82-#862

ASSESSMENT REPORT

ON THE

BULLION CREEK PROPERTY

BOW AND DINAH MINERAL CLAIMS

LIARD MINING DIVISION

NTS 104 I - 7E

BRITISH COLUMBIA

AT

58 24' N LATITUDE

128 36' W LONGITUDE

OWNER: QUEENSTAKE RESOURCES

OPERATORS: ELDORADO MINERALS & PETROLEUM CORP.

BRX MINING & PETROLEUM LTD.

CONSULTANT: CAM SCOTT, PAMICON DEVELOPMENTS

AUTHOR: VIRGINIA M. KURAN

DECEMBER 20, 1982

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STATEMENT OF EXPENDITURES
JUNE 18 - JULY 16, 1982

(1)	Personal			
	(a) Dave Kuran, Geologist	29 days $92.00/day		(2,668.00)
	(b) Virginia Kuran, geologist	29 days/$92.00/day		(2,668.00)
	mapping, geophysics; sampling			
				5,336.00
(2)	Room & Board			
	58 man days @ $45.00/day			2,610.00
(3)	Field Transportation			
	(a) Fixed Wing	20% of $4,218.92		843.78
	(b) Helicopter	50% of $2,591.72		1,295.86
(3)	Soil Geochemistry			
	sample preparation		.50	
	lead, zinc, silver analysis		3.05	
			3.55	
			541 samples @ $3.55	1,920.55
(5)	Equipment Rental			
	Transit & Rod	1 month		155.00
				12,161.19

BULLION CREEK
STATEMENT OF EXPENDITURES
JULY 30 - OCTOBER 6, 1982

(1)	Personal					
	(a) Dave Kuran, supervisor geologist	67 days	@ $92.00/day	6,164.00		
	(b) Virginia Kuran, geologist	67 days	@ $92.00/day	6,164.00		
	(c) Ann Mueller-Wilm, assistant	26 days	@ $60.00/day	1,560.00		
	(d) Tom Huml, assistant	20 days	@ $50.00/day	1,000.00		
	(e) N. Newsom, program co-ordinator	8 days	@ $100.00/day	800.00		
	(f) D. Perkins, geologist	24 days	@ $150.00/day	3,600.00		
	(g) D. Brownlee, geologist	9 days	@ $100.00/day	900.00		
	(h) F. Loop, assistant	14 days	@ $65.00/day	910.00		21,098.00
(2)	Room and Board	231 days	@ $27.50/day			6,352.50
(3)	Field Transportation					
	(a) Helicopter					
	200 hrs. @ $385.00/hr=$77,000.00 x 50%				38.500.00	
	(b) Fixed Wing					
	$25,380.51 x 20%				5,076.12	43,576.12
(4)	Arctic Diamond Drilling BBS-1 drill, BQ core					
	(a) direct costs 1,378 meters				118,678.15	
	(b) fuel				4,014.44	
	(c) mobilization and 108 man hours to set up				4,443.00	
	(d) Demobilization				1,500.00	128,635.59
(5)	Geochemistry					
	(a) Soil samples					
	lead, zinc, silver analysis $ 3.05					
	sample preparation .50					
	Total cost per sample 3.55					
	754 samples @ $3.55/sample				2,676.70	
	(b) rock samples - assays (drill core, trenches, grid samples)					
	lead, zinc, silver analysis $13.50					
	sample preparation 2.50					
	16.00					
	192 samples @ $16.00/sample				3,072.00	
	(c) rock samples - geochemistry (drill core, trench samples, property samples)					
	lead,zinc,silver analysis $ 3.05					
	sample preparation 2.50					
	5.55					
	146 samples @ $5.55/sample				810.30	6,559.00
						206,221.21

STATEMENT OF EXPENDITURES
JULY 30 - OCTOBER 6, 1982 (Continued)

	B/Fwd.		206,221.21
(6)	Trenching and Cat Trails		
	Ron Bruns 25 Cat D6 hours @ $65.00/hr.	1,625.00	
	Mohawk Oil 100 Cat D6 hours @ $65.00/hr.	6,500.00	8,125.00
(7)	Consulting		
	(a) Z-Trans Geoscience, Fred Syberg		
	Computer contouring of Geochemistry	1,500.00	
	(b) Pamicon Developments		
	Property Inspections and reports for Vancouver Stock Exchange		
	Analysis of VLF-EM16 data-Fred Syberg	11,648.15	13,148.15
(8)	Transit and Rod Rentals		
	2 months @ $155.00/month		310.00
(9)	Report Preparation		
	V. Kuran 10 days @ $100.00/day report writing	1,000.00	
	V. Kuran 30 days @ $100.00/day drafting	3,000.00	4,000.00
			231,804.36

1.0 INTRODUCTION

Between June 18, 1982 and October 8, 1982 a comprehensive exploration program was carried out by Eldorado Minerals & Petroleum Corp. on the Bullion Creek silver-lead-zinc prospect. This prospect is located approximately 6km north of Wolverine Lake on the Cry Lake Map sheet (104I-7E), 25km northwest of the Kutcho Creek copper-zinc-silver deposit.

