

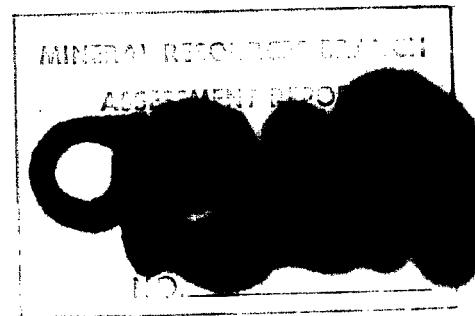
NEWMONT EXPLORATION OF CANADA LIMITED

DRILLING REPORT

STERLING CLAIMS

N.T.S. 82 M/8 W

REVELSTOKE MINING DIVISION



By

Dennis M. Bohme

July 10, 1981

LOCATION: 50 km north of Revelstoke, B. C.
Latitude 51° 23' Longitude 81° 25'

CLAIMS OWNED BY: CJC Exploration Limited

WORK DONE BY: Newmont Exploration of Canada Limited

WORK DONE BETWEEN: April 20 - June 19, 1981

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INTRODUCTION

The purpose of this assessment report is to present the data and the geological interpretation of the surface diamond drill program on the Sterling claims located within the Revelstoke Mining Division of southeastern British Columbia. The claims are owned by CJC Exploration Limited and were explored by a joint venture between Esso Resources Limited and Newmont Exploration of Canada Limited. Newmont was the operator. The property was explored for its molybdenum potential.

Seven BQ diameter drill holes totalling 656.2 m were drilled between April 22 and May 12, 1981. In addition, three NQ diameter drill holes totalling 771.1 m were drilled between May 20 and June 16, 1981. Overall, ten diamond drill holes are being reported on, totalling 1427.3 m (see Fig. 2, page 5).

The first seven holes were drilled with water only and no major drilling difficulties were encountered. The remaining three holes were drilled either entirely or partially with mud additives. Some drilling difficulties, associated with wide graphite-rich fault zones, were encountered.

Drill hole collars were surveyed by transit and stadia tied into a Dept. of Highways bench mark located near the legal corner post of Sterling 1, 2, 3, 4. Coordinate points of drill hole collars, as seen on the front page of log sheets for each hole, refer to legal corner post as origin. Elevations are in metres above sea level.

The core is stored at the residence of John and Lee Campbell in Revelstoke, B.C. Most of the core was split and analyses were performed by Acme Labs in Vancouver.

In the lab, all samples were subjected to digestion by aqua regia, with determination for Cu, Mo, Pb, Zn, Ag and tungsten by inductively coupled argon plasma (ICP). A few gold analyses were determined by atomic absorption spectrophotometer. Some well mineralized samples were run as assays rather than geochemical analyses.

PROPERTY DESCRIPTION

The claims covered by this report are recorded in the Revelstoke Mining Division. Details follow:

<u>Claim</u>	<u>No. of Units</u>	<u>Record Date</u>	<u>Record No.</u>
Sterling No. 1	18	August 15/80	1016
Sterling No. 2	12	August 15/80	1017
Sterling No. 3	6	August 15/80	1018
Sterling No. 4	16	August 15/80	1019
Sterling No. 5	2	August 15/80	1020
Sterling No. 6	6	August 15/80	1021

LOCATION AND ACCESS

The Sterling claims are located along Highway 23 on the east side of the Columbia River, 50 km north of Revelstoke in southeastern British Columbia (see Fig. 1, page 3). Logging roads make all areas of the property quite accessible.

TOPOGRAPHY

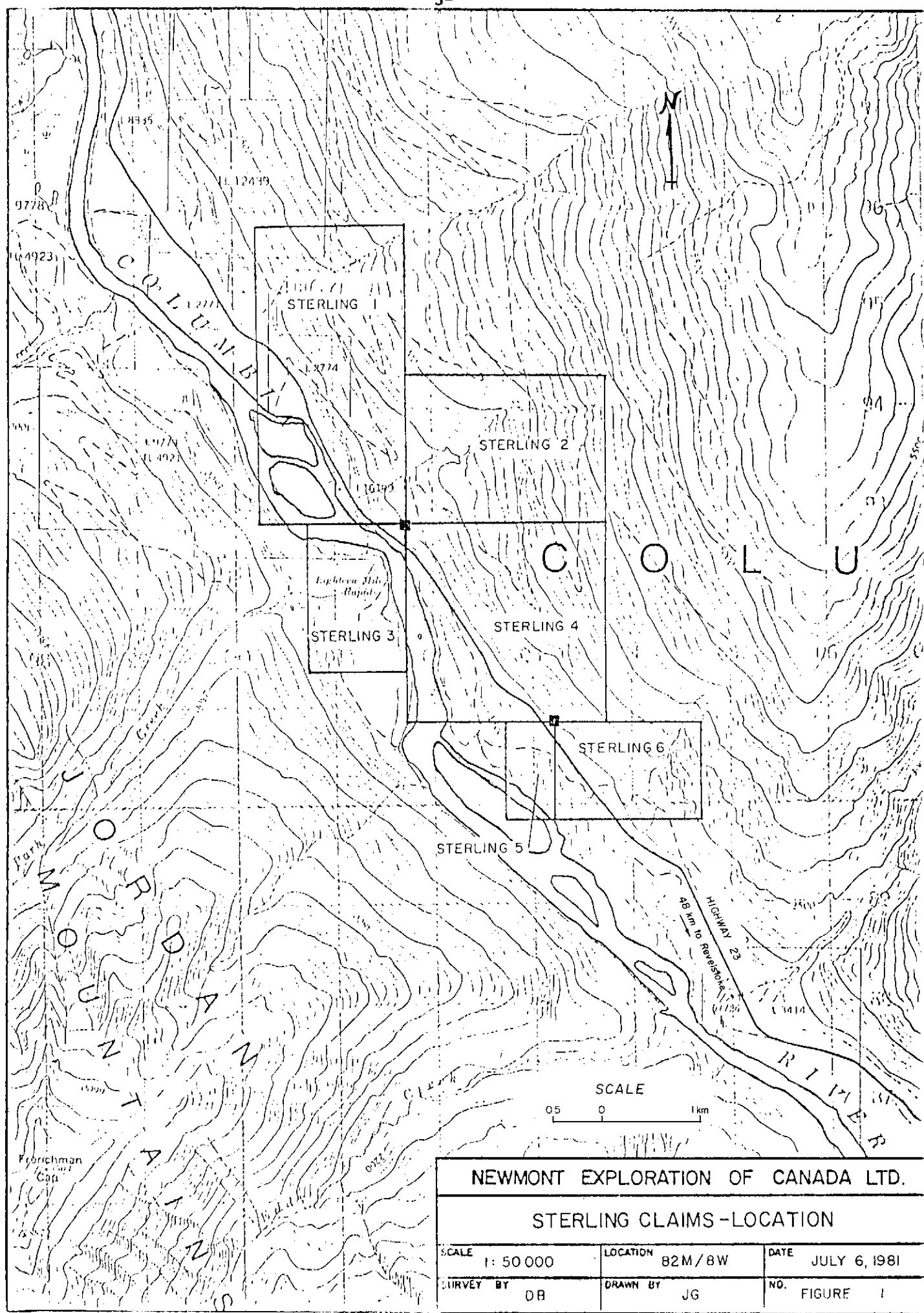
Most of the area was logged off about 10 years ago and is now overgrown by fireweed. The topography slopes moderately to the west and is well drained. Elevations vary from 480 m (1575') at the river to 1128 m (3700') on the east property boundary. Two creeks, about 800 m apart are known locally as "Galena" and "Cabin" creeks.

Overburden thickness varies from 2 m to 20 m and is composed of glacial till, sandy silt and alluvium.

The Revelstoke Dam Project will cause flooding of the Columbia River Valley to the 573 metres level. For this reason Highway 23 is currently being reconstructed at the 610 metres level. Construction of the new highway on the Sterling claims has provided some excellent new rock exposure.

HISTORY

The property goes back to the late 1800's when it was known as the "Sterling" and "Hardpan". In the early 1900's, two open cuts and three short adits were driven along several lead-silver showings but also revealed some interesting molybdenite values. A detailed description of the workings can be found in the B.C. Department of Mines, Bulletin No. 9, "Molybdenum Deposits of B.C." by J. A. Stevenson, 1940. Since 1960 the property has been explored by several companies, primarily for its molybdenum potential.



Scurry-Rainbow Oil Company carried out magnetic and electro-magnetic surveys in 1966. Some anomalies were discovered and an attempt was made to test these by diamond drilling. Of the three holes drilled, none reached their depth objective due to drilling difficulties.

The property was optioned in 1967 by Nisson Mining and Development Limited who carried out a soil sampling program, bulldozed trenching and a magnetic survey. Five or six diamond drill holes, totalling 612.3 m (2009'), were drilled in 1971 but their locations and logs are not available to us. It was reported that "visibly encouraging intersections of molybdenite were encountered."

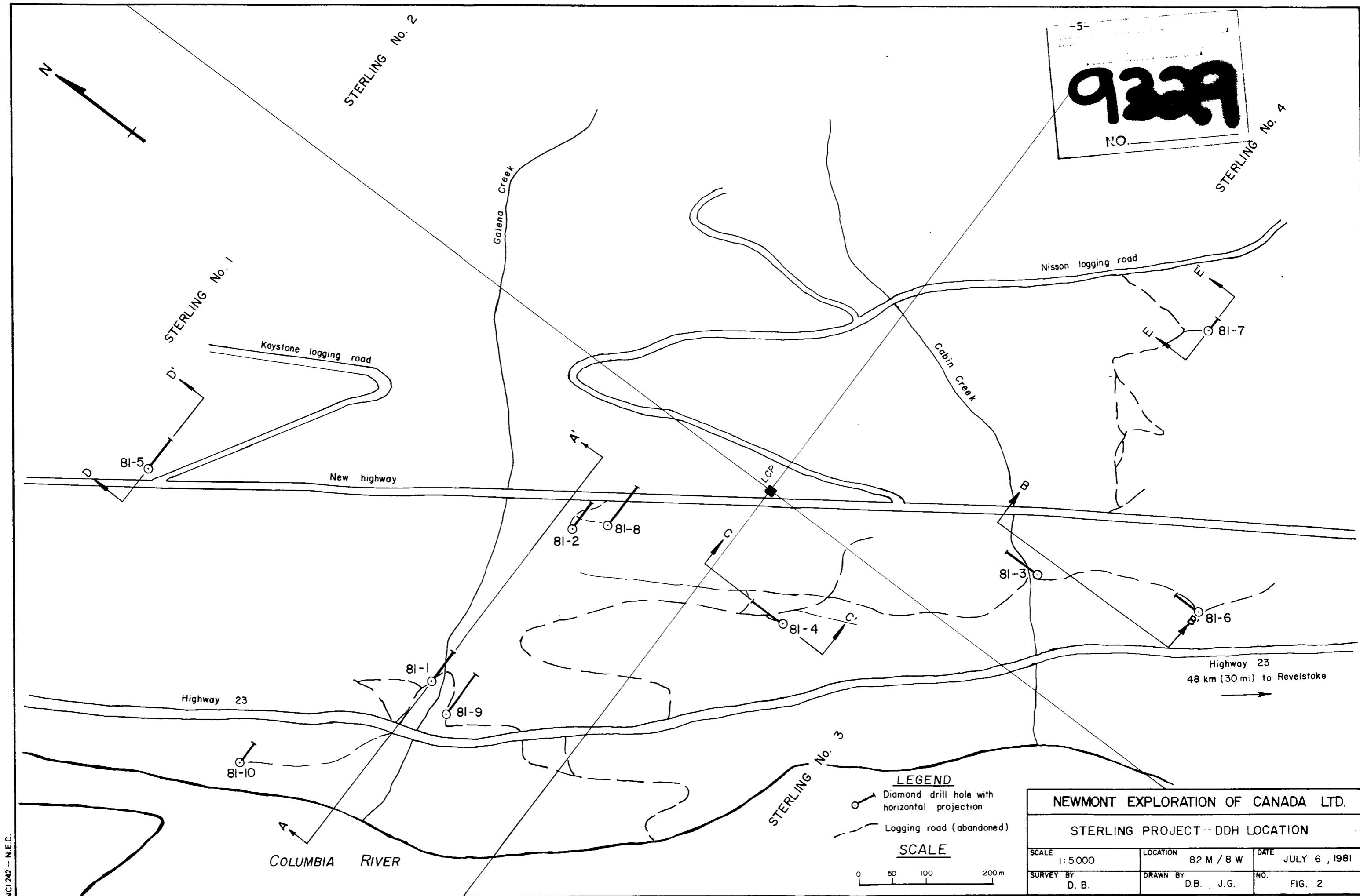
Twenty-six 2-post claims, known as the "34 Mile" group, were staked in June, 1979 by Cajac Exploration. Later that year, Brenda Mines carried out a soil geochemical survey. These claims were abandoned and restaked as the Sterling No. 1-6 in 1980.

GENERAL GEOLOGY

The Sterling claims are underlain by Lardeau Group metasediments (Cambrian to Devonian) which, as defined by J.O. Wheeler (G.S.C. Paper 64-32, 1965) consist of phyllitic siltstones, quartzite, siliceous phyllonite, quartz muscovite-chlorite-plagioclase schist, limestone, chlorite schist and greenstone. A major fault zone runs along the Columbia River valley, separating the Lardeau rocks from the Shuswap Metamorphic Complex on the west side of the valley.

The Lardeau rocks in the claim area, as defined by diamond drilling and outcrop, consist mainly of quartz-chlorite-calcite and/or muscovite schists, biotite-sericite schists, graphite schists, silicified-sericite-feldspar-fuchsite schists and chlorite schists bearing magnetite octahedrals. Minor crystalline limestone, calcareous quartzite, albite rich pegmatite and siliceous-chlorite metavolcanic units were also noted. In general the siliceous metasediments often contain disseminated pyrite and pyrrhotite. Accessory minerals include magnetite, ankerite, dolomite, allanite, rutile, fuchsite and albite. Only the latter three minerals are associated with molybdenite mineralization. Allanite was confirmed by X-ray diffraction, G. White of the Dept. of Mines.

A sulphide-barren calcareous meta-diorite intrusive unit was intersected by two drill holes. Feldspars were commonly saussuritized (altered to epidote, sericite and chlorite). The metavolcanic units were also generally sulphide free.



DRILLING DATA AND GEOLOGICAL INTERPRETATION

The purpose of the surface diamond drill program was to test the Sterling property for a deep seated molybdenum deposit. Detailed descriptions of the drill core and corresponding assay results are contained on the drill log sheets (see Appendix 1). The ten drill sites are plotted on five sections (see Fig.'s 3-7). It should be noted that diamond drill hole 81-10 started off as a vertical hole but had deflected more than 13° by the time it was finished. It is believed to have wandered against the dominantly west-northwesterly dip and is therefore plotted with a horizontal projection in the east direction. Below is a tabulated drill record of each hole:

Hole No.	Length (metres)	Dip	Azimuth	Latitude (N-S)	Departure (E-W)	Elevation (metres)	Core Size
81-1	106.7	-60°	east	373 S	590 W	533	BQ
81-2	106.7	-61°	east	342 N	300 W	603	BQ
81-3	106.7	-65°	north	303 S	70 E	577	BQ
81-4	106.7	-60°	north	42 S	251 W	551	BQ
81-5	106.7	-60°	east	835 S	570 W	609.5	BQ
81-6	61.0	-50°	north	468 S	110 E	555	BQ
81-7	61.9	-70°	east	370 N	470 E	731	BQ
81-8	258.5	-75°	east	206 N	302 W	604	NQ
81-9	235.9	-75°	east	205 N	602 W	531.5	NQ
81-10	276.7	-90°	--	562 N	855 W	496	NQ

On section AA', two hydrothermally altered molybdenite-bearing zones have been interpreted near surface (see Fig. 7, in pocket). Well silicified-sericite-feldspar-fuchsite altered schists, containing some molybdenite, define the first zone at surface located along the new highway. Diamond drill holes 81-2 and 81-8, drilled down-dip from this outcrop, confirmed the molybdenite-bearing zone to depth of about 40 metres. In drill hole 81-8, an intersection of 4.67% MoS₂ over 2 m was made at the 9.0 m mark. Ten centimetres of massive molybdenite, within a 0.5 m wide feldspar (albite) replaced section in the sericite schist unit, is responsible for this high grade assay. Another intersection of 0.385% MoS₂ over 2.40 m was made at the 15.0 m mark in drill hole 81-2 while all other results were less than 850 ppm Mo (0.14% MoS₂) and generally in the range of 3 to 25 ppm.

Molybdenite mineralization in the core usually occurs as fine to medium-grained rosettes commonly disseminated along feldspar, quartz and dolomite replaced margins of quartz veins and pegmatites in a silicified sericite-fuchsite schist. Individual core samples were usually 2-3 m long, with Mo content averaged over lengths of 15-20 m to show on drill sections.

The surface outcrop consistently exhibits a dip between 25° and 35° west-northwest, and this dip is conformable with the interpreted contact of the molybdenite-bearing zone from the two drill holes. With the exception of two slightly anomalous molybdenite values near the 150 m mark of hole 81-8, geochemical values drop off quite abruptly with depth after this contact. In general for all drill holes, geochemical assay values for molybdenum, and hydrothermal alteration of the metasediments (eg. silicification, sericitization), decrease as depth increases.

A relatively unaltered meta-diorite intrusive was intersected at the 192 m mark of hole 81-8. The highest molybdenum value obtained in this unit was only 11 ppm. A fine-grained derivative of this calcareous intrusive was also intersected in drill hole 81-6 (see Fig. 3, page 8), but it is not entirely certain if it is a sill or pluton-like intrusive unit.

The second molybdenite-bearing quartz-feldspar-sericite altered zone is exposed at surface along Galena Creek, but holes 81-1 and 81-9 drilled in the immediate area failed to define any extension of this altered zone at depth.

On section BB' an intermixed, partially silicified sericite and chlorite schist zone, as defined by drill hole 81-3, has been projected up to the surface galena-molybdenite showings in Cabin Creek. No lithological correlations can be made with drill hole 81-6, which is also on the section.

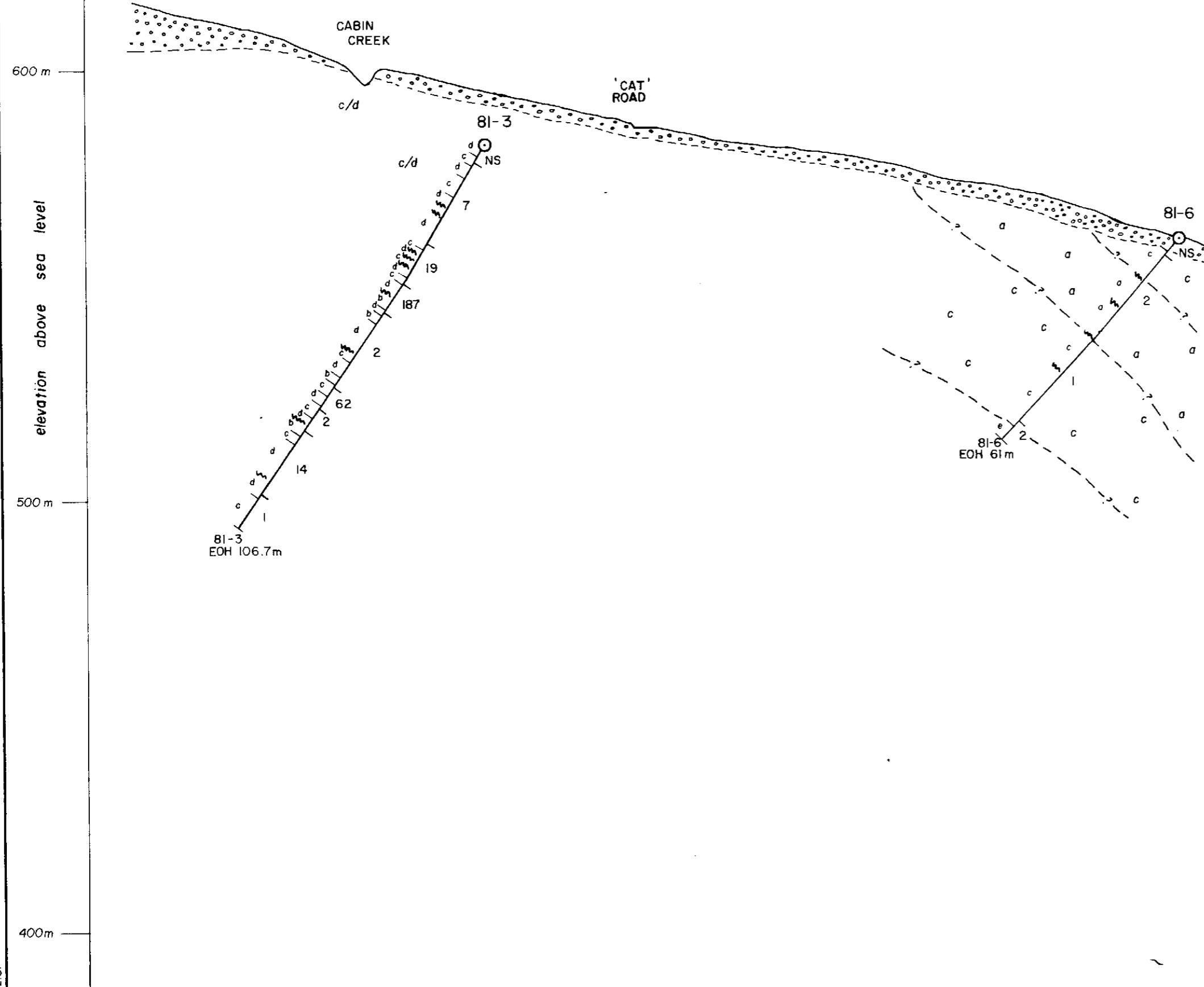
Drill hole 81-5 was drilled perpendicular to the dip of a galena-molybdenite quartz-dolomite-feldspar vein 0.5 m wide (see Fig. 6, page 11). Only minor lithological correlations can be made. Drill hole 81-7 was drilled on a magnetometer anomaly while 81-4 was drilled in an area of heavy overburden cover, with little or no geological information (see Fig. 4 and Fig. 5, pages 9 and 10).

