quartz vein.										
200	210	10	P.Q.D. 203.0: Epidote filled fracture @ 10° 207.0: 1 X 3cm mafic inclusion 209.0: Heavy epidote on fracture.	5	(1)0,(2)60 (1)70, (1)80	FF	MF & Epi	9593J		0.001	0.001	0.030	
210	220	10	P.Q.D. 212.5: 2mm mylonite zone. Heavy epidote 218.0: Moly in shear zone @ 20°. Kspar vein selvage	6	(1)20,(2)50 (3)60	FF KSP VS	MF	9594J		0.003	0.002	0.033	
220	230	10	P.Q.D.	9	(2)50,(1)55 (3)60,(2)65 (1)70	FF KSP VS	MF	9595J		<0.001	<0.001	0.019	
230	240	10	P.Q.D. Spotty Cp in tight veins & fracts. 238.0: Heavy Cp in fracture @ 45°. KsPar in fracture appears associated with mineralization.	11	(1)15,(1)20 (3)40,(1)45 (3)50,(2)60	FF	MF	9596J		0.001	0.001	0.035	
240	250	10	P.Q.D. 243.0: Mafic inclusion	5	(1)30,(1)45 (1)50,(1)60 (1)65	FF	MF	9597J		<0.001	0.001	0.009	
250	260	10	P.Q.D. 259.0: Epidote in fracture @ 20°. 259.5: Barren quartz vein @ 25°	4	(1)10,(1)50 (1)60,(1)65	FF	MF Epi	9598J		0.001	0.001	0.025	
260	270	10	P.Q.D. 260.0-263.0: Heavy Mo S_2 infracture @ 10°. Minor moly gouge. Occasional slickensided fractures. 263.0-270.0: Minor fracture controlled Cpy,Mo. Somewhat more mafic than typical P.Q.D.	3	(1)10,(1)15 (1)25	FF	MF	260-263: 9599J 263-270: 9600J		0.173 0.009	0.025 0.003	0.157 0.051	

DRILL LOG - 81

Date November 15-17/86 Logged By R.U. Bruaset

NORANDA EXPLORATION COMPANY LTD.

Date Collared	Date Completed	Core Size	DIP TESTS				PROPERTY		PROJECT No.	N.T.S. No.
November 14/86	November 17/86	NQ with mud	DEPTH	BEARING RECORDED	BEARING CORRECTED	ACID ANGLE RECORDED	ACID ANGLE CORRECTED	BRENDA MINES DAM TARGET	NORTH BRENDA	82E/13
Relative to FIELD CO-ORDINATES 25E L28N								BRENDA MINE GRID SURVEYED CO-ORDINATES (IMPERIAL)		Sheet 5 of 9
Lat. 27+87N Ft.	Elev. No data	Dip -45°	414				-43°	Lat. 15184.06 Ft.	Elev. 5118.87 Ft	Dip ----	HOLE No.
Dep. 26+16E Ft.	Length 441	Bearing 270°						Dep. 16813.03 Ft.	Length	Bearing ----	DDHEX8601

From Feet	To Feet	96.7% Recovery Feet	Description	MINERALIZED FRACTURES # of M.F.	MINERALIZED FRACTURES C.A. of M.F.	ALTERATION Feld-spar	ALTERATION mafics	SAMPLE No.	Width	ASSAYS Mo	ASSAYS Pb	ASSAYS Cu	
270	280	10	P.Q.D. More mafic than typical P.Q.D. As 263.0-270.0. 271.0: Barren quartz vein @ 30°. Local epidote. 278.0: Pyrite and chalcopyrite on fracture @ 80° 274.0: Pyrite > Cpy in fracture @ 30°.	2	30,70	F.S.	MCl Epi	9601J		0.001	0.020	0.039	
280	290	10	P.Q.D. 280.5: 5mm of gouge in fault @ 20° 282.0: Minor fault @ 20° with Cpy on fracture @ 20° 283.0: Mafic inclusion. 285.0: Minor fault gouge @ 20°. 287.5: Fault @ 40°	2	20	F.S.	MC Epi	9602J		<0.001	0.014	0.025	
290	300	10	P.Q.D. 292.5: Heavy Cpy in hairline fracture @ 60° 295.0: Fault gouge @ 70°	4	(1)50,(2)60 (1)80	F.S.	MCl	9603J		0.001	0.004	0.020	
300	310	10	P.Q.D. 301.5: Heavy moly infracture including Kspar selvage @ 70°. 307.0: Barren quartz vein @ 65°	7	(1)30,(1)40 (1)50,(1)55 (1)65,(2)70	FF KSP VS	MF	9604J		0.002	0.002	0.020	
310	320	10	P.Q.D. Minor Cpy and traces of molybdenite in hairline fractures.	4	(1)0,(1)30 (1)55,(1)60	FF KSP VS	MF	9605J		0.004	0.001	0.032	
320	330	10	P.Q.D. Cpy, trace Mo hairline fractures. 325.0: Gouge zone @ 25°. No MoS_2, 2mm of gouge.	3	(1)0,(1)25 (1)70	FF KSP VS	MF	9606J		0.002	0.002	0.025	

DRILL LOG - 81

Date November 15-17/86 Logged By R.U. Bruaset

NORANDA EXPLORATION COMPANY LTD.

Date Collared	Date Completed	Core Size	DIP TESTS				PROPERTY		PROJECT No.	N.T.S. No.
November 14/86	November 17/86	NQ with mud	ACID				BRENDA MINES DAM TARGET		NORTH BRENDA	82E/13
Relative to FIELD CO-ORDINATES 25E L28N			DEPTH	BEARING RECORDED	BEARING CORRECTED	ANGLE RECORDED	ANGLE CORRECTED	BRENDA MINE GRID SURVEYED CO-ORDINATES (IMPERIAL)		Sheet 6 of 9
Lat. 27+87N Ft.	Elev. No data	Dip -45°	414				-43°	Lat. 15184.06 Ft.	Elev. 5118.87 Ft.	Dip ----	HOLE No.
Dep 26+16E Ft.	Length 441	Bearing 270°						Dep. 16813.03 Ft.	Length	Bearing ----	DDHEX8601

From Feet	To Feet	96.7% Recovery Feet	Description	MINERALIZED FRACTURES # of M.F.	MINERALIZED FRACTURES C.A. of M.F.	ALTERATION Feld-spar	ALTERATION mafics	SAMPLE No.	Width	ASSAYS Mo	ASSAYS Pb	ASSAYS Cu	
330	340	10	P.Q.D. 331.0: Minor gouge zone @ 50°, 1mm gouge. 333.0: Gouge zone 3mm wide @ 60°. 332.5-333.0: Mafic inclusions (2). 334.0-337.0: Fairly heavy Cpy in fracture @ 0°. Locally epidote present but apparently not associated with the mineralization. 339.5-340.0: Quartz veinlet parallel to core with quite heavy Cpy.	7	(1)0,(1)20 (1)45,(1)65 (2)70,(1)35	FF KSP VS	MF	9607J		0.019	0.007	0.085	
340	350	10	P.Q.D. 340.0-341.5: Quartz veinlet parallel to core contains heavy Cpy. Many hairline fractures with Cpy and Mo.	14	(3)0,(1)10 (2)30,(1)50 (1)55,(5)60 (1)70	FF & KSP VS	MF	9608J		0.003	0.002	0.040	
350	360	10	P.Q.D. Cpy and traces of Mo in hairline fractures.	8	(1)0,(1)30 (1)50,(2)50 (1)60,(1)70 (1)75	FF & KSP VS	MF	9609J		0.001	0.001	0.024	
360	370	10	P.Q.D. Hairline fractures with Cpy and trace Mo 369.0: 4" wide aplitic dyke @ 65°	5	(1)55,(2)60 (1)65,(1)70	FF	MF	9610J		<0.001	0.001	0.021	
370	380	10	P.Q.D. 376.5-378.5: Fracture with heavy Cpy and Mo @ 5°. This fracture contains the bulk of copper mineralization in the section.	8	(2)0,(2)50 (2)60,(2)65	FF & KSP VS	MF	9611J		0.006	0.002	0.038	
380	390	10	P.Q.D. 381.0-383.5: Highly mineralized quartz vein 4mm wide contains Cpy, MoS_2 A 5° to core. Bulk of mineralization in the section occurs in this vein.	6	(2)55,(4)65	FF & KSP VS	MF	9612J		0.028	<0.001	0.060	

DRILL LOG - 81

Date November 15-17/86 Logged By R.U. Bruaset

NORANDA EXPLORATION COMPANY LTD.