Queenstake Resources is the present owner of the Bow and Dinah claims. Eldorado Minerals & Petroleum Corp. and BRX Mining & Petroleum Ltd. have undertaken a joint venture in earning the controlling interest in these claims and they shared equally in the operators costs for the 1982 program.

A total of 1,295 soil samples were collected on an established grid. Rock samples from the grid survey, trenches and drill core totalled 338. Twenty-one kilometers of VLF-EM16 survey was also done. Ten diamond drill holes were drilled with a BBS-1 drill producing BQ core for a total of 1,378 metres. The grid was mapped at a scale of 1:2500 over a total area of 4km . Within this area, the original lead-zinc-silver prospect was mapped by a stadia survey at a 1:250 scale over a 5,000m area. The baseline was extended 3.2km and 31km of crosslines were established. Ten trenches were cut and 6,500m of overburden were moved.

2.0 LOCATION, ACCESS AND TOPOGRAPHY

Bullion Creek silver-lead-zinc prospect is located approximately 80km east of Dease Lake at latitude 58 24' north and longitude 128 36' west (Fig. 1). The staked area covering the Bullion Creek sedimentary basin is bounded by Rainbow Lakes to the southeast; Kutcho Creek to the northeast; Turnigan River to the northwest, and Wolverine Lake-Flat Creek to the southwest (NTS 104I-7E).

Access by helicopter to the area is from Dease Lake. There are also roads and cat trails leading to the area from Dease Lake. An alternative access is by fixed wing to the Dease Lake-Kutcho Creek air strip located 20km to the south of the Bullion Creek prospect. A road leads from the air strip to Wolverine Lake and from there a cat trail follows Bullion Creek valley to the area of interest. A single otter may also be used to access Wolverine Lake.

Vegetation on the property varies from open meadows on Bullion Creek to spruce and balsam to the tree line limit. Generally, south facing slopes are gentle and bunch grass grows above tree line. The north facing slopes are generally steep and rocky with little vegetation. Relief on the property is approximately 600m with elevations ranging from 1400 to 2000m.

3.0 LIST OF CLAIMS

The following claims were staked by Queenstake Resources and the original prospectors who worked the Bullion Creek silver-lead-zinc showing. These claims are part of the Queenstake-Eldorado-BRX agreement.

CLAIM NAME	RECORD NO.	NO. OF UNITS
Dinah 1	1691	1
Dinah 2	1692	1
Dinah 3	1694	1
Dinah 4	1693	1
Andy 1	1747	1
Andy 2	1748	1
Dinah 5	1774	1
Dinah 6	1775	1
Dinah 7	1776	1
Dinah 8	1777	1
Dinah 9	1778	1
Dinah 10	1779	1
Dinah 11	1780	1
Dinah 12	1781	1
Dinah 13	1782	1
Dinah 14	1783	1
Dinah 15	1784	1
Dinah 16	1785	1
Bow 1	1787	20
Bow 2	1788	16
Bow 3	1789	20
Bow 4	1790	20

The following claims were staked in July-August, 1982 by Eldorado and are part of the Queenstake-Eldorado-BRX agreement.

CLAIM NAME	RECORD NO.	NO. OF UNITS
Bow 5	2338	16
Bow 6	2339	15
Bow 7	2340	12
Bow 8	2341	4
Bow 9	2342	9
Bow 10	2343	12
Bow 11	2344	20
Bow 12	2345	20
Bow 14	2420	18
Bow 15	2421	8
Bow 16	2422	8
Bow 17	2423	6
Bow 18	2424	20
Bow 19	2425	6
Bow 20	2426	9
Bow 21	2427	20
Bow 22	2428	8
Bow 23	2429	20
Bow 24	2430	16

4.0 HISTORY

The Bullion Creek silver-lead-zinc prospect was originally tested by John Kubiak by sampling and blasting over a period of ten years. In 1980, Kubiak and his partners sold their interest to Queenstake Resources. Pamicon Developments carried out a work program for Queenstake in 1981. This program consisted of detailed mapping of the original silver-lead-zinc showing, grid soil sampling and some silt sampling.