The drill sites of holes 81-9 and 81-10 were selected with the assumption of intersecting a molybdenite-bearing zone down-dip from the showing exposed along the new highway. Hole 81-10 was also intended to get closer to the major Columbia River fault system to possibly find a structurally controlled molybdenite-bearing zone.

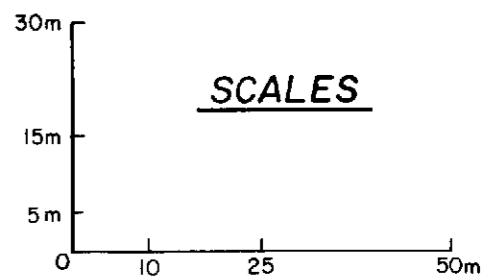
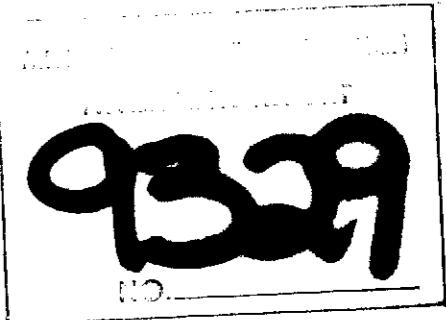
NORTH

SOUTH

-8-

LEGENDGEOCHEM NOTES

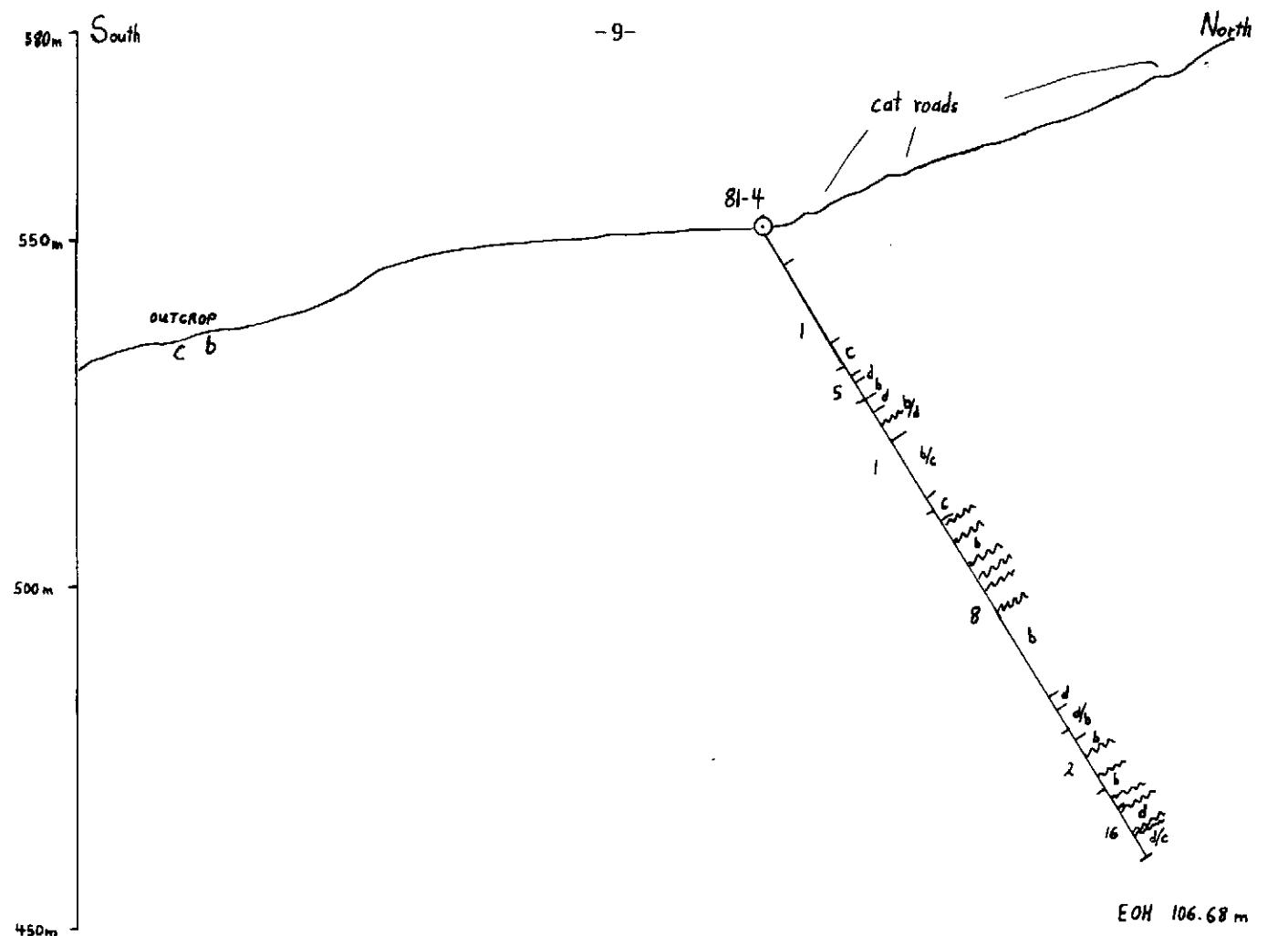
sample type : drill core (rock)
 digestion : aqua regia (HCl , HNO_3)
 analytical method : atomic absorption
 results : plotted in ppm Mo
 NS indicates an unsampled width

SCALES

NEWMONT EXPLORATION OF CANADA LTD.

STERLING PROJECT - SECTION BB'

SCALE	1:1000	LOCATION	B2K / 8W	DATE	JULY 6, 1981
SURVEY BY	D. B.	DRAWN BY	J. GOH	NO.	FIG. 3



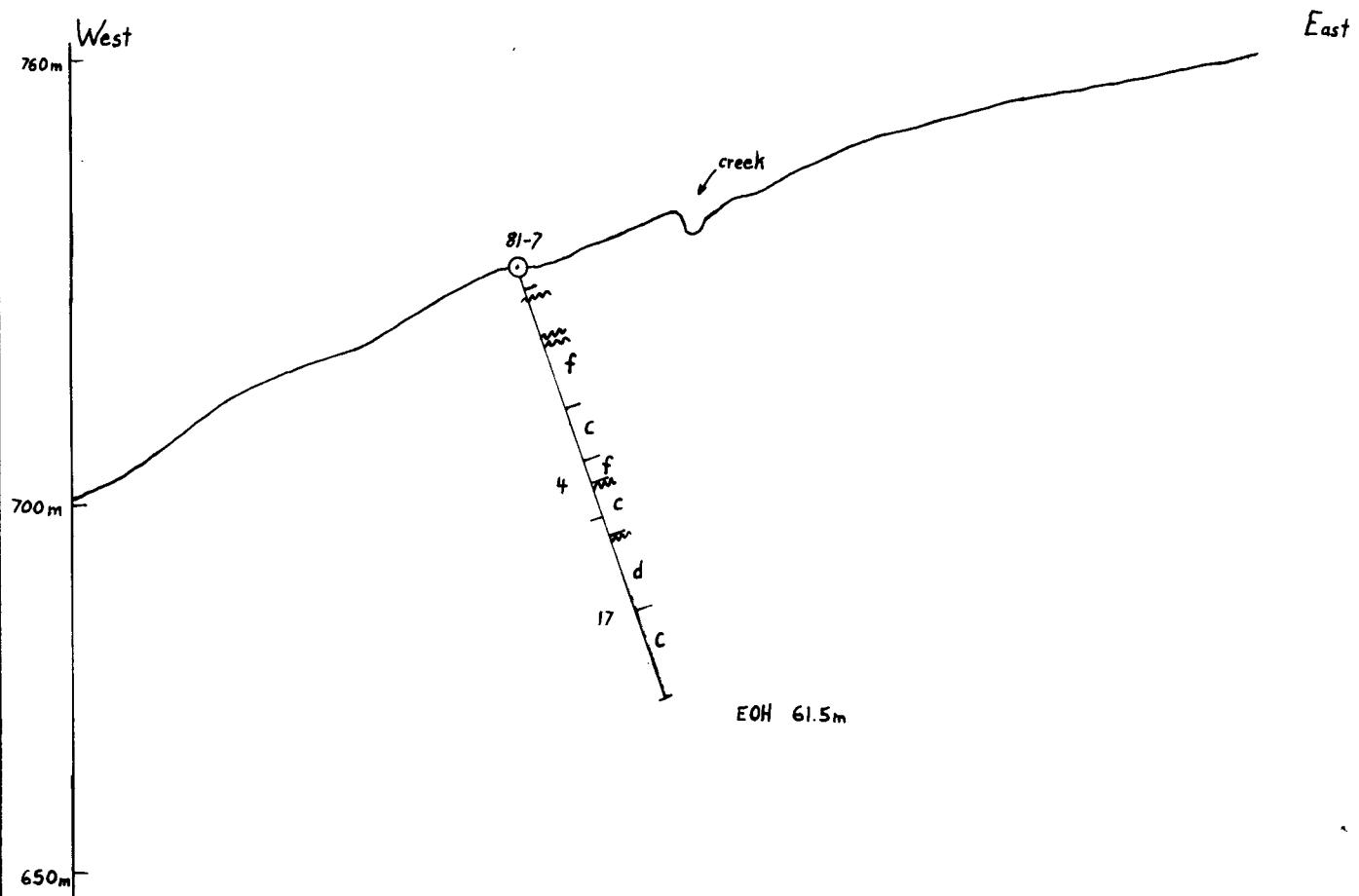
LEGEND

- c Quartz - chlorite - muscovite - calcite schist
 - d Silicified sericite schist with minor calcite, feldspar, fuchsite and chlorite
 - b Graphite schist, occasionally siliceous
- geochemical values in ppm Mo

NEWMONT EXPLORATION OF CANADA LTD.

STERLING PROJECT - SECTION CC'

SCALE 1:1000	LOCATION 82 M/SW	DATE June, 81
SURVEY BY D.B.	DRAWN BY D.B.	NO. FIG. 4



LEGEND

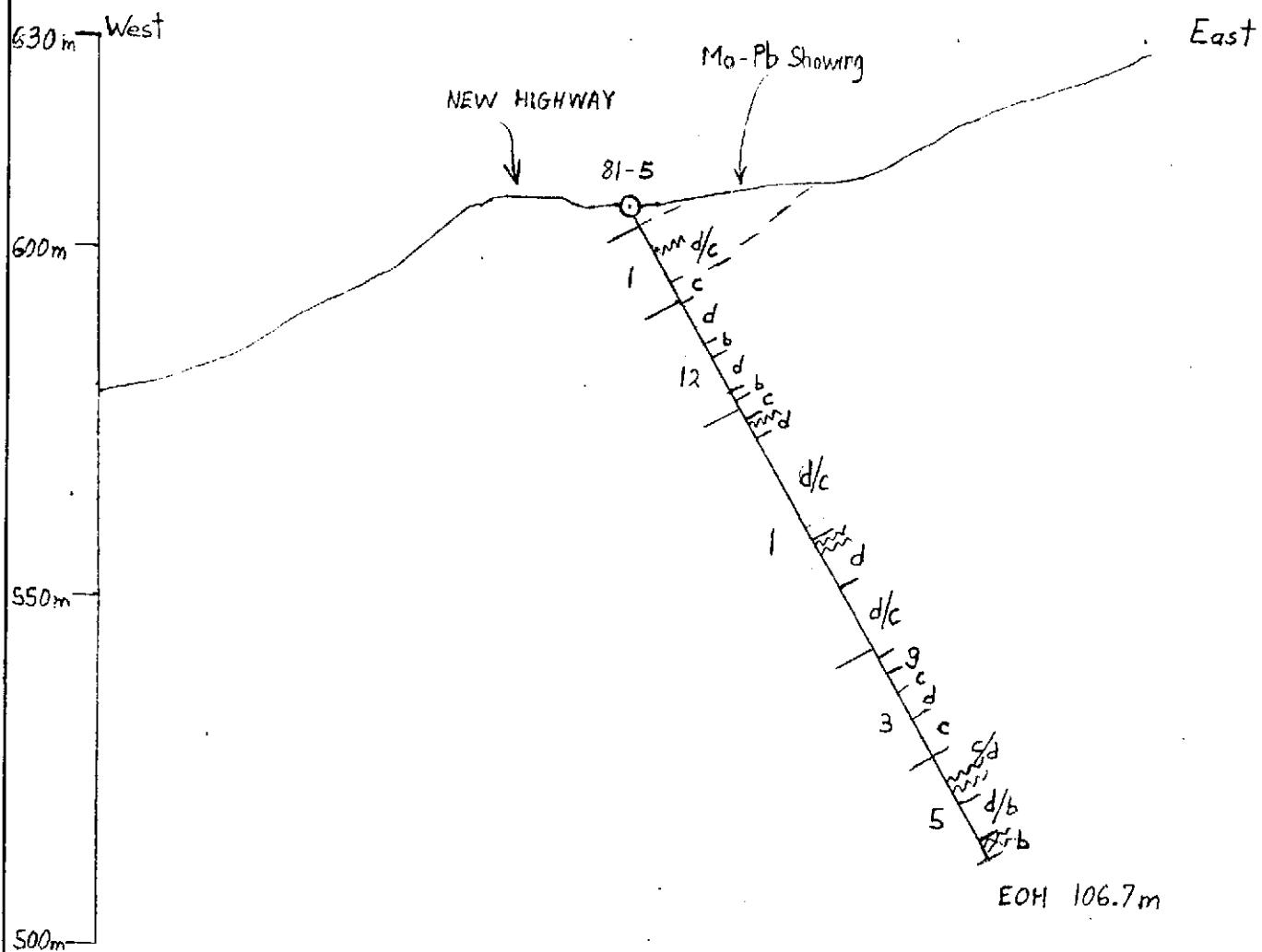
- f calcareous chlorite-biotite schist with disseminated magnetite octahedrals
- c calcareous chlorite and/or sericite schist
- d silicified sericite-calcite schist with minor feldspar, fuchsite alteration

geochemical values in ppm Mo

NEWMONT EXPLORATION OF CANADA LTD.

STERLING PROJECT - SECTION EE'

SCALE 1:1000	LOCATION 82 M/8W	DATE June, 81
SURVEY BY D. B.	DRAWN BY D. B.	NO. FIG. 5



LEGEND

- b Siliceous graphite schist
- c Calcareous quartz-chlorite muscovite schist
- minor biotite and sericite
- d Silicified sericite-fuchsite schist
- altered by calcite(dolomite), feldspar and biotite
- g Crystalline - pyrite limestone

Geochemical values in ppm Mo

NEWMONT EXPLORATION OF CANADA LTD.

STERLING PROJECT - SECTION DD'

SCALE	1:1000	LOCATION	82 M/8W	DATE	June, 81
SURVEY BY	D.B.	DRAWN BY	D.Z.	NO.	FIG. 6

Anomalous molybdenum samples often contained correspondingly high background values in Pb, Zn, Ag and sometimes copper. For example a 2.60 m wide sample in drill hole 81-2 ran 0.129% MoS₂, 1.02% Pb, 0.43 oz/ton Ag, 135 ppm Zn and 578 ppm copper. A high of 1.08% Pb and 5.26 oz/ton Ag was obtained in hole 81-5 over 2 m. Generally Pb, Zn and Ag values range from 10 to 1738 ppm, 10 to 2677 ppm and 0.2 to 16.9 ppm respectively. A high of 713 ppm Cu was obtained in hole 81-8 over 3 m but most values were in the 50 to 300 ppm range. These moderate to high base metal background values are associated with fine-grained galena, sphalerite and chalcopyrite within the silicified, calcareous matrix of the schists and to a lesser extent, narrow quartz-calcite (dolomite) and/or feldspar veins.

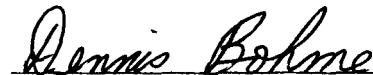
A high of 7 ppm tungsten was obtained in hole 81-10 with the majority of analyses being only 1 or 2 ppm. Gold analyses, usually taken in areas rich in iron sulphides, ranged from 0.005 ppm to 0.020 ppm.

Overall, the Lardeau series schists on the Sterling property contain erratic grades of molybdenite mineralization with moderate to high background values in Pb, Zn, Ag and Cu. Quartz-calcite (dolomite) and quartz-sericite-feldspar-fuchsite veins occur usually along foliation planes and are generally less than 20 cm wide. Core angles of the schistosity show metasedimentary sequence generally to be striking northerly and dipping between 20°-40° to the west-northwest.

Numerous fault zones, often associated with a crenulated graphite-rich schist, are seen throughout the drill core but proper dips could not be obtained for correlation with other drill holes. Because of the intermixed nature of the siliceous, calcareous, chloritic and graphitic schists, distinct marker units that could be correlated from hole to hole were not identified.

CONCLUSIONS

This drill program was unsuccessful in finding a significant molybdenum deposit. Molybdenite mineralization and associated alteration present near surface did not persist to depth. No intrusive source or quartz vein stockwork system was found.


D. M. Bohme

Vancouver, B.C.
July 10, 1981

STATEMENT OF COSTS

<u>Drilling</u>	<u>COSTS</u>
Herb Allen Diamond Drilling Ltd., Merritt, B.C.	
10 holes totalling 1427.4 m (4683')	
April 22 - June 16, 1981	\$ 119,106.00-
Core boxes - 215 boxes @ \$4.25/box	913.75 -
<u>Assaying</u>	
448 samples for Cu,Mo,Pb,Zn,Ag,W @ \$4.50/sample = \$2016.00	
74 samples for Au @ \$3.25/sample = 240.50	
448 sample preparations @ \$2.25/sample = 1008.00	
7 miscellaneous assays @ \$9.00/sample = 63.00	
Total	3,327.50-
Shipping =	232.11 -
<u>Personnel</u>	
D. Bohme, geological technician	-13-
April 22-July 8, 1981 67 days @ \$77.87/day	5,217.29 -
P. Bohme, coresplitter and survey assistant	
April 22-June 19, 1981 57 days @ \$53.75/day	3,063.75 -
<u>Groceries and Meals</u>	
2 men, 57 days @ \$12.00 each per day	1,368.00 -
<u>Accommodation</u>	
2 men, 57 days @ \$23.00/day	1,311.00 -
<u>4-Wheel-Drive Vehicle + Fuel</u>	
57 days @ \$40.00/day	2,280.00 -
<u>Report Typing, Printing Costs, etc.</u>	
Total	200.00
	<u>\$ 137,018.40</u>

STATEMENT OF QUALIFICATIONS

I, Dennis M. Bohme, do hereby certify that:

1. I am a geological technician presently employed by Newmont Exploration of Canada Limited.
2. I am a graduate of the British Columbia Institute of Technology, 1980.
3. I carried out the drill core logging and surveying described in this report.

Dennis Bohme

D. M. Bohme

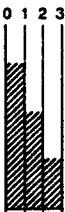
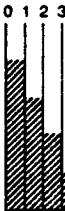
I, Terrence N. Macauley, do hereby certify that the work described in this report was done under my direction.