Date Collared	Date Completed	Core Size	DIP TESTS		ACID		PROPERTY		PROJECT No.	N.T.S. No.
November 14/86	November 17/86	NQ with mud	DEPTH	BEARING RECORDED / CORRECTED	ANGLE RECORDED / CORRECTED		BRENDA MINES DAM TARGET		NORTH BRENDA	82E/13
Relative to FIELD CO-ORDINATES 25E L28N							BRENDA MINE GRID SURVEYED CO-ORDINATES (IMPERIAL)			Sheet 7 of 9
Lat. 27+87N Ft.	Elev. No data	Dip -45°	414			-43°	Lat. 15184.06 Ft.	Elev. 5118.87 Ft.	Dip ----	HOLE No.
Dep. 26+16E Ft.	Length 441	Bearing 270°					Dep. 16813.03 Ft.	Length	Bearing ----	DDHEX8601

From Feet	To Feet	96.7% Recovery Feet	Description	MINERALIZED FRACTURES # of M.F.	MINERALIZED FRACTURES C.A. of M.F.	ALTERATION Feld-spar	ALTERATION mafics	SAMPLE No.	Width	ASSAYS Mo	ASSAYS Pb	ASSAYS Cu
390	400	10	P.Q.D. Abundant hairline fractures with Cpy and Mo, occas. quartz stringers. 391.5: Gouge zone @ 60° 393.0: Gouge zone @ 25° (2mm of gouge)	12	(2)0,(3)5, (1)10,(1)20 (2)30,(1)55 (2)60	FF & KSP VS	MF minor Cl	9613J		0.001	0.002	0.041
400	410	10	P.Q.D. Overall Cpy in hairline fractures, most of mineralization on fractures @ 0,10° 400.5: Moly slip @ 25° 409.0: Mafic inclusion 2cm X 4cm.	9	(1)0,(3)10 (1)25,(1)35 (1)45,(1)65 (1)75	FF	MF	9614J		0.003	0.001	0.033
410	420	10	P.Q.D. 417.0: Kspar and epidote on fracture. No assoc. sulphide.	7	(1)10,(1)30 (1)40,(2)45 (1)55,(1)65	FF	MF	9615J		<0.001	<0.001	0.032
420	430	10	P.Q.D. 423.0: Trace pyrite in quartz vein, no other sulphide 423.0: Moly slip @ 45° 424.5-426.0: Quartz veinlet (2mm) with Cpy, MoS_2 @ 0-5° contains bulk of Cu, Mo in this section.	9	(1)0,(1)55 (1)30,(2)35 (1)45,(1)60 (1)65,(1)60	FF	MF	9616J		0.008	0.001	0.048
430	441	10	P.Q.D. Hairline fractures with Cpy and trace MoS_2 430.5: Fracture @ 65° with epidote and trace Cpy. 436.0: Moly slip @ 45°.	9	(1)0,(1)15 (1)20,(1)30 (1)35,(1)40 (1)55,(1)65	FF	MF	9617J		0.004	0.004	0.065
			441.0: Strong brass rub marks on core, said to indicate worn bit. Driller indicated need to change bit at this point.		(1)70							
END OF HOLE			CASING LEFT IN GROUND			FF	MF					

DRILL LOG - 81

Date November 15-17/86 Logged By R.U. Bruaset

NORANDA EXPLORATION COMPANY LTD.

Date Collared	Date Completed	Core Size	DIP TESTS	ACID				PROPERTY		PROJECT No.	N.T.S. No.
November 14/86	November 17/86	NQ with mud	DEPTH	BEARING		ANGLE		BRENDA MINES	DAM TARGET	NORTH BRENDA	82E/13
Relative to FIELD CO-ORDINATES				RECORDED	CORRECTED	RECORDED	CORRECTED	BRENDA MINE GRID	SURVEYED CO-ORDINATES (IMPERIAL)		Sheet 8 of 9
Lat. 27+87N Ft.	Elev. No data	Dip -45°	414				-43°	Lat. 15184.06 Ft.	Elev. 5118.87 Ft.	Dip ----	HOLE No.
Dep 26+16E Ft.	Length 441	Bearing 270°						Dep. 16813.03 Ft.	Length	Bearing ----	DDHEX8601

From Feet	To Feet	96.7% Recovery Feet	Description	MINERALIZED FRACTURES # of M.F.	MINERALIZED FRACTURES C.A. of M.F.	ALTERATION Feld-spar	ALTERATION mafics	SAMPLE No.	Width	ASSAYS Mo	ASSAYS Pb	ASSAYS Cu	ASSAYS
			CORE SPECIMANS COLLECTED:										
			At 48', 109', 188', 247', 292', 342', 411'.										
			CORE PHOTOGRAPHS: (2 photographs per group of 2 or 3 core boxes).										
			35 - 89 ft										
			89 - 143.5 ft										
			143.5 - 205 ft										
			205 - 261 ft										
			261 - 313 ft										
			313 - 370 ft										
			370 - 407 ft										
			407 - 441 ft										
			DEFINITIONS: On following page.										

DRILL LOG - 81

Date November 15-17/86 Logged By R.U. Bruaset

NORANDA EXPLORATION COMPANY LTD.

Date Collared	Date Completed	Core Size	DIP TESTS					PROPERTY		PROJECT No.	N.T.S. No.
FIELD CO-ORDINATES			DEPTH	BEARING RECORDED	BEARING CORRECTED	ANGLE RECORDED	ANGLE CORRECTED	BRENDA			Sheet 9 of 9
Lat.	Elev.	Dip						SURVEYED CO-ORDINATES			HOLE No.
Dep	Length	Bearing						Lat.	Elev.	Dip	DDHEX 8601
								Dep.	Length	Bearing	

From	To	Recovery	Description	Structure	% Sulph.	Est. Grade	SAMPLE No.	Width	ASSAYS			
			DEFINITIONS:									
			STRUCTURES:									
			No. of M.R. - Number of mineralized fractures equals the number of veins, fractures, etc. controlling chalcopyrite and/or molybdenite. A fracture containing chalcopyrite and/or molybdenite, either with associated pyrite is counted.									
			CA of M.F. - Core angle of mineralized fracture. Relative abundance of a given core angle not implied by the order in which core angles are listed.									
			ALTERATION:									
			F.F. - Feldspar generally fresh i.e. feldspar hard to knife-blade indicating little or no alteration of feldspar.									
			F.S. - Feldspar soft to knife.									
			KspV.S. - Kspar vein salvages.									
			M.F. - Mafics fresh									
			MCl - Chloritization of mafics									
			Epi - Epidote fracture(s)									

DRILL LOG - 81

Date _____ Logged By _____

NORANDA EXPLORATION COMPANY LTD.

Date Collared: November 18/86	Date Completed: November 20/86	Core Size: NQ with mud	DIP TESTS				PROPERTY: BRENDA MINES			PROJECT No.: NORTH BRENDA	N.T.S. No.: 82E/13	
Relative to: L28N 25E L28N 25E	FIELD CO-ORDINATES		DEPTH	BEARING RECORDED	BEARING CORRECTED	ANGLE RECORDED	ANGLE CORRECTED	BRENDA GRID	SURVEYED CO-ORDINATES			Sheet 1 of 8	
Lat.: 27 + 97N ft.	Elev.: N.D.	Dip: -45°						Lat.: 15184.34	Elev.: 5118.74	Dip	HOLE No.		
Dep.: 26 + 30E ft.	Length: 374	Bearing: 330°				SEE LAST PAGE FOR DEFINITIONS		Dep.: 16831.02	Length: ----	Bearing	DDHEX8602		

1m = 3.28 ft From FEET	To FEET	97% Recovery FEET	Description	MINERALIZED FRACTURES # of MF's	MINERALIZED FRACTURES C.A. of MF	ALTERATION Feld-spar	ALTERATION Mafic epidote	SAMPLE No.	Width	ASSAYS Mo%	ASSAYS Cu%		
0	11		OVERBURDEN										
11	14	0	BEDROCK Triconed, no sample recovered	N/D	N/D								
14	20	5.5	PORPHYRITIC QUARTZ DIORITE = P.Q.D. Grey, medium grain, prophyritic biotite > hornblende quartz diorite. Rare mafic inclusions. Biotite well shaped 2-3 mm. No wedge shaped quartz. Weakly magnetic.	8	(1)50,(3)60 (1)65,(3)70	FF & KSP VS	MF	9618J		0.001	0.061		
20	30	9.5	P.Q.D. Cp in quartz veins rare, mostly as hairline fracture fill. 275.: Moly slip @ 55°	11	(2)30,(2)40 (4)50,(1)60 (1)65,(1)70	FF & KSP VS	MF Epi	9619J		0.002	0.071		
30	40	9.5	P.Q.D. Cp in hairline fracutres. 32.0: Moly slip @ 65° with 2 mm of gouge 36.0: Heavy Mo & Cp in 5 mm quartz vein @ 65°	11	(2)30,(2)35 (1)40,(2)45 (1)55,(1)60 (2)65	FF & KSP VS	MF	9620J		0.010	0.085		
40	50	10	P.Q.D. 39.0-40.0: Fault zone with gouge @ 0° (2 mm) No Mo. 42.0-43.5: Minor oxidation 40.0-50.0: Cp mostly as hairline fracture fill.	12	(3)40,(2)50 (2)55,(1)60 (2)65,(2)70	FF & KSP VS	MF	9621J		0.001	0.041		
50	60	10	P.Q.D. Mostly hairline fractures 52.0: Mafic inclusion 53.0: 2 mm thick gouge zone @ 40° 57.0: Very heavy Mo in gouge zone @ 60°	10	(3)50,(2)60 (4)65,(1)75	FF except 53-57	MF except 53-71	9622J		0.002	0.056		

DRILL LOG - 81

Date November 9-20/86 Logged By R.U. Bruaset

NORANDA EXPLORATION COMPANY LTD.

