

1985

PHYSICAL AND DIAMOND DRILLING REPORT

ON THE BULL 16, 23 AND 25FR CLAIMS

Liard Mining Division, B.C.

N.T.S. 104-0-16W

Lat.  $59^{\circ}56'N$ ; Long.  $130^{\circ}15'W$

NOVEMBER 1985

B.C. 1985 ASSESSMENT

**GEOLOGICAL BRANCH  
ASSESSMENT REPORT**

**14,104**

1985

PHYSICAL AND DIAMOND DRILLING REPORT

ON THE

BULL 16, 23 AND 25FR CLAIMS

Liard Mining Division, British Columbia

N.T.S. 104-0-16W

Latitude  $59^{\circ}56'N$ ; Longitude  $130^{\circ}15'W$

OWNER/OPERATOR: REGIONAL RESOURCES LTD.

BY

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1980 - 1055 W. Hastings Street  
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NOVEMBER, 1985

WORK PERIOD: October 20, 1984 - October 19, 1985



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(In pocket)

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## CHAPTER 1.0

# I N T R O D U C T I O N

### 1.1 LOCATION AND ACCESS

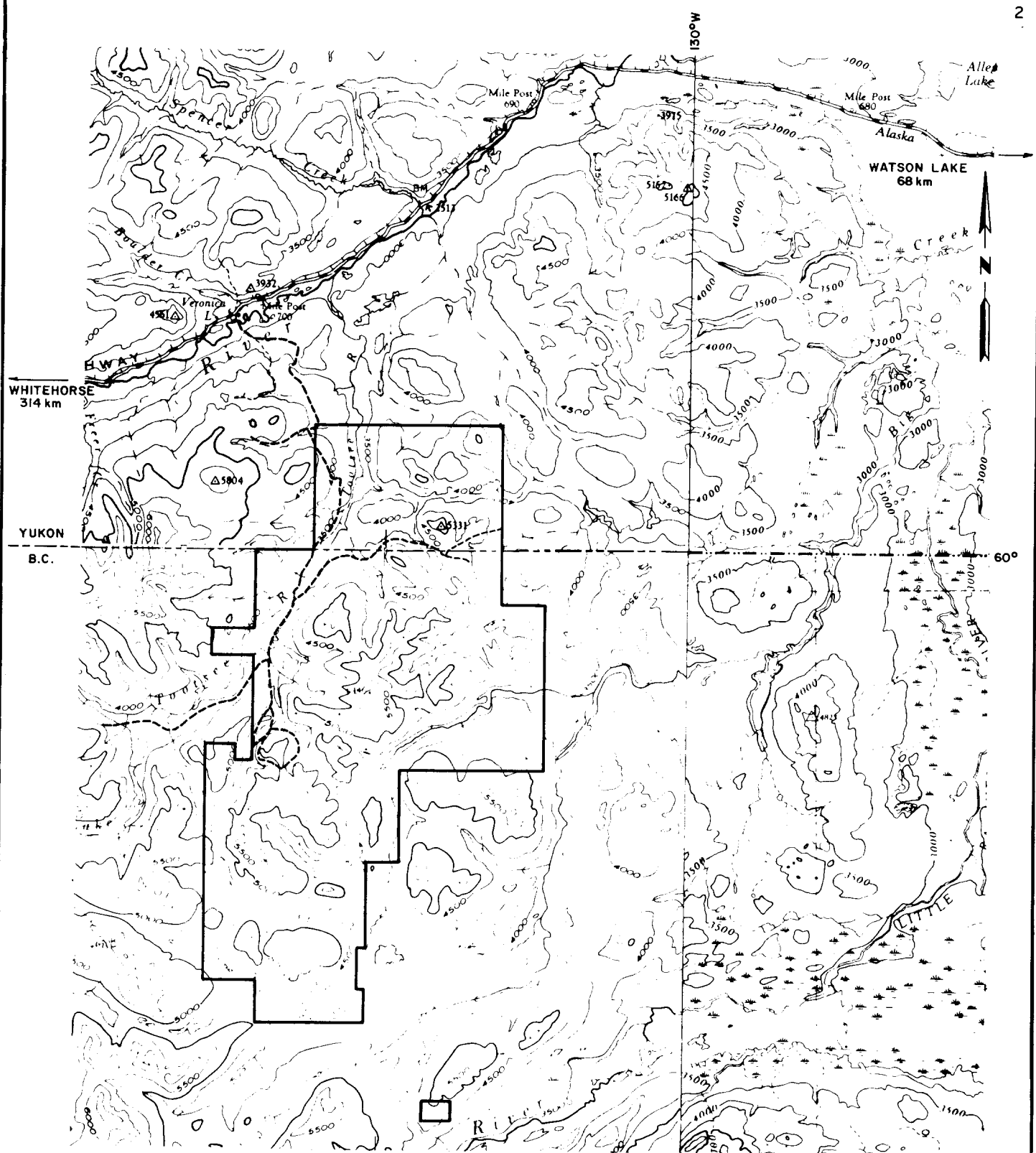
The B. C. portion of the Midway property consists of the Way, Bull, Climax, Post, Beth, Star, Toots and Renee mineral claims (total 967 units) located 85 km west of Watson Lake, Y.T. (Figure 1). Access to the property is provided by 25 km of gravel road which connects with the Alaska Highway at Kilometre post 1128.

### 1.2 CLAIM STATUS

The status of the B.C. claims comprising the Midway property, as of June 30, 1985, is given in Table 1. The relative locations of the claims are shown in Plate 1.

### 1.3 HISTORY AND 1985 EXPLORATION

The history and geology of the Midway property were reviewed in Cordilleran Engineering 1981, 1982, 1983 and 1984. During this period Cordilleran Engineering actively explored the property on behalf of Regional Resources Ltd. 103 surface holes totalling 28,767 m were diamond drilled, 153 km of baseline was cut, 61 km of Pulse EM surveys and



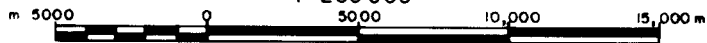
REGIONAL RESOURCES LTD.  
MIDWAY PROPERTY

# LOCATION MAP

*[Handwritten signature]*

LIARD MINING DIVISION, B.C. NTS 104 0/16

1: 250 000



BY CORDILLERAN ENGINEERING

FIGURE 1

Reg. Owner:  
Regional Resources Ltd.

**BRITISH COLUMBIA CLAIMS - MIDWAY PROPERTY**

967 Units; Liard Mining Division, NTS: 104/O-16

CLAIM	UNITS	RECORD No.	EXPIRY DATE-85 Ass	CLAIM	UNITS	RECORD No.	EXPIRY DATE-85 Ass
Way 1	20	1684	20 Oct. 1986-87	A Bull 20	2	2781	14 Jun. 1995
Way 2	20	1685	" 1986-87	A Bull 21	2	2782	" 1995
Way 3	20	1686	" 1994	A Bull 22	2	2783	" 1995
Way 4	20	1687	" 1985-86	A Bull 23	2	2784	" 1995
Way 5	20	1688	" 1993	A Bull 24Fr	1	2785	" 1995
Way 6	20	1726	26 Nov. 1994	A Bull 25Fr	1	2786	" 1995
Way 7	20	1727	" 1994	A Bull 26Fr	1	2787	" 1995
Way 8	20	1728	" 1994	A Bull 27Fr	1	2934	19 Sep. 1994-95
Way 9	15	1729	" 1994				
Way 10	20	1730	" 1993		103		
Way 11	20	1731	" 1994	A Climax 1	8	1716	26 Nov. 1994-95
A Way 12	15	1732	" 1994	A Climax 2	20	1709	12 Nov. 1993
Way 13	20	1733	" 1985-87	Climax 3	20	1710	" 1993
Way 14	20	1734	" 1989	Climax 4	20	1717	26 Nov. 1994-95
Way 15	20	1735	" 1985-86	Climax 5	20	1718	" 1986-95
Way 16	20	1736	" 1994	Climax 6	15	1719	" 1993
Way 17	20	1737	" 1993	Climax 7	15	1720	" 1993
Way 18	15	1738	" 1993	Climax 8	15	1721	" 1993-95
Way 19	20	1739	" 1994	Climax 9	15	1722	" 1994-95
Way 20	20	1740	" 1994	Climax 10	20	1723	" 1993
Way 21	20	1741	" 1993	A Climax 11	6	1724	" 1994
Way 22	10	1742	" 1993	A Climax 12	12	2411	24 Aug. 1993
Way 23	18	1743	" 1994-95	Climax 13	1	2591	20 Oct. 1994
Way 24Fr	1	2763	14 Jun. 1994-95	A Climax 14Fr	1	2592	" 1994-95
Way 25Fr	1	2764	" 1994-95	Climax 15Fr	1	2989	17 Oct. 1993
Way 26Fr	1	2765	" 1994	Climax 16Fr	1	2990	" 1993
Way 27Fr	1	2766	" 1994-95		190		
Way 28Fr	1	2767	" 1986				
Way 29Fr	1	2768	" 1994	Post 1	4	1708	12 Nov. 1994
Way 30Fr	1	2769	" 1994	Post 2	9	2275	20 Apr. 1994-95
Way 31Fr	1	2770	" 1994	Post 3	20	2276	" 1986-95
Way 32Fr	1	2771	" 1994	Post 4Fr	1	2799	20 Jun. 1994
Way 33Fr	1	2772	" 1994	Post 5Fr	1	2800	" 1994
Way 34Fr	1	2773	" 1994	Post 9	20	2282	20 Apr. 1989
Way 35Fr	1	2774	" 1994	Post 11	10	2412	24 Aug. 1993
	445			Post 12	15	2413	" 1994
				Post 13	18	2414	" 1994
A Bull 1	12	1705	12 Nov. 1994-95	Post 14	2	2593	20 Oct. 1993-95
A Bull 2	20	1706	" 1992-95	Post 15	20	2933	19 Sep. 1994
A Bull 4Fr	1	1725	26 Nov. 1994-95	Post 16	2	2946	3 Oct. 1986-95
A Bull 5	12	1959	21 Jul. 1994-95		122		
A Bull 7	18	2415	24 Aug. 1994				
A Bull 8	15	2665	18 Jan. 1994	B Beth 1	12	1516	8 Aug. 1994-95
A Bull 10	2	2667	" 1994-95	B Beth 2	20	1517	" 1991-95
A Bull 11Fr	1	2668	" 1994-95	B Beth 3	20	1518	" 1991-95
A Bull 12Fr	1	2669	" 1994	B Beth 4	18	1519	" 1993-95
A Bull 15Fr	1	2776	14 Jun. 1984-94 <sup>1</sup> 95-96?	B Star 2Fr	1	2775	14 Jun. 1994-95
A Bull 16	2	2777	" 1995	B Star 3	4	2829	6 Jul. 1993-95
A Bull 17	2	2778	" 1995	B Renee 1	12	1132	11 Nov. 1991-95
A Bull 18	2	2779	" 1995	B Toots 4	20	848	6 Jul. 1993-95
A Bull 19	2	2780	" 1995		107		

A Claims in Area A

B Claims in Area B

<sup>1</sup> Pending receipt of Certificate of Work ('83 Assessment)



38 km of gravity surveys were performed, and 9850 soil samples were collected and analysed. Anomalous areas were prospected, and the property was geologically mapped. 26 km of main access road was reconstructed, and two steel beam bridges erected over major rivers.

Near the end of the 1984 drilling program in the Silver Creek area, after a mineralized zone approximately 250 m by 250 m had been defined, it was decided to start an underground exploration program. Underground access was required to determine mining methods and potential problems, to allow close-spaced diamond drilling of the mineral zone, and to permit in-situ examination of mineralization and alteration.

During September and early October, 1984, the infrastructure required - trailer complex, dry, shop, power house, settling pond, storage and waste areas, sewer, water and communication systems - was installed. The first round was taken on October 11, 1984; by October 20, 1984, the portal was faced, air, water and ventilation systems in place, and the decline begun. Excavation continued until May 12, 1985, with a month's break for the Christmas holiday.

A total of 1440 m of ramps and drifts were driven during this period, at a cost of \$3,730,064.31. Rental and purchase of equipment and maintenance of the underground between May 12 and September 31 cost an additional \$141,453.15, resulting in a total cost of \$3,871,517.46.

## CHAPTER 2.0

# PHYSICAL WORK

### 2.1 UNDERGROUND EXCAVATION

Diamond drilling during 1984 located the Silver Creek deposit, and defined two higher grade zones (Silver Creek North and South) within this deposit (Figure 2). The Silver Creek North zone is relatively shallow and located at or immediately below the Sylvester shale - McDame limestone contact. Intersections in the South zone extended from the contact to 120 m beneath it. Each of the surface drill holes within the outline on Figure 2 intersected in excess of 2 m of silver-lead-zinc bearing carbonate-hosted massive sulphides.