TN Macauley

T. N. Macauley, P.Eng



DRILL LOG

PROJECT STERLING	GROUND ELEV. 1750 ft (533m)
HOLE NO. 81 - 1	BEARING DUE EAST
LOCATION STERLING NO. 1	DIP - 60°
COORDINATES FROM L.C.P. 590m West 373m South	TOTAL LENGTH 350 ft (106.71m)
LOGGED BY D. BOHME Dennis Bohme	HORIZONTAL PROJECT 55m
DATE APRIL 25, 1981	VERTICAL PROJECT 94m
CONTRACTOR HERB ALLEN	ALTERATION SCALE  0 absent 1 slight 2 moderate 3 intense
CORE SIZE BQ	TOTAL SULPHIDE SCALE  0 traces only 1 < 1% 2 1% - 3% 3 3% - 10% 4 > 10%
DATE STARTED APRIL 22, 1981	
DATE COMPLETED APRIL 26, 1981	
DIP TESTS AT 163 ft (49.69m) 58° AT 350 ft (106.71m) 63°	
COMMENTS	LEGEND

PAGE	OF	PROJECT: STERLING	HOLE NO. 81-1								
DEPTH (m)	% CORE REC	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION					FRACTURE INTENSITY	% VEIN QTZ.
					BIO	SER	SIL	Chlor	E		
A	B	C	D								
5				0.0 - 2.13 OVERBURDEN - CASING 2.13 - 2.55 BIOTITE SCHIST with numerous calcite veinlets + fine gr pyrite and magnetite octahedrons						10	
10				2.55 - 19.00 Complexly interlayered coarse gtz-muscovite-chloritic schist, bleached calcite-feldspar altered sericite schist and moderate quartz veinlets (< 3cm) with calcite, ankerite, feldspar and minor fuchsite alteration occurring with the foliation (generally ⊥ to core axis)						20	
15				10.85 - 11.0 fault zone marked by fault gauge and broken up muscovite schist 11.90 - 12.15 porphyritic feldspar phenos in a sericite schist (minor fuchsite and calcite also) considerably less chlorite 15.50 - 15.95 porphyritic feldspar phenos in a sericite schist						10	
20				15.40 - 15.45 Shear zone marked greyed schist 15.65 - 17.37 FAULT ZONE marked broken up friable core						0	
25				19.00 - 22.10 GRAPHITIC-SERICITIC SCHIST intermixed by gtz segregations and gtz-calcite-feldspar segregations with moderate sericite altered margins						20	
30				22.10 - 29.40 Bleached muscovite to sericite schist with numerous gtz-ankerite veinlets along foliation planes and fractures 27.3 - 27.65 Qtz-ANKERITE-py-fuchsite vein with foliation						20	
35				29.40 - 30.0 PYRITIC GRAPHITIC SCHIST 30.0 - 35.70 silicified sericite-feldspar-ankerite-py-fuchsite sch. Qtz-py veinlets < 2cm generally with foliation Ankerite veinlets filling x-cutting fractures.						10	
40				35.70 - 48.0 MAJOR FAULT ZONE - broken friable core, fault gauge and gtz, sericite, feldspar, pyrite and fuchsite fault breccia. Graphitic schist fragments also present. FRAGMENTAL Qtz veins and coarse feldspars seen indicating shattering of altered rock						0	
45				(B3)						0	

PAGE	OF	3	PROJECT:	STERLING		HOLE NO.	81-1					
MINERALIZATION DESCRIPTION	TOTAL SULPHIDE	SAMPLES			SAMPLE NUMBER	ASSAYS (ppm)						
		FROM	TO	WIDTH		Mo	W	Pb	Zn	Cu	Ag	Au
generally f.gr pyrite seen throughout muscovite schist occurring as disseminations and fracture coatings. Minor pyrrhotite		2.13	5.0	2.87	101	1	1	29	71	25	.5	-
Qtz veinlets generally barren of py, po			5.0	8.0	3	102	1	1	27	62	25	.3
			8.0	11.0	3	103	1	1	8	67	30	.1
increase pyrite content in graphitic schist and adjacent gtz-sericite schist			11.0	14.0	3	104	1	1	11	60	31	.1
			14.0	18.0	4	105	2	1	9	57	30	.1
			18.0	23.0	5	106	2	1	8	58	33	.2
			23.0	26.0	3	107	2	1	4	47	36	.1
26.25-26.45 gtz-ankerite vein (<1cm wide) X-cutting foliation of bleached sericite sch. contains massive f.gr. pyrite and minor f.gr molybdenite along vein margins. Est gr 0.05% Mo			26.0	29.0	3	108	3	1	162	391	73	2.2 .005
27.7-27.65 f.gr to med gr pyrite pods throughout gtz vein			29	32	3	109	1	6	9	38	66	.2 .005
32.10-32.40 f.gr sph-galena noted in pyrite rich-feldspar altered gtz-sericite sch; minor po			32	35	3	110	3	1	40	35	18	.2 .005
35.50-48.0 FAULT pods and stringers of py occur throughout fault breccia			35	43	8	111	5	1	53	106	22	.3
			43	48	5	112	12	2	156	175	33	1.0

PAGE 2 OF 3

PROJECT: STERLING

(Y) HOLE NO. 81-1

DEPTH (m)	% CORE REC	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION					FRACTURE INTENSITY	% VEIN QTZ
					B10 A	SER B	SIL C	CHLOR D	E		
35				35.70-48.0 FAULT ZONE						0	
48				48.0-49.0 bleached gtz-sericite-fuchsite sch with numerous gtz-feldspar veinlets <2cm wide, 5°-20° to S/A						10	
50				49.0-55.60 complex interlayering of graphitic sch + sericite schist with initial calcite Veinlets throughout the foliation. Qtz veins <3cm consist of feldspar and calcite margins. Foliation 0-20° L to S/A crenulations present throughout.						10	
55				55.60-55.80 gtz vein altered by bleached sericite, feldspar, calcite and py, py margins						10	40
60				55.80-65.2 chloritic muscovite sch (calcite rich) with sections of chlor → bio alteration. calcite veins <3cm along foliation - minor feldspar + ankerite also - foliation L to S/A						0	
65				65.2-65.30 FAULT / SHEAR ZONE marked by gauge + fragments						0	
70				65.30-71.30 silicified sericite (minor fuchsite) sch with numerous gtz-ankerite and gtz-feldspar-calcite veinlets (<0.05cm) - some vuggy gtz veinlets also						10	
75				67.20-67.40 FAULT ZONE - gauged friable sch						10	
80				70.60-75.60 MAJOR FAULT ZONE contains graphite-gtz breccia fragments, graphitic gauge and sericite sch pieces						0	
85				75.60-82.80 Mostly muscovite sch with narrow (<5cm) bleached zones of gtz-sericite-feldspar-py fuchsite sch and occasional thin bands of graphitic sch. foliation between 0-20° L to S/A -gtz veins (<2cm) with sericite altered margins, minor ankerite, all with sch foliation						0	
90				82.80-106.68 Crenulated pyritic-graphitic schist X-cut by regular and irregular gtz calcite and gtz-calcite-feldspar veinlets less than 0.05cm Frequent shear zones seen, marked by polished graphitic surface						10	
				84.30-84.43 Bleached gtz-sericite-feldspar-py sch included into graphitic sch. (slight drag fold seen).						0	20

MINERALIZATION DESCRIPTION	TOTAL SULPHIDE	SAMPLES			SAMPLE NUMBER	ASSAYS (ppm)					
		FROM	TO	WIDTH		Mo	W	Pb	Zn	Cu	Ag
met-coarse py cubes present within foliation of schist but not related to gtz-feldspar veinlets		48	51	3	113	3	1	6	59	44	.2
Fine-gr py generally found along margins of sericite-graphite sch. contact		51	54	3	114	4	2	9	85	.71	.3
49.0-55.60 coarse gr blobs of po and minor f.gr py along vein margins		54	57	3	115	3	1	13	59	107	.2
55.80-59.0 coarse-gr py cubes within calcareous musc sch, up to 5mm wide		57	60	3	116	1	1	10	58	50	.1
59.0-65.30 sparse f.gr py		60	63	3	117	1	1	9	42	124	.1
65.30-71.30 fine to coarse gr py throughout schist foliation and generally not associated with veinlets		63	66	3	118	1	4	37	72	52	.2
70.60-75.60 massive py associated with gtz breccia inclusions in graphitic unit		66	71.3	5.3	119	1	1	1	55	85	.3
75.60-82.80 med→coarse gr pyrite as X-cutting fracture fillings and along veinlet margins of sericite altered gtz veinlets and segregations		71.30	76.0	4.7	120	2	1	8	26	47	.2
82.80-106.68 clots and stringers of massive pyrite along fracture planes and gtz-calcite inclusions. Minor f.gr. po also noted.		76	79	3	121	2	1	10	45	74	.1
		79	82	3	122	3	2	9	42	54	.1
		82	85	3	123	7	1	11	30	123	.1

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PROJECT: STERLING

HOLE NO. 81 -

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PROJECT: STERLING

HOLE NO. 81-1

DRILL LOG

PROJECT STERLING	GROUND ELEV. 1978 ft (603 m)
HOLE NO. 81-2	BEARING DOUE EAST
LOCATION STERLING NO. 1 COORDINATES FROM L.C.P. 300 West, 342 North	DIP -61°
LOGGED BY D. BOHME Dennis Bohme	TOTAL LENGTH 106.71 (350 ft)
DATE APRIL 30, 1981	HORIZONTAL PROJECT 49m
CONTRACTOR HERB ALLEN	VERTICAL PROJECT 92m
CORE SIZE BQ	ALTERATION SCALE  0 absent 1 slight 2 moderate 3 intense
DATE STARTED APRIL 26	TOTAL SULPHIDE SCALE  0 traces only 1 < 1% 2 1% - 3% 3 3% - 10% 4 > 10%
DATE COMPLETED APRIL 30	LEGEND
DIP TESTS 50 ft -60° 150 ft -63° 350 ft -67°	
COMMENTS	

PAGE 1 OF 3

PROJECT: STERLING

HOLE NO. 81-2

MINERALIZATION DESCRIPTION	TOTAL SULPHIDE	SAMPLES			SAMPLE NUMBER	ASSAYS (ppm)				
		FROM	TO	WIDTH		Mn	W	Pb	Zn	Cu Ag As
14.60 - 15.20 f.gr py along foliation										
15.20 - 19.75										
15.20 - 16.0 f.gr py, po, minor Mn in feldspar - ser altered gtz vein		15	17.37	2.37	126	2400 (0.385% MoS ₂)	1	94	428	165 2.6
16.0 - 16.3 gtz vein containing massive py km wide, 3.5 cm thick along fracture		17	17.37	20.0	3.63	127	21	1	41	55 187 1.6
16.30 - 18.28 f.gr py, po throughout silicified sch; possible sph (coarse gr) seen										
17.0 - 17.10 gtz-vein containing massive molybdenite (coarse) along feldspar		20.0	23.0	3	128	6	1	58	74	58 0.3
ser altered margins 18.28 - 18.60 massive coarse gr. po injected along fracture										
Est gr. 15.20 - 19.75 0.03 - 0.08										
18.60 - 20.60 f.gr py throughout		23.0	27.0	4	129	45	1	6	58	51 0.2
20.50 - 22.50 pods of f.gr py throughout										
22.50 - 28.0 med. to f.gr py - within veinlets + foliation planes		27.0	30.0	3	130	2	1	5	49	32 0.2
28 - 36.50 sparse f.gr py within fractures										
30	33	3	131			2	1	5	43	24 0.2
33	36.5	3.5	132			2	1	8	45	27 0.2
36.5	39.62	3.12	133			3	1	7	41	21 0.1
41.30 - fine to coarse py as fracture coatings + disseminations; minor po										
42.06 - 42.6 gtz-vein with galena + sphalerite included along fracture planes; pyrite also		39.62	41.30	1.68	134	2	1	4	52	73 0.2
49.68 - 49.80 gtz-py-sericite-fuchsite vein with coarse gr molybdenite in fractures Est gr 45 - 50 0.04 MoS ₂		41.30	45.0	3.7	135	31	1	900	300	67 5.5
		45	50	5	136	850 (0.142% MoS ₂)	1	273	1412	156 2.8

DEPTH (m)	% CORE REC	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION					FRACTURE INTENSITY	% VEIN QTZ
					BIO A	SER. B	SIL C	DCHLOR D	E		
46.32	22%			46.32-47.54 broken friable core + missing (FAULT) 47.90-48.30 missing + broken up core (FAULT)						40	
50				50.30-52.73 silicified bleached calcite ser-fuchsite-py-pn altered sch. Fine-gr feldspar throughout 50.80 X-cutting qtz-feldspar-calcite veinlets at 70° to q/a (2-3mm wide) 52.73-52.85 feldspar-fuchsite rich vein 53.0-53.5 brown bio included in sil sch 53.0-59.0 silicification of ser sch decreases along with feldspar matrix. Calcite increases quite significantly, with veinlets throughout						50	
55				57.95-58.50 several qtz-feldspar-calcite fuchsite veins (< 3cm) at 10° / to q/a						60	
60				58.60-59.0 FAULT/SHEAR ZONE; marked by broken friable core						20	
65				59.50-59.70 SHEAR/FAULT ZONE - broken/sheared core 59.70-71.0 qtz-muscovite-calcite (slightly chloritic) schist. CALCITE veins + segregation throughout matrix. minor qtz-feldspar veinlets. Foliation 0-20° to q/a 69.0-69.30 several qtz-calcite-feldspar veinlets < 2cm wide						0	
70				71.0-72.54 interbanded qtz graphitic sch, qtz-feldspar veinlets and sericite sch; initial dolomite 71.90 coarse qtz-feldspar segregation						70	
75				72.54-73.0 bright green fuchsite rich calcareous qtz sericite sch with numerous vugs + cavities with qtz crystal growth						5	
80				73.0-78.0 qtz-muscovite-calcite sch with intermixed bleached silicified sections of sericite-py-fuchsite sch.						10	
85				78.0-78.20 Altered qtz-feldspar-ser-fuchsite-py vein 78.20-79.0 FAULT ZONE - marked by broken + missing core						70	
90				79.0-80.80 Alternating calcareous graphite unit + qtz sericite-calcite banding. 80.40 qtz-feldspar vein < 3cm wide with ser altered margin 80.80-89.0 narrow intermixed bands of chloritic muscovite calcite-qtz (minor ankerite) veinlets and fuchsite ser bleached sections. Very calcareous. Veinlets with foliation at 0-10° of q/a 89.40-89.60 creamy qtz-calcite rich veinlets (< 3cm) 87.5-87.6 qtz-calcite rich vein						0	

PAGE 2 OF 3

PROJECT: STERLING

HOLE NO. 81-2

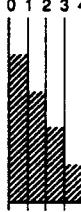
MINERALIZATION DESCRIPTION	TOTAL SULPHIDE	SAMPLES			SAMPLE NUMBER	ASSAYS						
		FROM	TO	WIDTH		Mn	W	Pb	Zn	Cu	Ag	Au
50.30-52.73 f.gr py, minor po in blebs along poorly developed tabular -minor Mn?		50	53	3	137	168	1	306	808	137	2.6	-
52.73-52.85, py throughout f.gr molybdenite seen also		53	56.08	3.08	138	4	1	32	86	114	1.0	-
56.7 f.gr rosette of moly along coarse-gr. bleb of pyrrhotite		56.08	59.0	2.92	139	3	1	8	93	93	0.5	-
57.90-58.50 blebs of fine gr py, minor po		59	62	3	140	3	1	4	73	57	0.4	-
71.0-72.54 pyrite filled fractures and in gte veinlets		69	72	3	141	4	1	6	75	83	0.1	-
72.54-73.0 strings of py along margins of gte calcite veinlet		72	75	3	142	3	1	3	127	95	0.3	-
73.0-78.0 coarse gr py along fractures; fine gr in matrix		75	78	3	143	3	1	7	81	121	0.4	-
78.0-80.80 f.gr py disseminated throughout		78	82	4	144	4	1	2	77	65	0.3	-
80.80-89.0 py content drops off. A few minor clots of po visible. Qtz-calcite rich veinlets are barren of any sulfides		82	85	3	145	3	2	7	79	73	0.3	-

PAGE 3 OF 3

PROJECT: STERLING

HOLE NO. 81-2

DRILL LOG

PROJECT STERLING	GROUND ELEV. 1893 ft. (577m)
HOLE NO. 81-3	BEARING DUE NORTH
LOCATION COORDINATES FROM L.C.P. 303m South 70m East STERLING NO. 4	DIP -65°
LOGGED BY D. BOHME Dennis Bohme	TOTAL LENGTH 106.68m (350 ft)
DATE MAY 2, 1981	HORIZONTAL PROJECT 59 m
CONTRACTOR HERB ALLEN	VERTICAL PROJECT 90m
CORE SIZE BQ	ALTERATION SCALE  <ul style="list-style-type: none"> 0 absent 1 slight 2 moderate 3 intense
DATE STARTED MAY 1, 1981	TOTAL SULPHIDE SCALE  <ul style="list-style-type: none"> 0 traces only 1 < 1% 2 1% - 3% 3 3% - 10% 4 > 10%
DATE COMPLETED MAY 4, 1981	
DIP TESTS 175 ft (53.34) 63° 350 ft. (106.68) 60°	
COMMENTS	LEGEND

PAGE	OF	3	PROJECT:	STERLING	HOLE NO.	81-3	
DEPTH (m)	% CORE REC	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION	FRACTURE INTENSITY	% VEIN QTZ
5				CASING 4.57	BIO A	BSER	OSIL
				4.57 - 5.18 gtz vein with fractures filled with pyrite, feldspar + calcite.			10
5.18-16.25				5.18-16.25 Silicified muscovite sch with alternating bleached bands of gtz-ser sch with coarse feldspar, massive f.gr pyrite and calcite. foliation between 0-20° of c/a			50
				7.9-8.2 gtz-feldspar-ser-fuchsite vein			40
				10.80-13.0 highly silicified ser sch with pods of coarse gr feldspar (<1cm)			40
				13.80-15.0 silicified ser sch with gtz feldspar veinlets and segregations with bleached foliation			30
15				16.25-26.70 GRAPHITIC- SCH with gtz veinlets (<1cm) with minor ser alteration throughout, minor calcite			20
				17.06-21.70 FAULT ZONE - marked by large amounts of missing core and fragmental graphitic sch. Crenulated			0
20				25.05-25.25 FAULT / SHEAR ZONE - marked by crumbly fragments of graphite sch			10
				24.0-26 less gtz veinlets, more graphite			20
				26.70-28.70 silicified ser sch, 27.10-27.70 gtz-sericite, feldspar-calcite veins, largest 10cm wide at 10° to c/a. 27.55-27.70 Vugs + cavities in gtz			10
				28.70-29.40 gtz-graphite-ser-py schist			60
				29.40-41.30 silicified musc and ser schist. Schistosity poorly developed. Minor fuchsite in sections with calcite and gtz-calcite veinlets throughout (<1cm)			10
30				31.30-31.60 gtz-py rich vein			20
				31.69-34.60 FAULT ZONE - marked by shattered and missing core; massive py fragments			10
				34.70-34.90 fragmental gtz-feldspar-py-calcite - minor fuchsite vein			30
35				36.70-37.0 ser altered gtz-py-fuchsite vein			50
				37.0-40.0 totally leached out fabric of silicified sch by ser, feldspars, py and po minor fuchsite			100
40				40.50-41.0 X-cutting gtz veinlets <1cm			30
				41.30-44.40 FAULT / SHEAR ZONES fine fragmental core and sections of missing graphitic sch mark fault			0
45				41.80-42.20 section of silicified ser-py schist			0

PAGE	OF 3	PROJECT: STERLING							HOLE NO. 81-3		
MINERALIZATION DESCRIPTION	TOTAL SULPHIDE	SAMPLES			SAMPLE NUMBER	ASSAYS					
		FROM	TO	WIDTH		Mo	W	Pb	Zn	Cu	Ag
5.18-16.25 clots of massive py throughout		4.57	8.23	3.66	153	8	1	22	28	65	0.2
5.18-6.5 intensely silicified ser. sch with several gtz veins (>2cm) containing massive py and fine gr. ribbon streaks of moly?		8.23	11.0	2.77	154	2	1	185	363	80	4.3
10.80-13.0 f.gr. py pods throughout Possible f.gr. ribbons of moly in fractures?		11.0	14.0	3	155	2	1	11	18	42	0.2
13.80-15.0 f.gr. streaks of py associated with gtz-feldspar veinlets + segregations. minor pods of po		14.0	16.15	2.15	156	4	1	11	15	57	0.1
16.25-26.70 med to coarse gr. pods of py throughout gtz veinlets		16.15	23.0	6.85	157	2	1	8	36	109	0.1
26.70-28.70 f.gr. py throat											
27.10-27.70 f.gr. pyrite, galena and sphalerite along calcite-sericite altered vein margins; about 1% Pb, 0.5% Zn possible rutile? and moly? also seen		23.0	26.70	3.70	158	3	1	12	32	62	0.2
27.10-27.70 f.gr. pyrite											
30.17-31.0 f.gr. ribbon streaks of moly??		26.70	29.0	2.3	159	48	1	465	147	62	1.7
29.40-41.30 f.gr. pods + fracture fillings of py and po; perhaps py → po alteration; seen throughout; no moly seen											
sections of fracture filled massive po f.gr. galena in matrix with po??		29	31.69	2.69	160	6	1	45	11	30	0.4
		31.69	38.0	6.31	161	3	1	7	33	67	0.1
		38.0	41.0	3	162	308	1	0.17 [%]	69	99	0.67
41.30-44.40 varying amounts of f.gr. py and massive clots of py along fractures											0.2/TON
		41.0	46.0	5	163	66	2	149	40	98	1.3