Date Collared	Date Completed	Core Size	DIP TESTS					PROPERTY		PROJECT No.	N.T.S. No.
FIELD CO-ORDINATES			DEPTH	BEARING RECORDED	BEARING CORRECTED	ANGLE RECORDED	ANGLE CORRECTED	BRENDA MINES SURVEYED CO-ORDINATES			Sheet 2 of 8
Lat.	Elev	Dip						Lat.	Elev.	Dip	HOLE No.
Dep.	Length	Bearing						Dep.	Length	Bearing	DDHEX8602

From	To	Recovery	Description	MINERALIZED FRACTURES # of MF's	MINERALIZED FRACTURES C.A. of MF	ALTERATION Feld-spar	ALTERATION Mafics epidote	SAMPLE No.	Width	ASSAYS Mo%	ASSAYS Cu%		
60	70	10	P.Q.D. 61.0: Quartz vein 6 mm @ 65° with heavy Cp + minor Mo. Also some pyrite.	4	(1)55,(1)65 (2)70	FF	MF	9623J		0.003	0.043		
70	80	9.5	P.Q.D. 72.0-74.5: Major fault zone @ 55°. 1.5 cm of quartz incorporated in gouge has heavy moly. 75.0: Minor fault @ 20°	1	(1)30	F.S.	M.C.	9624J		0.018	0.060		
80	90	10	P.Q.D. 81.0: Moly slip @ 70°	4	(1)50,(1)55 (1)60,(1)65	FF	MF	9625J		0.005	0.016		
90	100	10	P.Q.D. Hairline fractures with Cp 95,99: Mafic inclusions (2) 103.0: Gouge zone @ 55°. No Moly. 106.0: Cp in quartz vein @ 3 mm @ 55-109.5. Heavy Cp, Mo.	4	(2)45,(2)65	FF	MF	9626J		0.001	0.023		
100	110	10	P.Q.D. 103.0: Gouge zone @ 55°. No moly. 106.0: Open quartz vein @ 3mm @ 55° 109.5: Heavy Cp & Mo	4	(1)15,(1)35 (2)45	FF	MF	9627J		0.004	0.047		
110	120	9.5	P.Q.D. 112.5-114.0: Fault @ 45°. Mostly gouge. No moly.	4	(1)35,(2)50 (1)55	FF KSP VS 100-114	MF + M.C. epi	9628J		0.006	0.013		
120	130	10	P.Q.D. 124.5: Moly slip @ 50° 126.0: Moly slip @ 75°	10	(2)30,(2)45 (1)50,(2)60 (2)65,(1)75	FF KSP VS	MF	9629J		0.007	0.051		

DRILL LOG - 81

Date December 9-20/86 Logged By R.U. Bruaset

NORANDA EXPLORATION COMPANY LTD.

Date Collared	Date Completed	Core Size	DIP TESTS					PROPERTY		PROJECT No.	N.T.S. No.
FIELD CO-ORDINATES			DEPTH	BEARING		ANGLE		BRENDA MINES			Sheet 3 of 8
				RECORDED	CORRECTED	RECORDED	CORRECTED	SURVEYED CO-ORDINATES			
Lat.	Elev	Dip						Lat.	Elev.	Dip	HOLE No.
Dep	Length	Bearing						Dep.	Length	Bearing	DDHEX8602

From	To	Recovery	Description	MINERALIZED FRACTURES # of MF's	MINERALIZED FRACTURES C.A. of MF	ALTERATION Feld-spar	ALTERATION mafics	SAMPLE No.	Width	ASSAYS Mo%	ASSAYS Cu%		
130	140	10	P.Q.D.	10	(1)25,(2)30 (1)40,(3)50 (2)60,(1)65	FF & KSP VS	MF	9630J		0.003	0.031		
140	150	10	P.Q.D. 142.5: Heavy molybdenite in quartz vein @ 45° 144.0: Very heavy Cp in hairline fracture @ 45° 148.0: Minor fault @ 10°. Gouge. No moly.	7	(1)20,(3)45 (1)50,(1)60 (1)65	FF & KSP VS	MF minor epi	9631J		0.011	0.053		
			149.5: Epidote in fracture.										
150	160	10	P.Q.D. 151.0: Very heavy Cp in fracture with assoc. euhedral pyrite. No moly. 152.6: Heavy moly & assoc. Cp	11	(1)10,(1)15 (1)30,(3)50 (2)55,(1)60 (2)65	FF & KSP VS	MF	9632J		0.017	0.041		
160	170	10	P.Q.D. 164.0-166.0: Heavy epidote in fracutre without assoc. sulphide. 167.0: Mafic inclusion 1 cm X 1 cm	9	(2)30,(1)35 (1)40,(1)55 (2)60,(1)65 (1)75	FF & KSP VS	MF epi	9633J		0.004	0.033		
170	180	10	P.Q.D. 174.0: Very heavy moly in fracture with assoc. epidote. 179.5: Fault zone with gouge @ 55°. No moly.	8	(1)20,(1)50 (5)60,(1)70	FF & KSP VS	MF epi	9634J		0.009	0.025		
180	190	10	P.Q.D. Sparse Cp in hairline fractures. 185.0: A few crystals of euhedral pyrite on epidote fracture.	4	(1)50,(1)55 (1)65,(1)70	FF	MF & 183-186 epi	9635J		0.006	0.055		
			186.0: 2 mm of gouge on fracture @ 60°. Heavy epidote in fractures.										

DRILL LOG - 81

Date November 9-20/86 Logged By R.U. Bruaset

NORANDA EXPLORATION COMPANY LTD.

Date Collared	Date Completed	Core Size	DIP TESTS					PROPERTY		PROJECT No.	N.T.S. No.
FIELD CO-ORDINATES			DEPTH	BEARING RECORDED	BEARING CORRECTED	ANGLE RECORDED	ANGLE CORRECTED	BRENDA MINES			Sheet 4 of 8
								SURVEYED CO-ORDINATES			
Lat.	Elev	Dip						Lat.	Elev.	Dip	HOLE No.
Dep	Length	Bearing						Dep.	Length	Bearing	DDHEX8602

From	To	Recovery	Description	MINERALIZED FRACTURES # of MF's	MINERALIZED FRACTURES C.A. of MF	ALTERATION Feldspar	ALTERATION mafics	SAMPLE No.	Width	ASSAYS Mo%	ASSAYS Cu%		
190	200	10	P.Q.D. Extensive epidote development on fractures	7	(1)15,(1)20 (2)60,(2)65 (1)80	FF & KSP VS	MC epi	9636J		0.004	0.042		
200	210	10	P.Q.D. 208.0-209.0: Fault, hematitic gouge @ 10° 200-210: Extensive epidote development on fractures.	4	(1)55,(2)55 (1)60	FF & KSP VS	MC + epi	9637J		0.006	0.037		
210	220	9.5	P.Q.D. Trace of Cp in quartz veinlets. 210.0-211.6: Fault zone. Minor gouge but intensely broken core.	3	(1)10,(1)50 (1)55	FF & KSP VS	MC + epi	9638J		0.010	0.020		
			218.0: Moly slip @ 50° - this is all of the moly seen in this section.										
220	230	7.5	APLITE DYKE Traces of dissem. pyrite The Aplite is pink, sugary textured. Fault upper contact @ 50° plus 6 inches of gouge. The core is extremely intensely shattered. Very blocky - short runs.	NIL	----	FF	MC	9639J		0.002	0.001		
230	240	8	APLITE DYKE & P.Q.D. Dykes 220.0-230.0. 236.0 is end of dyke. Traces of moly on 2 hairline fractures.	3	(1)45,(1)50 (1)60	FF	MC	9640J		0.036	< 0.001		
240	250	9.5	P.Q.D. 240.0-240.5: Fault with gouge on fracture @ 55° (2 cm of gouge) 240.0-250.0: Hematitic fractures.	1	(1)45	FF	MC	9641J		0.030	0.021		
			240.5: Traces dissem. moly. 241.0: Fault @ 50°. Slickensides. 242.0: Fault @ 30° 244.0: Fault @ 35°										

DRILL LOG - 81

Date November 9-20/86 Logged By R.U. Bruaset

NORANDA EXPLORATION COMPANY LTD.

Date Collared	Date Completed	Core Size	DIP TESTS					PROPERTY BRENDA MINES		PROJECT No.	N.T.S. No.
FIELD CO-ORDINATES			DEPTH	BEARING RECORDED	BEARING CORRECTED	ANGLE RECORDED	ANGLE CORRECTED	SURVEYED CO-ORDINATES			Sheet 5 of 8
Lat	Elev.	Dip						Lat.	Elev.	Dip	HOLE No. DDHEX8602
Dep.	Length	Bearing						Dep.	Length	Bearing	

From	To	Recovery	Description	MINERALIZED FRACTURES # of MF's	MINERALIZED FRACTURES C.A. of MF	ALTERATION Feld-spar	ALTERATION mafics	SAMPLE No.	Width	ASSAYS Mo%	ASSAYS Cu%		
250	260	10	P.Q.D. 251.0: Fault @ 30° - minor gouge. Epidote is the dominant alteration.	1	(1)80	FF	MC epi	9642J		0.002	0.022		
260	270	10	P.Q.D. 263.0: Heavy pyrite in a fracture - no Cp or moly assoc. 264.5: Slickensided fracture @ 15°	2	(1)55,(1)60	FF	MC epi	9643J		0.002	0.020		
			268.0: Slickensided surface @ 0°										
270	280	10	P.Q.D. 270.5: Traces of euhedral pyrite in fracture @ 50° 275.0: Fault @ 30° 275.0: A single bleb of Cp in 5 mm quartz appearing to cut epidote alteration.	3	(2)10,(1)50	FF	MC epi	9644J		0.003	0.010		
280	290	10	P.Q.D. 281.0: Pyrite in fracture trace Cp. 285.0: Cp & pyrite in fracutre. Strongest copper seen in a while.	6	(4)10,(1)25 (1)40	FF	MF	9645J		0.007	0.052		
			286.0: 1 mm of gouge in fault @ 55°. 287.0: Minor euhedral pyrite in fracture @ 25°										
290	300	10	P.Q.D.	5	(1)10,(1)30 (1)45,(1)50 (1)55	FF	MF epi	9646J		0.002	0.037		

DRILL LOG - 81

Date November 9-20/86 Logged By R.U. Bruaset

NORANDA EXPLORATION COMPANY LTD.