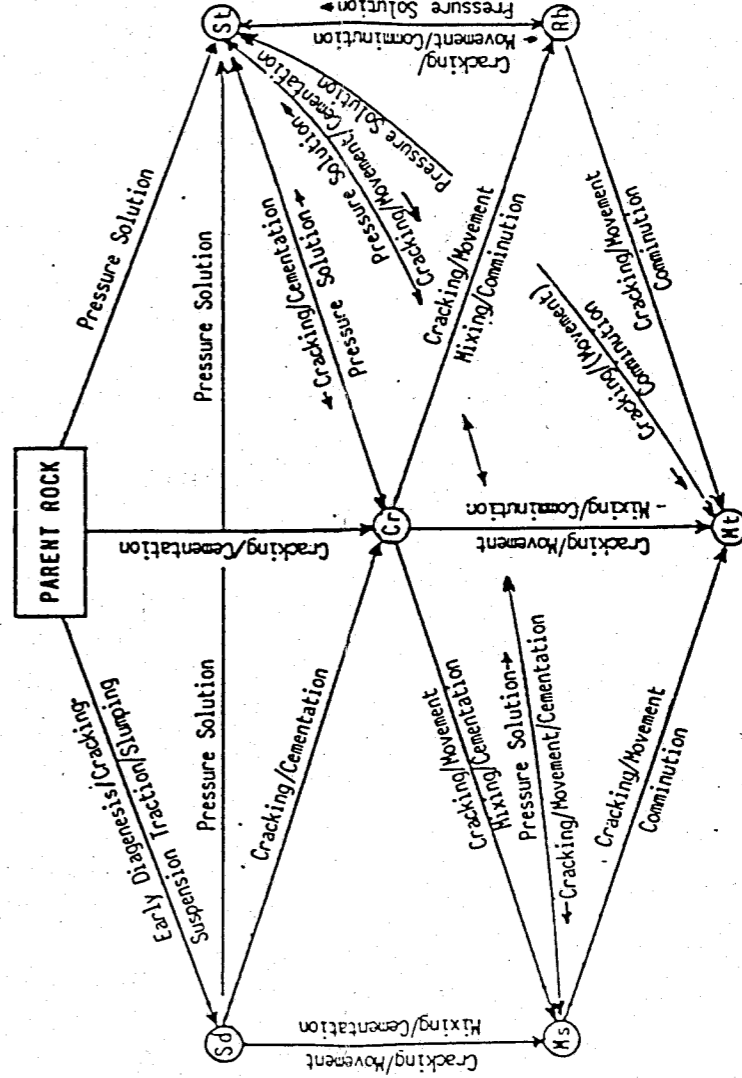
Because of its proximity to surface, the North zone was selected as the primary target for the first phase of underground exploration. Potential ground support problems in the Sylvester shale required that the underground access be in limestone. The only close exposure of limestone was immediately south of DDH 84-79. DDH 84-89 was drilled near the line of the proposed decline to test ground conditions.

Groundwater was considered to be another potential problem. Hydrological studies were conducted by Thurber Consultants, Ker-Priestman and Associates and Stevenson International Groundwater Consultants. The initial seepage

Table 5

## BRECCIA SCHEME - MIDWAY PROPERTY

NAME/SYMBOL	DESCRIPTION	CLAST LITHOLOGY	FRAMEWORK	MATRIX/CEMENT	PROCESSES	LOCALE
SYN-SEDIMENTARY BRECCIA Sd	Fragmentation of sedimentary beds during early diagenesis, prior to burial or close to sediment-water interface.	Mostly homogeneous, reflecting translation & mixing of the parent-rock fabric to varying degrees. Lesser heterogeneous composition, as a result of mixing of different parent rocks during brecciation and translation.	Generally clast-supported. Less frequently matrix-supported.	Matrix > cement	Bottom currents (rip-up clast conglomerate/breccia); storm action (reef-talus breccia); desiccation, evaporite solution-collapse (flat-pebble conglomerate/breccia) soil formation (calcrete, microkarst, etc.) etc.	Shallow siliclastic seas; peritidal carbonate environments; exposure surfaces.
STYLOLITIC BRECCIA St	Different portions of the parent rock are amalgamated by pressure-solution (gravity loading or lateral stress) along stylolitic contacts (of varying orientation).	Homogeneous or heterogeneous, the composition reflecting relative translation of different portions of the parent rock(s), due to varying degrees of material lost to pressure solution.	Stylolitic "clast"- or "residue/matrix"-supported.	Stylolitic "residue/matrix". Welded contacts.	Pressure solution, induced by compaction, gravity loading, tectonic stress. Generation of "residue/matrix" at the stylolitic contacts.	Pressure fronts, from early diagenetic compaction to tectonic stress.
CRACKLE BRECCIA Cr	Anastomosing network of fine cement-filled veins/joints isolating angular fragments of the parent rock. Grinding on the parent rock walls may produce small clasts and minor matrix-filled pockets in main joints. Major clasts fit back together.	Homogeneous, reflecting composition of the parent rock.	Clast-supported.	Matrix << cement; generally white sparry calcite cement.	Tensional/compressional tectonic stress; hydraulic fracturing. Minor translation of clasts due to minor rotation/movement and/or crystallization force of cement.	Tectonically active areas. Rock sections affected by shock-loading of pore-fluids.
MOSAIC BRECCIA Ms	Angular, poorly sorted, framework-supported fragments, in carbonate/silica cement. Individual fragments may fit back together.	Homogeneous or heterogeneous, in composition, reflecting translation & mixing of the parent-rock lithologies to varying degrees.	Clast-supported.	Matrix << cement; generally white sparry calcite cement.	Cracking (tectonically, hydrodynamically, chemically induced) translation and mixing followed by cementation.	Open fractures; low/high-angle fault planes; solution-collapse cavity fills under active hydraulic pressure.
RUBBLE BRECCIA Rb	Angular to sub-rounded, framework-supported fragments; in sediment matrix; fabric crudely organized to chaotic; contacts between fragments may be stylolitic.	Mostly heterogeneous, always the result of translation & mixing of the parent-rock lithologies.	Clast-supported.	Matrix >> cement.	Cracking as above, comminution by mechanical/diagenetic/physicochemical processes; translation & mixing. Generation of stylolitic "residue/matrix" and translation from St to Rb/Ht breccias may be genetically important.	Solution-collapse cavities (surface karst/hydrothermal fluids/evaporite solutions). Reverse to normal grading common from base to top. Transition to St Bx locally occurs at margins of Rb/Ht Bx-filled solution-collapse cavities.
MATRIX BRECCIA Mt	Angular to sub-rounded, matrix-supported fragments. Chaotic fabric.	As for Rb Bx above.	Matrix-supported.	Matrix >>> cement; generally poly-mineralic.	As for Rb Bx above. Generally, more extensive comminution, translation, and intrasedimentary solution of clasts.	As for Rb Bx above; grades into Rb Bx locally.



BRECCIAS: A MERGING SPECTRUM

rate into an underground opening was estimated to be 2000 U.S. GPM, decreasing with continuous pumping to 55 U.S. GPM.

To circumvent or control these possible problems, the underground access was designed to be a decline for the first 160 m, at which point a sump would be established and the heading would be an incline until the mineralization/shale backs were reached. This necessitated trackless equipment and relatively large openings. Canadian Mine Development was selected from the bidding contractors.

Canadian Mine Development was on-site by late September, within three weeks of the decision to proceed with the first phase of underground exploration. The first round was taken on October 11, 1984, and by October 20 the portal was faced; shop, powerhouse and dry erected, fuel, water and sewage systems in place; and the air and ventilation systems installed. Mining was started with a diesel powered single-boom Jumbo and a Jarvis-Clarke JS 500 scoop tram. To decrease costs and increase productivity the single-boom jumbo was replaced by an electric-hydraulic three-boom jumbo. As haulage distances and the number of headings increased, a 3½ yard scoop tram and a 24-ton underground truck were added. Two 2-yard scoop trams were used intermittently. Initial ventilation was supplied by a 42-inch Joy vent fan discharging into 48-inch flexible pipe. This fan was equipped with a propane-fired, 2-million BTU heater, fed from an 18,000-gallon (82,000-litre) storage tank.

The "A" decline was driven at -15% at a heading of 214°20' (UTM) for 163 m (Plate 2). The heading was 4.27 m by 4.57 m in cross-section to accommodate the 5-yard scoop and 48-inch ventpipe. At 163 m a sump was excavated at -15%, heading 167°30', for 55.6 m. Thirty and fifty-eight horsepower Flygt pumps were installed, feeding an 8-inch line which discharged

into the surface settling pond. From the sump "A" heading was driven as an incline (+5%) for 226 m, at which point an iron-oxide filled "cave" was encountered.

The "B" drift was started at this time, the objective being to intersect the massive sulphides at DDH 60 and follow same to DDH 44. "C" heading was driven to bypass the cave at the end of "A" and allow examination of the sulphides between DDH 57 and DDH 61, while "D" was planned to intersect the sulphides interested in DDH 61.

"E" heading was driven at -15% to the south to provide access for underground drilling of the Silver Creek South deposit from above, and to test the competency of the Sylvester shale and sandstone. The decline was on an azimuth of  $153^{\circ}$  for 297.3 m, with a cross section of 3.66 m by 3.96 m. Both 30 HP and 58 HP Flygt pumps were installed in the sump at the end of "E", feeding an 8" pipe which discharged into "A" and the main sump.

"G" drift was driven east from the north end of "E" towards DDH 60 to examine the contact between massive sulphides and shale. "H" was started to give access to the mineralization between DDH 29 and DDH 73, but was stopped when a large cavity was encountered. "I" heading was laid out to bypass this area, but was terminated when it was decided to test the area by diamond drilling.

The lineal advance, size of each heading, and volume mined are given in the following table.

Table 2

SUMMARY OF HEADINGS

<u>Heading</u>	<u>Slope %</u>	<u>Size m</u>	<u>Length m</u>	<u>Volume m<sup>3</sup></u>
A	-15	4.27 x 4.57	162.80	3176.86
A	+ 5	4.27 x 4.57	225.75	4405.26
B	+ 2	3.66 x 3.96	126.00	1826.19
B	+10.5	3.66 x 3.96	134.74	1952.87
C	+ 8	4.27 x 4.57	70.22	1370.27
D	+12	3.66 x 3.96	56.90	824.68
E	+15	3.66 x 3.96	10.00	144.94
E	0	3.66 x 3.96	85.50	1239.20
E	-15	3.66 x 3.96	297.29	4308.80
F	+ 2	3.66 x 3.96	18.00	260.88
G	0	3.66 x 3.96	52.50	760.19
H	+ 2	4.27 x 4.57	28.00	546.39
I	+ 2	4.27 x 4.57	53.00	1034.24
3 Remucks	0	3.66 x 3.96	64.00	927.59
Sump	-15	4.27 x 4.57	55.62	1085.36
			1440.32	23,863.72

2.2 SURFACE EXCAVATION

Between September 5 and 24, 1985, a Komatsu D155A crawler tractor, Liebherr 945 backhoe and 14 cu. yd. dump truck were used to begin excavating overburden in the area of the proposed second portal. Over 11 m of overburden was found, with the top 5.5 m being a permafrost horizon. A drill site was then prepared, and a NQ hole drilled at

167°/-8.5° for 76.50 m (October 3-7, 1984). The excavating equipment hours are noted in Table 3. The cost/hour includes fuel, mobilization and operator room and board.

Table 3

EQUIPMENT USED, PORTAL EXCAVATION

<u>Dates</u>	<u>Equipment</u>	<u>Hours</u>	<u>Cost/Hour</u>
5/9-10/9	Komatsu D155A	37	\$154.66
7/9-24/9	Liebherr 945	110	\$117.19
8/9-24/9	14 yd. truck	92.5	\$ 64.37

The area excavated is shown on Plate 3, south of the large propane tank.

## CHAPTER 3.0

## DIAMOND DRILLING

Between April 24, 1985 and October 20, 1985, two electric/hydraulic underground diamond drills were used to drill 12,383 m in 171 holes. The contract cost to September 15, 1985 for 10,413.25 m was \$618,279.69, or \$59.37/m. Caron Diamond Drilling of Whitehorse, Y.T. supplied a Longyear 38 converted for underground use and a self-propelled Superdrill. Twelve men were employed on a three-shift/24 hour basis. The Superdrill was used for relatively short BQ/AQ size holes, while the Longyear 38 drilled deeper NQ holes. One hole was drilled by the 38 on surface to test ground conditions along the line of a proposed second decline. The drilling is summarised in Table 4.