PAGE	OF	PROJECT:	STERLING	HOLE NO.				
DEPTH (m)	% CORE REC	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION	FRACTURE	INTENSITY	% VEIN QTZ.
44				44.40-48.0 intermixed bands of siliceous graphite sch, bleached ser. sch and gtz-calcite veinlets of < 3cm wide. Some veinlets are "S" shaped within crenulated graphite sch	B10 A			10
50				48.0-57.40 Very siliceous, bleached musc to ser-po sch 50.50-51.70 gtz-feldspar-py-calcite vein 51.55-51.80 Coarse-gr feldspars up to 3cm wide in gtz veins fractures filled with py, po and calcite -schistosity texture of ser. is totally bleached out in sections	B SER C			30
55				54.80-55.0 gtz-calcite-py vein 1 to 9t 55.90-56.10 gtz-calcite-po vein at 30° to C/A 57.40-58.21 FAULT / SHEAR ZONE marked by shattered, friable gtz-musc fragments	C D CHLOR	E		40
60				58.21-59.0 siliceous pyritic-graphitic sch 59.0-59.10 FAULT / SHEAR ZONE + friable sch 59.10-65.80 intermixed gtz-musc (chloritic) and gtz-sericite sch. Sections of bleached out foliation but generally 10°-30° L to C/A	D E			10
65				62.20-62.30 fractured gtz-feldspar-po-calcite vein 65.80-67.90 siliceous crenulated graphite sch with numerous gtz-py and gtz-po veinlets < 3cm with ser-calcite altered margins	D E			20
70				67.90-74.10 intermixed coarse crenulated musc to fine ser siliceous sch with gtz-veinlets < 5cm 69.40-69.50 graphitic shear zone with fractured barren gtz-rein. 69.55-69.65 fractured included gtz-segregations in musc sch	D E			40
75				71.35 gtz feldspar-po-py veinlet 2cm wide 74.10-76.85 intermixed siliceous graphite + bleached ser sch bands, several small shears + crenulations 75.30-75.45 ser-calcite rich segment	D E			30
80				76.85-106.68 highly silicified bleached ser sch with numerous gtz-feldspar-calcite po-py veinlets ~10cm	D E			50
85				77.50-77.80 FAULT / SHEAR ZONE marred by gtz-ser sch fragments and heavy fracturing 79.0-79.20 gtz-py vein with feldspar-ser calcite altered margins at 50° to C/A	D E			30
90				80.80-80.90 Band of siliceous graphite 81.70-82.0 series of gtz veinlets and segregations with ser-feldspar-calcite altered margins (min fuchsite)	D E			20

PAGE 2 OF 3	PROJECT: STERLING	HOLE NO. 81-3									
MINERALIZATION DESCRIPTION	TOTAL SULPHIDE	SAMPLES			SAMPLE NUMBER	ASSAYS					
		FROM	TO	WIDTH		Mo	W	Pb	Zn	Co	Ag
44.40 - 48.0 cherts of py and po within gtz veinlets of graphitic sch.		46	49	3	164	.4	1	13	36	84	0.1
f.gr. py throughout ser.sch.											
45.20 gtz-py-calcite veinlet with f.gr galena?		49	52	3	165	.1	1	112	161	47	0.2
48.0 - 57.40 tiny fractures filled with py, po											
50.50 - 50.70 f.gr sphalerite + galena seen with py in fractures		52	55	3	166	1	1	97	640	32	0.4
54.50 - 57.40 po content increases as coarse stringers of fracture fillings		55	58.21	3.21	167	2	1	11	38	90	0.1
57.40 - 59.10 massive f.gr. pods of pyrite throughout graphitic unit. pyrrhotite pods in ser. sch.		58.21	61.0	2.79	168	2	1	15	69	73	0.1
59.10 - 65.80 f.gr cubes of pyrite and massive pods and fracture fillings of pyrrhotite throughout		61	64	3	169	1	1	8	56	94	0.1
62.20 - 62.30 fractures filled with po and py		64	67	3	170	1	0.1	10	48	68	0.1
65.80 - 67.90 coarse gr. py along gtz veinlets and segregations		67	70	3	171	8	1	14	82	61	0.1
67.90 - 74.10 massive po and lesser py along margins of gtz veinlets		70	73	3	172	115	1	16	39	81	0.1
69.55 - 69.65 massive po + py as fracture coatings		73	76	3	173	2	1	85	210	81	0.7
74.10 - 76.85 pyrite + po within gtz veinlets of graphitic sch.		76	79	3	174	3	1	10	42	45	0.1
75.30 - 75.45 massive f.gr. py and po gtz-calcite veinlet with f.gr. galena		79	82	3	175	12	1	11	19	224	0.1
76.85 - f.gr. pods of py and po throughout silicified sch		82	85	3	176	11	1	10	52	250	0.1
80.80 - 80.90 fractures filled with po and py		85	88	3	177	10	1	16	40	257	0.1
81.70 - 82.0 massive fracture fillings of po and lesser py											
88.50 - 89.40 several gtz-calcite fuchsite veinlets. f.gr. speck of moly seen with py cube											

PAGE 3 OF 3

PROJECT: STERLING

HOLE NO. 81 - 1

DRILL LOG

PROJECT STERLING	GROUND ELEV. 551m (1808 ft.)
HOLE NO. 81-4	BEARING DUE NORTH
LOCATION COORDINATES FROM LEGAL CORNER POST 251m West } STERLING NO. 3 42m South }	DIP -60°
LOGGED BY D. BOHME Dennis Bohme	TOTAL LENGTH 106.68 m (350 ft.)
DATE MAY 5, 1981	HORIZONTAL PROJECT 56m
CONTRACTOR HERB ALLEN	VERTICAL PROJECT 91m
CORE SIZE BQ	ALTERATION SCALE
DATE STARTED MAY 4, 1981	0 1 2 3 absent slight moderate intense
DATE COMPLETED MAY 6, 1981	TOTAL SULPHIDE SCALE
DIP TESTS 48m (157.5 ft) 57.5° 106.68 m (350 ft) 59°	0 1 2 3 4 traces only < 1% 1% - 3% 3% - 10% > 10%
COMMENTS GENERALLY POOR DRILLING CONDITIONS - hole cave in and squeezing	LEGEND

PAGE 1 OF 3

PROJECT: STERLING

HOLE NO. 81-4

PAGE 1 OF 3	PROJECT: STERLING							HOLE NO. 81-4			
MINERALIZATION DESCRIPTION	TOTAL SULPHIDE	SAMPLES			SAMPLE NUMBER	ASSAYS					
		FROM	TO	WIDTH		Mo	W	Ph	Zn		
6.1 - 19.40 Overall gtz veinlets quite barren. Occasional py or po clst along gtz veinlet margins		6.1	10	3.9	184	1	1	8	168	32	0.1
8.10 - 8.25 sparse clots of py along feldspar phenocrysts		10	14	4	185	1	1	7	59	24	0.1
15.25 med gr clst of py within gtz - feldspar matrix		14	17.67	3.67	186	1	1	7	39	37	0.1
16.70 - 17.10 spcs of py associated with tiny fractures		17.67	21.0	3.33	187	1	1	10	56	46	0.1
19.40 - 25.10 minor py with gtz - calcite veinlets + segregations		21.0	23.5	2.5	188	1	1	9	44	51	0.1
24.68 - 25.10 massive cubes of pyrite in gtz - calcite rich vein <2cm wide		23.5	26.4	2.9	189	10	1	37	75	56	0.5
25.10 - 26.40 sparse f.gr cubes of py within bleached out matrix of siliceous sch		26.4	29.0	2.6	190	3	1	6	53	57	0.1
26.40 - 27.43 f.gr pyrite in places		29	33	4	191	2	1	8	33	38	0.1
27.43 - 29.20 fine to med gr blobs of po in ser altered sections		33	36	3	192	1	1	3	38	40	0.1
29.20 - 31.20 f.gr clots of py in gtz veinlets		36	39	3	193	1	1	5	37	38	0.1
31.30 - 36.80 minor f.gr py in gtz and gtz - calcite veinlets		39	42	3	194	1	1	8	27	51	0.1
32.0 ; 5cm wide displaced gtz - calcite - feldspar - py vein		42	45	3	195	1	1	5	25	29	0.1

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PROJECT: STERLING

HOLE NO. 81-4

DEPTH (m)	% CORE REC	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION					FRACTURE INTENSITY	% VEIN QTZ.
					BLD A	SER B	SIL C	CHLOR D	M		
50				45.70 - 46.40 mostly siliceous graphite sch with narrow bands of ser sch + narrow gtz-chlorite veinlets (< 2cm wide) 46.40 - 49.40 chloritic musc-sch with narrow bands of ser sch with X-cutting calcite veinlets; Qtz-chlorite-calcite veinlets < 6cm wide with foliation at 40°-50°						30	
55				49.40 - 53.30 FAULT ZONE marked by gtz-graphite, gtz-musc sch fragments; graphitic (black) fault gouge and gtz breccia fragments 53.30 - 56.50 siliceous graphitic sch with a few gtz-calcite + calcite veinlets (< 2cm) at 30°-40° L to S/A						0	
60				56.50 - 61.30 FAULT ZONE marked by missing core, black graphitic gouge and graphite fragments 61.30 - 64.61 black siliceous graphitic sch						0	
65				62.30 - 62.50 FAULT / SHEAR ZONE - broken fragments 63.50 - 64.00 FAULT / SHEAR ZONE - soft sheared fragments 64.61 - 77.0 Massive fault Zone marred by large segments of missing core, black fault gouge and highly broken up gtz and graphitic fragments 66.40 - 66.48 gtz-calcite-py vein (broken up) 69.25 narrow gtz vein (2cm) with X-cutting calcite-py veinlets in tiny fractures						10	
70				71.93 - 72.0 heavily fractured gtz-calcite-feldspar-py vein 74.90 - 74.98 fractured gtz-feldspar-py-calcite vein						20	
75				77.0 - 79.30 siliceous black graphitic sch 79.30 - 82.0 highly silicified ser sch with grey graphitic bands; fine gr. fuchsite in sections						10	
80				80.83 - 81.0 gtz-chlor-py vein; minor calcite 81.5 - 81.65 gtzite with f.gr. py, po and fuchsite 82.0 - 87.30 wavy, creamy textured well silicified sch. Alternating bands of grey to black graphitic sch, the lighter grey due to sericite mixture. White crenulated gtz-calcite-chlor veinlets (< 3cm wide) + segregations, foliation appears to be between 0-10° L to S/A						50	
85				87.30 - 87.70 FAULT / SHEAR ZONE marked by broken fragments and missing core						30	
90				87.70 - 89.75 Crenulated very siliceous graphitic sch with gtz-chlor-calcite veinlets						10	

PAGE 2 OF 3	PROJECT: STERLING								HOLE NO. 81-4		
MINERALIZATION DESCRIPTION	TOTAL SULPHIDE	SAMPLES			SAMPLE NUMBER	ASSAYS					
		FROM	TO	WIDTH		Mo	W	Pb	Zn	Cu	
45.70 - 46.40 minor fgr po + py		45	48	3	196	1	1	7	51	51	Ag
46.40 - 49.40 minor fgr py in gtz-chlorite veinlets											0.1
49.40 - 53.30 some sections of med.gr. pyrite in gtz-graphite sch fragments otherwise quite barren		48	54	6	197	3	1	18	81	58	0.1
53.30 - 56.50 coarse-gr. pyrite dots within siliceous graphite -											
56.50 - 61.30 a few clots of py											
61.30 - 64.61 sections of massive fgr clots of py											
64.61 - 77.0 pods of massive fgr pyrite occurring in faulted sections of graphitic unit. Also areas of fracture filling		69.18	79.30	10.12	198	2	1	34	43	109	0.1
71.93 - 74.98 heavily fractured gtz veins filled by massive fgr pyrite, usually with calcite also											
77.0 - 79.30 py stringers along tiny gtz crenulations											
79.30 - 82.0 altered sections of fgr po and/or py											
82.0 - 87.30 fgr po and/or pyrite within siliceous matrix of graphitic sch; gtz - calcite veinlets are quite barren		79.3	82.0	2.7	199	22	1	8	28	102	0.1
87.30 - 89.75 sparse sections of clots of py. Gtz-chlor veinlets contain only minor amounts fgr py		82	85	3.0	200	4	1	6	43	43	0.2
		85	88	3.0	201	1	1	8	45	30	0.1
		88	91	3.0	202	3	1	14	48	73	0.1

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PROJECT: STERLING

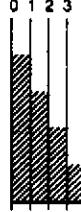
HOLE NO. 81-4

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PROJECT: STERLING

HOLE NO. 81-4

DRILL LOG

PROJECT STERLING	GROUND ELEV. 609.5m (2000 ft.)
HOLE NO. 81-5	BEARING DUE EAST
LOCATION STERLING NO.1 COORDINATES FROM L.C.P. 835m South 570m West	DIP - 60°
	TOTAL LENGTH 106.7 m (350 ft)
LOGGED BY D. BOHME Dennis Bohme	HORIZONTAL PROJECT 51m
DATE MAY 7, 1981	VERTICAL PROJECT 94m
CONTRACTOR HERB ALLEN	ALTERATION SCALE  0 absent 1 slight 2 moderate 3 intense
CORE SIZE BQ	TOTAL SULPHIDE SCALE  0 traces only 1 < 1% 2 1% - 3% 3 3% - 10% 4 > 10%
DATE STARTED MAY 7, 1981	
DATE COMPLETED MAY 8, 1981	
DIP TESTS 48.7 m (160 ft) 61.5° 106.7 m (350 ft) 63°	LEGEND
COMMENTS - good dulling	

PAGE	OF	3	PROJECT: STERLING	HOLE NO. 81-5			
DEPTH (m)	% CORE REC	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION	FRACTURE INTENSITY	% VEIN QTZ
					BIO A SER B C SIL C D CHLOR D	M	
5.1				0.0 - 2.74 CASING			0
				2.74 - 7.01 intermixed bands of tan to light grey calcareous gtz - bio - ser sch; calcareous gtz - chlor - bio sch (broken fragments) and sil - ser - fuchsite sch. 4.0 - 4.15 gtz - feldspar vein. tiny X-cutting calcite veinlets; foliation 1 to 5°		10	
				7.01 - 7.80 FAULT/SHEAR finely broken fragments			0
				7.80 - 9.30 tan / bleached gtz - ser - bio sch with calcite veinlets			10
				9.30 - 10.40 gtz - chlor - ser sch with numerous tiny calcite with foliation 1 to 5° / minor bleached bio.			40
10				10.40 - 11.20 milky white gtz - ser - minor calcite vein			20
				11.20 - 12.0 tan to light brown gtz - ser - bio altered sch			
				12.0 - 15.50 numerous tiny calcite veinlets (< 1cm wide) throughout a chlorite-musc sch with a few sections of bleached chlor - bio - ser alteration			0
				15.50 - 16.15 tan colored, bio - ser - fuchsite altered sch			0
				16.15 - 22.0 Very siliceous fuchsite - ser gtzite; fgr, hard, black mineral dotted irregularly throughout gtzite - not rutile sphalerite ??			10
20				- CORE BADLY broken up in phres + sections missing due to drilling difficulties (small shear??)			0
				19.20 - 22.0 Siliceous graphite encountered			10
				22.0 - 24.40 Siliceous - crenulated graphite sch			
				24.40 - 30.0 Abrupt contact into bleached silicified fuchsite - ser - calcareous gtzite. Extremely broken up + shattered due to small shear zones and calcite break down.			10
				27.50 - 28.0 siliceous graphite sch			0
25				30.0 - 31.30 Siliceous - calcareous graphitic sch			0
				31.30 - 34.30 mixture of calcareous gtz - chlorite - musc sch, bleached sections of calcareous ser - fuchsite sch and calcareous ser - bio - chlor altered sch; calcite veinlets (< 1cm) throughout foliation 0 - 10° 1 to 5°			0
				34.30 - 35.0 gtz - py - calcite - feldspar vein X-cutting foliation at 70° 1 to 5° (3cm wide)			10
30				35.0 - 35.70 broken up, friable tan bio - ser - fuchsite sch			10
				35.70 - 36.70 FAULT / SHEAR ZONE shattered pieces of gtz - bleached sch + missing core			
				36.70 - 39.30 broken up gtz - feldspar - ser - fuchsite - calcite vein			20
				38.60 5cm wide gtz feldspar - py Vein with rutile			
40				37.30 - 51.80 bleached white to light green color dominantly chlor rich sch with complexly intermixed wavy bands fine to coarse set quartz calcite and/or minor feldspar veinlets (< 1cm wide) + segregations generally throughout. A few X-cutting calcite veinlets			10
				45 -			0

PAGE / OF 3	PROJECT: STERLING							HOLE NO. 81-5		
MINERALIZATION DESCRIPTION	TOTAL SULPHIDE	SAMPLES			SAMPLE NUMBER	ASSAYS				
		FROM	TO	WIDTH		Mo	W	Pb	Zn	Cu
4.0-4.15 possible? ribbon streak of pyry										
2.74-7.01 some f.gr pyrite in the fuchsite bearing sch		2.74	7.01	4.27	206	2	1	15	93	65
7.01-10.40 some f.gr cubes of py in tan colored bleached bio-ser sch; f.gr sphalerite in tiny gtz vein Minor f.gr cubes of py in calcareous sch sch		7.01	11.5	4.49	207	1	1	11	67	69
10.41-11.20 minor med gr py along ser altered margins; tiny f.gr black spots in gtz probably rutile?		11.5	15.0	3.5	208	1	1	12	80	95
11.20-12.0 a few py cubes		15.0	22	7	209	12	1	18	114	58
12.0-15.50 occasional pd of f.gr pyrite along X-ripping calcite veinlet										
15.50-16.15 minor f.gr py										
16.15-22.0 f.gr py disseminated throughout bleached gtzite -minir py in siliceous graphite sch		22	25	3	210	7	1	22	228	39
22.0-24.40 f.gr pyrite along tiny gtz veinlets										
24.40-30.0 sections of gtzite with f.gr pyrite		25	30.0	5	211	26	1	100	865	30
30 - 31.30 a few clots of mdgt py		30.0	33.0	3	212	4	1	7	81	77
31.30-34.30 f.gr py along foliation planes of bio-altered sch. Also within gtz calcite margins										
34.30-35.00 coarse-gr py throughout		33	38	5	213	1	1	7	48	33
35.0-35.70 minor f.gr py										
35.70-36.70 minor f.gr py										
36.70-37.30 minor coarse gr dots of py in broken up gtz vein; Possible f.gr moly??		38	41	3	214	1	1	5	71	38
37.30-45.0 f.gr py along fracture planes of gtz veinlets greater than 1cm wide. Minor po seen		41	44	3	215	1	1	11	88	26
										*