On June 16, 1982 Eldorado signed an agreement with Queenstake Resources to acquire an option to earn the controlling interest on the Bullion Creek property through a 1982 work program on the property. The grid soil sampling was extended to the northwest of Pamicon's open-ended lead anomalies. A VLF-EM16 geophysical survey and detailed geological mapping were done on the grid as well.

Due to favourable assays from resampling of the original showing and a strong lead geochemical anomaly extending 2km northwest of the original showing, Eldorado drilled 1378m to test for stratiform lead-zinc.

5.0 REGIONAL GEOLOGY

The most recently revised geological survey on the Cry Lake Map Sheet was done by the G.S.C. in 1978 and is available in Open File 610. A revised portion of this map is shown in Figure 3 of this report at a scale of 1:50,000.

Stratigraphy in the area of the Bullion Creek prospect is made up of a discontinous succession of the following formations. The base of the succession is formed by Proterozoic schists and sediments of the Atan Formation (1tA) which are unconformably overlain by a sequence of marine sediments (Unit DM). This section of marine sediments has been assigned a tentative Devonian age based on the presence of two hole crinoids towards the base of this section. In turn, the marine sediments are unconformably overlain by Trissic volcanics and schists of the Kutcho Formation (Unit UTK). The Upper Paleozoic Cache Creek Group (Unit MP), consisting of basic volcanics (Unit MPv) and ultramafics (Unit MPu), has been thrust over the Kutcho Formation along the Kutcho Thrust Fault leading from Wolverine Lake along Flat Creek.

The basin containing the Devonian marine sediments is pinched off to the northwest of the Turnigan River by Upper Triassic Ultramafics (Unit UTub). Eventually the basin disappears under thick overburden in the vicinity of Hard Lake. Exposures of the Upper Triassic Stuhini Formation breccias (Unit UTST) and intrusions of Lower Jurrassic grandiorite (Unit IJgd) are found southwest of the basin. To the southeast, the basin is truncated by the Mid-Cretaceous intrusions of the Cassiar Batholiths (Kqm) in the vicinity of Rainbow Lakes.

All units in the area have a general northwest trend, including the intrusives. The style of folding in the area is generally isoclinal. Some sedimentary units have undergone low grade regional metamorphism.

6.0 PROPERTY GEOLOGY AND MINERALIZATION

The area mapped in the vicinity of the Bullion Creek prospect has up to 30% outcrop. To the northwest end of the grid, only 5% outcrop occurs due to the units striking under the Bullion Creek valley. Geology maps have been divided into an east half (Fig. 4) and west half (Fig. 5). The original showing on the Bullion Creek prospect was sampled and has been mapped by a stadia survey (Fig. 6).

6.1 Lower Cambrian Atan Formation (Unit 1a,1b,1bo)

Lower Cambrian quartz-muscovite schists (Unit 1a) form the base of the stratigraphic succession. The quartz muscovite schists weather orange to grey-brown and form resistant outcrops. A 20m section of moderately resistant thin to medium-bedded, grey to black weathering, grey limestone (Unit 1b) occurs within the schists. On the east half of the grid, this limestone interfaces along strike with a resistant, thick-bedded, whitish-grey weathering, grey limestone (Unit 1bo).

6.2 Devonian Sediments

The marine sediments overlying the Atan Formation on the Bullion Creek property have been assigned a tentative Devonian age based on the discovery of two hole crinoids in diamond drill hole 82-BULL-3 towards the base of the sediments.

6.2.1 Shale Unit 2

Overlying the Atan Formation, bright, blue-grey weathering, siliceous, black shales and minor interbeds of siliceous black mudstone outcrop on the east half of the grid. Unit 2 is approximately 70m thick where it is exposed.

TABLE OF FORMATIONS

DEVONIAN

11 CHLORITE SCHIST - recessive to moderately resistant, pale green to grey weathering, fine grained, limy chlorite schist containing up to 3% magnetite; probably volcanic in origin.

10 MUDSTONE - resistant, grey weathering, siliceous, grey mudstone containing some interbeds of grey to rusty weathering black shale; the mudstone contains laminated galena and sphalerite.

9 SHALE - moderately resistant, grey to black platy weathering shale with interbeds of black mudstone.

9b SCHIST - rusty brown weathering quartz-muscovite schist.

9a LIMESTONE - grey to black weathering, thin to medium bedded; thin to grey, fine grained limestone; contains minor sphalerite.

9a1 LIMY SHALE - black platy weathering, limy black shale.