Date Collared	Date Completed	Core Size	DIP TESTS					PROPERTY		PROJECT No.	N.T.S. No.
FIELD CO-ORDINATES			DEPTH	BEARING RECORDED	BEARING CORRECTED	ANGLE RECORDED	ANGLE CORRECTED	BRENDA MINES			Sheet 6 of 8
Lat.	Elev.	Dip						SURVEYED CO-ORDINATES			HOLE No.
Dep.	Length	Bearing						Lat.	Elev.	Dip	DDHEX8602
								Dep.	Length	Bearing	

From	To	Recovery	Description	MINERALIZED FRACTURES # of MF's	MINERALIZED FRACTURES C.A. OF MF	ALTERATION Feldspar	ALTERATION mafics	SAMPLE No.	Width	ASSAYS Mo%	ASSAYS Cu%		
300	310	10	P.Q.D. 300.0: Heavy pyrite on fracture @ 30°. Assoc. chalcopyrite. 303.0: Minor fault @ 75°. Gouge. Epidote is the most prominant alteration. 305.0: Minor fault @ 30°	6	(2)30,(1)45 (2)50,(1)70	FF	MF epi	9647J		0.001	0.039		
310	320	10	P.Q.D. 311.5-312.0: 2 barron quartz veins @ 3 mm. 317.0: Minor fault @ 30°. 1 mm of gouge. 318.0: Very heavy Cp in quartz vein @ 20°. 2-3m wide. 318.0: Fault @ 25°.	6	(2)20,(1)30 (1)50,(2)60	FF	MF to MC epi	9648J		< 0.001	0.049		
320	330	10	323.5: Fault - strong shearing @ 10°. Traces of moly in fracture. 325.0-326.0: Fault @ 25°. Gouge & slickensides. 327.0: Euhedral pyrite in fracutre.	1	( )25	FF	MF MC	9649J		0.015	0.022		
330	340	10	P.Q.D. 330.0-340.0: Trace moly in hairline fractures. 332.0: Fault @ 20°. Gouge 333.5: Moly slip @ 0° in section of broken core. 335.0-339.0: Heavy pink feldspar in section of abundant minor faults.	3	(1)0°,(1)30 (1)60	ND	ND	9650J		0.011	0.060		
340	350	10	341.0: Minor fault @ 50° Gouge 343.0: Minor fault @ 10°. Gouge. 348.0: Moly slip @ 40°	6	(1)25,(1)30 (2)40,(1)55 (1)65	FF	MF	9651J		0.004	0.039		

DRILL LOG - 81

Date November 9-20/86 Logged By R.U. Bruaset

NORANDA EXPLORATION COMPANY LTD.

Date Collared	Date Completed	Core Size	DIP TESTS					PROPERTY		PROJECT No.	N.T.S. No.
FIELD CO-ORDINATES			DEPTH	BEARING		ANGLE		BRENDA MINES			Sheet 7 of 8
				RECORDED	CORRECTED	RECORDED	CORRECTED	SURVEYED CO-ORDINATES			
Lat.	Elev	Dip						Lat.	Elev.	Dip	HOLE No.
Dep.	Length	Bearing						Dep.	Length	Bearing	DDHEX8602

From	To	Recovery	Description	MINERALIZED FRACTURES # of MF's	MINERALIZED FRACTURES C.A. of MF	ALTERATION Feldspar	ALTERATION mafics	SAMPLE No.	Width	ASSAYS Mo%	ASSAYS Cu%		
350	360	10	P.Q.D. 353.0: Moly slip @ 40° 354.0: Moly slip @ 40° 359.5: Fault - Slickensided fracture @ 55°.	10	(1)10,(1)30 (2)40,(1)50 (2)60,(2)70 (1)80	FF	MF to MC	0652J		0.006	0.043		
360	374	14	P.Q.D. 360.0-361.0: Fault with minor gouge on fracture @ 20°. 362.0: Mafic inclusion 1 cm X 5 cm.	5	(1)50,(1)55, (2)60,(1)70	FF	MF to MC	9653J		0.006	0.035		
			365.0: Fault @ 5°. Slickensided fracture & minor gouge.										
END			367.0: Heavy moly in quartz vein @ 2 mm @ 70° 367.0-369.0: Fault with heavy pink Kspar. 370.0-371.0: Strong pink Kspar development.										
			372.0: Minor mylonite in fract @ 55°.										
			CORE PHOTOGRAPHS: 14 - 71 ft 181 - 234 ft 342 - 374 ft 71 - 127.5 ft 234 - 288 ft 127.5--181.0 ft 288 - 342 ft										
			CORE SPECIMEN: 60' 117', 159', 168', 203', 228', 245'.										

DRILL LOG - 81

Date _____ Logged By R.U. BRUASET

NORANDA EXPLORATION COMPANY LTD.

Date Collared	Date Completed	Core Size	DIP TESTS					PROPERTY		PROJECT No.	N.T.S. No.
FIELD CO-ORDINATES			DEPTH	BEARING		ANGLE		BRENDA			Sheet 8 of 8
				RECORDED	CORRECTED	RECORDED	CORRECTED	SURVEYED CO-ORDINATES			
Lat	Elev	Dip						Lat.	Elev.	Dip	HOLE No.
Dep	Length	Bearing						Dep.	Length	Bearing	DDHEX 8602

From	To	Recovery	Description	Structure	% Sulph.	Est. Grade	SAMPLE No.	Width	ASSAYS			
			DEFINITIONS:									
			STRUCTURES:									
			No. of M.R. - Number of mineralized fractures equals the number of veins, fractures, etc. controlling chalcopyrite and/or molybdenite. A fracture containing chalcopyrite and/or molybdenite, either with associated pyrite is counted.									
			CA of M.F. - Core angle of mineralized fracture. Relative abundance of a given core angle not implied by the order in which core angles are listed.									
			ALTERATION:									
			F.F. - Feldspar generally fresh i.e. feldspar hard to knife-blade indicating little or no alteration of feldspar.									
			F.S. - Feldspar soft to knife.									
			KspV.S. - Kspar vein salvages.									
			M.F. - Mafics fresh									
			MCl - Chloritization of mafics									
			Epi - Epidote fracture(s)									

DRILL LOG - 81

Date _____ Logged By _____

NORANDA EXPLORATION COMPANY LTD.

Date Collared	Date Completed	Core Size	DIP TESTS (ACID)				PROPERTY		PROJECT No.	N.T.S. No.
Nov. 20, 1986	Nov. 23, 1986	NQ + mud	DEPTH	BEARING RECORDED	BEARING CORRECTED	ANGLE RECORDED	ANGLE CORRECTED	BRENDA DAM TARGET	NORTH BRENDA	82E/13
Relative to FIELD CO-ORDINATES 32N 26E								BRENDA GRID SURVEYED CO-ORDINATES (IMPERIAL)		Sheet 1 of 8
Lat 31+44N	Elev N/D	Dip -45°	350'				-43°	Lat. 15388.86	Elev. 5197.22	Dip	HOLE No. DDHEX 8603
Dep 26+79E	Length 350 ft	Bearing 150°				See Pg. 8 of 8 for definitions.		Dep. 17048.28	Length	Bearing	

From	To	98.2% Recovery	Description	STRUCTURE # of MF's	STRUCTURE C.A. of MF	ALTERATION Feld spar	ALTERATION Mafics epidote	SAMPLE No.	Width	ASSAYS Mo%	ASSAYS Cu%		
			Except for core specimens listed on page 7 of 8, the entire core used as sample.										
0	16		OVERBURDEN										
16	18	0	BEDROCK Triconed; no sample recovered										
18	30	9.5	PORPHYRITIC QUARTZ DIORITE Grey, medium grain porphyritic, biotite less than hornblende quartz diorite. Rare mafic inclusions Biotite well shaped 2-3 mm. No wedge shared quartz. Cpy typically in hairline fractures + Mo, Mo in fault gouge.	1	30	FF	MF	9654J		< 0.001	0.007		
30	40	8.5	P.Q.D. orangy-brown limonite on fractures (transported gossan). 33 ft 1cm X 4 cm mafic inclusion 34.5 foliation @ 70°.	nil		FF	MF	9655J		< 0.001	0.004		
40	50	9	P.Q.D. trace Cpy in hairline fracture. Gossan as 30-40 ft. No indication of leaching. 51.5 ft 4 X 5 cm mafic inclusion. 53.5 Minor fault @ 20° 2 mm of gouge .	1	40	FF	MF	9656J		< 0.001	0.005		
50	60	9.5	P.Q.D. Trace Cpy, moly. Limonite as 30 - 40 ft	3	(1)5, (1)25 (1)60	FF	MF	9657J		< 0.001	0.027		
60	70	10	P.Q.D. 67 Minor fault @ 40°. 2 mm of gouge 68.5 ft is the end of the limonite.	3	(2)40 (1)70	FF	MF	9658J		0.002	0.041		

DRILL LOG - 81

Date NOV. 20-23, 1986 Logged By R.U. BRUASET

NORANDA EXPLORATION COMPANY LTD.