PAGE 2	OF 3	PROJECT: STERLING	HOLE NO. 81-5								
DEPTH (m)	% CORE REC	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION					FRACTURE INTENSITY	% VEIN QTZ.
					B10 A	SER B	SG C	DCHIR. D	E		
50				39.10 - 39.20 qtz-feldspar calcite vein with inclusions of fine rutile 41.80 - 41.85 qtz-calcite vein with fracture filled px 45.60 - 45.65 qtz-calcite + feldspar - px vein along foliation which is dominantly 0-10° L to 4/4 46.0 - 48.15 increase in qtz veinlets 48.15 - 48.80 fine black mineral, probably rutile, occurring in hair-line fractures of chlor-ser sch 49.68 - 49.80 qtz-minor calcite vein with fine rutile 51.80 - 52.73 totally bleached silicified ser sch with fine hair-like strings of rutile? in X-cutting fractures; minor feldspar, calcite						10	
55				52.73 - 54.25 partially silicified tan colored bio->ser altered sch with intermixed chlorite; foliation 0-15° L to 4/4 54.25 - 57.60 FAULT ZONE - missing core + broken qtz-ser sch pieces 57.60 - 61.50 partially silicified ser sch with banded brown bio alteration + minor chlorite between 0-10° L to 4/4						20	
60				61.50 - 62.60 Qtz-feldspar-ser-ankerite-fuchsite vein; with hairline fractures filled with rutile 62.60 - 73.76 bleached white ser sch with occasional tiny bands of chlorite and biotite. Tiny fractures throughout sch contain fine calcite and rutile. Small qtz-feldspar and/or, calcite (<1cm wide) veinlets throughout Poorly developed schistosity between 0-10° L to 4/4						10	
65				67.2 - 67.70 silicified ser-sch x-cut by many tiny fractures filled with fine-gr. rutile and calcite. 69.50 - 71.40 ser sch becomes slightly chloritic and less siliceous						10	
70				71.40 - 71.50 FAULT/SHEAR marked by soft gauge + fine fragments 71.50 - 73.0 Well silicified sections with fine rutile and calcite veinlets						50	
75				73.0 - 73.76 SHEAR ZONE marked broken, friable pieces of ser sch 73.76 - 76.0 f.gr crystalline limestone gradually grading into a calcareous-siliceous-ser-py-fuchsite sch 76.0 - 79.0 chlorite msc sch with calcite (minor qtz) veinlets throughout. Crenulated in places giving a wavy texture						10	
80				77.11 - 77.20 qtz-calcite-chlor vein 79.0 - 83.50 bleached white ser sch with a few well silicified sections; minor fuchsite+biotite alteration; a few qtz+qtz-calcite veinlets; foliation between 0-15° L to 4/4						20	
85				83.50 - 89.75 calcite-qtz veinlets throughout a interlayered chlorite-biotite-occasional ser banded schist -sections of wavy crenulations but foliation between 0-10° L to 4/4 88.20 - 88.25 qtz-ankerite rich-chlor veinlet Minor rutile seen in ser altered sections						0	
90				89.75 - 91.0 ALTERED Qtz vein cutting foliation at 45° to 4/4						0	

PAGE 2 OF 3

PROJECT: STERLING

HOLE NO. 21-5

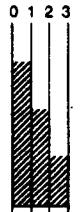
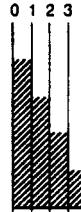
MINERALIZATION DESCRIPTION	TOTAL SULPHIDE	SAMPLES			SAMPLE NUMBER	ASSAYS						
		FROM	TO	WIDTH		Mo	W	Pt	Zn	Cu	As	
46.0 - 48.0 narrow gtz veinlets contain py and/or po clots		44	47	3	216	1	1	4	79	37	0.1	
46.0 - 48.15 coarse-gr py along margins												
49.68 - 49.80 f.gr clots of po along irregular vein margins		47	51	4	217	1	1	7	61	44	0.1	
51.80 - 52.73 f.gr clots of py and po usually with feldspar		51	54.25	3.25	218	1	1	5	58	16	0.1	
52.73 - 54.25 sparse pyrite; barren gtz-chlor veinlets												
54.25 - 57.60 sparse f.gr py		54.25	60.0	5.75	219	1	1	5	44	20	0.1	
57.60 - 61.50 finely disseminated py in sections of silicification												
61.50 - 62.60 fine fractures filled with rutile and clots + stringers of pyrite + po. Possible very f.gr moly?		60	63	3	220	1	1	42	134	38	0.8	
62.60 - 75.50 f.gr py and occasional pods of po usually within fractured gtz-veinlets and fractured ser.sch.												
63.50 narrow, <1cm wide, crosscutting gtz-feldspar-calcite py-po-moly-galena veinlet; f.gr galena and minor moly along ser-feldspar-pr-po altered vein margins.		63	66	3	221	1	1	255	40	27	3.2	
67.2 - 67.70 f.gr pyrite pods		66	69	3	222	1	1	12	49	34	0.2	
73.76 - 76.0 med gr specs of py disseminated throughout crystalline limestone but becomes less + f.gr towards calcareous sch.												
76.0 - 79.0 minor amounts of f.gr pyrite		69	72	3	223	1	1	4	40	25	0.2	
79.0 - 83.50 f.gr py disseminated throughout		72	76	4	224	2	1	11	32	17.005	0.1	
83.50 - 89.75 only minor f.gr py occasionally disseminated in calcareous bio->chlor.sch		76	79	3	225	1	1	11	74	40	0.1	
89.75 - 90.25 f.gr py along arkerite margins		79	83	4	226	8	1	20	117	21	0.1	
		83	86	3	227	1	2	8	61	90	0.1	
		86	89.5	3.5	228	2	1	9	90	74	0.2	

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PROJECT: STERLING

HOLE NO. 81 - 5

DRILL LOG

PROJECT STERLING	GROUND ELEV. 555m (1821 ft.)
HOLE NO. 81-6	BEARING DUE NORTH
LOCATION COORDINATES FROM L.C.P 468m South 110m East	DIP -50°
	TOTAL LENGTH 60.96 m (200 ft)
LOGGED BY D. BOHME Dennis Bohme	HORIZONTAL PROJECT 41 m
DATE MAY 10, 1981	VERTICAL PROJECT 47 m
CONTRACTOR HERB ALLEN	ALTERATION SCALE
CORE SIZE 6Q	 absent slight moderate intense
DATE STARTED MAY 9, 1981	TOTAL SULPHIDE SCALE
DATE COMPLETED MAY 10, 1981	 traces only < 1% 1% - 3% 3% - 10% > 10%
DIP TESTS 115 ft (35m) 53° 200 ft (60.69m) 53°	LEGEND
COMMENTS 60-68m DRILLING DIFFICULTIES - HOLE CAVE IN WITH SAND BLOCKAGE	

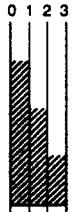
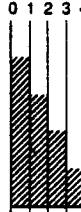
PAGE / OF 2	PROJECT: STERLING							HOLE NO. 81-6			
MINERALIZATION DESCRIPTION	TOTAL SULPHIDE	SAMPLES			SAMPLE NUMBER	ASSAYS					
		FROM	TO	WIDTH		Mn	W	Pb	Zn	Cu Au Ag	
6.20-11.20 - fine-gr. clots of py generally associated with chlorite stringer inclusions		5.20	8.53	3.33	233	1	1	35	20	13	0.6
10.20-11.20 fine to med gr. pods of py along margins of chlorite inclusions and gt± breccia fragments		8.53	12.00	3.47	234	2	1	10	30	42	0.1
12.0-29.20 only occasional f.gr. pods of pyrite associated with narrow gt±-calcite-epidote velelets		12.0	15.0	3	235	1	1	8	104	36	0.1
		15.0	18.0	3	236	1	1	11	110	51 .010	0.1
29.90-39.0 f.gr. clots of py throughout siliceous matrix		28	31	3	237	4	1	10	45	117	0.2
35.80-35.90 massive pods of py		35.5	39.0	3.5	238	1	1	35	62	34 .005	0.2
37.50-37.80 patches of f.gr. pyrite along fractures in gt±		40	43	3	239	1	1	7	52	23 .005	0.1
40.0-45.0 py content increases slightly occurring as f.gr. stringers along poorly developed foliation. Also along gt±-calcite veinlet margins		43	46	3	240	1	1	7	40	28	0.1

PAGE 2 OF 2

PROJECT: STERLING

HOLE NO. 81 - 6

DRILL LOG

PROJECT	STERLING	GROUND ELEV.	731m (2398m)
HOLE NO.	81-7	BEARING	DUE EAST
LOCATION	COORDINATES FROM LEGAL CORNER POST 470m East, 370m North STERLING NO.4	DIP	-70°
LOGGED BY	D. BOHME Dennis Bohme	HORIZONTAL PROJECT	23 m
DATE	MAY 12, 1981	VERTICAL PROJECT	62.0m
CONTRACTOR	HERB ALLEN	ALTERATION SCALE	 absent slight moderate intense
CORE SIZE	3Q	TOTAL SULPHIDE SCALE	 traces only < 1% 1% - 3% 3% - 10% > 10%
DATE STARTED	MAY 11, 1981	LEGEND	
DATE COMPLETED	MAY 12, 1981		
DIP TESTS	30m (98.43 ft) 70.5° 60m (196.86 ft) 70.25°		
COMMENTS	45.0 - 48.0 m slow drilling with a few difficulties due to highly fractured (FAULT) in silicified scist		

PAGE	OF	2	PROJECT:	STERLING	HOLE NO.	81-7	
DEPTH (m)	% CORE REC	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION	FRACTURE INTENSITY	% VEIN QTZ
5				0.0 - 2.43 CASING	BIO A B SER C D CHLOR E	0	
				2.43 - 9.10 Very calcareous chlorite sch with very f.gr magnetite octahedrals throughout; Calcite veinlets throughout; foliation between N-10° E to S/A			
5				3.0 - 4.4 FAULT ZONE marked broken, friable sch			
				6.10 - 9.0 minor gtz segregations and minor f.gr. biotite			
10				9.10 - 11.50 FAULT ZONE marked by rusty, calcareous limonite missing core and clastic calcite-gtz fragments			
				11.50 - 20.10 Mostly very calcareous chlorite - f.gr magnetite schist with a few sections rich in biotite and calcite 12.60 - 12.80 Shear zone - oxidized Calcite occurring as veinlets and as tiny "phenos"			
15				16.65 - 16.77 Calcite-minor gtz vein with tiny magnetite octahedrals-chlorite-py altered margins			
				16.50 - 18.0 A few x-cutting calcite veinlets			
20				18.91 - 18.98 Qtz vein filled with massive, coarse feldspar with tiny fractures filled with calcite, placed in calcareous bio sch		12	
				20.10 - 28.25 interbedded calcareous white colored ser sch, calcareous chlor sch and rusty, iron oxidized sch. Calcite veinlets throughout with occasional gtz segregation with foliation between N-10° to S/A		0	
25				26.90 - 27.20 broken up gtz-chlor-feldspar-calcite vein		0	
				28.25 - 31.20 chlorite sch with fine to med gr magnetite octahedrals throughout; minor tiny calcite veinlets throughout		10	
30				29.75 - 29.80 gtz-calcite-chlor-feldspar vein		0	
				31.20 - 33.0 FAULT marked by broken up, rusty, limonite			
35				33.0 - 38.40 intermixed tanned colored ser-bio altered sch with minor fuchsite, chlorite-bio sch and crenulated bio sch. Qtz-calcite and calcite veinlets throughout <1cm wide; Also numerous x-cutting calcite veinlets somewhat crenulated		0	
				38.40 - 40.10 FAULT ZONE marked by somewhat siliceous-calcareous graphite sch and missing core		10	
40				40.10 - 44.37 silicified ser schist with sections of bleached f.gr feldspar-calcite alteration. Core is badly broken up due to several shears		10	
				43.10 - 44.60 FAULT ZONE - iron oxide staining along several shears, badly broken up core. Poorly developed foliation is L to S/A		10	
45							

PAGE / OF	PROJECT:	STERLING						HOLE NO.			
MINERALIZATION DESCRIPTION	TOTAL SULPHIDE	SAMPLES			SAMPLE NUMBER	ASSAYS					
		FROM	TO	WIDTH		Mo	W	Pb	Zn		
2,43 - 11,50	Very sparse fgr py										
11,50 - 20,10	few sparse fgr py										
16,65 - 16,77	fgr py along chal - ill oxidized margins										
15,90 - 16,75	coarse-gr massive py along chlor-bic altered margins	16	19	3	244	2	1	12	86	74	0.1
20,10 - 25,25	Occasional sections fine to med gr clots of py	19	22	3	245	3	1	9	61	36	0.1
25,75 - 27,20	med-gr py occurring in fractures along chal-calcite altered margins	25	28	3	246	5	1	7	97	73	0.1
28,25 - 31,20	a few clots of py usually along gtz-calcite veinlets less than 0.05 cm wide	28	31	3	247	5	1	2	75	75	0.1
29,75 - 29,80	minor fgr py along margins										
33,10 - 33,20	rusty appearance due to oxidized magnetite and py	33	36	3	248	4	1	8	83	39	0.1
33,0 - 38,40	minor fgr pyrite seen in tan colored sch										
	Bio sch contains med-gr py	36	40.23	4.23	249	6	1	5	69	104	0.2
38,40 - 40,10	fine to med gr py throughout siliceous graphite sch										
40,10 - 49,37	med gr pods of pyrite through silicified ser sch	40.23	45.0	4.77	250	32	1	61	390	15	0.3
	Fine-gr reddish colored sph and galena seen with py + initial calcite										

PAGE 2 OF 2

PROJECT: STERLING

HOLE NO. 81-7

DRILL LOG

PROJECT STERLING	GROUND ELEV. 1950 ft. (604m)
HOLE NO. 81-8	BEARING DUE EAST
LOCATION COORDINATES FROM LEGAL CORNER POST 302 m West, 206 m North STERLING NO. 1	DIP -75°
LOGGED BY D. BOHME Dennis Bohme	TOTAL LENGTH 848 ft. (258.47m)
DATE MAY 22, 1981	HORIZONTAL PROJECT 71 m
CONTRACTOR HERB ALLEN	VERTICAL PROJECT 252 m
CORE SIZE NQ	ALTERATION SCALE  absent slight moderate intense
DATE STARTED MAY 20 th , 1981	TOTAL SULPHIDE SCALE  traces only < 1% 1% - 3% 3% - 10% > 10%
DATE COMPLETED MAY 26, 1981	LEGEND
DIP TESTS 568 ft. (173.11 m) - 73.5°	
COMMENTS MAY 24 DDH caved in ≈ 160 ft after 1 hr (bit change) MAY 26 - DDH caved in while drilling. - mud washed away into rock - rods became stuck at 848 ft. Only last half of hole drilled with mud * Rods broken off (blasted) around 800 ft. mark	

PAGE / OF 6	PROJECT: STERLING								HOLE NO. 81-8	
MINERALIZATION DESCRIPTION	TOTAL SULPHIDE	SAMPLES			SAMPLE NUMBER	ASSAYS				
		FROM	TO	WIDTH		Mo	W	Pb	Zn	
5.48-6.80 - minor f.gr py		7	9	2	253	38	1	9	95	73 .005 0.2
6.80-7.30 tiny f.gr stringers of py along and x-cutting foliation		9	11	2	254	4.67 % MoS ₂	1	3	23	362 .005 0.3
7.30-12.0 f.gr py, moderate pods of py, generally occurring throughout as x-cutting fractures, shear and along qtz veinlets + segregations		11	13	2	255	57	1	5	19	96 .005 0.2
9.40-9.70 massive molybdenite rich vein with py, po inclusions with coarse feldspar, py ser. mica veins altered margins; minor fuchsite. Est. gr between 9-11% MoS ₂		13	15	2	256	198	1	9	37	65 .005 0.3
13.0-14.0 Possible f.gr galena and sphalerite with rutile; minor py, po; minor specs of moly		15	18	3	257	8	1	13	59	48 .005 0.3
17.0-22.55 pyrite-po content of sil. sch. starts off occurring within tiny fractures foliation planes of cor. sch.		18	20	2	258	6	1	9	44	27 .005 0.2
22.55-26.0 f.gr py along foliation planes of coarser ser-chlor sch		20	22.6	2.6	259	4	1	20	23	100 .005 0.4
26.0-27.10 fine gr py disseminated throughout		22.6	25.0	2.4	260	4	1	12	36	30 .005 0.2
27.10-27.50 fine to coarse pyrite → po alteration within numerous fractures - possible f.gr sph-galena seen in vein		25.0	28.0	3.0	261	7	1	278	71	45 .005 1.5
27.50-30.0 f.gr py within silicified matrix		28.0	31.0	3.0	262	20	2	233	125	64 .005 0.4
30.0-43.50 fine to med gr py throughout the siliceous matrix and as small fracture fillings		31.0	35.40	4.40	263	91	2	933	227	6 .005 0.8
35.40-37.60 f.gr pods of moly + galena seen within faulted fragments of white-feldspar ser altered sch and within sil-ser-fuchsite-py sch. Est. gr 35.40-38.0 0.15% MoS ₂		35.40	38.0	2.60	264	0.129 % MoS ₂	1.02	135	578	.ms 0.43
38.0-39.40 highly feldspar altered zone with sections of massive py pods within sil matrix and as fracture fillings within feldspar-calcite matrix. Fine gr moly associated fractured filled py, along qtz-ser-feldspar-fuchsite margins. Est. gr 38-40 0.02% Mo ₂		38.0	40.0	2.0	265	73	2	425	155	104 .ms 1.9
40-43.80 f.gr py throughout matrix with occasional coarse-gr. pod in fracture		40.0	43.0	3.0	266	13	2	67	208	88 .005 0.5
		43.0	45.0	2.0	267	5	1	10	67	96 .ms 0.4

PAGE 2 OF 6	PROJECT: STERLING	HOLE NO. 25-8					
DEPTH (m)	% CORE REC	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION	FRACTURE INTENSITY	% VEN QTZ.
43.80 - 58.0				Wavy - crenulated intermixed bands of calcite veinlets (< 1cm wide), chlorite sch with occasional biotite alteration and graphite layers.	BIO A		10
50				46.0 - 46.50 FAULT / SHEAR ZONE; friable sch	SER B		10
50.60 - 50.65				50.60 - 50.65 qtz - calcite vein with chlorite altered margins. Crenulations disappear, foliation 0-10° L to c/a	SIL C		10
50.70 - 51.0				50.70 - 51.0 FAULT ZONE marked by soft gouge + friable sch	CHL OR D		0
55				Overall, chlorite sch is very calcareous with the occasional narrow qtz segregation.			10
53.0 - 54.0				53.0 - 54.0 chlor sch becomes quite crenulated.			10
54.0 - 58.0				54.0 - 58.0: increase in ser and sil content noted with calcite decreasing somewhat in sections			10
58.0 - 60.80				58.0 - 60.80 Calcareous qtz - ser - chlor - fuchsite sch			0
58.80 - 59.10				58.80 - 59.10 several qtz-feldspar-calcite segregations			20
60				60.80 - 61.20 Siliceous graphite sch			
61.20 - 68.80				61.20 - 68.80 Bands of sil-ser-cal sch, qtz-ser-ankerite-fuchsite-bio sch and white-feldspar-ser altered sch.			10
65				Quite wavy in sections with poor foliation between 20°-30° L to c/a. 63.10 - 63.50			30
				badly fractured + sheared qtz-feldspar-calcite-ser-fuchsite-rutile vein			30
63.60 - 64.0				63.60 - 64.0 FAULT with highly fractured qtz-feldspar-calcite-fuchsite remnants. 65.50 - 66.30 FAULT			30
68.40 - 68.80				68.40 - 68.80 FAULT; friable altered sch fragments			80
68.80 - 69.60				68.80 - 69.60 Qtz vein with minor feldspar + calcite cutting foliation at 50° to c/a			
69.60 - 71.50				69.60 - 71.50 Qtz-ser-calcite-fine gr fuchsite sch with foliation 0-10° to c/a			80
70				70.60 1cm wide qtz-feldspar vein X-cutting foliation at 60° to c/a			
71				71.50 - 72.50 Qtz-ser-feldspar-calcite vein X-cutting at 80° L to c/a			0
72.50 - 75.20				72.50 - 75.20 Qtz-ser-calcite-fine gr fuchsite sch with foliation 0-10° L to c/a; 75.10 X-cutting qtz-calcite vein 5mm wide at 70° L to c/a. Thin bands of sil graphite also present			10
75.20 - 76.20				75.20 - 76.20 highly bleached sil-ser-fuchsite sch			10
76.20 - 86.90				76.20 - 86.90 Calcareous qtz-chlor-ser schist foliation L to c/a			
79.20 - 79.23				79.20 - 79.23 Calcite, minor qtz-segregation with several fine-gr. black breccia islands of unknown mineral? (allanite)			70
81.90 - 82.90				81.90 - 82.90 qtz vein running along c/a with islands of feldspar, calcite, ser + minor fuchsite			10
82.90 - 86.90				82.90 - 86.90 several small calcite + qtz calcite segregations. More ser + sil in sections			10
86.90 - 93.80				86.90 - 93.80 Siliceous graphite sch with minor bleached qtz-ser bands, qtz veinlets + calcite veinlets. Crenulated foliation between 0-20° L to c/a			10
90							