Table 4DIAMOND DRILLING, MIDWAY, 1985

<u>Core Size</u>	<u>No. of holes</u>	<u>Metres drilled</u>	<u>Comments</u>
BQ/AQ	120	4,644.25	Silver Creek North
BQ/AQ	22	2,933.55	Silver Creek South
NQ	28	4,729.04	Silver Creek South
NQ	<u>1</u>	<u>76.50</u>	Surface
	171	12,383.34	



## CHAPTER 4.0

## RESULTS

4.1 MINING

Conditions which could create mining problems were expected to be high water inflows in the limestone and instability of the overlying shale. Hydrological studies undertaken before the underground excavation indicated that very high water inflows could be encountered (Cordilleran Engineering, 1984a and 1984b). The ground water table was three to four metres above the portal sill elevation. However, minimal water was encountered until the "A" decline reached 101 m. Over the next 20 m water inflow increased from less than 8 litres/second to 60 litres/second. This relatively high inflow was controlled by grouting ahead of the face which reduced the water inflow to less than 22 litres/second. After the sump was established and "A" became an incline, excessive water inflow (200 litres/second) was only encountered twice. In both cases water filled caves were encountered; once the caves drained, the flow rate into the sump stabilized at 17 litres/second and then slowly decreased through February, March and April to 8 litres/second.

Piezometers established during the summer of 1984 were monitored during the winter; by late April the ground water table was effectively lower than the underground openings.

Initially, all the underground openings were kept in limestone because it was expected from surface diamond drilling results that the overlying shale would require expensive

ground support. However, when shale was encountered in "B" drift, it was found screen, straps and rock bolts supplied satisfactory support. The "E" decline was entirely in shale and sandstone; here split-sets were required to hold the straps and screen in the back. In small patches in "B" and "G" headings, shale did not require ground support.

#### 4.2 EXPLORATION

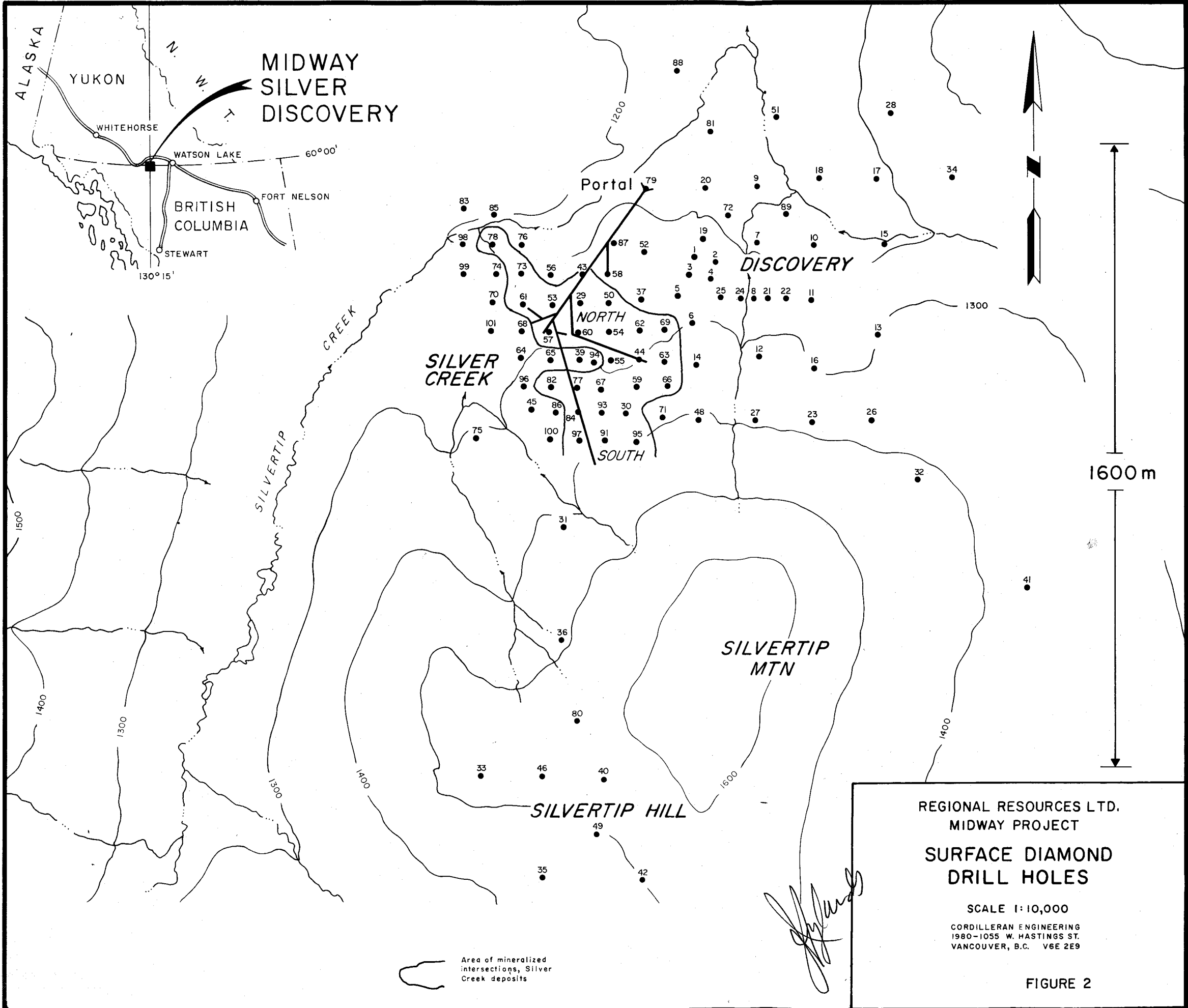
As noted above, all diamond drill holes within the outline on Figure 2 intersected massive sulphides over mineable thicknesses. As a first approximation it was concluded that the sulphides formed a semi-continuous blanket or manto. "A" drift was designed, using this interpretation, to intersect mineralization approximately 300 m from the portal. Only minor oxide patches were encountered.

"B" heading intersected massive sulphides as encountered in DDH 60 as expected, but as the drift advanced it became obvious that the sulphide body was very irregular and was probably not a "blanket". Additional evidence was obtained during the excavation of the north end of "E" drift and "G", "C" and "D" headings, that the massive sulphides were probably tube-like bodies.

Surface diamond drill holes 73 and 78 intersected carbonate-hosted sulphides northwest of the underground openings, whereas holes 43 and 56 returned oxidized sulphides. Both "H" and "I" drifts encountered oxide-filled zones in the vicinity of DDH 56. In early October a flat hole (263) was drilled from the end of "D" drift for 150.6 m to test the area between DDH 73 and DDH 78. It intersected 15 m of sulphides west of DDH 73 (Plate 4).

Drill stations were established every 20 m in "E" drift, and five holes were drilled on a north-south section from each station. A typical section is shown on Plate 5. This section was drilled in the period August 4-23, 1985. Of the first five holes drilled, only DDH 233 and DDH 240 returned significant intersections. The relationship between these intersections could not be determined, so in mid October two additional holes, 169 and 271, were drilled. From the additional evidence it appears that the mineralization in DDH 233 occurs as relatively flat lying sheets, and is not connected to the intersection in DDH 240.

Logs of holes 233, 235, 237, 240, 263, 269 and 271 follow. The logging scheme and geology were explained in detail in Cordilleran Engineering, 1984, with the exceptions of the breccia notation. This is presented in Table 5.



**MIDWAY  
SILVER  
DISCOVERY**

**DISCOVERY**

**SILVER  
CREEK**

**NORTH**

**SOUTH**

**SILVERTIP  
MTN**

**SILVERTIP HILL**

**REGIONAL RESOURCES LTD.  
MIDWAY PROJECT  
SURFACE DIAMOND  
DRILL HOLES**

SCALE 1:10,000

CORDILLERAN ENGINEERING  
1980-1055 W. HASTINGS ST.  
VANCOUVER, B.C. V6E 2E9

**FIGURE 2**

Area of mineralized intersections, Silver Creek deposits

PROPERTY: <u>MIDWAY</u>		D.D.H.MU <u>85 - 233 - E291</u>	PAGE <u>1</u> OF <u>2</u>
AREA: <u>SILVER CREEK SOUTH</u>	DIP: <u>-90 °</u>	AZIMUTH (t): <u>0 °</u>	DEPTH: <u>149.96m</u>
CLAIM: <u>BULL 16</u>	NORTHING: <u>6643320.66</u>		DATE STARTED: <u>AUGUST 66 1985</u>
SECTION: <u>24960 E</u>	EASTING: <u>424959.5</u>		DATE FINISHED: <u>AUGUST 96 1985</u>
CORE SIZE: <u>NQ</u>	ELEVATION: <u>1132.79 m</u>		CONTRACTOR: <u>CARDN DIAMOND DRILLING LTD.</u>
CORE RECOVERY: <u>S- 59 x M- 99 x</u>	CORE STORED AT: <u>RACK 8 BAY PN</u>		LOGGED BY: <u>P. DONKERSLOOT</u>
COMMENTS: <u>FROM 55 TO 61m, 101 TO 104m AND 127 TO 133m THE ROCK CONTAINS MINOR SULPHIDE VEINS. FROM 133.2 TO 136.4m THE LIMESTONE IS RECRYSTALLIZED.</u>			

SURVEY DATA			GEOLOGY AND ASSAY RECORD														
Depth	Dip	Az (t)	From (m)	To (m)	Int. (m)	T.W.(m)	Geology	Sample No.	Rec. %	S.G.	Ag oz/t	Pb %	Zn %	Au oz/t	Fe %	Ag gm/MT	Au gm/MT
0.00	-87.67°	233.76°	0.00	34.00	34.00		1B										
32.48	-88.30°	333.60°	34.00	40.00	6.00		1BA										
60.43	-87.80°	324.60°	40.00	49.00	9.00		1AA										
148.31	-85.80°	328.60°	49.00	51.86	2.86		1AC										
			0.00	69.31	69.31		ML1										
			69.31	88.90	19.59		ML2										
			88.90	89.44	0.54		LZ										
			89.44	89.99	0.55		ML3										
			89.99	90.49	0.50		LZ										
			90.49	91.05	0.56		ML3										
			91.05	92.05	1.00		LZ										
			92.05	96.82	4.77		ML3										
			96.82	97.98	1.16		LZ										
			97.98	102.77	4.79		ML3										
			102.77	102.89	0.12		LZ										
			102.89	104.60	1.71		ML3										
			104.60	107.00	2.40		ML4										
			107.00	117.70	10.70		ML5										
			117.70	120.10	2.40		MLSCR										
			120.10	131.00	10.90		ML5										
			131.00	131.30	0.30		Ca Vn										
			131.30	149.96	18.66		ML5										
ASSAYS																	
			87.90	88.90	1.00		MLS	60910	99	2.7	0.02	( 0.01	( 0.01			0.69	
			88.90	89.44	0.54		LZ	60911	100	3.9	15.63	10.80	13.50	0.002		535.89	0.07
			89.44	89.99	0.55		MLS	60912	100	2.7	0.09	0.09	0.10			3.09	
			89.99	90.49	0.50		LZ	60913	100	3.7	8.84	4.40	23.10			303.09	
CONTINUED																	

16.0



PROPERTY: MIDWAY D.D.H.MU 85 - 235 - E291 PAGE 1 OF 1

AREA: SILVER CREEK SOUTH DIP: -60 ° AZIMUTH (I): 180 ° DEPTH: 162.15m

CLAIM: BULL 16 NORTHING: 6643319.85 DATE STARTED: AUGUST 9M 1985

SECTION: 24960 E EASTING: 424959.61 DATE FINISHED: AUGUST 12G 1985

CORE SIZE: NO ELEVATION: 1132.74 m CONTRACTOR: CARON DIAMOND DRILLING LTD.

CORE RECOVERY: S- 71 % M- 93 % CORE STORED AT: RACK 8 BAYS QN & RN LOGGED BY: P. DONKERSLOOT

COMMENTS: FROM 64.98 TO 80.00m THERE ARE 1% PYRITE VEINS IN THE ROCK. FROM 157 TO 162.15m THERE ARE TRACE ((1%)) SULPHIDE VEINS. THE LOWER ZONES CONTAIN 20% CALCITE CLOTS.