Date Collared	Date Completed	Core Size	DIP TESTS					PROPERTY		PROJECT No.	N.T.S. No.
FIELD CO-ORDINATES			DEPTH	BEARING RECORDED	BEARING CORRECTED	ANGLE RECORDED	ANGLE CORRECTED	BRENDA SURVEYED CO-ORDINATES			Sheet 2 of 8
Lat.	Elev.	Dip						Lat.	Elev.	Dip	HOLE No.
Dep.	Length	Bearing						Dep.	Length	Bearing	DDHEX 8603

From	To	Recovery	Description	Structure	% Sulph.	Est. Grade	SAMPLE No.	Width	ASSAYS Mo%	ASSAYS Cu%		
70	80	10	P.Q.D. More Cpy & Moly as fracture density inereases. Occas. moly in gouge zones. 72.0: Minor fault indicated by gouge @ 40°. No moly	7 (1)30,(2)35, (1)40,(1)45, (2)60	FF	MF	9659J		0.004	0.031		
			77.0: Foliation @ 50°									
80	90	10	P.Q.D. Trace Cpy in hairline fractures. 89.5-90.0: Mafics altered to chlorite. 84.5-85.5: Heavy epidote in fractures.	2 10,25	FF	MF epi-locally	9660J		< 0.001	0.009		
90	100	10	P.Q.D. 90.0-90.75: Fault @ 65° with 4" of gouge and local moly incorporated quartz vein material. 94.5: Minor gouge on fractures @ 10°. No moly.	4 (1)0,(1)10, (1)30,(1)65,	FF	MF to chl	9661J		0.011	0.036		
			100.0: Minor fault @ 0° with 1 mm gouge. No moly.									
100	110	10	P.Q.D. 102.5-104.0: Very heavy moly in fault @ 10° (One of heaviest moss seen so far in these holes.	6 (2)10,(1)15, (2)25,(1)30	FF	MF to Chl.	9662J		0.014	0.053		
			105.0: Fault @ 15°, 2mm of gouge without moly. 109.0: Mafic inclusion									
110	120	10	P.Q.D. Several well mineralized quartz veins (to 10 mm wide). 113.0: Well mineralized quartz vein @ 20°. 7 mm wide with Cpy and moly blebs. Kspar vein selvages,	4 (1)20,(2)25, (1)50	FF	MF	9663J		0.009	0.053		

DRILL LOG - 81

Date _____ Logged By _____

NORANDA EXPLORATION COMPANY LTD.

Date Collared	Date Completed	Core Size	DIP TESTS					PROPERTY BRENDA		PROJECT No.	N.T.S. No.
FIELD CO-ORDINATES			DEPTH	BEARING RECORDED	BEARING CORRECTED	ANGLE RECORDED	ANGLE CORRECTED	SURVEYED CO-ORDINATES			Sheet 3 of 8
Lat.	Elev.	Dip						Lat.	Elev.	Dip	HOLE No.
Dep	Length	Bearing						Dep.	Length	Bearing	DDHEX 8603

From	To	Recovery	Description	Structure	% Sulph.	Est. Grade	SAMPLE No.	Width	ASSAYS Mo%	ASSAYS Cu%		
			well developed. Sulphides concentrated in vein margins.									
120	130	10	P.Q.D. In section 110-120 also veins at 116 ft @ 50° (10 mm wide, trace Cpy + Mo), 118 ft @ 25° (6 mm wide with heavy Cpy). 123.5 (1 cm quartz vein @ 20°), heavy Cpy. Most Cpy in any vein in this drilling to date. This section relatively well mineralized due to Cpy occurring in Qtz veins principally. This style of mineralization is strikingly similar to Brenda. Poor core angles.	4 (1)0,(1)20, (1)40(1)50	FF KSP VS	MF	9664J		0.030	0.160		
130	140	10	P.Q.D. 126.5-127.5 in section above: Quartz vein @ 0-5° with blebs of Cpy & moly. Vein 5 mm wide well above average grade. Poor core angle. 139.0 Heavy Cpy in 5mm quartz vein @ 40°.	9 (1)15,(1)30, (3)40,(3)50, (1)60	FF KSP VS	MF	9665J		0.008	0.141		
140	150	10	P.Q.D. 145 ft minor fault @ 30° 148.5-150: Heavy epidote in fractures.	10 (1)10,(5)30, (1)40,(2)50 (1)55	FF	MF epi	9666J		0.004	0.077		
150	160	10	P.Q.D. & APLITE DYKE as 220-236 ft in DDHEX 8602 150-155 epidote in fractures with heavy 153-154 (30% epi) 155 upper contact of dyke is fault @ 60°. 3" of gouge without moly.	1 35	FF	MF epi	9667J		0.002	0.030		
			155-156 is aplite dyke. Generally with transported orangy-brown gossan on fractures. No moly seen. Very strongly fragmented and very blocky.									
160	170	10	P.Q.D. & APLITE 160-161: Aplite dyke. Core angle of lower contact, perhaps 60° to core (very broken). Little or no alteration of dyke. No moss noted on fractures in	2 30,35	FF	MF minor epi	9668J		0.006	0.026		

DRILL LOG - 81

Date _____ Logged By _____

NORANDA EXPLORATION COMPANY LTD.

Date Collared	Date Completed	Core Size	DIP TESTS					PROPERTY		PROJECT No.	N.T.S. No.
FIELD CO-ORDINATES			DEPTH	BEARING		ANGLE		BRENDA SURVEYED CO-ORDINATES			Sheet 4 of 8
				RECORDED	CORRECTED	RECORDED	CORRECTED				
Lat	Elev.	Dip						Lat.	Elev.	Dip	HOLE No.
Dep.	Length	Bearing						Dep.	Length	Bearing	ddhex 86-3

From	To	Recovery	Description	Structure	% Sulph.	Est. Grade	SAMPLE No.	Width	ASSAYS Mo%	ASSAYS Cu%		
			this dyke intersection.									
170	180	10	P.Q.D. 170-173: Pink Kspar abundant as bands or selvages relative to unmineralized fractures. Heavy epidote in fractures locally.	1 35	FF	MF	9669J		0.009	0.030		
			178.5: Minor fault @ 60° 2 mm of gouge.									
180	190	10	P.Q.D. 182.5-183: Fault @ ? 2 inches of black gouge containing probably heavy moly. 188: Epidote in fractures.	6 (1)35,(1)40, (1)45,(1)50, (1)55,(1)60	FF	MF minor epi	9670J		0.004	0.046		
190	200	10	P.Q.D. 191.5: Heavy moly in fractures @ 60° with assoc. pyrite. 198-198.5 Aplitic dyke material which has caved	4 (2)20,(1)50, (1)60	FF	MF minor epi	9671J		0.005	0.043		
			from 155-161 above.									
200	210	10	P.Q.D. Relatively abundant hairline fractures with Cpy + Mo. No crosscutting fractures apparent and surprising.	7 (1)15,(2)20 (1)25,(2)50, (1)55	FF	MF	9672J		0.001	0.033		
210	220	10	P.Q.D. As 200-210 and no crosscutting fractures.	10 (1)10,(2)15 (1)25,(1)30 (2)35,(2)50 (1)60	FF	MF minor epi	9673J		0.001	0.043		

DRILL LOG - 81

Date _____ Logged By _____

NORANDA EXPLORATION COMPANY LTD.