PAGE 2 OF 6

PROJECT: STERLING

HOLE NO. 8/-8

MINERALIZATION DESCRIPTION	TOTAL SULPHIDE	SAMPLES			SAMPLE NUMBER	ASSAYS						HOLE NO.	
		FROM	TO	WIDTH		Mn	W	Pb	Zn	Cu	Au	Ag	
43.80 - 58.0 minor f.gr pyrite and/or pyrrhotite occasionally seen in tiny fractures with calcite													
50.60 - 50.65 massive f.gr pyrrhotite and lesser pyrite along chlorite-calcite altered vein margins		50	52.5	2.5	268	4	1	8	67	86		0.3	
58.80 - 60.80 f.gr py in gtz-feldspar calcite segregations													
60.80 - 61.20 mod f.gr py													
61.20 - 68.80 fine to med gr pods of pyrrhotite generally throughout altered matrix. Fine gr py also seen, occasional py → po alteration		58.0	60.35	2.35	269	3	2	7	108	204		0.4	
63.10 - 63.50 massive f.gr po, minor py along gtz-feldspar-calcite altered margins		63.35	62.5	2.15	270	5	2	62	143	225	.005	2.1	
63.50 - 65.0 Possible f.gr ribbon streaks of moly, particularly in feldspar rich fault fragments. Some coarse-gr. weathered (in calcite veinlets) rutile appears to be present?		62.5	64.5	2.0	271	6	3	80	159	453	.010	3.2	
65-68.80 pyrite content increases with po		64.5	67.0	2.5	272	4	2	402	193	253	.010	11.7	
68.80 - 69.60 fractured margins contains massive po + minor py, calcite + feldspar alteration		67.0	70.0	3.0	273	4	1	452	161	173	.015	16.9	
69.60 - 71.50 fine-gr po + py disseminated in tiny fractures		70	72.54	2.54	274	8	4	169	2677	240	.005	4.7	
71.50 - 72.50 massive po + sph in small fractures		72.54	75.0	2.46	275	5	1	12	128	182	.005	0.6	
72.50 - 75.20 fine gr pyrite generally throughout, minor po		75.0	72.0	2.0	276	4	2	276	80	84	.005	2.1	
75.20 - 76.20 f.gr pods of pyrite generally throughout		79.0	81.0	2.0	277	4	2	20	141	142	.005	0.7	
76.20 - 86.70 f.gr py associated with narrow gtz calcite segregations and veinlets. 79.20 - 79.25 f.gr py along calcite margins. 81.90 - 82.90 fine to med gr clots of po along gtz-ser margins and tiny fractures. Minor py		81.0	83.0	2.0	278	4	2	30	67	109	.005	1.3	
82.90 - 86.90 sparse f.gr pyrite		83	85	2.0	279	4	2	6	87	112	.010	0.4	
86.90 - 93.80 f.gr pods of py within siliceous graphitic matrix		86.5	89.0	2.5	280	11	1	57	142	46		2.3	

PAGE	3	OF	6	PROJECT: STERLING	HOLE NO. 81-8				
DEPTH (m)	% CORE REC	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION				
					A	B	C	D	E
					BIOT	SER	SIL	CHLOR	
95				90.50 - 90.65 bleached ser altered band with narrow gtz-feldspar calcite veinlet					0
				92.0 - 93.80 FAULT ZONE; finely ground sil graphite fragments, missing core and gtz-ser pieces					20
95				93.80 - 98.20 Well silicified, bleached ser sch with intermixed tan colored, bio altered sil sch, thin bands of fuchsite + ankerite + a few gtz-calcite and/or feldspar veins < 5cm-wide with the foliation @ 0-10° 1 to 9/A. Minor rutile in tiny fractures also					20
100				98.20 - 105.60 ser sch becomes slightly coarser-grained and less silicified. Calcite, chlor content increases somewhat along with wavy crenulations. A few narrow gtz-calcite-feldspar veins seen along foliation					10
105				105.60 - 106.0 fractured ser-feldspar-bio-fuchsite altered gtz vein at 60° to 9/A					30
				106.0 - 106.70 sil ser sch, broken up pieces					0
				106.70 - 107.30 FAULT GOUGE with broken/sheared fragments					10
110				107.30 - 114.0 moderately to well silicified ser to musc with some bio sch. Slightly chloritic bands of gtzite also intermixed. Small segregations of calcite also present throughout; minor fuchsite					0
				110.25 - 110.60 FAULT / SHEAR ZONE - broken friable sch. Overall crenulated foliation between 0-30° to 9/A					10
115				114.0 - 118.50 Well silicified, calcareous, bleached ser sch with a few feldspar-calcite-py-fuchsite altered sections. 116.0 - 116.50 several tiny gtz-feldspar veinlets 2-5mm wide X-cutting sil ser foliation at 70° 1 to 9/A. Foliation of sil ser sch between 0-20° 1 to 9/A					30
120				118.50 - 127.40 moderately siliceous graphite sch with numerous gtz-calcite veinlets and segregations					20
				129.0 - 130.0 FAULT ZONE - broken + missing core					0
125				126.20 - 126.90 FAULT - ground up + missing core (very calcareous)					20
				126.50 - 126.90 sil ser sch with gtz calcite segregations. Foliation between 0-10° 1 to 9/A					10
130				127.40 - 131.50 moderately siliceous ser to musc schist. Wavy crenulations throughout with gtz calcite veinlets + segregations throughout					30
				130.45 - 130.60 gtz vein with feldspar-ser-py-calcite altered margins at 10° 1 to 9/A					20
135				131.50 - 137.90 Graphitic sch with frequent gtz-calcite veinlets					20
				132.30 - 133.50 FAULT / SHEAR ZONE marked finely ground graphite sch					0
				134.60 - 135.50 FAULT ZONE - friable sch; 134.40 - 134.55 several gtz-calcite-dolomite? veinlets with possible fine-gr feldspars in crenulated graphite sch					20

PAGE 3 OF 6	PROJECT: STERLING							HOLE NO. 81-8		
MINERALIZATION DESCRIPTION	TOTAL SULPHIDE	SAMPLES			SAMPLE NUMBER	ASSAYS				
		FROM	TO	WIDTH		Mo	W	Pb	Zn	Cu Au Ag
90.50 - 90.65 f.gr py in gtz veinlet										
92.0 - 93.80 some coarse py in gtz- ser + graphic fragments		89	91	2	281	9	1	20	248	56 0.5
93.80 - 98.20 fine to coarse py pods seen in more bleached feldspar altered sections - occasional f.gr po / gtz veins quite bare		92	95.0	3	282	6	1	30	138	78 0.5
		95	97.0	2	283	3	1	3	63	25 0.1
98.20 - 105.60 occasional py along small stringers. A few po pods are seen along ser-calcite altered vein margins. Minor po + py seen within crystallized sch matrix		97.0	99.0	2	284	10	1	4	79	39 0.2
		99	101	2	285	4	1	3	54	52 0.2
		101	103	2	286	3	1	4	58	35 0.1
105.60 - 106.70 small fractures filled with po and/or pyrite		103	105	2	287	4	2	21	133	62 0.2
106.0 - 106.70 o few po pris		105	108	3	288	3	1	252	122	116 1.5
107.30 - 114.0 fine-gr py throughout po developed foliation with the occasional massive clst; minor po		108	111	3	289	5	1	15	125	231 0.3
		111	113	2	290	3	1	9	36	304 0.4
114.0 - 118.50 f.gr usually massive stringers + pods of pyrite throughout		113	115	2	291	6	1	17	23	36 0.1
114.70 - 114.82 Massive f.gr py vein in siliceous-calcereous ser sch matrix		115	117	2	292	8	2	40	51	9 .005 0.3
115.70 - 116.20 possible f.gr ribby streaks of py with massive f.gr stringers of py in laterally sulfified section		117	119	2	293	16	2	37	17	26 0.4
116.50 - 127.40 some py-po alteration noted at contact of graphite + sil ser sch. Fine-gr pods of py throughout graphite unit		119	123	4	294	3	2	16	44	46 0.5
126.50 - 126.90 f.gr po + py seen throughout. Qtz - calcite veinlets generally quite barren		123	126	3	295	5	1	12	74	64 .005 0.4
127.40 - 131.50 f.gr po, minor py disseminated throughout along feldspar bands		126	128	2	296	7	1	6	66	59 0.5
130.45 - 130.60 fine to med or py+po within fractures in vein margins		128	130	2	297	2	1	6	49	39 0.1
131.40 - 137.90 f.gr py throughout w/ occasional massive clump up to 2cm wide		130	132	2	298	2	1	4	23	91 2.5
131.40 - 134.55 massive pods of py near vein margin		132	134.55	2.55	299	1	1	15	32	66 0.3

PAGE 4 OF 6 PROJECT: STERLING HOLE NO. 81-8

PAGE 4 OF 6	PROJECT: STERLING							HOLE NO. 81-8			
MINERALIZATION DESCRIPTION	TOTAL SULPHIDE	SAMPLES			SAMPLE NUMBER	ASSAYS					
		FROM	TO	WIDTH		M _g	W	Pb	Zn		
126.35 - 137.10 fgr py matrix along silicified ser altered vein margins		134.55	137.50	2.95	300	3	1	9	41	55	0.2
137.90 - 143.55 Very sparse py not seen. Very fgr on in a couple of gtz-calcite veinlets		137.5	140.2	2.7	301	1	1	7	57	25	0.2
143.55 - 145.44 sparse fgr clots of py		141.2	143	2.8	302	4	1	12	46	58	0.2
145.44 - 148.0 fine gr py throughout		143	145.20	2.70	303	3	1	6	53	45	0.2
146.10 - 146.50 three highly altered gtz feldspar-py-po altered bands (veins) < 2cm wide. Some fine to med gr ribbony streaks of moly within gtz-feldspar-py-po fractures Est. gr 145.70 - 147.0 0.05% M _{S2}		145.70	147.0	1.30	304	293	1	10	37	134	0.3
147.0 - 164.40 fine to med gr clots of py within small fractures of graphite sch		147	150	3	305	3	1	9	51	152	0.4
150.80 - 150.95 fine gr py present		150	155	5	306	6	1	12	49	106	0.3
157.40 - 157.52 fgr py of po in gtz vein		155	158	3	307	2	1	10	31	103	0.2
158.25 - 158.90 fine to coarse gr py irregular sil ser schist with a few po pods (py → po alteration) visible sph + adams		158	160	2	308	520	3	753	374	125	4.5
159.35 - 159.50 py rich sil sch with a fine-gr ribbony streak of moly		160	165	5	309	3	1	11	100	74	0.3
164.40 - 166.90 sparse to med fgr py in gtz veinlets		165	168	3	310	3	1	17	86	67	0.3
166.90 - 168.0 massive clots of py in gtz-calcite-ser matrix Possible fgr moly?											
168.0 - 171.0 A few massive clots of py but mostly fgr throughout		168.0	170	2	311	1	1	5	115	50	0.4
171.0 - 173.0 f.gr stringers of py, with occasional massive clot		170	172.50	2.5	312	1	1	20	62	103	0.4
175.0 - 181.0 occasional coarse gr py cube in the broken up-friable core		175.30	176.0	5.5	313	3	1	13	25	190	0.3

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PROJECT: STERLING

HOLE NO. 81-8

DEPTH (m)	% CORE REC	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION					FRACTURE INTENSITY	% VEIN QTZ
					BIO A	SER B	CIL C	CHLOR D	E		
185				175.0 - 189.10 sil ser-chlor sch; minor fuchsite 179.0 - 181.35 FAULT; frably badly sheared sch 181.35 - 188.36 increase in gtz veinlets and silicification of ser sch. Moderate feldspar and calcite alteration added gtz Veinlets which are with the poorly developed foliation, generally $0-20^\circ$ I to C/A 188.36 - 189.10 Well sil sch with calcite-ser-bis alteration; minor chlorite + felspar						30	50
190				189.10 - 191.10 FAULT Bleached sil ser → bis sch with feldspar-calcite breakdown gauge 191.10 - 192.0 tan colored feldspar rich, saussuritized epidote, gtz-ser altered INTRUSIVE; minor calcite						40	50
195				192.0 - 215.0 META OR MELANO-DIORITE (calcareous) 192.0 - 196.0 sections of gtz-calcite veinlets and segregations up to 10cm wide with chlorite and/or epidote sericite and f.gr reddish brown mineral (weathered hematite) along altered margins 195.0 - 197.10 Badly broken up core due to shears and small fault zones throughout. 197.0 - 197.5						0	0
200				Section of chlor-bio-sakelite sch 197.5 - 206.85 Biotite-calcite rich meta-diorite with ~10% gtz "eyes" and minor ser-chlor, epidote, hematite and dolomite veinlets. X-cutting dolomite veinlets with bleached ser altered margins						10	0
205				203.0 - 206.0 FAULT - sheared calcite-hematite veinlets; broken + missing core. 206.85 - 209.0 sharp increase in epidote content and decrease in biotite due to saussuritization of feldspars; 60% epidote, 30% bio and 10% feldspar, calcite + gtz. 209.0 - 211.0 Epidote content drops off to almost nil. Core is badly sheared with hematite "streaks" + calcite throughout 211.0 - 215.0 Slight increase in epidote-calcite + biotite rich with the occasional gtz-calcite rich veinlet.						10	0
210				215.0 - 218.30 FAULT ZONE - offsetting meta-diorite and altered, bleached/dolomitized ser-rich, f.gr fuchsite, gtz-calcite schist (very poor foliation). Fault gauge also; fine gtz-calcite veinlets also seen						0	0
215				218.30 - 221.0 slightly more siliceous with calcite increasing with biotite content						10	10
220				220.30 - 221.40 FAULT - Badly broken + sheared bleached sch 221.40 - 223.6 calcareous meta-diorite with included remnant bands of bio+chlor-calcite schist 223.5 - 223.57 gtz-calcite-chlor-bin vein						0	10
225				223.6 - 224.0 FAULT sheared + fractured meta-diorite							

PAGE 5 OF 6	PROJECT: STERLING							HOLE NO. 81-8					
MINERALIZATION DESCRIPTION	TOTAL SULPHIDE	SAMPLES			SAMPLE NUMBER	ASSAYS							
		FROM	TO	WIDTH		Mn	W	Pb	Zn	Cu	Au	Ag	
181.0 - 188.36 fine to med gr py, occasionally massive pods, along narrow gtz veinlets; often associated with calcite		178	182	4	314	3	1	6	32	104	0.1		
		182	184.5	2.5	315	6	1	9	14	123	0.1		
185.85 - 186.0 massive section of pyrite altered to f.gr magnetite within siliceous matrix of sch		184.5	186.0	1.5	316	126	1	4	7	391	0.2		
188.36 - 189.10 med.gr pods of py associated with calcite		186.0	189.0	3.0	317	22	1	8	36	713	0.7		
189.10 - 191.10 f.gr py strings in fractures		189.0	192.4	3.4	318	20	1	12	55	315	0.4		
191.10 - 192.0 med.gr py along small gtz veinlets		192.4	192.7	3.6	319	1	1	5	48	20	0.2		
192.0 - 197.10		196.2	200.60	4.4	320	7	1	15	52	88	0.4		
Very sparse py		202	206	4.0	321	1	1	20	68	37	0.4		
197.10 - 206.85 same f.gr pods of py within calcite vein		210	212	2.0	322	1	1	5	46	34	0.2		
206.85 - 215.0 no sulphides visible		215	218.5	3.5	323	10	1	12	53	28	0.3		
215.0 - 218.30 fine-gr py in small clots generally throughout. Possible f.gr galena + sphalerite also??		218.5	221.3	2.8	324	7	1	10	52	64	0.3		
218.30 - 221.0 py content drops off		221.3	223.7	2.4	325	8	1	7	75	79	0.3		
221.0 - 223.6 very minor f.gr py in gtz-calcite-chlor-bio vein													

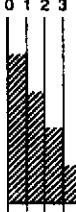
PAGE 6 OF 6	PROJECT: STERLING	HOLE NO. 81-8					
DEPTH (m)	% CORE REC	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION	FRACTURE INTENSITY	% VEIN QTZ
230				224.0 - 230.6 Calcareous biotite-metadiorite with a feldspar-epidote-gtz matrix, minor chlor. Frequent calcite-epidote veinlets seen.	BIO A B SER C D CHLOR E	10	
				226.4 - 226.60 gtz-calcite segregation, 1.05cm wide, X-cutting calcite-epidote veinlet		0	
				229.0 - 229.75 FAULT/SHEAR ZONE - badly fragmented			
				230.6 - 230.9 FAULT - hematite rich shears + broken core			
				230.9 - 245.0 Very calcareous bio metadiorite with a slight to moderate, chlor-ser matrix. Epidote only occasionally seen in a few short sections with ser-calcite bleaching. Some gtz veinlets, < 1cm wide, seen with chilled, unaltered margins		10	
				239.95 - 240.0 calcite-gtz vein with epidote rich margins		0	
				241.0 - 245.0 gtz "eyes" more apparent with calcite		10	
				242.35 - 242.55 Bleached gtz-ser-calcite rich zone.		0	
				245.0 - 246.70 Pelitic schist with gtz "eyes". Slight schistose texture developed with bio+chlor. Calcite throughout. Two gtz-calcite veins <10mm wide seen with ser-chlor-bio margins.		20	
				246.70 - 248.05 Very siliceous, minor calcite, chlor-bio-ser schist; poor foliation developed		0	
				248.05 - 248.14 gtz-calcite vein with chlor-ser margins		20	
				248.14 - 249.32 intermixed gtz-pelitic-bio sch and gtz-calcite-chlor-bio-ser sch		0	
				249.32 - 250.0 FAULT/SHEAR ZONE - broken core fragments		10	
				249.50 - 258.47 Meta-diorite - moderately rich in epidote + feldspar + calcite; minor gtz; small shear with hematite coatings. A few small gtz vein + to c/a with chlor-epidote-calcite altered margins.		10	
				258.47 EDH		0	
260							
265							
270							

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PROJECT: STERLING

HOLE NO. 81-8

DRILL LOG

PROJECT	STERLING	GROUND ELEV.	531.5m (1744 ft)
HOLE NO.	81-9	BEARING	DUE EAST
LOCATION	COORDINATES FROM LEGAL CORNER POST 205m North 602m West } STERLING NO. 1	DIP	- 75°
LOGGED BY	D. BOHME Dennis Bohme	HORIZONTAL PROJECT	73m
DATE	JUNE 1, 1981	VERTICAL PROJECT	224m
CONTRACTOR	HERB ALLEN	ALTERATION SCALE	 absent slight moderate intense
CORE SIZE	NQ	TOTAL SULPHIDE SCALE	 traces only < 1% 1% - 3% 3% - 10% > 10%
DATE STARTED	MAY 31, 1981	LEGEND	
DATE COMPLETED	JUNE 8, 1981		
DIP TESTS	250 ft. (76.2m) 500 ft. (152.39m) 747 ft. (227.67m)	- 73° - 70° - 70°	
COMMENTS	ENTIRE HOLE DRILLED WITH MUD - SLOW DRILLING + SQUEEZING at 350 ft (106.6m) due to major fault - SLOW DRILLING, CAVE IN + SQUEEZING AT 750 ft (228.6m) due to major fault zone * 21.94m of casing put down at -65° (wrong angle set by Driller). Six feet of core was drilled (27.77m) before mistake was corrected.		