SURVEY DATA				GEOLOGY AND ASSAY RECORD														
Depth	Dip	Az (t)	From (m)	To (m)	Int. (m)	T.W. (m)	Geology	Sample No.	Rec. %	S.G.	Ag oz/t	Pb %	Zn %	Au oz/t	Fe %	Ag gm/MT	Au gm/MT	
0.00	-56.03°	181.67	0.00	40.00	40.00		1B											
31.87	-60.20°	181.60	40.00	49.50	9.50		1BA											
62.35	-62.40°	183.60	49.50	56.75	7.25		1AA											
158.37	-64.30°	187.60	56.75	64.98	8.23		1AC											
			64.98	68.07	3.09		ML1											
			68.07	68.42	0.35		LZ											
			68.42	70.00	1.58		ML1											
			70.00	70.46	0.46		LZ											
			70.46	95.55	25.09		ML1											
			95.55	131.50	35.95		ML2											
			131.50	136.25	4.75		ML3											
			136.25	142.40	6.15		MLSMS											
			142.40	146.85	4.45		MLS											
			146.85	147.40	0.55		MLSMS											
			147.40	150.96	3.56		MLS											
			150.96	151.50	0.54		MLSCR											
			151.50	162.15	10.65		MLS											
							ASSAYS											
			67.07	68.07	1.00		MLS	60939	98	2.7	0.04	< 0.01	< 0.01	< 0.002		1.37	< 0.07	
			68.07	68.42	0.35		LZ	60940	97	3.7	0.04	0.02	< 0.01	< 0.002		1.37	< 0.07	
			68.42	70.00	1.58		MLS	60941	89	2.6	0.04	0.04	0.04	0.002		1.37	0.07	
			70.00	70.46	0.46		LZ	60942	100	3.6	0.70	0.19	1.10	0.002		24.00	0.07	
			70.46	71.46	1.00		MLS	60943	95	2.7	0.03	0.05	0.03	< 0.002		1.03	< 0.07	

PROPERTY: <u>MIDWAY</u>	D.D.H. <u>MU85- 237 -E291</u>	PAGE <u>1</u>	OF <u>1</u>
AREA: <u>SILVER CREEK SOUTH</u>	DIP: <u>-40 °</u>	AZIMUTH (I): <u>180 °</u>	DEPTH: <u>174.65m</u>
CLAIM: <u>BULL 1E</u>	NORTHING: <u>6643318.48</u>	DATE STARTED: <u>AUGUST 13M 1985</u>	
SECTION: <u>24960 E</u>	EASTING: <u>424959.7</u>	DATE FINISHED: <u>AUGUST 17M 1985</u>	
CORE SIZE: <u>NQ</u>	ELEVATION: <u>1132.16 m</u>	CONTRACTOR: <u>CARON DIAMOND DRILLING LTD.</u>	
CORE RECOVERY: <u>S- 67 % M- 96 %</u>	CORE STORED AT: <u>RACK 9 BAYS AF &amp; BE</u>	LOGGED BY: <u>P. DONKERSLOOT</u>	
COMMENTS: <u>THE 1AAMS UNIT CONTAINS 75% SHALE CLASTS, 5% LIMESTONE CLASTS, 19% CALCITE CEMENT AND 1% PYRITE. FROM 90.45 TO 111.50m AND 150.0 TO 156.0m THERE ARE MINOR PYRITE VEINS IN THE ROCK. FROM 108.0 TO 143.0m MUCH OF THE ROCK IS PARTIALLY DOLOMITIZED AND RECRYSTALIZED.</u>			

SURVEY DATA			GEOLOGY AND ASSAY RECORD														
Depth	Dip	Az (t)	From (m)	To (m)	Int. (m)	T.W. (m)	Geology	Sample No.	Rec. %	S.G.	Ag oz/t	Pb %	Zn %	Au oz/t	Fe %	Ag gm/MT	Au gm/MT
0.00	-40.14°	178.83	0.00	62.00	62.00		1B										
28.83	-43.40°	180.60	62.00	71.60	9.60		1BA										
62.61	-43.00°	180.60	71.60	82.00	10.40		1AA										
162.94	-53.40°	186.60	82.00	88.65	6.65		1AC										
			88.65	90.45	1.80		1AAMS										
			90.45	138.50	48.05		MLS										
			138.50	163.00	24.50		ML2?										
			163.00	172.49	9.49		MLS										
			172.49	172.74	0.25		MLSMS										
			172.74	174.65	1.91		MLS										





# CORDILLERAN ENGINEERING

# DIAMOND DRILL RECORD

PROPERTY MIDWAY D.D.H. MU 85 - 240 - E291 PAGE 2 OF 2  
 AREA: \_\_\_\_\_ DIP: \_\_\_\_\_ AZIMUTH (I): \_\_\_\_\_ DEPTH: \_\_\_\_\_  
 CLAIM: \_\_\_\_\_ NORTHING: \_\_\_\_\_ DATE STARTED: \_\_\_\_\_  
 SECTION: \_\_\_\_\_ EASTING: \_\_\_\_\_ DATE FINISHED: \_\_\_\_\_  
 CORE SIZE: \_\_\_\_\_ ELEVATION: \_\_\_\_\_ CONTRACTOR: \_\_\_\_\_  
 CORE RECOVERY: \_\_\_\_\_ CORE STORED AT: \_\_\_\_\_ LOGGED BY: \_\_\_\_\_  
 COMMENTS: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

SURVEY DATA			GEOLOGY AND ASSAY RECORD															
Depth	Dip	Az (t)	From (m)	To (m)	Int. (m)	T.W. (m)	Geology	Sample No.	Rec. %	S.G.	Ag oz/t	Pb %	Zn %	Au oz/t	Fe %	Ag gm/MT	Au gm/MT	
								<b>AVERAGES</b>										
			58.46	61.57	3.11					4.1	43.30	27.38	6.97	0.002		1484.47	0.07	

PROPERTY MIDWAY D.D.H. MU 854 - 263 -D50 PAGE 1 OF 4

AREA: SILVER CREEK NORTH DIP: 2 ° AZIMUTH (I): 335 ° DEPTH: 150.57m

CLAIM: BULL 23 NORTHING: 6643628.58 DATE STARTED: OCT. 6A 1985

SECTION: 24810 E EASTING: 424811.13 DATE FINISHED: OCT. 11D 1985

CORE SIZE: BQ:19.29:AG ELEVATION: 1165.5 m CONTRACTOR: CARON DIAMOND DRILLING LTD.

CORE RECOVERY: S- 0 % M- 73 % CORE STORED AT: RACK 9 BAY ME LOGGED BY: W. JAKUBOWSKI

COMMENTS: VERY LIGHTLY RECRYSTALLIZED AND MINOR DOLOMITE PATCHES THROUGHOUT HOLE. Fe OXIDES OCCUR ON FRACTURES BETWEEN 133.81 AND 142.34

SURVEY DATA			GEOLOGY AND ASSAY RECORD														
Depth	Dip	Az (I)	From (m)	To (m)	Int. (m)	T.W. (m)	Geology	Sample No.	Rec. %	S.G.	Ag oz/t	Pb %	Zn %	Au oz/t	Fe %	Ag gm/MT	Au gm/MT
0.00	3.34°	333.66°	0.00	1.49	1.49		MLS										
			1.49	2.74	1.25		MLSMS										
			2.74	3.47	0.73		LZ										
			3.47	4.27	0.80		NR										
			4.27	4.60	0.33		LZ										
			4.60	5.44	0.84		NR										
			5.44	5.90	0.46		LZ										
			5.90	7.10	1.20		NR										
			7.10	7.40	0.30		LZ										
			7.40	8.70	1.30		NR										
			8.70	8.84	0.14		MLS?										
			8.84	8.90	0.06		LZ										
			8.90	10.30	1.40		NR										
			10.30	11.89	1.59		LZ										
			11.89	13.25	1.36		NR										
			13.25	14.02	0.77		LZ										
			14.02	18.29	4.27		CAVE										
			18.29	18.37	0.08		LOX										
			18.37	23.77	5.40		MLS										
			23.77	25.30	1.53		CAVE										
			25.30	25.91	0.61		MLS										
			25.91	27.28	1.37		CAVE										
			27.28	27.89	0.61		MLS										
			27.89	30.48	2.59		CAVE										
			30.48	31.09	0.61		MLS										
			31.09	31.85	0.76		CAVE										
			31.85	38.66	6.81		MLS										
			38.66	44.10	5.44		MLSCR										
			44.10	45.46	1.36		1ARB										
			45.46	45.72	0.26		MLS										
								CONTINUED									

PROPERTY MIDWAY D.D.H. MU 854 - 263 -D50 PAGE 2 OF 4

AREA: \_\_\_\_\_ DIP: \_\_\_\_\_ AZIMUTH (t): \_\_\_\_\_ DEPTH: \_\_\_\_\_  
 CLAIM: \_\_\_\_\_ NORTHING: \_\_\_\_\_ DATE STARTED: \_\_\_\_\_  
 SECTION: \_\_\_\_\_ EASTING: \_\_\_\_\_ DATE FINISHED: \_\_\_\_\_  
 CORE SIZE: \_\_\_\_\_ ELEVATION: \_\_\_\_\_ CONTRACTOR: \_\_\_\_\_  
 CORE RECOVERY: \_\_\_\_\_ CORE STORED AT: \_\_\_\_\_ LOGGED BY: \_\_\_\_\_  
 COMMENTS: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

SURVEY DATA			GEOLOGY AND ASSAY RECORD														
Depth	Dip	Az (t)	From (m)	To (m)	Int. (m)	T.W. (m)	Geology	Sample No.	Rec. %	S.G.	Ag oz/t	Pb %	Zn %	Au oz/t	Fe %	Ag gm/MT	Au gm/MT
			45.72	46.18	0.46		CAVE										
			46.18	60.88	14.70		MLS										
			60.88	61.54	0.66		MLSCR										
			61.54	65.51	3.97		MLS										
			65.51	73.70	8.19		LZ										
			73.70	74.31	0.61		MLSCR										
			74.31	74.64	0.33		LZ										
			74.64	75.67	1.03		MLSPY										
			75.67	76.40	0.73		MLS										
			76.40	77.00	0.60		LZMLS										
			77.00	77.90	0.90		LZ										
			77.90	80.45	2.55		LZMLS										
			80.45	81.94	1.49		MLSRB										
			81.94	84.17	2.23		MLS										
			84.17	84.41	0.24		1ARB										
			84.41	85.27	0.86		MLS										
			85.27	91.27	6.00		MLSRB										
			91.27	92.33	1.06		MLSCR										
			92.33	93.04	0.71		MLSRB										
			93.04	93.94	0.90		MLSCR										
			93.94	94.31	0.37		MLSMS										
			94.31	97.23	2.92		MLSCR										
			97.23	98.32	1.09		LOX										
			98.32	100.43	2.11		MLSMS										
			100.43	123.39	22.96		ML2										
			123.39	124.05	0.66		ML2CR										
			124.05	126.19	2.14		ML2										
			126.19	126.29	0.10		ML2GM										
			126.29	131.80	5.51		ML2										
			131.80	132.80	1.00		ML2CR										
			132.80	133.54	0.74		MLS										
								CONTINUED									



PROPERTY MIDWAY D.D.H. MU 854 - 263 -D50 PAGE 4 OF 4

AREA: \_\_\_\_\_ DIP: \_\_\_\_\_ AZIMUTH (I): \_\_\_\_\_ DEPTH: \_\_\_\_\_  
 CLAIM: \_\_\_\_\_ NORTHING: \_\_\_\_\_ DATE STARTED: \_\_\_\_\_  
 SECTION: \_\_\_\_\_ EASTING: \_\_\_\_\_ DATE FINISHED: \_\_\_\_\_  
 CORE SIZE: \_\_\_\_\_ ELEVATION: \_\_\_\_\_ CONTRACTOR: \_\_\_\_\_  
 CORE RECOVERY: \_\_\_\_\_ CORE STORED AT: \_\_\_\_\_ LOGGED BY: \_\_\_\_\_  
 COMMENTS: \_\_\_\_\_

SURVEY DATA			GEOLOGY AND ASSAY RECORD														
Depth	- Dip	Az (I)	From (m)	To (m)	Int. (m)	T.W. (m)	Geology	Sample No.	Rec. %	S.G.	Ag oz/l	Pb %	Zn %	Au oz/l	Fe %	Ag gm/MT	Au gm/MT
			64.51	65.51	1.00		MLS	72323	95	2.8	1.68	0.96	1.20	0.002		57.60	0.07
			65.51	66.75	1.24		LZ	72324	79	4.3	24.16	18.45	19.40	0.020		828.34	0.69
			66.75	68.20	1.45		LZ	72325	88	4.5	9.45	7.64	10.82	0.115		324.00	3.94
			68.20	70.32	2.12		LZ	72326	100	3.8	4.65	4.50	6.60	0.046		159.43	1.58
			70.32	71.02	0.70		LZ	72327	100	5.3	57.53	49.60	12.30	0.004		1972.46	0.14
			71.02	73.70	2.68		LZ	72328	77	4.1	7.28	5.08	16.70	0.092		249.60	3.15
			73.70	74.31	0.61		MLSCR	72329	100	2.9	6.54	4.98	2.57	0.006		224.23	0.21
			74.31	74.64	0.33		LZ	72330	100	4.3	7.93	6.18	18.10	0.166		271.89	5.69
			74.64	76.40	1.76		MLSPY	72331	100	3.1	2.30	1.53	5.25	0.019		78.86	0.65
			76.40	77.00	0.60		LZMLS	72332	97	3.5	2.50	2.21	4.73	0.008		85.71	0.27
			77.00	77.90	0.90		LZ	72333	96	3.9	3.39	2.20	10.00	0.098		116.23	3.36
			77.90	80.45	2.55		LZMLS	72334	100	3.7	10.34	7.80	13.05	0.140		354.51	4.80
			80.45	81.45	1.00		MLSRB	72335	100	2.8	1.79	1.69	0.98	0.008		61.37	0.27
								<b>AVERAGES</b>									
			2.74	14.02	11.28					2.6	8.48	7.66	7.59	0.040		290.71	1.37
			65.51	74.64	9.13					4.1	14.40	11.69	12.87	0.066		493.61	2.27
			77.00	80.45	3.45					3.8	8.46	6.28	12.22	0.129		289.90	4.41
			65.51	80.45	14.94					3.9	11.52	9.20	11.72	0.073		394.87	2.52
			74.64	80.45	5.81					3.5	6.21	4.60	9.60	0.087		212.82	2.99

PROPERTY: MIDWAY D.D.H. MU 85 - 269 -E291 PAGE 1 OF 4  
 AREA: SILVER CREEK SOUTH DIP: -73 ° AZIMUTH (I): 180 ° DEPTH: 124.66m  
 CLAIM: BULL 16 NORTHING: 6643321.3 DATE STARTED: OCT 14M 1985  
 SECTION: 24960 E EASTING: 424960.32 DATE FINISHED: OCT 17G 1985  
 CORE SIZE: BQ ELEVATION: 1132.7 m CONTRACTOR: CARON DIAMOND DRILLING LTD.  
 CORE RECOVERY: S- 77 % M- 97 % CORE STORED AT: RACK 9 BAY DE LOGGED BY: W. JAKUBOWSKI  
 COMMENTS: CORE TO BEDDING ANGLE AT 20m IS 62 DEG. MINOR HONEY COLOURED SPHALERITE OCCURS AT 115.14m CONTACT OF LZ.