8 GRAPHITIC SHALE - recessive, rusty to black platy weathering, graphitic, black shale.

7 POROUS SILICOUS MUDSTONE - resistant, grey to blue-grey weathering, porous, siliceous, black mudstone.

7a LIMESTONE - grey weathering, thin-bedded grey limestone.

7b Schist - rusty to buff weathering quartz muscovite schist.

6 MUDSTONE - resistant, grey weathering, siliceous, black to grey mudstone containing coarse grained galena in discontinous pods.

6b LIMESTONE - grey weathering, thin-bedded, grey limestone.

6a LIMESTONE - grey to buff weathering, medium-bedded, silty limestone containing pods of sphalerite and galena and bedded sphalerite-galena up to 4cm wide.

6a1 MUDTSONE - resistant, grey weathering, grey mudstone containing thin laminations of fine grained galena.

TABLE OF FORMATIONS (Continued)

5b SCHIST - quartz-muscovite schist with minor turbidite lenses.

5a SCHIST - quartz-muscovite-chlorite schist; variably calcareous.

5a1 LIMESTONE - minor limestone lenses within Unit 5a.

4 SHALE - laminated, graphitic, black shale and black laminated mudstone.

3 MUDSTONE - pale green, calcareous, mudstone with pale green turbidite lenses.

2 SHALE - moderately resistant, blue-grey weathering black siliceous shale and minor interbeds of black siliceous mudstone.

UNCONFORMITY

LOWER CAMBRIAN

ATAN FORMATION

1b0 LIMESTONE - resistant, whitish-grey weathering massive light grey limestone.

1b LIMESTONE - moderately resistant, grey to black weathering grey limestone.

1a SCHIST - resistant, orange to grey brown weathering quartz-muscovite schist.

6.2.2 Units 3, 4, 5a, 5a and 5b

Information on Units 3,4,5a,5a and 5b was derived from diamond drill holes BULL-82-1, BULL 82-2, BULL 82-3 and BULL 82-4. Unit 3 consists of a pale green, calcareous turbidite that changes down dip to a pale green, silty mudstone. Overlying Unit 4 is a package of laminated, graphitic, black shales which change down dip to a black, laminated mudstone of approximately 35m thickness. Unit 5a, which varies from 15 to 30m thick, consists of quartz-muscovite-chlorite schists with a minor 1m thick lense of limestone (5a). Unit 5b consits of a quartz-muscovite schist and was only found in diamond drill hole BULL 82-1 where it was 10m thick (see cross section A-A' , Fig. 7).

6.2.3 Mudstone-Unit 6

On the east half of the property, Unit 6 forms resistant outcrops of grey weathering, siliceous, black to grey mudstone. In the area of the original showing (Fig. 6), this unit contains coarse grained galena in an intensely silicified zone in the core of an anticline. Silica overprinting has almost totally destroyed primary sedimentary structures and most of the galena appears to occur in pods elongated parallel to foliation, but there are subtle textures that indicate a minor amount of the lead could be parallel to original bedding. Unit 6 has been broken down further into three minor units.

Unit 6a occurs as a thin 2m section of resistant, grey weathering, grey mudstone containing thin laminations of galena. Within Unit 6, a 10m section of silty limestone, Unit 6a, weathers grey to buff-brown, is medium-bedded and contains pods of sphalerite and galena as well as bedded sphalerite and galena up to 4cm wide. Another limestone, Unit 6b, occurs above Unit 6a in a 5m thick section of grey weathering, thin-bedded, grey limestone.

6.2.4 Mudstone-Unit 7

Unit 7 overlies Unit 6 on the east half of the grid. This mudstone is blue-grey weathering, siliceous, and has a porous or pitted texture. unit 7 appears to be of 20 meteres thickness on the east half of the grid. Within Unit 7 a grey weathering, thin-bedded, grey limestone (Unit 7a) and a rusty to buff weathering quartz muscovite schist (Unit 7b) occur.

6.2.5 Graphitic Shale-Unit 8

Unit 8 consists of recessive, rusty to black weathering, graphitic, black shale which overlies Unit 7 on the east half of the grid.

6.2.6 Shale-Unit 9

On the west half of the grid, Unit 9 unconformably overlies the Atan Formation. It consists of moderately resistant, grey to black platy weathering shale with interbeds of black mudstone. Within Unit 9, thin sections of rusty brown weathering quartz-muscovite schist (Unit 9b) occur. Another minor unit within Unit 9 occurs as a black platy weathering limy black shale (Unit 9a) which interfaces along strike with a black to grey weathering, grey limestone (Unit 9a). This limestone contains minor discontinous laminations of sphalerite and some galena associated with quartz fractures (L59+00W 12+75S).