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PROJECT: STERLING

HOLE NO. 81-9

PAGE 1 OF 6

PROJECT: STERLING

HOLE NO. 81-9

MINERALIZATION DESCRIPTION	TOTAL SULPHIDE	SAMPLES			SAMPLE NUMBER	ASSAYS						
		FROM	TO	WIDTH		Mo	W	Ph	Zn	Cu	Au	Ag
21.03 - 25.90 f.gr py throughout usually along tiny gtz - calcite veinlets		21.40	23.70	2.30	335	2	1	7	41	33	0.2	
25.90 - 28.70 fine to med gr pods throughout silicified matrix. Possible f.gr galena in sil ser sch sections		23.70	26.0	2.30	336	8	1	98	55	39	1.0	
28.70 - 41.50 fine to med.gr pyrite throughout silicified. A few leached sections contain f.gr pods of galena. Occasionally seen within tiny calcite-gtz-py veinlets		27.43	30.0	2.57	338	3	1	75	267	59	1.1	
34.60 - 35.10 Some med-gr galena with fine to coarse py cubes along several sheared calcite rich gtz veinlets		30.0	33.0	3	339	68	1	209	111	39	.005	0.2
39.70-40.3 fine gr clusters of galena + sphalerite along small gtz - calcite - py fuchsite segregations, fractures + veinlets		33.0	38.10	5.10	340	137	1	1738	148	4	.005	0.2
41.50 - 42.45 A few fine-gr py clots		38.10	44.0	2.9	341	40	1	603	583	2		0.2
42.45 - 45.0 sections of fine-gr py laminated with siliceous matrix. Fine-gr blue/grey spots commonly seen; probably galena and/or sphalerite; minor rutile?		41.0	43.0	2.0	342	17	1	69	80	32	.005	0.3
		43.0	45.70	2.7	343	16	1	24	156	3	.005	0.1

PAGE 2 OF 6	PROJECT: STERLING								HOLE NO.-81-9	
MINERALIZATION DESCRIPTION	TOTAL SULPHIDE	SAMPLES			SAMPLE NUMBER	ASSAYS				
		FROM	TO	WIDTH		Mo	W	Pb	Zn	
45.0 - 50.25 slight increase in disseminated pyrite, decrease in probable galena pods		45.70	48.0	2.30	344	19	1	30	245	3 .005 0.1
49.3 Massive f.gr py - calcite veinlet; up to 1cm wide		48	50.25	2.25	345	15	2	44	81	47 0.6
50.0 - 50.25 med. pods of py with feldspar - calcite matrix		50.25	54.0	3.75	346	5	1	16	125	30 0.3
51.25 - 51.55 some fine to med gr py										
51.55 - 53.40 med gr clots of py in gtz veins		54.0	56.40	2.4	347	3	1	12	79	81 0.9
53.40 - 60.50 minor f.gr py throughout with some coarse py within graphitic bands		56.40	59.0	2.6	348	5	2	16	79	52 0.8
60.50 - 62.20 Some med gr pyrite in small calcite - gtz veinlets. Med to coarse - gr pods of pyrrhotite within small fractures of calcite - chbr vein margins		59.0	61.0	2.0	349	6	1	18	97	88 1.2
62.10 - 63.0 f.gr py throughout fault zone		61.0	63.4	2.4	350	5	1	8	105	45 0.3
63.0 - 64.61 minor f.gr pyrite										
64.61 - 65.25 stringers of f.gr. py along gtz veinlet fractures; possible f.gr streaks of moly?		63.4	67.4	4.0	351	10	2	65	120	53 .005 0.2
65.25 - 69.20 f.gr to med gr pods of py with small gtz - feldspar - calcite veinlets										
69.20 - 70.70 sparse f.gr pyrite		67.4	70.65	3.25	352	3	1	11	78	35 0.2
70.70 - 81.60 fine to med gr py usually associated with bleached, silicified zones and a few gtz veinlets + segregations		70.65	73.0	2.35	353	4	1	11	62	35 0.2
73.0 - 73.30 med gr stringers of py in fractures Possible f.gr moly or galena		73.0	75.0	2.0	354	3	1	11	57	34 0.1
74.30 - 74.50 f.gr py throughout calcite fractures		75.0	77.0	2.0	355	3	1	14	87	66 0.1
78.0 - 79.30 fine to med gr, occasionally massive stringers of py. Small section of massive py-po alteration. 78.70 - 81.60 med gr pods of py + po within crenulated fractures		77.0	79.0	2.0	356	9	2	18	81	324 0.6
81.60 - 82.0 med.gr py pods throughout		79.0	81.6	2.6	357	10	1	44	55	133 0.3
82.0 - 85.0 sparse f.gr pyrite										
85.0 - 86.60 A few med gr py pods in calcite		81.6	84.0	2.4	358	2	1	27	46	52 0.4
86.60 - 91.70 med gr pods of py associated with narrow crenulated gtz - calcite veinlets		84	87.80	3.8	359	3	1	9	46	40 0.2

PAGE	3	OF	6	PROJECT: STERLING		HOLE NO. 81-9					
DEPTH (m)	% CORE REC	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION					FRACTURE INTENSITY	% VEIN QTZ
					BIO A	BSFR B	CSPK C	DCHLOR D	E		
87.50				87.50 - 94.65 Graphite schist often crenulated with segregated calcite + gtz - calcite veinlets						10	
91.70				91.70 - 92.0 partially bleached gtz-ser-calcite band with narrow gtz-calcite-fuchsite veinlet						0	
94.65				94.65 - 98.10 Partially to well silicified sections of fine to coarse sericite-calcite with minor graphitic bands - minor chlor + fuchsite; often crenulated						20	
96.80				96.80 - 97.0 silicified ser-sch with calcite pods; minor fuchsite						30	
98.10				98.10 - 105.80 Muscovite (chloritic) to sericite sch with some thin biotite band and gtz-calcite-chlor + gtz calcite-ser-feldspar veinlets < 15cm wide						10	
				Crenulated foliation between 0 - 20° L to S/A							
101.05				101.05 - 101.20 irregular gtz-ser-calcite-feldspar vein.						20	
103.00				103.0 - 103.90 Bleached zone; gtz-calcite-feldspar veinlet with ser-bio-chlor altered margins						30	
104.30				104.30 - 105.80 some thin intermixed siliceous graphite							
105.80				105.80 - 108.0 Siliceous graphite sch with gtz veinlets + segregation and in bleached ser altered bands; badly crenulated						20	
108.00				108.0 - 119.12 MAJOR FAULT ZONE						0	
				- FAULT GOUGE, SHATTERED GTZ-PY FRAGMENTS,							
				FRIBABLE SER SCH PIECES + POOR C/S						0	
				RECOVERY; sheared, broken up + graphitic fault gouge						0	
				113.99 - 116.0 No core recovered							
115.00				116.0 - 119.20 friable graphitic sch						0	
				recovered with py + gtz segregations						0	
				- fault gouge also							
119.17				119.17 - 120.20 Silicified, bleached ser-fuchsite-minor rutile sch with irregular						20	
				segregated gtz-calcite-minor feldspar veinlets < 7cm wide							
120.20				120.20 - 124.20 Complex intermixing of gtz veinlets + segregations						20	
				< 5cm wide usually with ser altered margins and							
				siliceous graphite sch; foliation between 0-10° L to S/A							
124.20				124.20 - 126.75 GRAPHITIC SCHIST with tiny calcite-gtz veinlets-thin						30	
125.00				125.0 - 126.75 FAULT ZONE - gaugie + missing + broken core							
				126.75 - 128.50 intermixed ser-musc bands + sil-graphite sch						0	
127.90				127.90 - 128.50 FAULT ZONE - missing + broken core.						20	
				127.70 - 127.90 small gtz-feldspar-calcite veinlet < 5cm wide in							
				siliceous graphite sch, X-cutting foliation at 70° to S/A							
128.50				128.50 - 145.80 fine to coarse gr ser to chloritic-musc sch with gtz-						0	
				calcite-chlor veinlets + segregations < 10cm wide throughout							
				Core generally quite friable with numerous shear + faults							
129.80				129.80 - 130.90 FAULT ZONE - friable ser sch + gaugie + missing core						10	
131.75				131.75 - 132.50 FAULT - friable ser-musc sch, missing core + gaugie							
134.11				134.11 - 134.25 fractured gtz-calcite-ser vein with						30	
				sheared, friable ser to musc margins							

PAGE 3 OF 6	PROJECT: STERLING							HOLE NO. 81-9		
MINERALIZATION DESCRIPTION	TOTAL SULPHIDE	SAMPLES			SAMPLE NUMBER	ASSAYS				
		FROM	TO	WIDTH		Mo	W	Pb	Zn	Cu Au Ag
91.70 - 92.0 massive f.gr py stringers along veinlet margins and within small fractures		91	93.0	2	360	32	1	110	96	105 1.2
94.65 - 98.10 massive f.gr py stringers in fractures tends to be associated with partially sil, ser altered zones; minor po		93.0	95.0	2	361	6	1	394	48	128 2.9
95 97 2 362 7 1 16 38 97 0.4										
98.10 - 105.80 f.gr py, occasionally massive, limited to gtz-calcite-chlor and gtz-ser-calcite-feldspar veinlets and segregations		97	99	2	363	2	1	10	57	52 0.2
101.05 - 103.40 pyrite + po as massive calcite replacement in fractures		99	101	2	364	2	1	9	55	55 0.3
103.0 - 103.40 f.gr pods of py along calcite in-chlor altered margins		101	103	2	365	3	1	11	55	66 2.4
104.30 - 105.80 thin fine-gr py in sil/granite bnd		103	105	2	366	6	1	15	59	68 0.3
105.80 - 108.0 f.gr usually massive pods + stringers of py throughout		105	107	2	367	8	1	17	43	136 0.3
108.0 - 119.17 f.gr py, occasionally massive, throughout graphitic material										
119.17 - 120.20 f.gr stringer islands of fracture filled py, lesser po within gtz veinlets and ser-fuchsite altered margins; f.gr galena + sphalerite seen with py		119.17	121.0	1.83	368	8	1	22	262	100 0.4
120.20 - 124.20 minor f.gr py in gtz veinlets										
124.20 - 126.75 f.gr, occasionally massive stringers of py throughout graphitic sch		121	124	3	369	3	1	12	117	45 0.3
126.75 - 128.50 f.gr pods of py occasionally massive		126	129	3	370	4	1	12	29	116 0.3
127.90 - 128.50 f.gr py in tiny fractures										
128.50 - 145.80 f.gr py specs generally throughout the somewhat siliceous matrix. Only fine to med gr py pods seen in gtz veinlets + segregations		129	133	4	371	2	1	5	36	73 0.2
134.11 - 134.25 minor f.gr py in fractures										

PAGE 4 OF 6	PROJECT: STERLING				HOLE NO. 81-9					
DEPTH (m)	% CORE REC	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION				ALTERATION	FRACTURE INTENSITY	% VEIN QTZ
				B10 A	SER B	SIL C	DCHLOR D	m		
140				128.50 - 145.80 136.25 - 137.3 FAULT - missing + friable core 137.80 - 138.40 FAULT - gneissed, friable msc sch gtz - calcite with chlor-ser altered margins are often crenulated; foliation between 0-20° I to q/A. 139.0 - 141.0 chloritic sch is badly sheared in places with crumbly, friable pieces throughout.					20	
145				143.40 - 145.70 FAULT / SHEAR ZONE - missing, friable, broken up core + fine fault gauge 145.80 - 160.20 Meta-Volcanic perhaps originally antecctic in composition Initial calcite throughout ser-chlor-epidote- biotite-gtz matrix. Varying amounts of gtz occur primarily as fine-gr gtz "eyes" with calcite Tiny gtz-calcite or calcite veinlets < 2cm wide often occur in X-cutting "stockwork" pattern					10	
150				147.50 - 148.80 slight schistose texture developed with calcite-chlor-bio-ser matrix 152.75 - 153.0 Qtz-calcite vein with calcite-ser- chlor altered margins @ 15° I to q/A					0	
155				154.75 - 155.35 FAULT - gauge present + sheared, broken chloritic core 157.10 - 158.10 FAULT - badly broken up rock + missing core 158.10 - 160.20 gtz, minor calcite, segregations + veinlets < 2cm wide throughout with chlor-ser matrix					0	
160				160.20 - 160.62 FAULT - broken up + missing core 160.62 - 165.80 Complex intermixing calcareous chlor-ser sch, siliceous graphite, narrow chloritic gtzite bands and numerous gtz segregations with chlor margins < 3cm wide					10	
165				164.80 - 165.20 FAULT - Broken + missing blocky fragments 165.20 - 168.10 Quartzite - whitish gtzite with numerous tiny fractures filled with chlorite, sericite and gtz segregations, minor calcite					40	
170				167.70 - 168.30 FAULT - BLOCKY, Broken core + missing core 168.10 - 173.0 complex intermixing of calcareous chlor sch sil/ graphite bands chloritic gtzite bands and meta- volcanic (greenstone) bands with chlorite inclusions, also calcareous. Tiny calcite veinlets throughout					30	
175				173.0 - 173.25 FAULT / SHEAR ZONE - broken sch + missing core 173.25 - 177.30 intermixing of gtz-segregated chlor-calcite-ser sch, calcareous chloritic gtzite bands and thin crenulated bands of sil-graphite sch					10	
180				175.0 - 177.30 numerous calcite veinlets < 3cm wide foliation between 0-40° I to q/A 177.30 - 179.50 FAULT - graphitic-gtz fragment breccia, missing core + calcareous gtzite fragments					0	

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PROJECT: STERLING

HOLE NO. 81-9

MINERALIZATION DESCRIPTION	TOTAL SULPHIDE	SAMPLES			SAMPLE NUMBER	ASSAYS							
		FROM	TO	WIDTH		Mn	W	Pb	Zn	Cu	Au	Ag	
135.0 - 145.80 generally sparse f.gr py throughout with a few med gr pods along gtz-calcite-chlor veinlets.		133	136	3	372	1	1	5	33	70	0.1		
		136	140.0	4	373	2	1	=	56	42	0.1		
		140.0	145.5	5.5	374	4	1	14	34	125	0.2		
145.80 - 160.20 Very fine-gr pyrite throughout matrix. No pyrite in calcite or gtz-calcite veinlets		145.5	148.0	2.5	375	18	1	14	58	181	205	0.3	
147.50 - 149.80 slight increase in disseminated f.gr pyrite		148.0	150.0	2.0	376	5	1	17	57	144	0.3		
149.60 med.gr chalcopyrite in calcite-gtz veinlet		150.0	152.0	2.0	377	15	1	14	55	257	0.4		
152.75 - 153.0 No pyrite in gtz vein; minor f.gr py along calcite margins		152.0	155.0	3.0	378	5	1	12	81	63	0.2		
153.0 - 160.62 Very fine to fine gr pyrite throughout gtz rich matrix		155.0	157.0	2.0	379	4	1	16	63	57	0.3		
		157.0	160.0	3.0	380	3	1	7	43	37	0.2		
160.62 - 165.80 A few f.gr pods along margins of gtz-chlor segregations. Med gr py cubes in siliceous graphite		160	163.0	3.0	381	2	1	28	95	79	0.4		
165.20 - 168.10 fine gr py usually within chlor filled fractures		-163.0	166	3.0	382	2	1	15	87	90	0.4		
168.10 - 173.0 fine-gr py cubes associated with graphitic bands and within chloritic matrix of sch. Some py within chlorite inclusions with metavolcanic.		166	170	4.0	383	2	1	10	53	38	1.2		
		170	172	2.0	384	2	1	15	80	30	0.3		
173.0 - 177.30 f.gr py usually associated with gtz-calcite segregated margins f.gr py cubes in thin sil. graphite sch		172	175	3.0	385	1	1	14	80	24	0.3		
		175	177.40	2.4	386	1	1	19	64	13	0.2		
177.30 - 179.50 f.gr py cubes throughout		177.40	181.0	3.6	387	1	1	16	69	14	0.2		

PAGE 5 OF 6 PROJECT: STERLING HOLE NO. 81-9

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PROJECT: STERLING

HOLE NO. 81-9.

MINERALIZATION DESCRIPTION	TOTAL SULPHIDE	SAMPLES			SAMPLE NUMBER	ASSAYS					
		FROM	TO	WIDTH		Mo	W	Pb	Zn	Cu	Au
177.50 - 180.60 f.gr py cubes throughout											
180.60 - 184.0 fine to med. gr py cubes within somewhat siliceous matrix of ser-cibr		181.0	183.0	2	388	2	1	15	84	17	0.3
184.0 - 184.20 massive f.gr pyrite along gtz - graphitic margins		183	185.6	2.6	389	2	1	15	60	47	0.2
184.20 - 186.55 sparse f.gr pyrite		185.6	188.0	2.4	390	2	1	11	56	73	0.2
186.55 - 194.70 f.gr py disseminated throughout, 188.55 - 188.80 No py in gtz vein		188	190	2.0	391	1	1	10	57	73	0.2
192.45 - 193.25 f.gr pods of pyrrhotite in gtz segregations. Fine-gr py along gtz margins		190	193	3.0	392	1	1	14	87	33	0.2
194.70 - 201.0 Very sparse f.gr py		193.0	196	3.0	393	2	1	15	98	33	0.2
		196	198	2.0	394	1	1	9	61	13	0.1
201.0 - 209.10 sparse fine gr py		198	200.5	2.5	395	1	1	13	70	24	0.05
203.30 - 203.45 A few fine-gr pods of pyrite in gtz-chlor fractures		209	211.5	2.5	396	1	3	10	48	71	0.05
209.10 - 210.60 A few fine-gr pods of py within chlor-calcite fractures		210.60 - 212.25 sparse f.gr py									
210.60 - 218.10 Very sparse f.gr py in Meta Volcanic unit, usually seen along shears		218.10 - 231.63									
f.gr py, occasionally massive, along gtz breccia fragments in graphitic breccia											

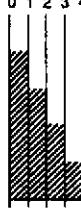
PAGE '6	OF 6	PROJECT: STERLING										
DEPTH (m)	% CORE REC	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION					ALTERATION	FRACTURE INTENSITY	% VEIN QTZ	
	A	B	C	D	E							
230				218.10 - 231.63 MAJOR FAULT ZONE graphitic gouge with gtz - fragments -gtz "phenos" in greenish metavulkanic breccia with sheared graphite sch.							0	
235				231.63 - 232.86 somewhat siliceous graphite sch with 15cm wide gtz - dolomite - ser - py vein 232.86 - 235.90 Narrow bands of intermixed sil. graphite sch, chlor - ser sch and gtz - calcite veinlets 235.0 - 235.30 gtz - calcite vein with chlor - ser margins along foliation planes @ 30° L + 1/2							10	
240				EOH 235.90							20	

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PROJECT: STERLING

HOLE NO. 81-9

DRILL LOG

PROJECT <i>STERLING</i>	GROUND ELEV. 496m (1627 ft)
HOLE NO. 81-10	BEARING
LOCATION COORDINATES FROM LEGAL CORNER POST 855 West } 562 North } STERLING NO. 1	DIP -90°
LOGGED BY D. BOHME <i>Dennis Bohme</i>	TOTAL LENGTH 908 ft, (276.74m)
DATE JUNE 11, 1981	HORIZONTAL PROJECT 32m
CONTRACTOR HERB ALLEN	VERTICAL PROJECT 274m
CORE SIZE NQ	ALTERATION SCALE  0 absent 1 slight 2 moderate 3 intense
DATE STARTED JUNE 10, 1981	TOTAL SULPHIDE SCALE  0 traces only 1 < 1% 2 1% - 3% 3 3% - 10% 4 > 10%
DATE COMPLETED JUNE 16, 1981	LEGEND
DIP TESTS 250 ft (76.20m) 84.5° 500 ft (152.39m) 83.25° 740 ft (225.54m) 77.0°	
COMMENTS Entire hole drilled with mud. No major problems encountered.	