SURVEY DATA				GEOLOGY AND ASSAY RECORD													
Depth	Dip	Az (I)	From (m)	To (m)	Int. (m)	T.W. (m)	Geology	Sample No.	Rec. %	S.G.	Ag oz/t	Pb %	Zn %	Au oz/t	Fe %	Ag gm/MT	Au gm/MT
0.00	-72.38°	187.13°	0.00	23.75	23.75		1B										
31.67	-79.00°	171.60°	23.75	24.08	0.33		1BGM										
63.27	-82.00°	172.60°	24.08	32.50	8.42		1B										
118.57	-84.00°	172.60°	32.50	35.20	2.70		1BA										
			35.20	36.27	1.07		GM										
			36.27	38.80	2.53		1BA										
			38.80	38.90	0.10		GM										
			38.90	39.60	0.70		1A?										
			39.60	40.84	1.24		GM										
			40.84	42.50	1.66		1AC										
			42.50	43.89	1.39		GM										
			43.89	49.58	5.69		1B										
			49.58	53.40	3.82		1BA										
			53.40	54.50	1.10		1A										
			54.50	62.59	8.09		ML1										
			62.59	63.17	0.58		ML1PY										
			63.17	65.15	1.98		ML1										
			65.15	70.15	5.00		ML1CR										
			70.15	70.71	0.56		ML1										
			70.71	70.84	0.13		LZ										
			70.84	71.80	0.96		ML1CR										
			71.80	72.93	1.13		ML1										
			72.93	73.22	0.29		LZ										
			73.22	76.21	2.99		ML1										
			76.21	80.09	3.88		ML2										
			80.09	80.32	0.23		ML2PY										
			80.32	84.27	3.95		ML2										
			84.27	84.63	0.36		ML2MS										
			84.63	85.56	0.93		LZ										
			85.56	85.94	0.38		ML2										
								CONTINUED									

PROPERTY MIDWAY D.D.H. MU 85 - 269 -E291 PAGE 2 OF 4

AREA: \_\_\_\_\_ DIP: \_\_\_\_\_ AZIMUTH (t): \_\_\_\_\_ DEPTH: \_\_\_\_\_  
 CLAIM: \_\_\_\_\_ NORTHING: \_\_\_\_\_ DATE STARTED: \_\_\_\_\_  
 SECTION: \_\_\_\_\_ EASTING: \_\_\_\_\_ DATE FINISHED: \_\_\_\_\_  
 CORE SIZE: \_\_\_\_\_ ELEVATION: \_\_\_\_\_ CONTRACTOR: \_\_\_\_\_  
 CORE RECOVERY: \_\_\_\_\_ CORE STORED AT: \_\_\_\_\_ LOGGED BY: \_\_\_\_\_  
 COMMENTS: \_\_\_\_\_

SURVEY DATA			GEOLOGY AND ASSAY RECORD														
Depth	Dip	Az (t)	From (m)	To (m)	Int (m)	T.W. (m)	Geology	Sample No.	Rec. %	S.G.	Ag oz/t	Pb %	Zn %	Au oz/t	Fe %	Ag gm/MT	Au gm/MT
			85.94	86.27	0.33		LZ										
			86.27	88.25	1.98		ML2										
			88.25	91.65	3.40		LZ										
			91.65	92.27	0.62		LZMLS										
			92.27	92.58	0.31		LZ										
			92.58	93.82	1.24		ML2										
			93.82	94.15	0.33		ML2PY										
			94.15	94.78	0.63		LZML2										
			94.78	97.69	2.91		ML2										
			97.69	99.38	1.69		LZ										
			99.38	100.13	0.75		ML2										
			100.13	101.25	1.12		MLSCR										
			101.25	103.95	2.70		ML3?										
			103.95	104.34	0.39		Ca LZ										
			104.34	106.20	1.86		Ca Vn										
			106.20	106.47	0.27		ML3?										
			106.47	107.43	0.96		ML3										
			107.43	107.87	0.44		MLSMS										
			107.87	108.65	0.78		ML3CR										
			108.65	109.70	1.05		ML3MS										
			109.70	110.30	0.60		Ca Vn										
			110.30	111.43	1.13		ML3CR										
			111.43	112.32	0.89		Ca Vn										
			112.32	112.50	0.18		ML3MS										
			112.50	113.64	1.14		ML3CR										
			113.64	113.84	0.20		Ca Vn										
			115.14	115.14	0.00		ML3										
			115.14	115.33	0.19		LZ										
			115.33	116.40	1.07		MLSMS										
			116.40	120.50	4.10		Ca Vn										
			120.50	121.47	0.97		MLSMS										
								CONTINUED									



PROPERTY MIDWAY D.D.H. MU 85 - 269 -E291 PAGE 3 OF 4

AREA: \_\_\_\_\_ DIP: \_\_\_\_\_ AZIMUTH (I): \_\_\_\_\_ DEPTH: \_\_\_\_\_  
 CLAIM: \_\_\_\_\_ NORTHING: \_\_\_\_\_ DATE STARTED: \_\_\_\_\_  
 SECTION: \_\_\_\_\_ EASTING: \_\_\_\_\_ DATE FINISHED: \_\_\_\_\_  
 CORE SIZE: \_\_\_\_\_ ELEVATION: \_\_\_\_\_ CONTRACTOR: \_\_\_\_\_  
 CORE RECOVERY: \_\_\_\_\_ CORE STORED AT: \_\_\_\_\_ LOGGED BY: \_\_\_\_\_  
 COMMENTS: \_\_\_\_\_

SURVEY DATA			GEOLOGY AND ASSAY RECORD														
Depth	Dip	Az (t)	From (m)	To (m)	Int. (m)	T.W. (m)	Geology	Sample No.	Rec. %	S.G.	Ag oz/t	Pb %	Zn %	Au oz/t	Fe %	Ag gm/MT	Au gm/MT
			121.47	121.65	0.18		MLSPY										
			121.65	122.01	0.36		ML3?										
			122.01	122.34	0.33		MLSMS										
			122.34	124.66	2.32		MLSCR										
<b>ASSAYS</b>																	
			69.71	70.71	1.00		ML1	72392	100	2.8	0.03	0.01	< 0.01	< 0.002		1.03	< 0.07
			70.71	70.84	0.13		LZ	72393	100	4.9	25.14	24.60	14.68	< 0.002		861.94	< 0.07
			70.84	72.93	2.09		ML1	72394	100	2.7	0.44	0.39	0.17	< 0.002		15.09	< 0.07
			72.93	73.22	0.29		LZ	72395	100	4.8	65.47	39.38	16.85	0.004		2244.68	0.14
			73.22	74.22	1.00		ML1	72396	94	2.8	0.52	0.32	0.09	< 0.002		17.83	< 0.07
			83.63	84.63	1.00		ML1	72397	99	2.7	0.18	0.12	0.04	< 0.002		6.17	< 0.07
			84.63	85.56	0.93		LZ	72398	100	4.9	53.50	36.15	8.80	0.004		1834.29	0.14
			85.56	85.94	0.38		ML2	72399	100	2.9	8.22	6.23	1.85	< 0.002		281.83	< 0.07
			85.94	86.27	0.33		LZ	72400	100	4.3	13.71	10.65	7.60	0.002		470.06	0.07
			86.27	88.25	1.98		ML3	72401	91	2.8	1.78	1.41	0.32	< 0.002		61.03	< 0.07
			88.25	88.89	0.64		LZ	72402	95	3.8	30.46	20.80	8.20	0.005		1044.34	0.17
			88.89	90.29	1.40		LZ	72403	100	4	13.67	8.15	17.10	0.004		468.69	0.14
			90.29	91.65	1.36		LZ	72404	100	3.9	16.96	10.80	15.50	0.003		581.49	0.10
			91.65	92.27	0.62		LZMLS	72405	100	3.1	1.32	0.50	12.10	0.004		45.26	0.14
			92.27	92.58	0.31		LZ	72406	100	3.6	4.73	2.20	16.04	0.002		162.17	0.07
			92.58	93.82	1.24		ML2	72407	95	2.7	0.06	0.04	0.04	< 0.002		2.06	< 0.07
			93.82	94.78	0.96		LZMLS	72408	98	3.8	1.86	0.24	6.20	0.002		63.77	0.07
			94.78	97.69	2.91		ML2	72409	99	2.7	0.75	0.55	0.19	< 0.002		25.71	< 0.07
			97.69	98.51	0.82		LZ	72410	100	4.4	45.62	26.45	21.59	0.004		1564.11	0.14
			98.51	99.38	0.87		LZ	72411	99	4	15.95	4.92	25.02	0.002		546.86	0.07
			99.38	100.38	1.00		ML2	72412	99	2.8	0.18	0.06	0.20	< 0.002		6.17	< 0.07
			102.95	103.95	1.00		ML3	72413	97	2.7	0.05	0.01	0.04	< 0.002		1.71	< 0.07
			103.95	104.34	0.39		LZ Ca	72414	100	2.9	5.36	3.36	3.70	< 0.002		183.77	< 0.07
<b>CONTINUED</b>																	

PROPERTY \_\_\_\_\_ MIDWAY \_\_\_\_\_ D.D.H. MU 85 - 269 - E291 \_\_\_\_\_ PAGE 4 OF 4

AREA: \_\_\_\_\_ CLAIM: \_\_\_\_\_ SECTION: \_\_\_\_\_ CORE SIZE: \_\_\_\_\_ CORE RECOVERY: \_\_\_\_\_ COMMENTS: \_\_\_\_\_

DIP: \_\_\_\_\_ NORTHING: \_\_\_\_\_ EASTING: \_\_\_\_\_ ELEVATION: \_\_\_\_\_

AZIMUTH (t): \_\_\_\_\_ DATE STARTED: \_\_\_\_\_ DATE FINISHED: \_\_\_\_\_ CONTRACTOR: \_\_\_\_\_ LOGGED BY: \_\_\_\_\_

CORE STORED AT: \_\_\_\_\_

SURVEY DATA			GEOLOGY AND ASSAY RECORD														
Depth	Dip	Az (t)	From (m)	To (m)	Int. (m)	T.W. (m)	Geology	Sample No.	Rec. %	S.G.	Ag oz/t	Pb %	Zn %	Au oz/t	Fe %	Ag g#/MT	Au g#/MT
			104.34	105.34	1.00		Ca Vn	72415	95	2.7	0.10	0.06	0.11	0.002		3.43	0.07
			114.14	115.14	1.00		ML3	72416	100	2.7	0.06	0.02	0.06	0.002		2.06	0.07
			115.14	115.33	0.19		LZ	72417	100	3.9	17.59	10.95	18.33	0.004		603.09	0.14
			115.33	116.33	1.00		ML3CR	72418	100	2.8	1.12	0.95	0.14	0.002		38.40	0.07
<b>AVERAGES</b>																	
			70.71	73.22	2.51					3.1	14.29	9.47	4.40	0.002		489.94	0.05
			84.63	92.58	7.95					3.6	18.30	12.12	10.13	0.003		627.38	0.10
			97.69	99.38	1.69					4.2	31.05	15.88	23.27	0.003		1064.67	0.10

PROPERTY: MIDWAY D.D.H. MU 85 - 271 -E291 PAGE 1 OF 2  
 AREA: SILVER CREEK SOUTH DIP: -75 ° AZIMUTH (I): 0 ° DEPTH: 109.73m  
 CLAIM: BULL 1E NORTHING: 6643322.34 DATE STARTED: OCT 17G 1985  
 SECTION: 24960 E EASTING: 424959.95 DATE FINISHED: OCT 18A 1985  
 CORE SIZE: RQ ELEVATION: 1132.82 m CONTRACTOR: CARON DIAMOND DRILLING LTD.  
 CORE RECOVERY: S- 82 % M- 98 % CORE STORED AT: RACK 9 BAY PE LOGGED BY: W. JAKUBOWSKI  
 COMMENTS: CORE TO BEDDING ANGLE AT 4.2m IS 79 DEG. SOME SLUMP BRECCIATION IN UNIT 1B FROM 42.00 TO 47.9m.  
RB BRECCIAS HAVE CARBONACEOUS MATRICES. MINOR DOLOMITIZATION THROUGHOUT.