Date Collared	Date Completed	Core Size	DIP TESTS					PROPERTY		PROJECT No.	N.T.S. No.
FIELD CO-ORDINATES			DEPTH	BEARING RECORDED	BEARING CORRECTED	ANGLE RECORDED	ANGLE CORRECTED	BRENDA SURVEYED CO-ORDINATES			Sheet 5 of 8
Lat.	Elev	Dip						Lat.	Elev.	Dip	HOLE No.
Dep	Length	Bearing						Dep.	Length	Bearing	DDHEX 8603

From	To	Recovery	Description	Structure	% Sulph.	Est. Grade	SAMPLE No.	Width	ASSAYS Mo%	ASSAYS Cu%		
220	230	10	P.Q.D. 225.5, 226.5: Mafic inclusions 2 X 4 cm & 2 X 2 cm, respectively. 227.5: Heavy Cpy in 3 mm wide quartz vein @ 30°.	5 (1)25, (1)30, (1)50, (1)60 (1)35	FF	MF	9674J		<0.001	0.032		
230	240	10	P.Q.D. 229-239.5: Drill-rounded dyke fragments from caving of 155-161 above. 231: Heavy moly in quartz vein fragment in broken drill core. No indication of faulting. No assoicated chalcopyrite. 235: 1 cm wide quartz vein @ 30° in the heavy Cpy. About 15% of total sulphide is pyrite. No moly.	6 (1)10, (1)15, (2)20, (1)30, (1)60	FF	MF	9675J		0.022	0.065		
240	250	10	P.Q.D. 247: Unmineralized epidote filled fracture with Kspar selvage @ 20.	8 (1)35, (3)40, (1)45, (2)50, (1)55	FF KSPAR VS	MF	9676J		0.004	0.032		
250	260	10	P.Q.D. 250: Epidote fracture @ 45° contains minor Cpy 252: Epidote fracture @ 35° contains heavy Cpy, minor pyrite and moly.	11 (1)25, (2)30, (1)35, (1)40, (2)45, (4)50	FF KSPAR VS	MF EPI COMMON	9677J		0.001	0.031		
260	270	10	P.Q.D. 265: Excellent example of pink feldspar (probably (Kspar) selvage relative to mineralized fracture (Cpy)	10 (1)15, (4)20, (3)30, (2)40	FF KSPAR VS	MF	9678J		0.001	0.038		
270	280	10	P.Q.D. 273-274: Quartz vein with epidote, hematite and minor moly @ 70°. 277-278: Very broken core with moly strip @ 35°.	5 (2)35, (1)40, (1)65, (1)70	FF		9679J		0.005	0.053		
280	290	10	P.Q.D. 287-288: Heavy Cpy in 7 mm wide quartz vein.	7 (2)25, (1)30, (2)55, (2)60	FF KSPAR VS	MF	9680J		0.001	0.067		

DRILL LOG - 81

Date _____ Logged By _____

NORANDA EXPLORATION COMPANY LTD.

Date Collared	Date Completed	Core Size	DIP TESTS					PROPERTY BRENDA		PROJECT No.	N.T.S. No.
FIELD CO-ORDINATES			DEPTH	BEARING RECORDED	BEARING CORRECTED	ANGLE RECORDED	ANGLE CORRECTED	SURVEYED CO-ORDINATES			Sheet 6 of 8
Lat.	Elev.	Dip						Lat.	Elev.	Dip	HOLE No.
Dep	Length	Bearing						Dep.	Length	Bearing	DDHEX 8603

From	To	Recovery	Description	Structure	% Sulph.	Est. Grade	SAMPLE No.	Width	ASSAYS Mo%	ASSAYS Cu%		
290	300	9.5	P.Q.D. 298-299: Heavy Cpy in 6mm quartz vein @ 30°.	4 (2)30,(1)35, (1)55	FF KASPAR VS	MF	9681J		0.003	0.051		
300	310	10	P.Q.D. 302: Mafic inclusion 2 X 4 cm.	7 (1)15,(1)20 (3)30,(1)50 (1)65	FF KASPAR VS	MF	9682J		0.003	0.038		
310	320	10	P.Q.D. 311: Mafic inclusion 3 X 4 cm.	16 (3)20,(2)30 (1)40,(7)50 (3)60	FF KASPAR VS	MF	9683J		0.002	0.052		
320	330	10	P.Q.D.	6 (4)30 (2)50	FF KASPAR VS	MF minor epi	9684J		0.001	0.048		
330	340	10	P.Q.D. 332: Minor fault @ 10° with slickensides 339: Minor fault @ 65°, 2 mm of gouge and no moly. 332-340: Chloritic mafics.	5 (1)35,(2)55, (1)60,(1)80	FF	minor chl	9685J		0.002	0.037		
340	350	10	P.Q.D. Abundant hairline tracts with Cpy. 341.5: Minor fault @ 35°. No moly. 344: Minor fault @ 30°	9 (1)5,(1)30, (2)35,(1)45, (1)50,(1)50, (1)55,(1)60,	FF	MF + chl	9686J		0.009	0.051		
			344.5 , 350: Moly slips @ 65° and 50°, respectively 340 - 345: Mafics, altered to chlorite.	(1)65								
END OF HOLE			CASING LEFT IN GROUND									

DRILL LOG - 81

Date _____ Logged By _____

NORANDA EXPLORATION COMPANY LTD.

Date Collared	Date Completed	Core Size	DIP TESTS					PROPERTY		PROJECT No.	N.T.S. No.
FIELD CO-ORDINATES			DEPTH	BEARING RECORDED	BEARING CORRECTED	ANGLE RECORDED	ANGLE CORRECTED	BRENDA SURVEYED CO-ORDINATES			Sheet 7 of 8
Lat.	Elev	Dip						Lat.	Elev.	Dip	HOLE No.
Dep.	Length	Bearing						Dep.	Length	Bearing	DDHEX 8603

From	To	Recovery	Description	Structure	% Sulph.	Est. Grade	SAMPLE No.	Width	ASSAYS			
			CORE RECOVERY - 98.2%									
			CORE SPECIMENS COLLECTED AT 26.5 ft, 110, 159, 245, 259, 308									
			CORE PHOTOGRAPHS - 2 photographs per group of 2 to 3 core boxes.									
			18.0 - 76.5 ft 76.5 - 130.0 130.0 - 184.0 184.0 - 240.0 240.0 - 295.0 295.0 - 350.0									

DRILL LOG - 81

Date _____ Logged By _____

NORANDA EXPLORATION COMPANY LTD.

Date Collared	Date Completed	Core Size	DIP TESTS					PROPERTY		PROJECT No.	N.T.S. No.
FIELD CO-ORDINATES			DEPTH	BEARING RECORDED	BEARING CORRECTED	ANGLE RECORDED	ANGLE CORRECTED	BRENDA SURVEYED CO-ORDINATES			Sheet 8 of 8
Lat.	Elev	Dip						Lat.	Elev.	Dip	HOLE No.
Dep	Length	Bearing						Dep.	Length	Bearing	DDHEX 8603

From	To	Recovery	Description	Structure	% Sulph.	Est. Grade	SAMPLE No.	Width	ASSAYS			
			DEFINITIONS:									
			STRUCTURES:									
			No. of M.R. - Number of mineralized fractures equals the number of veins, fractures, etc. controlling chalcopyrite and/or molybdenite. A fracture containing chalcopyrite and/or molybdenite, either with associated pyrite is counted.									
			CA of M.F. - Core angle of mineralized fracture. Relative abundance of a given core angle not implied by the order in which core angles are listed.									
			ALTERATION:									
			F.F. - Feldspar generally fresh i.e. feldspar hard to knife-blade indicating little or no alteration of feldspar.									
			F.S. - Feldspar soft to knife.									
			KspV.S. - Kspar vein salvages.									
			M.F. - Mafics fresh									
			MCl - Chloritization of mafics									
			Epi - Epidote fracture(s)									

DRILL LOG - 81

Date _____ Logged By _____

APPENDIX IV

ANALYTICAL DATA Cu, Mo, Pb, Fe, Ca

BRENDA MINES LTD
ASSAY LAB REPORT
APPENDIX IV

NOVEMBER 21 1986

DIAMOND DRILLS BRENDA EX 8601

1m = 3.28 feet

SAMPLE	FOOTAGES	%Mo	%Pb	%Cu	%Fe	%Ca
9576 J	35-40	Ø.ØØ7	Ø.ØØ5	Ø.Ø37	2.Ø5	1.98
9577 J		Ø.ØØ9	Ø.ØØ5	Ø.Ø8Ø	2.Ø2	2.16
9578 J		Ø.ØØ9	Ø.ØØ9	Ø.Ø36	2.Ø1	1.94
9579 J		Ø.ØØ2	Ø.ØØ2	Ø.Ø45	1.96	2.Ø3
9580 J		Ø.ØØ4	Ø.ØØ6	Ø.Ø34	2.Ø7	1.81
9581 J		Ø.ØØ2	<.ØØ2	Ø.Ø1Ø	1.87	1.88
9582 J		Ø.ØØ2	<.ØØ1	Ø.Ø27	2.11	1.88
9583 J		Ø.ØØ4	<.ØØ1	Ø.Ø39	2.12	2.26
9584 J	110-120	Ø.ØØ4	<.ØØ1	Ø.Ø33	2.Ø1	2.Ø5
9585 J		Ø.ØØ2	Ø.ØØ5	Ø.Ø41	2.Ø6	1.81
9586 J		Ø.Ø3Ø	Ø.Ø33	Ø.Ø49	1.75	1.Ø9
9587 J		Ø.Ø11	Ø.Ø39	Ø.Ø75	2.13	1.25
9588 J		Ø.ØØ4	Ø.Ø13	Ø.Ø26	1.88	1.52
9589 J		<.ØØ1	Ø.Ø11	Ø.Ø28	2.42	1.5Ø
9590 J		<.ØØ1	Ø.Ø14	Ø.Ø21	2.85	1.64
9591 J		Ø.ØØ1	Ø.ØØ4	Ø.Ø2Ø	1.95	2.17
9592 J		Ø.ØØ2	<.ØØ1	Ø.Ø28	1.98	2.2Ø
9593 J		Ø.ØØ1	Ø.ØØ1	Ø.Ø3Ø	2.Ø2	2.15
9594 J		Ø.ØØ3	Ø.ØØ2	Ø.Ø33	2.1Ø	2.24
9595 J	220-230	<.ØØ1	Ø.ØØ1	Ø.Ø19	2.Ø7	2.14