PAGE | OF 6 PROJECT: STERLING HOLE NO. 81-10

DEPTH (m)	% CORE REC	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION					FRACTURE INTENSITY	% VEN QZ.
					B10 A	SER B	C SIL C	D CHLOR D	E		
0				0.0 - 8.83 CASING							
8.83 - 11.70				Siliceous graphite sch (crenulated) with small calcite veinlets throughout. 9.2-9.55 Ser, Sil bleach zone. Foliation between 0-40° I to S/A						0	
11.70 - 17.00				bleached, silicified ser-calcite sch with thin bands of brown bio, chlorite + fuchsite; minor sil bands of graphite sch. Atz-calcite veinlets < 5cm. Tiny X-cutting calcite veinlets throughout						0	
15.30 - 15.80				Blocky, broken, sheared sil ser sch. Bleached foliation between 0-10° I to c/a						20	
17.0 - 18.60				FAULT - badly broken, sheared ser sch and graphitic sch. Missing core also						20	
18.60 - 19.10				band of bleached sil ser-calcite-fuchsite sch						0	
19.10 - 21.90				Sil graphite sch with calcite veinlets throughout						0	
20.10 - 21.10				20.10 - 21.10 FAULT; broken + missing core						0	
21.90 - 23.77				Qtz-chlor-calcite-ser sch with a few calcite veinlets						10	
23.0 - 23.77				FAULT - fine fragments + missing core						10	
23.77 - 41.10				intermixed bands of calcareous-chlor-ser sch, partially sil ser-calcite sch and musc sch. A few gtz-calcite ser + calcite veinlets < 5cm wide						0	
25.0 - 25.50				25.0 - 25.50 bleached ser, siliceous sch. Foliation slightly crenulated in places, between 0-30° I to S/A						10	
30										0	
32.30 - 32.40				32.30 - 32.40 Qtz-calcite-chlor-ser veinlet along foliation planes						10	
33.50 - 34.50				33.50 - 34.50 Ser bleaching increases with several gtz-ser-calcite-fuchsite veinlets < 5cm wide						10	
34.50 - 35.0				34.50 - 35.0 FAULT - friable, sheared sch.						0	
36.90 - 38.20				36.90 - 38.20 FAULT - missing, very friable ser-calcite schist. 39.10 - 39.60 Shear zone with some graphite sch						0	
39.60 - 41.0				39.60 - 41.0 Graphitic-ser sch (crenulated) bands in musc sch						10	
40.50 - 40.90				40.50 - 40.90 FAULT - broken, friable + missing core						0	
41.10 - 43.80				41.10 - 43.80 Siliceous graphite sch with numerous tiny crenulated gtz + gtz-calcite veinlets < 3cm						50	
42.50 - 42.70				42.50 - 42.70 FAULT with graphitic gauge present						10	
43.80 - 44.15				43.80 - 44.15 Siliceous ser sch						10	
44.15 - 48.50				44.15 - 48.50 Qtz Vein cutting foliation @ 60°						10	

PAGE	OF	6	PROJECT:	STERLING						HOLE NO.	81-10	
MINERALIZATION DESCRIPTION	TOTAL SULPHIDE	SAMPLES			SAMPLE NUMBER	ASSAYS						
		FROM	TO	WIDTH		Mn	W	Ph	Zn	Cu	Au	Ag
8.83 - 11.70 fine-gr py throughout, associated with crenulated calcite veinlets		9	11.60	2.60	397	2	1	10	104	39		0.2
11.70 - 12.0 f.gr py throughout sil matrix of schist												
Qtz - calcite veinlets are barren		11.60	14.0	2.40	398	7	1	165	207	28		0.2
11.80 - 12.40 f.gr galena + sph in sil matrix												
15.80 - 16.90 f.gr pods of galena + sph associated with f.gr py with ser - calcite		14.0	17.0	3.0	399 - 25	1	295	378	15			0.3
17.0 - 18.60 f.gr py along shear planes												
18.60 - 19.10 f.gr galena, sph, + pyrite in sil ser - calcite schist												
19.10 - 21.90 f.gr py throughout		17.0	21.40	4.40	400	9	1	41	218	41		0.2
21.90 - 23.77 Massive f.gr py, minor galena along Qtz - calcite veinlet margins												
23.77 - 41.0 sparse f.gr py generally throughout		21.40	24.0	2.60	501	3	1	33	74	50		0.7
Occasional massive py pods with ser altered bands. 25.0 - 25.60 massive f.gr py pods + possible f.gr galena		24.0	26.0	2.0	502	1	1	14	54	24		0.3
Some massive py associated with small shears - minor f.gr po also noted												
		30.5	33.0	2.5	503	2	1	13	83	27		0.3
32.30 - 32.40 minor f.gr py												
33.50 - 34.50 massive f.gr py in small fractures of Qtz - calcite - ser veinlet. Possible f.gr galena also		33.0	35.5	2.5	504	1	1	24	64	50		0.5
35.5 39.0 3.5 505												
41.10 - 43.80 f.gr stringers of py usually along Qtz veinlet margins		39.0	42	3.0	506	1	1	13	73	35		0.3
43.80 - 44.15 fine-gr py in tiny fractures												

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PROJECT: STERLING

HOLE NO. 21-10

MINERALIZATION DESCRIPTION	TOTAL SULPHIDE	SAMPLES			SAMPLE NUMBER	ASSAYS						
		FROM	TO	WIDTH		Mn	W	Pb	Zn	Cu	Ag	
4-15 - 48.50 A few broken up gtz pieces with massive py and/or massive po alteration. Pods of mostly sph + galena also; occasional massive sph in fracture		44.0	49.0	5	507	1	1	713	1726	74	.015	9.9
48.50 - 53.90 massive py + po along gtz calcite margins; fine-gr py within sil matrix of sch		49.0	51.00	2.20	508	2	1	28	45	59	0.5	
53.90 - 54.30 minor f.gr py		51.20	54.25	3.05	509	1	1	20	59	39	0.5	
54.30 - 62.10 fine-gr py and po in gtz-calcite veinlets and in tiny fractures throughout sil/sch		54.25	56.0	1.75	510	1	1	10.	26	58	0.2	
62.10 - 66.40 minor f.gr py in siliceous graphitic matrix		58.0	60.0	2.0	511	1	1	13	55	25	0.3	
		60.0	62.0	2.0	512	4	1	35	41	53	0.6	
66.40 - 69.90 f.gr py disseminated throughout siliceous matrix; minor po faceted f.gr galena + sph also		62.0	65.0	3.0	513	6	1	94	107	61	0.8	
		65.0	68.0	3.0	514	25	1	58	373	87	0.4	
69.90 - 82.80 Very sparse f.gr py in calcite-chlor matrix		68.0	70.40	2.40	515	10	1	58	231	43	.005	0.8
71.90 - 72.80 fine-gr pods of po and/or py in fractures along gtz-calcite margins		70.40	73.0	1.60	516	3	2	11	68	66	1.3	
74.48 - 74.60 fine-gr pods of mostly po and py and minor specs of moly along calcite-ser-gtz vein margins		72.0	74.0	2.0	517	5	1	15	93	101	1.1	
77.0 - 79.0 A few of the gtz veinlets contain f.gr po and/or py		74.0	76.0	2.0	518	7	1	40	144	58	1.3	
		77.0	79.0	2.0	519	6	2	10	107	87	1.5	
82.30 - 82.37 fine-gr pods of po, less py in ser-chlor-calcite filled fractures		82.0	84.0	2.0	520	3	2	19	96	74	1.3	
84.40 - 85.50 gtz-calcite veinlets contain fractured filled calcite replaced f.gr py and po, associated with fine fuchsite		84.0	86.0	2.0	521	9	7	21	181	167	1.6	
88.80 - 92.10 generally f.gr py; minor po throughout crenulated sch.		88.0	90.0	2.0	522	5	1	11	105	89	1.2	

PAGE	3	OF	6	PROJECT:	STERLING		HOLE NO.	81-10			
DEPTH (m)	% CORE REC	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION					ALTERATION	FRACTURE INTENSITY	% VEIN QTZ
				B1C	B2E	C1L	D1HDK	E			
91				90.52 - 91.0 Badly broken up (due to fault) siliceous ser-calcite-fuchsite-feldspar? sch						10	
95				92.10 - 99.20 Calcareous gtz-ser-chlor minor bio sch 93.55 - 93.95 gtz-calcite rich vein with ser altered margins; @ 30° L to c/A; minor felspar?						40	
				95.80 - 96.50 Qtz-dolomite-calcite rich vein, minor feldspar? cutting foliation at 80° L to c/A with ser + fuchsite						20	
				97.90 - 98.35 Several wavy gtz-dolomite-calcite-ser veinlets - minor feldspar + fuchsite; cutting @ 30° L to c/A						150	
100				99.20 - 102.50 Very calcareous chlr-ser sch with narrow bands of biotite, graphite and x-cutting calcite veinlets						20	
				102.50 - 106.07 Fine to coarse siliceous ser-calcite(dolomite) minor fuchsite sch @ 40°-50° L to c/A						0	
				104.25 - 105.15 gtz-calcite(dolomite)-feldspar? vein with ser sch remnants x-cutting foliation						20	
105				at 80-85° L to c/A						70	
				106.17 - 107.4 FAULT - Badly broken up ser+gtz pieces + missing core						20	
				107.4 - 108.0 Siliceous ser sch with some gtz-calcite veinlets							
				108.0 - 108.40 Siliceous graphite sch with tiny calcite veinlets						20	
110				108.40 - 111.40 FAULT ZONE - badly broken up sil graphite sch and a few gtz-ser fragments						10	
				111.40 - 114.40 Intermixed bands of siliceous graphite sch and gtz-blancher ser, minor calcite sch. Core is badly broken up by numerous shears + fractures						0	
				114.40 - 115.40 FAULT - graphitic gneiss + friable ser sch pieces							
115				115.40 - 132.40 Silicified ser sch with calcite laminations; minor fuchsite Core is badly broken up + sheared + fractured Foliation between 20°-40° L to c/A						10	
				119.20 - 119.90 FAULT - Broken up ser sch with missing core						40	
				120.0 - 123.0 Several gtz-calcite veinlets + segregations < 8cm wide along foliation planes						10	
120										20	
				124.85 - 126.75 Several gtz-dolomite(calcite)-py veinlets + segregations < 3cm wide noted; foliation between 0-20° L to c/A						20	
										40	
125				126.75 - 132.60 Several gtz-dolomite(calcite), minor fuchsite veinlets + segregations, < 8cm wide, (about 2 per metre) within well bleached sil ser sch; - minor bands of brown sil biotite						10	
										30	
130				132.40 - 134.55 FAULT ZONE						40	
				friable sil ser sch abruptly grades into finely broken up, sheared, graphite rich sch. Missing core also						0	
135				Foliation 0-20° L to c/A						0	

PAGE 3 OF 6	PROJECT: STERLING								HOLE NO. 81-10				
MINERALIZATION DESCRIPTION	TOTAL SULPHIDE	SAMPLES			SAMPLE NUMBER	ASSAYS							
		FROM	TO	WIDTH		Mn	W	Pb	Zn	Cu	Au	Aa	
91.52 - 91.7 massive fgr po and py occurring in fractures of ser-calcite sch		91	92	2	523	11	2	10	72	145	.61		
92.10 - 92.20 sparse f.gr py within sch matrix		92	94	2	524	7	1	499	115	163	14.4		
93.55 - 93.95 Mostly massive py, minor f.gr + py within fractures of gtz-calcite		94	96	2	525	7	1	24	124	87	1.5		
95.60 - 96.50 Q+z vein with fine-gr pods of py + moly along calcite-ser-fuchsite margins		96	98	2	526	6	1	19	115	70	1.3		
97.90 - 98.35 A few fine gr pods of py along wavy ser-calcite-gtz margins		98	100	2	527	4	1	7	54	59	0.4		
99.20 - 102.50 minor f.gr py													
102.50 - 106.07 A few sections with massive py and/or po in calcite replaced fractures		102	104	2	528	6	1	175	164	215	.005	4.9	
104.25 - 105.15 numerous small fractures in gtz and along gtz-calcite-ser margins filled with py, f.gr molybdenite and a few po pods		104	106.27	2.07	529	7	1	395	187	177	.015	7.1	
104 - 106.07 Est.gr 0.02% MoS ₂													
106.07 - 107.4 minor med gr py		106.07	108.50	2.43	530	12	1	79	41	144		1.8	
107.4 - 108.0 some massive f.gr pods of py + po within gtz-calcite fractures													
108.0 - 111.40 sparse fine-gr py													
111.40 - 115.40 minor f.gr py throughout		114.6	117.80	3.2	531	4	1	56	35	101	.005	0.6	
115.40 - 132.40 fine to med gr pods of py within silicified matrix, usually with calcite frs; f.gr moly seen along some py margins		117.80	120.0	2.2	532	4	1	18	13	154	.020	0.4	
120 - 123.0 sparse f.gr py seen in gtz veinlets + segregations. Most of the py, occasionally massive, with sd ser-calcite sch matrix.		120.0	122.0	2.0	533	3	1	24	34	135	.005	0.4	
123.60 - 124.0 very fine-gr moly visible in several narrow calcite-py-gtz veinlets < 1cm wide		122.0	125.0	3.0	534	7	1	214	139	13		0.9	
126.75 - 132.60 fine to med gr py within veinlets with the occasional f.gr moly along py margins		125	127.0	2.0	535	4	1	7	37	35		0.2	
131.75 Irregular gtz-dolomite veinlet with f.gr py and moly along ser margins.		127.0	129.0	2.0	536	6	1	4	12	8		0.2	
Massive f.gr py seen in several places in calcite-gtz veinlets up to 5cm wide; Minor po also noted		129.0	131.0	2.0	537	7	1	234	44	28	.005	0.8	
Overall est.gr. 127.0 - 132.0 0.02% MoS ₂		131.0	132.90	1.9	538	28	2	120	64	37	.005	1.3	
132.40 - 134.55 fine to med gr py pods + stringers throughout													

PAGE	OF	PROJECT: STERLING	HOLE NO.					
DEPTH (m)	% CORE REC	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION	FRACTURE	INTENSITY	% VEIN QTZ.
140				134.55 - 140.75 Siliceous graphite sch with small gtz + gtz-calcite segregations + veinlets throughout 136.70 - 137.75 FAULT ZONE marked by badly broken up graphite sch + missing core 138.5 - 138.95 grey ser-graphite bleached sch 140.75 - 147.40 Sericite-Chlorite Quartzite light grey to light green quartzite with very poorly developed foliation. Tiny x-cutting calcite veinlets throughout with a few gtz-chlor-ser-calcite veinlets + segregations	B1D A B SER C SIK D CHLOR			0
145				147.40 - 148.0 FAULT ZONE - missing core, friable, broken gtzite 148.0 - 151.05 Very siliceous, bleached, ser-py rich sch Faded out foliation between 0-30° 1 to c/a Numerous tiny x-cutting calcite veinlets. A few gtz segregations				10
150				151.05 - 158.75 Siliceous graphite schist 153.25 - 153.90 FAULT/SHEAR - Broken up, friable 154.70 - 154.95 FAULT /SHEAR - friable + missing core				30
155				Small gtz and gtz-calcite veinlets + segregations <1cm wide throughout				10
160				158.75 - 162.10 Silicified ser sch with numerous tiny x-cutting calcite veinlets; 161.10 - 162.10 totally bleached foliation by gtz-calc-segregations; gtz-dolomite-fuchsite 1cm wide, x-cutting @ 45° 1 to c/a 162.10 - 166.45 Crenulated siliceous graphite sch Tiny gtz+gtz-calcite veinlets throughout				20
165				164.10 5cm wide gtz-calcite segregation with no foliation between 0-10° 1 to c/a 166.45 - 171.90 Silicified calcareous ser to musc sch with a few gtz segregations <5cm wide; minor fuchsite + feldspar?				10
170				168.55 - 169.0 FAULT - missing core, friable, broken sch pieces 169.80 - 170.45 Siliceous graphite sch				10
175				171.0 - 171.5 Well silicified section with minor brownish feldspar?, fuchsite and fine-gr rutile 171.90 - 210.0 Siliceous crenulated graphite sch; badly broken in places due to shearing + faulting - foliation generally between 0-30° 1 to c/a 175.16 - 175.26 Qtz-calcite ser vein remnant				20
180				175.40 - 180.80 FAULT ZONE - graphic fault gauge, missing + badly fractured + sheared core A few gtz segregations + calcite veinlets				0

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PROJECT: STERLING

HOLE NO. 81-11

MINERALIZATION DESCRIPTION	TOTAL SULPHIDE	SAMPLES			SAMPLE NUMBER	ASSAYS					
		FROM	TO	WIDTH		Mn	W	Pb	Zn	Cu	Au
134.55 - 140.75 med to coarse gr massive py throughout associated with small calcite-gtz + gtz veinlets + segregations		138.	140.35	2.35	539	4	1	12	40	170	2.4
140.75 - 147.40 Very sparse fgr. py within quartzite matrix; fine gr py and/or po associated with gtz-chlor-ser-calcite veinlets + segregations		140.35	147.65	2.30	540	3	1	12	50	62	0.2
148.0 - 151.05 Massive fine to coarse gr py pod throughout sil matrix; some cp seen also		145	147.0	2	541	1	1	14	52	438	0.3
		147.0	149.5	2.5	542	6	2	16	40	161	0.4
151.05 - 158.75 fine to coarse gr masses of py throughout in gtz and gtz-calcite segregations; minor po		149.5	151.80	2.3	543	26	7	50	30	25.005	1.5
158.75 - 162.10 fine to coarse py in minor calcite-gtz veinlets as replacement. Minor fgr galena, associated with py, can be occasionally seen. 161.10 - 162.10 fine to med gr py + po with fgr moly along po margins in several gtz-calcite-ser-major felsite segregations		158.0	160.0	2.0	544	11	1	10	13	135.005	0.3
162.10 - 166.45 fine to med or py and py occurring mostly as calcite replacement stringers		160	162.3	2.3	545	52	2	311	328	144	1.5
166.45 - 171.90 fine to coarse massive py throughout as replacement in calcite veinlets and tiny fractures; minor po		166	168	2	546	23	2	62	56	136	0.7
171.0 - 171.5 Massive fgr py, 2-3cm wide calcite replaced veinlets with minor fgr sphalerite + galena		168	170.4	2.4	547	9	2	17	27	386	0.5
171.90 - 210.0 fine gr, occasionally massive, py as irregular strings + pods in calcite replaced fractures + segregations		170.4	172.6	2.2	548	10	3	260	191.51.005	1.0	
175.16 - 175.26 same fgr py along gtz-calcite-sericite margins		173.5	176.5	3.0	549	3	1	12	58	108	0.1

PAGE 5 OF 6	PROJECT: STERLING					HOLE NO. 81-10					
MINERALIZATION DESCRIPTION	TOTAL SULPHIDE	SAMPLES			SAMPLE NUMBER	ASSAYS					
		FROM	TO	WIDTH		Mo	Tl	Dt	Zr	Cu	Au
151.25 - 152.22 fine-gr. fgr py along gtz-calcite margin											
156.0 - 159.80 Quic sparse fgr py											
157.72 - 158.3 Some massive, coarse py with calcite fractures of gtz framework		158	157.72	3.4	550	2	1	4	56	67	0.1
158.30 - 159.0 minor amounts of py + po in gtz varieties											
159.0 - 159.21 sparse fgr py											
159.30 - 159.3 Massive coarse py + fgr py as calcite veinlets in gtz which are replaced by py up to 10mm wide		159.5	159.30	2.5	551	35	3	13	38	279	.005 0.1
159.30 - 160.5 sparse py in fault											
160.5 - 161.0											
1 few fgr py pods associated with calcite replacement											
161.0 - 161.60 Sparse fgr py associated with gtz segregations. Occasional coarse-gr. cubes along tiny calcite fractures in gtz segregations		161	161.0	2.6	552	6	1	12	81	54	0.1
161.60 - 162.35 minor fgr py											
162.70 - 162.85 fgr py, minor po, in tiny calcite fractures											
162.85 - 163.0 A few fine-gr pods of py with tiny calcite veinlets, usually along margins. Minor py along sheared planes		163.0	162.85	1.4	553	2	1	8	73	35	0.1

PAGE 6 OF 6	PROJECT: STERLING	HOLE NO. 81-10									
DEPTH (m)	% CORE REC	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION					FRACTURE INTENSITY	% VEIN QTZ
					BIO	SER	CSE	DCHLOR	E		
230				225.0 - 231.0 Core becomes slightly more chloritic with minor biotite. Slight increase in barren gtz-chlor-calcite ser. veinlets + segregations 228.70 - 229.0 FAULT / SHEAR finely broken up core fragments						30	
235				231.0 - 241.70 Core becomes slightly lighter in color due to ser content increasing. Some thin intermixing of argillite + chlor-ser sch. Qtz-calcite + gtz-calcite-chlor veinlets + Segregations throughout generally along foliation planes						30	20
240											
245				241.70 - 242.70 FAULT - badly broken up sch + sheared + missing core 242.70 - 251.50 Badly sheared + broken up graphitic-ser sch with calcite segregations throughout, < 1cm wide. Wavy foliation @ 80° I to S/A 244.0 - 245.10 FAULT - Badly sheared + missing, broken core						10	20
250				249.20 - 251.50 FAULT ZONE - rich in graphitic gouge + friable sch + missing core 251.50 - 258.0 Calcareous ser-chlor sch, argillaceous + graphite sch. Badly broken up in places. A few narrow gtz-calcite + calcite veinlets. Minor bio also noted						0	0
255				254.50 - 255.70 FAULT ZONE - friable sch + missing core Foliation between 0-20° I to S/A						10	0
260				258.0 - 268.32 MAJOR FAULT ZONE - Very rich in graphitic gouge + sheared, friable schist. A few pieces of calcareous chloritic gtzite core were recovered in a few places within the friable, badly broken graphitic sch.						0	0
265				265.0 - 267.0 graphitic, friable sch with a few gtz-segregations						0	0
270				268.52 - 276.74 Amalgamated - ser-chlor schist with gtz-calcite veinlets along foliation and tiny calcite gtz-veinlets X-cutting the foliation. Wavy foliation between 0-15° I to S/A						20	30
				EOH 276.74							

PAGE 6 OF 6	PROJECT: STERLING								HOLE NO. 81-10		
MINERALIZATION DESCRIPTION	TOTAL SULPHIDE	SAMPLES			SAMPLE NUMBER	ASSAYS					
		FROM	TO	WIDTH		Mn	W	Pt	Zn	Cu As Ag	
225.0 - 231.0 fine-gr. py pods along tiny calcite fractures in gtz veinlets Minor po also noted		226.4	228.5	2.1	554	1	1	8	60	29	0.1
231.0 - 241.20 fine-gr. py pods + stringers associated with calcite replacement in small gtz segregations + veinlets. Minor po also noted		236	238.35	2.35	555	3	1	40	78	53	0.1
242.70 - 251.50 Very sparse py in tiny calcite or gtz-calcite veinlets		246.5	249.4	2.9	556	5	1	11	62	65	0.1
251.50 - 258.0 A few small sections with med-gr. py with calcite but mostly fine-gr. py with gtz-calcite veinlets		254.0	258.0	4.0	557	6	1	11	104	79	0.1
258.0 - 268.52 Very minor amounts of med-gr. py											
268.52 - 276.74 Some fine to med gr. py seen within tiny x-cutting calcite veinlets. Also some py, associated with calcite, in gtz veinlets + segregations		268.5	271.5	3.0	558	2	1	12	348	60	0.1
		271.5	273.7	2.2	559	4	1	16	110	65	0.1

PAGE OF PROJECT: HOLE NO.