6.2.7 Mudstone-Unit 10

Unit 10 consists of resistant, grey weathering, siliceous grey mudstone containing minor interbeds of grey to rusty weathering black shale. In diamond drill holes BULL 82-5 to BULL 82-10, this unit varied from a siliceous mudstone to a silty mudstone to a limy shale. The mudstone in the drill holes was also laminated in sections. These changes were not seen in outcrop. Laminated fine to medium grained galena and red sphalerite were found in outcrops of Unit 10 at L62+00W 15+00S and L63+00W 14+35S. Sections of laminated sphalerite and galena in Unit 10 were also intersected in diamond drill holes BULL 82-5 to 82-10.

6.2.8 Chlorite Schist-Unit 11

The youngest stratigraphic unit in the area of the grid is a chlorite schist - Unit 11. This unit forms recessive to moderately resistant, pale green weathering outcrops of fine grained, limy chlorite schist containing up to 3% magnetite. Textures and minerals in this schist indicate that it may be of volcanic origin.

7.0 GEOCHEMISTRY

7.1 Soil Geochemistry

7.1.1 Introduction

During the 1982 exploration program the pre-existing baseline was extended 3.2km from L46+00N to L78+00W at a 302 bearing. Crosslines from .7km to 1km in length were run at 100m spacings. Line 39+00W, 41+00W, 43+00W and L45+00W were also sampled to fill in data from the previous years work. Stations were placed at 25m intervals and marked with flagging. Approximately 31km of line was established and a total of 1,295 soil samples were taken.

Samples were taken from the B soil horizon where there was good rusty brown soil development at an average of 15cm depth. Towards Bullion Creek valley, samples had to be taken from swampy areas. Some of the samples taken along the creek were sandy and appeared to be taken from an old river channel. Samples were placed in Kraft envelopes, dried and sent to Acme Analytical in Vancouver.

Acme dried the samples further if required when they arrived in Vancouver. The samples were then sieved through an ASTM 80 mesh screen. Hot Aqua Regia digests of the -80 mesh fraction were then analyzed by I.C.P. (Inductively Coupled Argon Plasma). A total of 1,324 soil samples were analyzed.

Results of the soil survey for lead, zinc and silver are listed in Appendix 3. Results were contoured by computer program and hand drafted versions of the computer contour maps were drawn at a scale of 1:2500. (Lead geochemistry - Fig. 8a and 8b, Zinc geochemistry -Fig. 9a and 9b, silver geochemistry - Fig. 10).

7.1.2 Lead Contour Evaluations

The 1982 sampling program outlined two important contoured lead anomolies. A 100m wide contour of greater than 500ppm lead was outlined beween L51+00W and L52+00W. Prospecting indicated the cause of this anomaly to be galena in thin, sweaty quartz veins. The most extensive anomaly was a 200m wide contour of greater than 500ppm lead between L57+00W and L65+00W. Some of the outcrops located within the position of this contour contain laminated galena and sphalerite. This anomalous area was used for drill targets.

The lead background generally drops abruptly towards the southwest where Unit 10 is in contact with the Unit 11 chlorite schist. The presence of a lateral fault striking parallel to L56+00W on the east half of the geology map seems to be strongly reflected by greater than 500ppm lead contours in that they abruptly end near the fault.

Lead geochemistry to the northwest end of the grid is generally lower than the rest of the grid sampled in 1982. The highest anomalies are in the 250 to 500ppm lead range. Unit 10, the favourable unit for lead and zinc, strikes into the Bullion Creek valley at this point and is covered by thick overburden in most places. This overburden may be subduing the anomalies which are present.

7.1.3 Zinc Contour Evaluations

Generally anomalous zinc contours overprint or are displaced slightly downhill from the high lead contours. A zinc contour for values greater than 2000ppm extends between L59+00W and L66+00W and partially overprints the lead contour between L57+00W and L65+00W. This is due to the sphalerite being interlaminated with the lead in outcrops between these lines. The lead anomaly between L52+00W and L53+00W is also overprinted by a greater than 2000ppm zinc contour; however, no sphalerite was found in the area. This may indicate that there is more mineralization below the overburden than the galena in quartz veins on surface. One zinc contour of greater than 1000ppm zinc which was not tested lies between L69+00W and L71+00W centered at 14+00S. It is associated with a partially overprinting 250ppm lead contour.