SURVEY DATA			GEOLOGY AND ASSAY RECORD														
Depth	Dip	Az (I)	From (m)	To (m)	Int. (m)	T.W. (m)	Geology	Sample No.	Rec. %	S.G.	Ag oz/t	Pb %	Zn %	Au oz/t	Fe %	Ag gm/MT	Au gm/MT
0.00	-75.98°	359.72°	0.00	20.30	20.30		1B										
38.31	-77.30°	12.10°	20.30	20.80	0.50		1BGM										
105.13	-76.30°	8.60°	20.80	47.90	27.10		1B										
			47.90	52.60	4.70		1AGM										
			52.60	53.04	0.44		MLSRB										
			53.04	53.45	0.41		MLS										
			53.45	53.80	0.35		1ARB										
			53.80	54.07	0.27		ML1										
			54.07	54.27	0.20		ML1ST										
			54.27	59.93	5.66		ML1CR										
			59.93	60.50	0.57		ML1MS										
			60.50	61.20	0.70		MLSCR										
			61.20	61.56	0.36		MLSMS										
			61.56	67.69	6.13		ML2CR										
			67.69	69.61	1.92		ML2										
			69.61	69.89	0.28		ML2MS										
			69.89	70.33	0.44		ML2CR										
			70.33	73.56	3.23		ML2										
			73.56	80.64	7.08		ML3										
			80.64	81.20	0.56		ML3CR										
			81.20	81.37	0.17		ML3										
			81.37	81.99	0.62		LR										
			81.99	89.03	7.04		ML3										
			89.03	90.13	1.10		LZ										
			90.13	91.43	1.30		ML3CR										
			91.43	92.00	0.57		ML4										
			92.00	92.83	0.83		MLSMS										
			92.83	94.90	2.07		MLSCR										
			94.90	95.04	0.14		MLSMS										
			95.04	95.13	1.09		MLSCR										
								CONTINUED									

PROPERTY MIDWAY D.D.H. MU 85 - 271 -E291 PAGE 2 OF 2

AREA: \_\_\_\_\_ DIP: \_\_\_\_\_ AZIMUTH (I): \_\_\_\_\_ DEPTH: \_\_\_\_\_  
 CLAIM: \_\_\_\_\_ NORTHING: \_\_\_\_\_ DATE STARTED: \_\_\_\_\_  
 SECTION: \_\_\_\_\_ EASTING: \_\_\_\_\_ DATE FINISHED: \_\_\_\_\_  
 CORE SIZE: \_\_\_\_\_ ELEVATION: \_\_\_\_\_ CONTRACTOR: \_\_\_\_\_  
 CORE RECOVERY: \_\_\_\_\_ CORE STORED AT: \_\_\_\_\_ LOGGED BY: \_\_\_\_\_  
 COMMENTS: \_\_\_\_\_

SURVEY DATA			GEOLOGY AND ASSAY RECORD														
Depth	Dip	Az (I)	From (m)	To (m)	Int. (m)	T.W. (m)	Geology	Sample No.	Rec. %	S.G.	Ag oz/t	Pb %	Zn %	Au oz/t	Fe %	Ag gm/MT	Au gm/MT
			96.13	96.95	0.82		ML5										
			96.95	97.94	0.99		LRLZ										
			97.94	100.73	2.79		LZ										
			100.73	101.85	1.12		LR										
			101.85	102.89	1.04		ML5CR										
			102.89	104.22	1.33		MLS										
			104.22	104.69	0.47		LR										
			104.69	109.73	5.04		MLS										
<b>ASSAYS</b>																	
			88.03	89.03	1.00		ML3	72426	99	2.7	0.06	0.02	0.06	0.002		2.06	0.07
			89.03	90.13	1.10		LZ	72427	94	3.9	5.99	2.60	9.70	0.005		205.37	0.17
			90.13	91.13	1.00		ML3	72428	99	2.8	0.18	0.05	0.25	0.003		6.17	0.10
			95.95	96.95	1.00		LR	72429	100	2.7	0.06	< 0.01	0.02	< 0.002		2.06	< 0.07
			96.95	97.94	0.99		LRLZ	72430	98	3.2	0.38	0.02	1.41	< 0.002		13.03	< 0.07
			97.94	99.36	1.42		LZ	72431	100	3.8	5.01	1.90	11.68	0.002		171.77	0.07
			99.36	100.73	1.37		LZ	72432	87	3.6	0.36	0.04	0.33	0.002		12.34	0.07
			100.73	101.73	1.00		LR	72433	97	2.8	0.08	< 0.01	0.02	< 0.002		2.74	< 0.07

## CHAPTER 5.0

## CONCLUSIONS

Underground exploration to date of the Silver Creek deposits indicates that:

- a) Ground water flow into underground openings can be controlled by a combination of grouting and pumping;
- b) Shale backs can be supported satisfactorily with an inexpensive combination of rock bolts, straps and screens;
- c) Pockets of oxidized sulphides, encountered only at shallow depths, can be bypassed during mining;
- d) The limestone does not require artificial support;
- e) Massive sulphide bodies in the Silver Creek North area are irregular in outline, lenticular but continuous, and are found at or immediately below the shale/limestone contact, and appear to remain at approximately the same elevation as they follow the contact;
- f) Mineralization in the Silver Creek South area occurs anywhere between the shale/limestone contact and 120 m below the contact;
- g) The shape of the mineralized bodies in Silver Creek South is unknown, and can only be determined by very close-spaced diamond drilling; and
- h) Massive sulphides intersected in diamond drill holes in the Discovery Area appear to have the same controls as those in the Silver Creek North area, based on previous work.

## CHAPTER 6.0

## RECOMMENDATIONS

It is recommended that:

- a) The orientation of the massive sulphide bodies in the Discovery Area be determined by surface diamond drilling before proceeding with underground exploration in the area;
- b) The extent of the relatively shallow, high grade mineralization intersected in DDH84-81 be determined by diamond drilling; and
- c) The large, high value soil anomaly on the Bull 7 claim be explored with diamond drill holes.

## CHAPTER 7.0

## COST STATEMENTS

7.1 UNDERGROUND EXCAVATION

Professional Services	83,704.79
Management Fee	79,253.00
Salaries and Benefits	69,753.38
Consultants, Special Studies	172,410.68
Drafting, Printing	6,218.00
Helicopter	9,250.29
Rentals - Trucks	28,217.66
- Generators, Loader	91,381.28
- Survey Equipment	4,957.23
- Storage Tanks	11,290.00
- Sump Pumps	6,816.34
Telephone, Postage	74,338.43
Freight, Express, Delivery	38,653.82
Travel	16,568.53
Canadian Mine Development	1,954,210.44
Supplies - Office	5,810.38
- Surveying	890.90
- Camp	5,076.46
- Portal	23,811.28
Durable Equipment - Camp	64,977.36
- Underground	28,628.38
Explosives	271,635.06
Fuel - Diesel, Gasoline	246,157.27
- Propane	133,991.04
- Aviation	2,537.89
Repairs - Vehicles	267.86
- Equipment	1,341.60
Camp Construction, Maintenance	51,578.59
Portal Construction, Maintenance	36,238.26
Road Construction, Maintenance	277,519.98
Ground Support, Underground	60,988.22
Water Analyses	2,663.15
Food	2,689.21
Insurance	7,094.86
Safety Equipment	292.11
	<hr/>
	\$3,871,213.73

7.1 UNDERGROUND EXCAVATION (Continued)

Metres of advance during period = 1440.32

$$\text{Cost/m} = \frac{\$3,871,213.73}{1440.32} = \$2687.75/\text{m}$$

7.2 UNDERGROUND DIAMOND DRILLING

Payments to Contractor for Period April 15 - September 15, 1985

May 1 - 31	\$122,644.07
June 1 - 30	156,595.08
July 1 - 31	126,884.91
August 1 - 31	146,883.90
September 1 - 15	<u>65,251.73</u>
	\$618,279.69

Metres drilled during period = 10,413.25

$$\text{Cost/m} = \frac{\$618,279.69}{10,413.25} = \$59.374/\text{m}$$



## CHAPTER 8.0

## ALLOCATION OF COSTS

8.1 UNDERGROUND EXCAVATION

<u>Claim</u>	<u>Heading</u>	<u>Distance</u> <u>m</u>	<u>Cost</u>
Bull 25Fr	A	106.17	\$285,357.95
Bull 16	A	116.63	
	Sump	55.62	
	B	134.74	
	E	118.31	
	Remucks	26.00	
		<u>451.30</u>	\$1,212,979.58
Bull 23	A	165.75	
	B	126.00	
	C	70.22	
	D	56.90	
	E	274.48	
	F	18.00	
	G	52.50	
	H	28.00	
	I	53.00	
	Remucks	38.00	
		<u>882.85</u>	\$2,372,876.20
		<u>1440.32</u>	<u>\$3,871,213.73</u>

## 8.2 SURFACE EXCAVATION

Preliminary excavation of proposed second portal and diamond drill site. Work period: September 5 - 24, 1985. Work performed on Bull 25Fr, costs allocated to Bull 5, Way 24Fr, 25Fr, 27Fr, Toots 4, all grouped with Bull 25Fr.

<u>Equipment</u>	<u>Hours</u>	<u>Cost/Hour</u>	<u>Total Cost</u>
Komatsu D1554	37	\$ 154.66	\$ 5,722.42
Liebher 945	110	117.19	12,890.90
14 yd. truck	92.5	64.37	<u>5,954.22</u>
			\$24,567.54

Cost/hour includes equipment rental, fuel and operators room and board.

## 8.3 UNDERGROUND DIAMOND DRILLING

Seven diamond drill holes on Section 24,960E, total meterage = 1077.47 m. All holes drilled on Bull 16, between August 4 and October 18, 1985; costs allocated to Bull 15Fr, Star 2Fr, 3, Beth 1-4, all grouped with Bull 16.

$$1077.47 \text{ m} \times \$59.734/\text{m} = \$63,973.70$$

One diamond drill hole was drilled from the end of "D" drift on the Bull 23 claim between October 6 and October 11, 1985, for 150.97 m. The cost is allocated to the Bull 27Fr and Post 16 claims.

$$150.97 \text{ m} \times \$59.734/\text{m} = \$9,018.04$$

8.4 GROUPING

Group Name	Claims	Units	Record Month	Expiry Date	Credit Available	Years Applied	Value	New Expiry
Bull 16	Bull 16	2	6	1995		0		1995
	18	2	6	1995		0		1995
	Climax 5	20	11	1986	\$1,212,979.58	9	\$36,000	1995
	Bull 15Fr	1	6	1994)		1	200	1995
	Star 2Fr	1	6	1994)		1	200	1995
	3	4	7	1993)		2	1,600	1995
	Beth 1	12	8	1994)	\$ 63,973.70	1	2,400	1995
	2	20	8	1991)		4	16,000	1995
	3	20	8	1991)		4	16,000	1995
	4	18	8	1993)		2	7,200	1995
			100			\$1,276,953.28		\$79,600
Bull 23	Bull 21	2	6	1995		0		1995
	23	2	6	1995		0		1995
	10	2	1	1994)		1	400	1995
	11Fr	1	1	1994)		1	200	1995
	Climax 1	8	11	1994)		1	1,600	1995
	4	20	11	1994)		1	4,000	1995
	8	15	11	1993)	\$2,372,876.20	2	6,000	1995
	9	15	11	1994)		1	3,000	1995
	14Fr	1	10	1994)		1	200	1995
	Post 2	9	4	1994)		1	1,800	1995
	3	20	4	1986)		9	36,000	1995
	14	2	10	1993)		2	800	1995
	Bull 27Fr	1	9	1994)		1	200	1995
	Post 16	2	10	1986)	\$ 9,018.04	9	3,400	1995
		100			\$2,381,894.24		\$57,600	
Bull 25	Bull 25Fr	1	6	1995		0		1995
	1	12	11	1994)		1	2,400	1995
	2	20	11	1992)		3	12,000	1995
	4Fr	1	11	1994)	\$ 285,357.95	1	200	1995
	Way 23	18	11	1994)		1	3,600	1995
	Renee 1	12	11	1991)		4	9,600	1995
	Bull 5	12	7	1994)		1	2,400	1995
	Way 24Fr	1	6	1994)	\$ 24,567.54	1	200	1995
	25Fr	1	6	1994)		1	200	1995
	27Fr	1	6	1994)		1	200	1995
	Toots 4	20	7	1993)		2	8,000	1995
		99			\$ 309,925.49		\$38,800	

## CHAPTER 9.0

## B I B L I O G R A P H Y

CORDILLERAN ENGINEERING

- 1981 Geological and Geochemical Report on Way 1-23, Bull 1-5, Climax 1-11, Post 1 and Macc Mineral Claims, Liard Mining Division, B.C. Assessment Report submitted to British Columbia Ministry of Energy, Mines and Petroleum Resources, December, 1981.
- 1982 Geological, Geochemical, Geophysical and Drilling Report on Way 1-33, Bull 1-6, Climax 1-11, Post 1-10 and Macc Claims, Liard Mining Division, B.C. Assessment Report submitted to British Columbia Ministry of Energy, Mines and Petroleum Resources, January, 1983.
- 1983 Diamond Drilling Report on Way 1-35, Bull 1-27, Climax 1-16, Post 1-16, Beth 1-4, Star 2-3, Renee 1 and Toots 4 Claims, Liard Mining Division, B.C. Assessment Report submitted to British Columbia Ministry of Energy, Mines and Petroleum Resources, January, 1984.
- 1984a Diamond Drilling and Physical Report on Way 1-35, Bull 1-27, Climax 1-16, Post 1-16, Beth 1-4, Star 2-3, Renee 1 and Toots 4 Claims, Liard Mining Division, B.C. Assessment Report submitted to British Columbia Ministry of Energy, Mines and Petroleum Resources, February, 1985.
- 1984b Midway 1984 Summary Report, Unpublished Report submitted to clients.