D PERKINS
CHIEF CHEMIST

BRENDA MINES LTD
ASSAY LAB REPORT

NOVEMBER 21 1986

DIAMOND DRILLS--BRENDA EX 8601

SAMPLE		FOOTAGES	%Mo	%Pb	%Cu	%Fe	%Ca
9596	J	230-240	Ø.ØØ1	<.ØØ1	Ø.Ø35	1.9Ø	2.19
9597	J		<.ØØ1	Ø.ØØ1	Ø.ØØ9	2.13	2.19
9598	J	250-260	Ø.ØØ1	Ø.ØØ1	Ø.Ø25	2.Ø7	2.Ø3
9599	J	260-263	Ø.173	Ø.Ø25	Ø.157	2.46	1.26
96ØØ	J	263-270	Ø.ØØ9	Ø.ØØ3	Ø.Ø51	2.2Ø	1.72
96Ø1	J		Ø.ØØ1	Ø.Ø2Ø	Ø.Ø39	2.Ø4	1.52
96Ø2	J		<.ØØ1	Ø.Ø14	Ø.Ø25	2.21	1.58
96Ø3	J		Ø.ØØ1	Ø.ØØ4	Ø.Ø2Ø	2.14	1.75
96Ø4	J		Ø.ØØ2	Ø.ØØ2	Ø.Ø2Ø	2.Ø9	1.92
96Ø5	J		Ø.ØØ4	Ø.ØØ1	Ø.Ø32	2.2Ø	1.81
96Ø6	J		Ø.ØØ2	Ø.ØØ2	Ø.Ø25	2.19	1.96
96Ø7	J	330-340	Ø.Ø19	Ø.ØØ7	Ø.Ø85	2.2Ø	1.84
96Ø8	J		Ø.ØØ3	Ø.ØØ2	Ø.Ø4Ø	2.22	2.23
96Ø9	J		Ø.ØØ1	Ø.ØØ1	Ø.Ø24	2.21	2.26
961Ø	J		<.ØØ1	Ø.ØØ1	Ø.Ø21	2.14	2.19
9611	J		Ø.ØØ6	Ø.ØØ2	Ø.Ø38	2.12	2.22
9612	J		Ø.Ø28	<.ØØ1	Ø.Ø6Ø	2.22	2.27
9613	J		Ø.ØØ1	Ø.ØØ2	Ø.Ø41	2.35	2.44
9614	J		Ø.ØØ3	Ø.ØØ1	Ø.Ø33	2.32	2.29
9615	J		<.ØØ1	<.ØØ1	Ø.Ø32	2.2Ø	2.19
9616	J		Ø.ØØ8	Ø.ØØ1	Ø.Ø48	2.32	2.32
9617	J	430-441	Ø.ØØ4	Ø.ØØ4	Ø.Ø65	2.25	2.Ø6

D PERKINS
CHIEF CHEMIST

BRENDA MINES LTD
ASSAY LAB REPORT

NOVEMBER 24 1986

DIAMOND DRILLS BRENDA DDH EX8602

SAMPLE	FOOTAGES	%Mo	%Pb	%Cu	%Fe	%Ca
9618 J	14-20	Ø.ØØ1	Ø.ØØ4	Ø.Ø61	1.96	2.Ø6
9619 J		Ø.ØØ2	Ø.ØØ1	Ø.Ø71	1.98	2.Ø8
9620 J		Ø.Ø1Ø	Ø.ØØ5	Ø.Ø85	2.15	1.86
9621 J		Ø.ØØ1	Ø.ØØ2	Ø.Ø41	2.Ø3	2.Ø5
9622 J		Ø.ØØ2	Ø.ØØ3	Ø.Ø56	2.Ø7	1.75
9623 J		Ø.ØØ3	Ø.Ø24	Ø.Ø43	1.94	1.76
9624 J		Ø.Ø18	Ø.Ø45	Ø.Ø6Ø	3.52	1.Ø9
9625 J		Ø.ØØ5	Ø.Ø12	Ø.Ø16	2.19	1.61
9626 J	90-100	Ø.ØØ1	Ø.ØØ4	Ø.Ø23	2.14	2.Ø3
9627 J		Ø.ØØ4	Ø.ØØ3	Ø.Ø47	2.Ø9	2.19
9628 J		Ø.ØØ6	<.ØØ1	Ø.Ø13	2.22	2.46
9629 J		Ø.ØØ7	Ø.ØØ1	Ø.Ø51	1.91	2.Ø2
9630 J		Ø.ØØ3	Ø.ØØ1	Ø.Ø31	2.13	2.21
9631 J		Ø.Ø11	Ø.ØØ2	Ø.Ø53	1.94	1.84
9632 J		Ø.Ø17	<.ØØ1	Ø.Ø41	2.ØØ	2.1Ø
9633 J		Ø.ØØ4	<.ØØ1	Ø.Ø33	1.92	2.Ø1
9634 J	170-180	Ø.ØØ9	Ø.ØØ1	Ø.Ø25	2.Ø3	2.39

D PERKINS
CHIEF CHEMIST

BRENDA MINES LTD
ASSAY LAB REPORT

NOVEMBER 25 1986

DIAMOND DRILLS BRENDA DDH EX86Ø2

SAMPLE	FOOTAGES	%Mo	%Pb	%Cu	%Fe	%Ca
9635 J	180-190	Ø.ØØ6	<.ØØ1	Ø.Ø55	2.15	2.4Ø
9636 J		Ø.ØØ4	<.ØØ1	Ø.Ø42	2.2Ø	2.55
9637 J		Ø.ØØ6	<.ØØ1	Ø.Ø3?	2.18	2.65
9638 J		Ø.Ø1Ø	Ø.Ø1?	Ø.Ø2Ø	2.45	2.39
9639 J		Ø.ØØ2	Ø.Ø11	Ø.ØØ1	Ø.64	Ø.32
9640 J		Ø.Ø36	Ø.Ø18	<.ØØ1	2.1Ø	Ø.29
9641 J		Ø.Ø3Ø	Ø.Ø57	Ø.Ø21	3.2	Ø.97
9642 J	250-260	Ø.ØØ2	Ø.ØØ4	Ø.Ø22	2.84	3.32
9643 J		Ø.ØØ2	<.Ø?1	Ø.Ø2Ø	2.3Ø	2.45
9644 J		Ø.ØØ?	<.ØØ1	Ø.Ø1Ø	2.23	2.23
9645 J		Ø.ØØ7	<.ØØ1	Ø.Ø52	2.16	2.52
9646 J		Ø.ØØ2	<.ØØ1	Ø.Ø37	2.47	2.77
9647 J		Ø.ØØ1	<.ØØ1	Ø.Ø39	2.45	2.57
9648 J		<.ØØ1	<.ØØ1	Ø.Ø49	2.38	2.46
9649 J	320-330	Ø.Ø15	<.ØØ1	Ø.Ø22	2.8Ø	3.38

Ø PERKINS
CHIEF CHEMIST

BRENDA MINES LTD
ASSAY LAB REPORT

NOVEMBER 28 1986

DIAMOND DRILLS BRENDA DDH EX8603

SAMPLE	FOOTAGES	%Mo	%Pb	%Cu	%Fe	%Ca
9668 J	160-170	0.006	<.001	0.026	1.97	2.10
9669 J		0.009	<.001	0.030	2.02	2.21
9670 J		0.004	<.001	0.046	2.14	2.30
9671 J		0.005	<.001	0.043	1.99	2.21
9672 J		0.001	<.001	0.033	1.95	2.17
9673 J		0.001	<.001	0.043	2.09	2.22
9674 J		<.001	<.001	0.032	1.99	2.27
9675 J		0.022	<.001	0.065	2.10	2.12
9676 J	240-250	0.004	0.002	0.032	2.02	2.19
9677 J		0.001	<.001	0.031	1.95	2.17
9678 J		0.001	<.001	0.038	2.05	2.23
9679 J		0.005	0.001	0.053	2.04	1.87
9680 J		0.001	0.001	0.067	2.04	2.14
9681 J		0.003	<.001	0.051	2.10	2.02
9682 J		0.003	<.001	0.038	2.00	2.21
9683 J		0.002	<.001	0.052	2.06	2.11
9684 J		0.001	<.001	0.048	2.14	2.19
9685 J		0.002	0.001	0.037	2.09	1.86
9686 J	340-350	0.009	<.001	0.051	2.17	2.07