The lateral fault on the east half geology map which is parallel to L56+00W is reflected by the zinc contours in that contour levels of 2000ppm abruptly end on either side of the fault. An abrupt drop in zinc background to the southwest margin of the grid occurs along a line approximately 100m southwest and parellel to the contact between the chlorite schist and the mudstone of Unit 10. The boundary seemed to reflect a downhill migration of the higher zinc values from Unit 10.

Generally zinc contours are broad on the grid, but after L66+00W they become more intricately patterned. This may indicate a change in the type of zinc mineralization or it may reflect the problems of overburden in the area. Generally, moderate zinc anomalies are open-ended to the southwest end of the grid.

7.1.4 Silver Contour Evaluations

Generally, the silver values are low on the grid; however, contour results reflect some of the galena mineralization associated with Unit 6 on surface. Between L44+00W and L46+00W a 25m wide silver contour of greater than 2ppm reflects the trace of a boulder terrain of galena in silicified carbonate and quartz vein float. At L52+00W 14+25S a narrow 2ppm silver contour occurs slightly uphill of where galena was found in quartz veins. Wherever galena was found in laminated sections, the silver anomalies do not coincide. A greater than 2ppm silver contour between L61+00W and L58+00W occurs near the baseline, but could not be explained by prospecting. Silver contours on the northwest edge of the grid are open ended towards the northwest.

7.2 Rock Geochemistry

7.2.1 Introduction

Thirty-five rock samples were collected from outcrops on the grid. Sample sites were marked with flagging and plotted at a scale of 1:2500 (Fig. 11). Samples DR3 to DR11 were plotted on Figure 6. They were taken to resample the original Pb-Zn-Ag showing on the property. Some of these samples contained interesting silver values (DR5-5.2 oz/ton Ag). Samples were placed in numbered plastic bags and shipped to Acme. At Acme, the samples were crushed and pulped to -150 mesh and treated with a hot aqua regia leach. The digest was then analyzed for lead, zinc and silver by standard atomic absorption techniques. Two rock samples, VR80 and VR83, were analyzed by the ICP method (Inductively coupled Argon Plasma).

7.2.2 Evaluation

The following results are from three rock samples taken in the area between L62+00W and L63+00W between 14+50S and 15+00S stations: AR13-12.36% Pb, .01% Zn, 1.87oz/ton Ag; AR22-6.50% Pb, .50% Zn, 1.07oz/ton Ag; AR23-5.60% Pb, .36% Zn, 1.07 oz/ton Ag, and AR21-4.90% Pb, .01% Zn, 5.7 oz/ton Ag. These samples were taken from outcrops containing laminated galena and sphalerite along thin beds.

Rock sample VR77 was taken in the area of L59+00W 13+00S. Galena mineralization associated with quartz filled fractures occurs in a mudstone here and the sample ran .72% Pb/.12%Zn/.36 oz/ton Ag. Also in this area, a limestone bed contains laminated lead and zinc and a sample from it (VR83) ran .39% Pb, .99% Zn, .10 oz/ton Ag.

At co-ordinates 40+80W 10+20S laminated lead occurs in a siliceous mudstone. Samples from the outcrop, DR1 and DR2, ran between 1.9% and 2.7% Pb. The last interesting result was AR24 which was taken from a limestone outcrop at L66+00W 11+20S. This sample ran .13% Pb/.01% Zn/.07 oz/ton Ag.

8.0 TRENCHING

8.1 Introduction

A total of 6,500 m of overburden was moved in digging 10 trenches on the east half of the grid. The location of each of these ten trenches is shown in Figure 11. Each trench was mapped and sampled where mineralization was found. A total of 69 rock samples were taken and then analyzed by the atomic absorption method.

8.1.1 Trench 1 and 7

Trenches 1 (Fig. 12) and 7 (Fig. 13) were dug to test a 100m wide geochemistry anomaly of greater than 100ppm lead located the previous year by Pamicon Developments. The anomaly is located between L40+00W and L42+00W and it is centered at 17+00S station. Trench 1 uncovered silty mudstones, porous mudstones and graphitic shales. One to two meter samples taken along the trench outlined a porous mudstone and a silty mudstone to be anomalously high in lead geochemistry (VR31-4850ppm Pb, VR43-1380ppm Pb). No visible galena or sphalerite was seen. In Trench 7 the silty mudstone unit contained a thin 5cm wide gritty unit which ran 1.42% Pb, 5.85% Zn and .38 oz/ton Ag.

8.1.2 Trench 2

A quartz vein striking northwest of the original lead-zinc-silver showing was trenched 25m further along strike where overburden covered it. The quartz vein was thin at this point and sample VR20 ran 4.40% Pb, .13% Zn and 2.10 oz/ton Ag (Fig. 14).