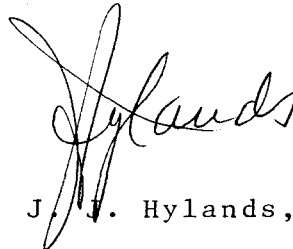
## 10.0 WRITER'S CERTIFICATE

I, J. J. Hylands, with a business address at 1980 - 1055 West Hastings Street, Vancouver, British Columbia, V6E 2E9, do hereby certify that I supervised the field work conducted during the period May 1 to October 19, 1985 on behalf of Regional Resources Ltd., and have assessed the data from this exploration program on the Bull 16, 23 and 25Fr claims.

I also certify that:

1. I am a graduate of the University of British Columbia, Vancouver (B.A.Sc., Geological Engineering, Option I, 1966).
2. I have engaged in the study and practice of mineral exploration since graduation, in Canada, the United States and the Philippines.
3. I am a Professional Engineer registered in the Province of British Columbia.

CORDILLERAN ENGINEERING



J. J. Hylands, P.Eng.

November, 1985  
Vancouver, B.C.  
JJH/nh



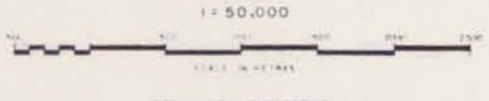
**GEOLOGICAL BRANCH  
ASSESSMENT REPORT**

**14,104**

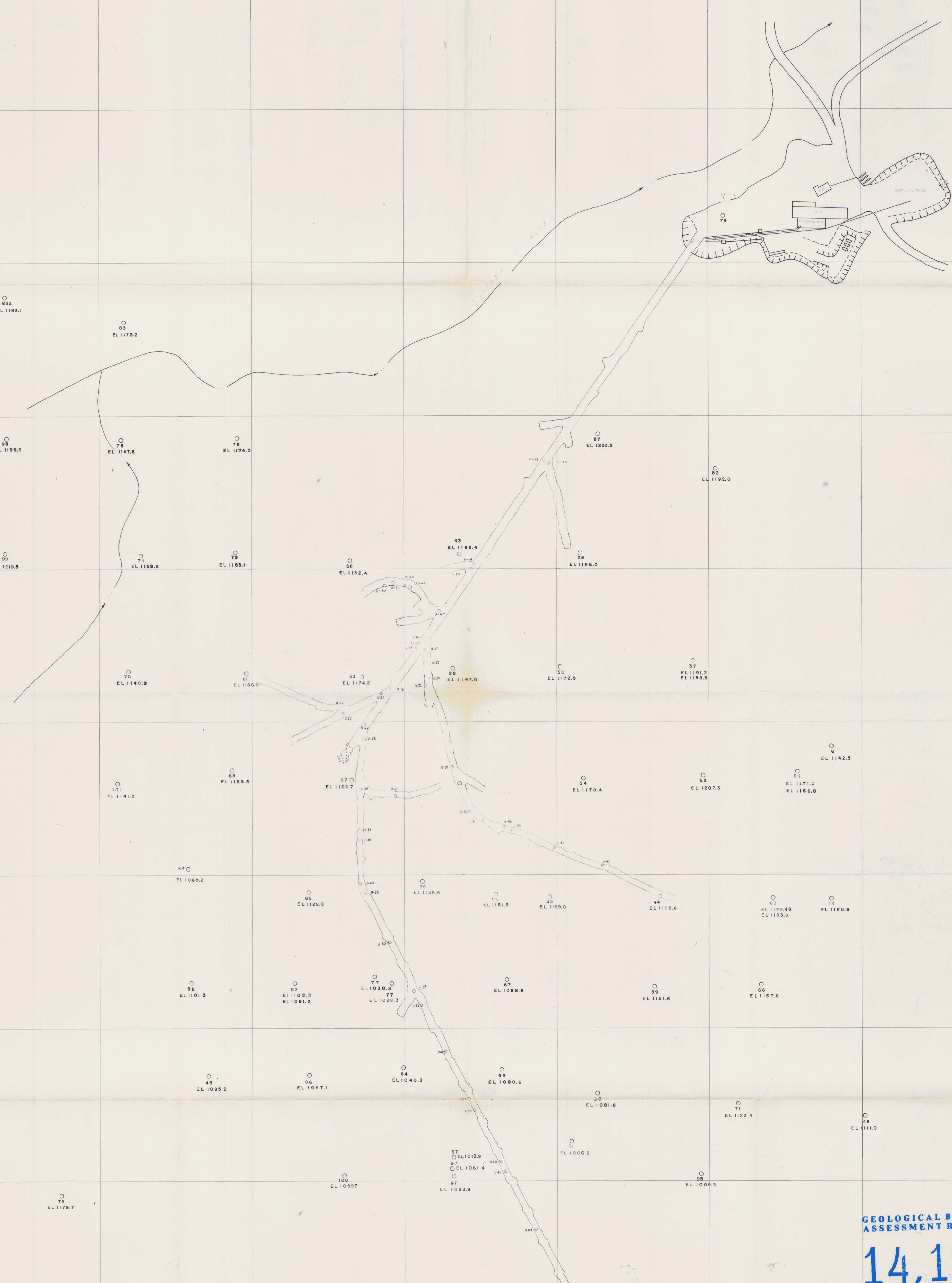
EXPLANATION  
 O LOCATION BY LEGAL CORNER POST  
 WXYZ UNREGISTERED CLAIMS ARE LETTERED IN ITALICS IN THIS REPORT  
 CLAIMS BULL 8, 13 & 14 ARE IN DISPUTE

*[Signature]*

REGIONAL RESOURCES LTD  
 CANAMAX RESOURCES INC  
 MIDWAY PROPERTY  
 SURVEYED CLAIMS  
 LIARD MINING DIVISION, B.C. JURISDICTION  
 WATSON LAKE MINING DISTRICT, Y.T. USE 1

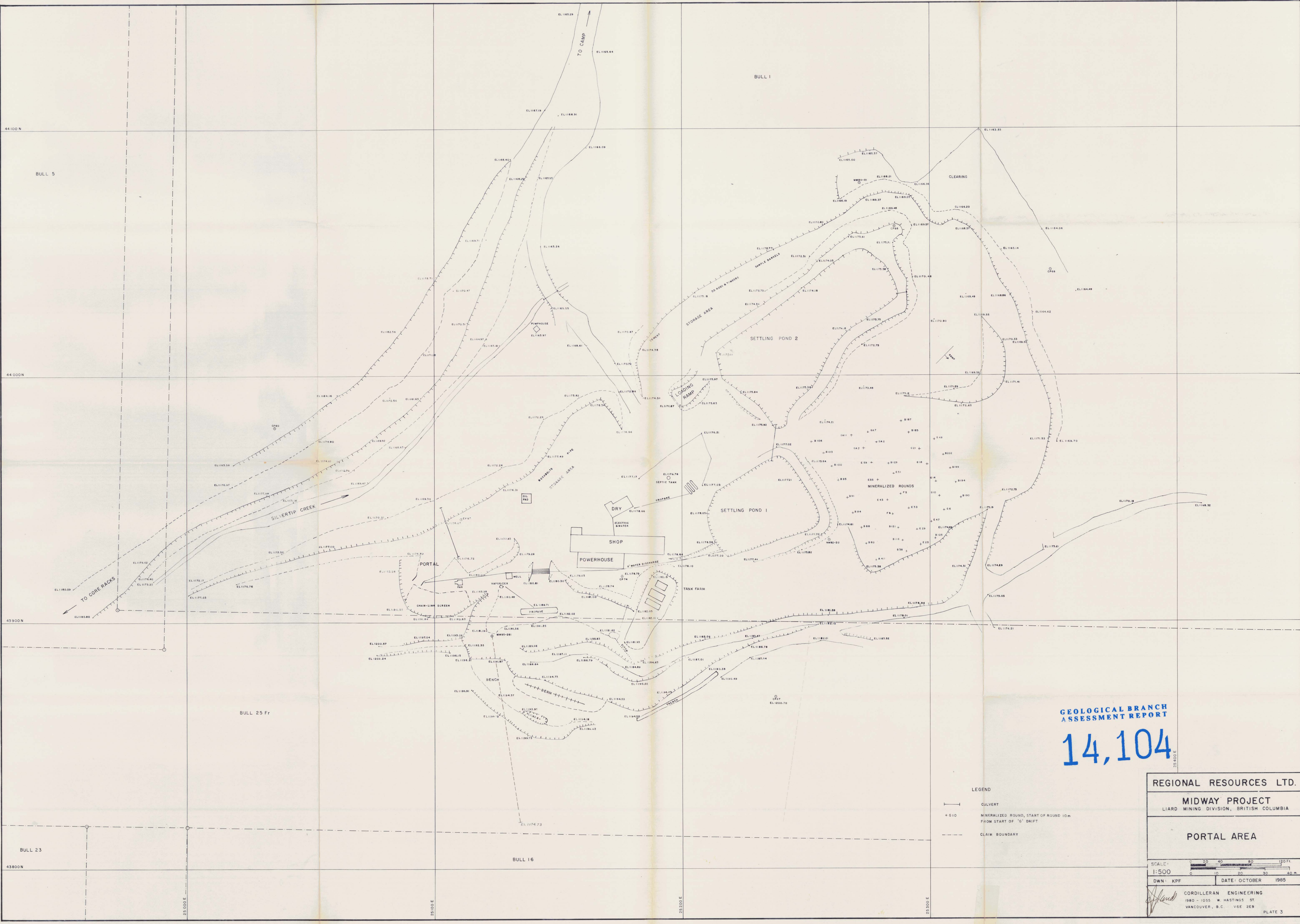


CORDILLEAN ENGINEERING  
 400-10 BURROUGHS STREET  
 WATSON LAKE, YUKON  
 NOV 1983 PLATE 1



**GEOLOGICAL BRANCH  
ASSESSMENT REPORT**  
**14,104**

<b>REGIONAL RESOURCES LTD.</b>	
MIDWAY PROJECT LIARD MINING DIVISION, BRITISH COLUMBIA	
UNDERGROUND DEVELOPMENT PLAN SILVER CREEK ZONE	
SCALE: 1:1000	
DWN: GHC	DATE: FEB 11, 1985
CORDILLERAN ENGINEERING 1980 - 1055 W. HASTINGS ST. VANCOUVER, B.C. V6E 2E9	
PLATE 2	



GEOLOGICAL BRANCH  
ASSESSMENT REPORT

14,104

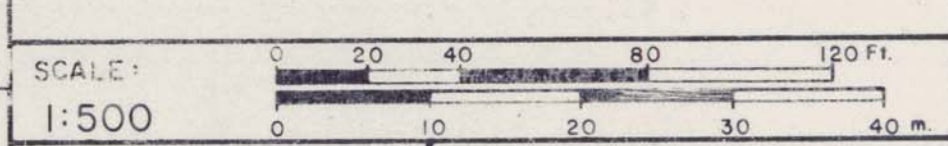
LEGEND

- CULVERT
- + G10 MINERALIZED ROUND, START OF ROUND 10m FROM START OF 'G' DRIFT
- - - CLAIM BOUNDARY

REGIONAL RESOURCES LTD.