D PERKINS
CHIEF CHEMIST

BRENDA MINES DIAMOND DRILL PREPARATION CHECKS

Date: DECEMBER 1, 1986 FILE NAME: DD-PCHK.REP

SAMPLE		%Mo	%Pb	%Cu	%Fe	%Ca
9576J	Lab	.007	.005	.037	2.05	1.98
9576J	Reject	.008	.009	.042	1.97	1.96
9577J	Lab	.009	.005	.080	2.02	2.16
9577J	Reject	.009	.004	.082	1.99	2.12
9578J	Lab	.009	.009	.036	2.01	1.94
9578J	Reject	.010	.014	.043	1.96	1.92
9579J	Lab	.002	.002	.045	1.96	2.03
9579J	Reject	.002	.002	.046	1.97	2.03
9580J	Lab	.004	.006	.034	2.07	1.81
9580J	Reject	.003	.006	.034	2.06	1.82
9587J	Lab	.011	.039	.075	2.13	1.25
9587J	Reject	.010	.036	.074	1.94	1.27
9605J	Lab	.004	.001	.032	2.20	1.81
9605J	Reject	.005	.002	.034	2.08	2.18
9612J	Lab	.028	<.001	.060	2.22	2.27
9612J	Reject	.029	.001	.052	2.21	2.27
9615J	Lab	.001	.001	.032	2.20	2.19
9615J	Reject	<.001	<.001	.034	1.94	1.82
9620J	Lab	.010	.005	.085	2.15	1.86
9620J	Reject	.009	.004	.081	2.03	1.88
9632J	Lab	.017	<.001	.041	2.00	2.10
9632J	Reject	.015	<.001	.045	2.09	2.15
9639J	Lab	.002	.011	.001	0.64	0.32
9639J	Reject	.003	.015	.002	0.68	0.34
9647J	Lab	.001	<.001	.039	2.45	2.57
9647J	Reject	.002	<.001	.038	2.46	2.53
9650J	Lab	.011	.001	.060	2.36	2.58
9650J	Reject	.011	.001	.054	2.30	2.59
9660J	Lab	<.001	<.001	.009	2.10	2.47
9660J	Reject	<.001	<.001	.008	2.06	2.47
9671J	Lab	.005	<.001	.043	1.99	2.21
9671J	Reject	.005	<.001	.038	2.02	2.18
9682J	Lab	.003	<.001	.038	2.00	2.21
9682J	Reject	.004	<.001	.038	2.08	2.20

NOVEMBER 20, 1986

DIAMOND DRILL PREPARATION

Primary Crush
Through Denver Crusher

|

2 Pans

|

Oven Dry

|

Secondary Crush
Through Atlas
No Screen First Pass

|

Tertiary Crush
Through Atlas with +10 Mesh Screen

|

Crush +10 Mesh Fraction
Requires 3 passes through crusher
To enable all sample to pass 10 mesh

|

Riffle Mix x6

LEFT PAN

Riffle Split
To 4 oz Jar
P.G. 3 Min.
(Ensure pot is clean,
scoure if necessary)

Assay using
Pellet Technique
Transfer sample to a bag
with a number and lab marked
on it.

RIGHT PAN

Reject
Transfer sample
to bag with
sample number and
reject marked on it.

D. Perkins
Chief Chemist

File: DRILLPRE.REP

November 27, 1986

TO: R. Bruset - Noranda Exploration

FROM: D. Perkins - Brenda Mines

SUBJECT: BRENDA NORTH PROJECT

SAMPLE PREPARATION AND ANALYSIS OF DIAMOND DRILL CORE SAMPLE PREPARATION

SAMPLE PREPARATION:

Preparation of the Drill Core was carried out according to the attached schematic. It is necessary to crush Brenda material to -10 mesh to enable a representative analytical sample to be cut from the main bulk of the material.

ANALYSIS:

Samples were briquetted and analysed on a philips PW1410 X-ray spectrograph for molybdenum, copper, lead, iron, and calcium. This unit is standardized against samples previously run by atomic absorption procedures.

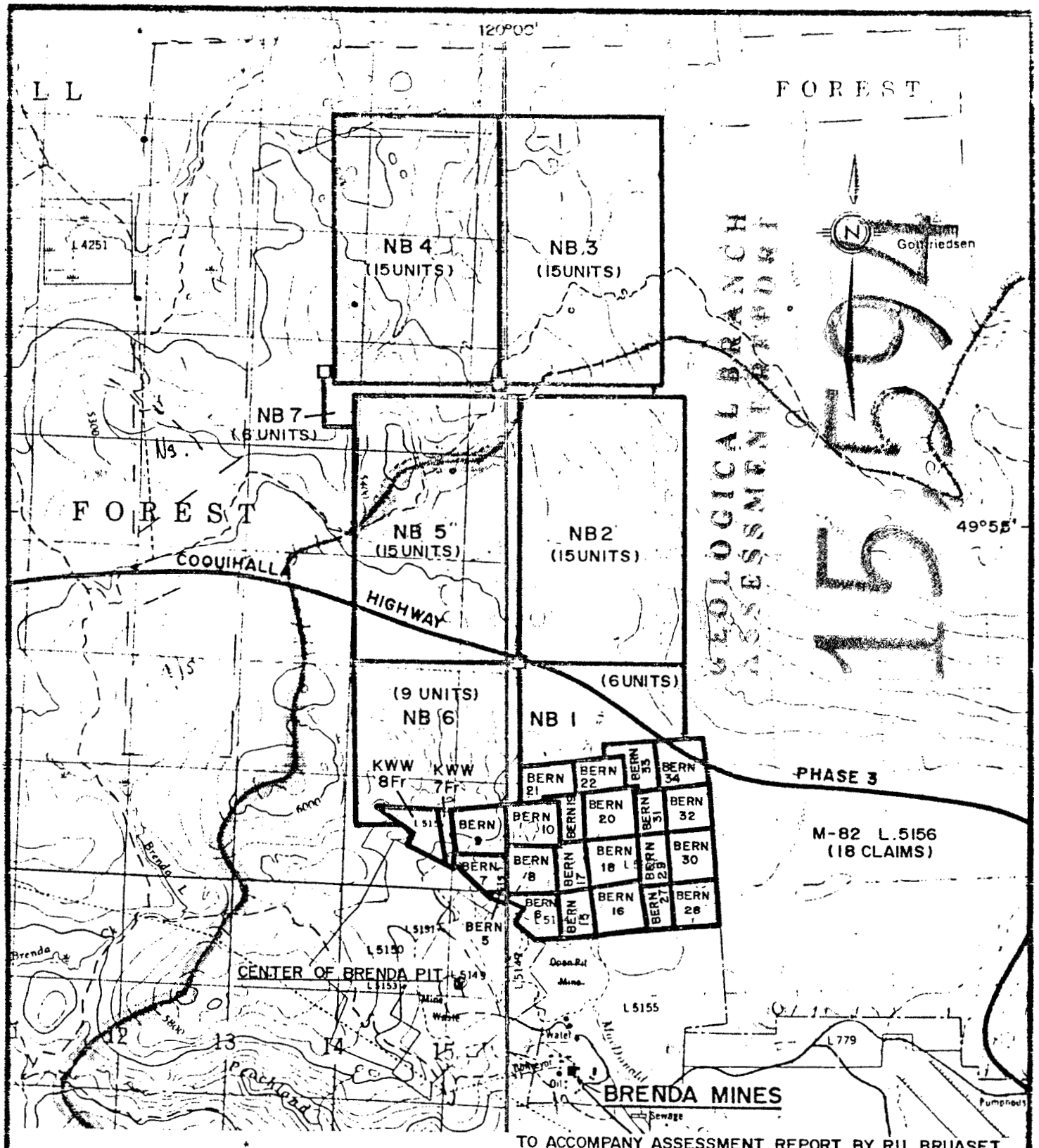
CHECK ANALYSIS:

Reject samples were selected at random and reanalysed by X-ray analysis as a check on preparation procedures.

Random samples were checked by atomic absorption procedures.

D. Perkins
Chief Chemist

DP:cs
encl.



TO ACCOMPANY ASSESSMENT REPORT BY R.U. BRUASET

1:50,000

1000 500 0 1000 2000 Metres

□ LCP Legal Corner Post

REVISED	BRENDA MINES
	DIAMOND DRILLING
	LOCATION MAP
PROJ. No.	SURVEY BY: R.U. Bruaset DATE: NOV./86
N.T.S.	DRAWN BY: J. Serwin SCALE: 1:50,000
DWG. No.	NORANDA EXPLORATION
	OFFICE: VANCOUVER

GL-774

NCR 781

120°00'

N

GEORGE LAKE

BERN # 10 M.C.

BERN # 19 M.C.

M

L 20E

L 32N

L 28N

L 24N

21E 22E 23E 24E 25E 28E 31E 33E 35E 37E

22E 24E 28E

21E 24E

DDH EX 8603

DDH EX 8602

DDH EX 8601

Water Hole

Lake Creek

Long Lake Creek Dam

Pipe Line

DAM TARGET

Ditch

Water Hole

Natural Creek

Natural Creek Dam

BERN # 8 M.C.

BERN # 17 M.C.

"M" not Found

DIVERSION DITCH

GRID (FEET)

49°53'N

15,000 N

15,000 E MINE GRID

BRENDA PIT

120°00'

LEGEND

- Diamond Drill Hole
- M Metal Survey Pin
- Old IP and Geochem. Line, Known, Assumed
- Dam
- Road

GEOLOGICAL BRANCH
ASSESSMENT REPORT

15,594

49°53'N

SCALE
1:2500

Metres 50 25 0 50 100 150 200 250 Metres

To Accompany Assessment Report by R.U. Bruaset

REVISED
PROJ No North Brenda
NTS 82E/13
DWG No

BRENDA MINES

PLAN OF DDH EX 8601-03

SURVEY BY R.U. Bruaset
DRAWN BY J. Serwin
DATE Nov. 30, 1986
SCALE 1:2500

NORANDA EXPLORATION

OFFICE VANCOUVER