8.1.3. Trench 3,4,5 and 6

Trench 3,4,5, and 6 (Fig. 15, 16, 17 and 18) were dug to expose the galena-sphalerite showing located at co-ordinates 10+80W 40+70S. Trench 3 was located 15m northwest of the showing and it exposed a siliceous mudstone containing laminated galena. A one meter sample ran 6.40% Pb, .12% Zn and 5.84 oz/ton Ag. Trench 6 was dug 80m to the northwest of the showing and it only uncovered shale. Trench 4 was located 35m northeast of the showing. This trench exposed a limestone unit above the mineralized mudstone. The limestone contained sphalerite and minor galena. A 1m sample (VR16) ran .20% Pb, 2.18% Zn and .21 oz/ton Ag. Trench 5 was dug 85m northeast of the showing, but it only exposed graphitic shales.

8.1.4 Trench 8,9 and 10

Trench 9 (Fig. 19) was located in the area of a boulder terrain of mudstone mineralized with sphalerite and galena at co-ordinates 40+40W 15+50S. This trench exposed a siliceous mudstone containing galena and sphalerite which ran .24% Pb, .4% Zn and .22 oz/ton Ag over 1m. Trench 8 (Fig. 20) was dug 30m to the west of Trench 9, but no mineralization was seen. Finally, Trench 10 (Fig. 21) was dug 30m east of Trench 9. Two types of rock had high geochemistry values. A 1m sample ran 7800ppm Pb, 5460ppm Zn and 18.0ppm Ag. Another 1m sample was taken over siliceous mudstone and it ran 2000pm Pb, 3450ppm Zn and 4.4ppm Ag.

9.0 DIAMOND DRILL HOLES

9.1 Introduction

A total of 1378m of BQ core was drilled by a diamond drill. Diamond drill holes 1, 2, 3 and 4 were drilled to test the original lead-zinc-silver showing. Diamond drill holes 5,6,7,8,9 and 10 were drilled along a lead-zinc geochemsitry anomaly between L57+00W and L65+00W. Locations of all the drill holes are shown in Figure 12. All core from the program is presently being stored at the Wolverine Lake campsite, approximately 6km south of the areas drilled.

9.2 DDH BULL 82-1 to 82-4

DDH BULL 82-1 (Fig. 22) was ended at 43.7m after passing through a porous mudstone hanging wall, a 9m thick silicified silty limestone section and a schist footwall. At 24.2m a 1m sample ran 1.99% Pb, .01% Zn and .75 oz/ton Ag. in the silty, silicified limestone.

DDH BULL 82-2 (Fig. 23) was ended at 94.2m. The top of the hole consists of interbedded schists and limestones. At 13.9m a quartz-muscovite-chlorite schist begins which is underlain by pyritic, black shales at 42.0m.

DDH BULL 82-3 (Fig. 24) was drilled to a depth of 66.4m. A 3m section of silicified, silty limestone was encountered, but no significant mineralization occurs in it. At 45m two hole crinoids occur in a limestone fossil hash indicating a Devonion age.

DDH BULL 82-4 (Fig. 25) was taken to a depth of 100m. Throughout the hole, intense silicification is not found. Original sedimentary structures are preserved and the rock consists mostly of mudstone and shale. At 36m, a minor amount of laminated lead is present.

9.3 DDH BULL 82-5 TO 82-10

DDH BULL 82-5 (Fig. 26) was drilled to a depth of 152.7m. Mineralization occurs intermittently as laminated galena and sphalerite throughout a 30m section between 75 to 105m in a siliceous, laminated mudstone. At 102.8m, a 20cm section of massive galena and sphalerite was intersected. At 102.9m a .6m sample ran 2.58% Pb, 4.05% Zn and .9 oz/ton Ag.

DDH BULL 82-6 (Fig. 26) was drilled to a depth of 225.9m. Mineralization consists of laminated sphalerite and galena in a siliceous, laminated mudstone. At 132.0m a .4m sample ran 1.13% Pb, 2.03% Zn, .15 oz/ton Ag. Towards the bottom of the hole, laminated lead and zinc occur in bands throughout a 25m section between 175 and 200m.

DDH BULL 82-7 (Fig. 27) was drilled to a depth of 151.8m. Between 50 to 115m laminated sphalertite and galena occur in a silty, laminated shale. At 57.4m a 0.5m sample ran 4.56% Pb/5.66% Zn/ .49 oz/ton Ag. The galena in this sample is very fine grained. Mineralization is mainly restricted to a silty, laminated shale which becomes limy towards the bottom of the hole.