MIDWAY PROJECT  
LIARD MINING DIVISION, BRITISH COLUMBIA

PORTAL AREA



SCALE: 1:500  
DWN: KPF DATE: OCTOBER 1985

CORDILLERAN ENGINEERING  
1980 - 1055 W. HASTINGS ST.  
VANCOUVER, B.C. V6E 2E9  
PLATE 3



**GEOLOGICAL BRANCH  
ASSESSMENT REPORT**

**14,104**

REGIONAL RESOURCES LTD.

MIDWAY PROJECT  
LIARD MINING DIVISION, BRITISH COLUMBIA

SILVER CREEK NORTH  
DIAMOND DRILL PLAN  
WEST END OF 'D' DRIFT

*[Handwritten Signature]*

SCALE: 1:500

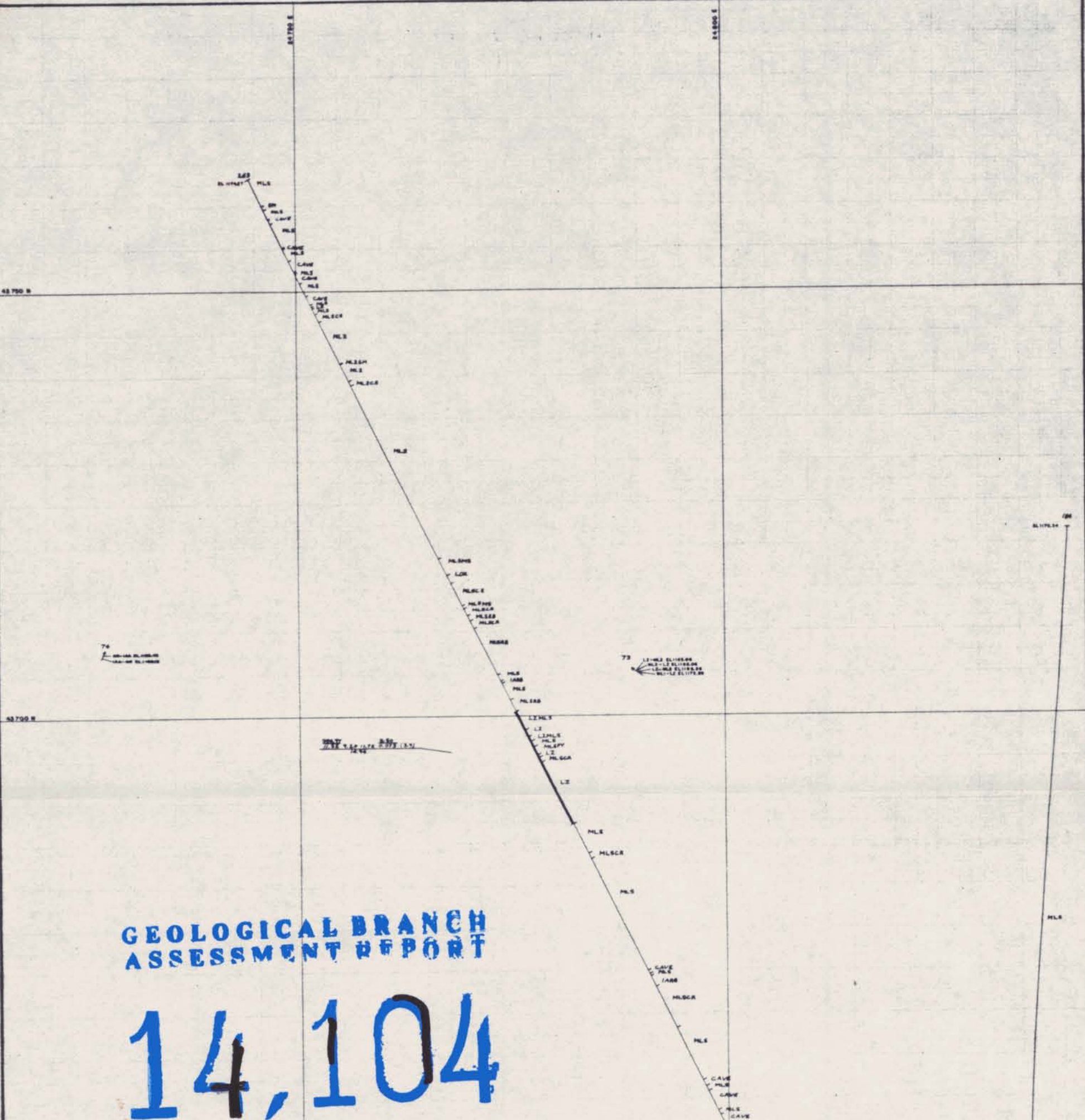
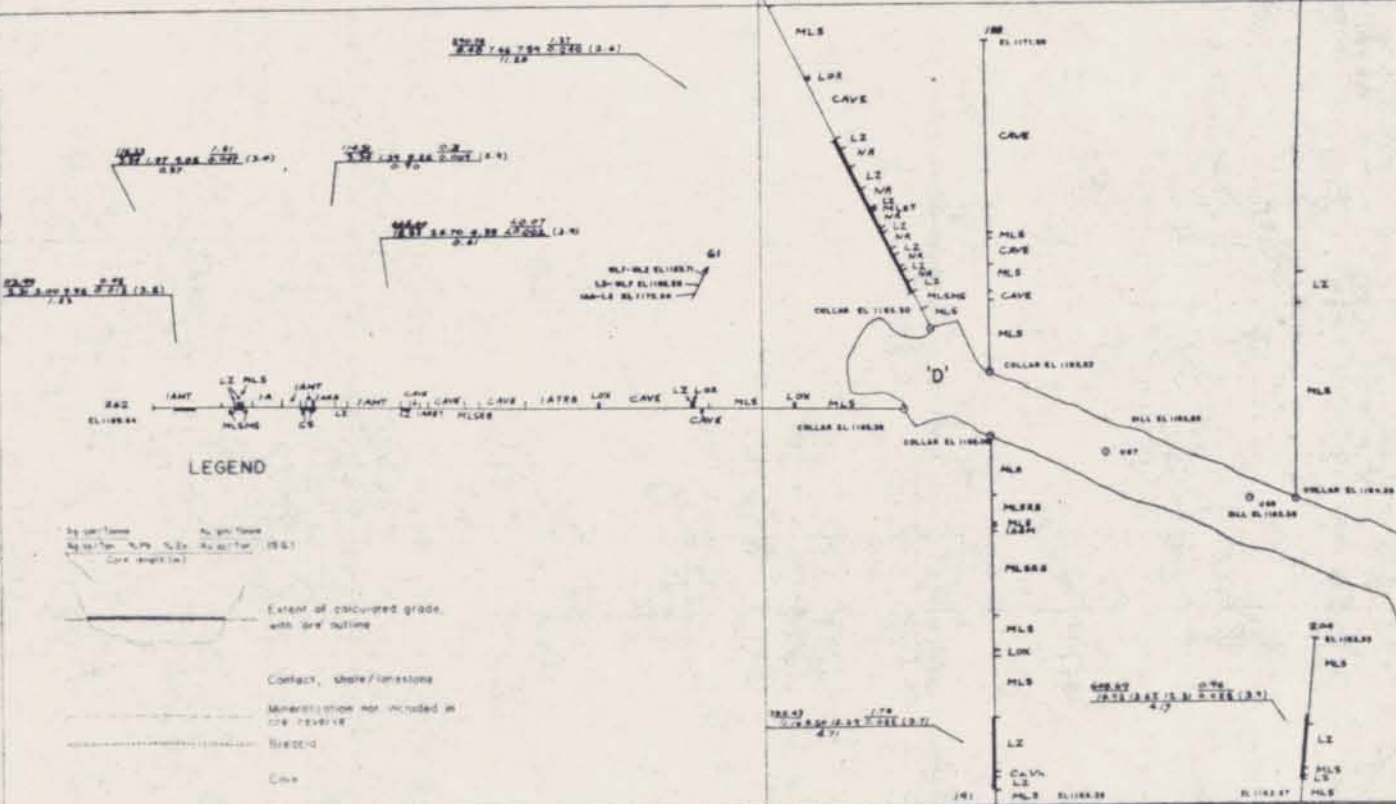
OWN: KPF DATE: OCTOBER 1985

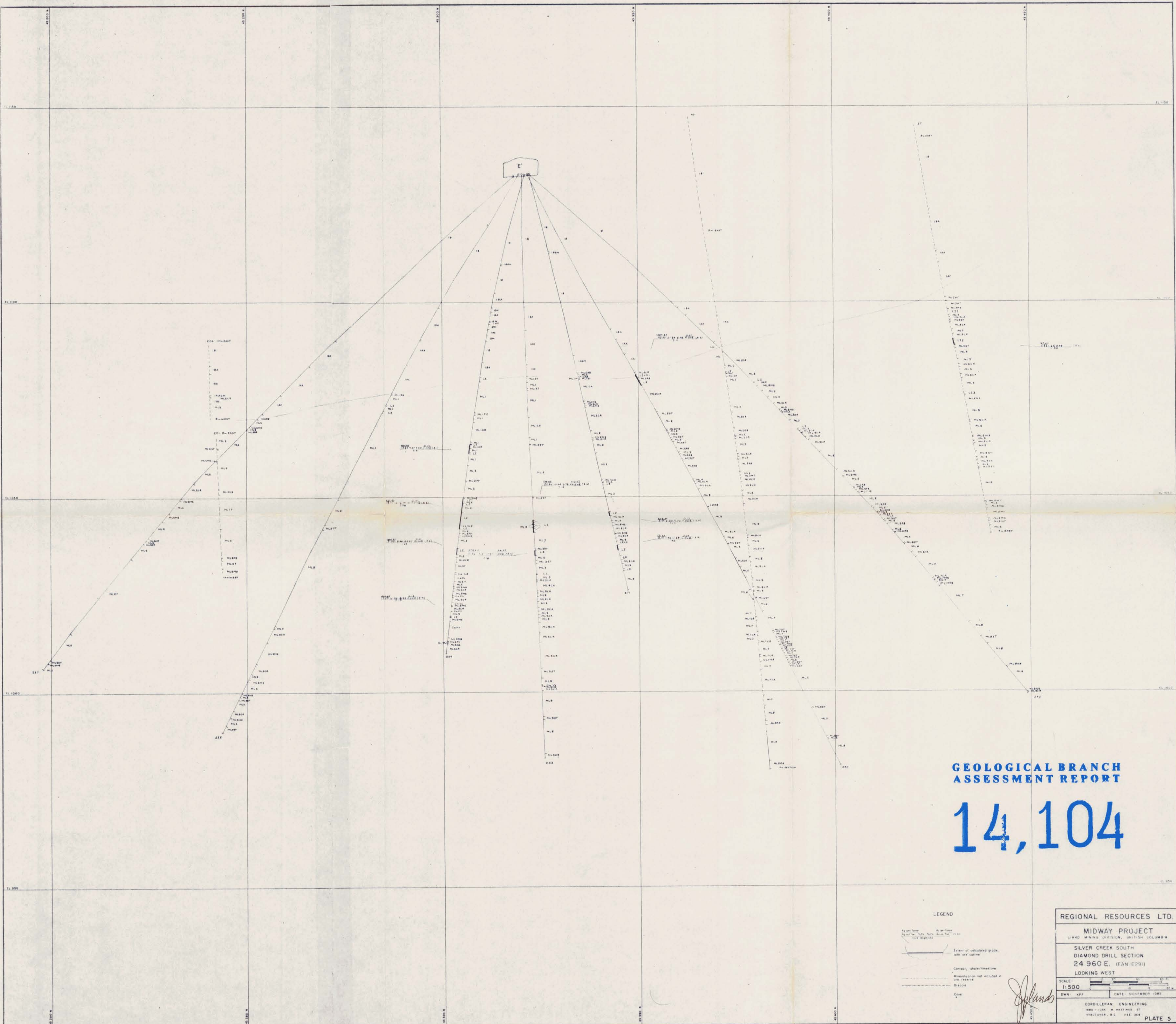
COROLLERAN ENGINEERING  
1980 - 1055 W. HASTINGS ST.  
VANCOUVER, B.C. V6E 2E8

PLATE 4

**LEGEND**

- Extent of calculated grade, with ore outline
- Contact, shale/limestone
- Mineralization not included in ore reserve
- Breccia
- Cave





**GEOLOGICAL BRANCH  
ASSESSMENT REPORT**

**14,104**

**LEGEND**

As in Title  
As in Title  
As in Title

— (extent of calculated grade, with 'ore outline')

— Contact, shale/limestone

— (Mudstone zone not included in ORZ (residual))

— Brassic

— Cave

REGIONAL RESOURCES LTD.	
MIDWAY PROJECT LAND MINING DIVISION, BRITISH COLUMBIA	
SILVER CREEK SOUTH DIAMOND DRILL SECTION 24 960 E. (FAN E291) LOOKING WEST	
SCALE: 1:500	DATE: NOVEMBER 1980
CORDILLERAN ENGINEERING 1980-1989, 4 HASTINGS ST. VANCOUVER, B.C. V6E 3E8	
PLATE 5	