DDH BULL 82-8 (Fig. 28) was drilled to 160.9m. Between 67 and 75m, laminated galena and sphalerite occur in a silty mudstone. At 68.25m a .5m sample ran 2.29% Pb/3.38% Zn/.71 oz/ton Ag. At 71.7m a .5m sample ran 2.95% Pb/2.53% Zn/.39 oz/ton Ag. Towards the bottom of the hole the mudstone becomes siltier and resembles a turbidite. At 98.9m this turbidite was sampled over .5m and the results were 2.29% Pb/.01% Zn/.81 oz/ton Ag.

DDH BULL 82-9 (Fig. 29) was drilled to a depth of 163.9m (between 19 and 24m). Mineralization occurs in a silty shale between 19 and 24 metres. At 20.7m a .5m sample ran 1.3% Pb/3.25% Zn/ .37 oz/ton Ag.

DDH BULL 82-10 (Fig. 26) was drilled to a depth of 218.8m. The highest assay occurred in a silty, laminated siliceous mudstone at 45.1m. Blebby and laminated red sphalerite associated with quartz sweating ran .07% Pb/16.40% Zn/.06 oz/ton Ag over 0.7m.

10.0 VLF-EM16 SURVEY

Twenty-one kilometers of electromagnetic survey was done on lines spaced 200m apart with a VLF-EM16 unit. The Annapolis, Maryland station (21.4 KHz) was used as the transmitter for measuring. Analysis and interpretation of the data was done by Fred Syberg and is included in Appendix 4. His interpretation of the data outlined geological contacts. These contacts correspond strongly with the lead geochemistry.

11.0 REGIONAL PROGRAM

A small amount of prospecting and sampling was done on the new claims which were staked in August 1982 adjoining the original Bullion Creek claims. It was determined that the Bullion Creek prospect is situated in a basin of approximately 30km in length. The sediments which lie above the section represented on the grid consist of limy mudstones and shales which are in turn are overlain by siliceous, pyritic mudstones and pyritic shales.

Favourable units for lead and zinc were followed along strike where lack of overburden permitted. Faulkner Creek canyon revealed part of this section approximately 0.6km northwest of the area drilled on the strong lead geochemistry anomaly on the grid. This exposure revealed siliceous mudstones containing laminated galena and sphalerite (Fig. 31). Sample VR84 ran 10.3% Zn and VR85 ran .11% Pb.

Prospecting of the sediments which overlie the units described on the grid revealed thick sections of pyritic mudstones and shales. Some rock sampling was done and the rocks were found to be high in arsenic which may be a favourable gold indicator. Sample VR114 ran 57ppm arsenic, sample VR105 ran 47ppm arsenic and sample PR4 ran 277ppm arsenic in this sampling. Also, VR97 ran 70ppb gold and VR99 ran 60ppb gold (Fig. 30).

An excellent exposure of the marine sediments is revealed in a canyon on the Turnigan River. A soil line was run close to the canyon across the strike of the rocks. One sample VD45 ran 250ppb gold and was taken near an outcrop of rusty shales. Sample VD61 ran 780ppb gold, but its location may have been contaminated by placer gold.

12.0 DISCUSSION, CONCLUSIONS AND RECOMMENDATIONS

12.1 Discussion and Conclusions

The Bullion Creek lead-zinc-silver prospect occurs in a in a 30km long sedimentary basin of tentative Devonian age. Galena and sphalerite mineralization has been located along 8km of strike length between the original Bullion Creek showing to Faulkner Creek valley. Three areas of laminated sphalerite and galena and one area of structurally remobilized galena and sphalerite have been located along this 8km strike length.

Grid soil sampling has been shown to be very effective in locating lead-zinc mineralization. Lead-zinc-silver geochemistry is subdued to the northwest end of the grid, but this could be a result of heavy overburden in this area.

The VLF-EM16 survey proved to be very useful in outlining geological contacts. A strong correlation between the lead geochemistry and the VLF-EM16 interpretation was noted.

Diamond drilling of known lead-zinc showings has shown the mineralization in the northwest end of the property to be definitely strataform lead-zinc. The best drill hole result was 10.2% combined lead-zinc over 0.5m in DDH BULL 82-7. DDH BULL 82-5, 6 and 7 each contained 20 to 65m sections of sediments mineralized intermittently by laminated lead and zinc. These results indicate that further work on the strike extension is warranted.

12.2 Recommendations

(a) An airborne magnetometer and scintillometer survey of the 18km strike extension of the basin to the northwest of known mineralization would be very useful. Geological contacts and any major faults would be outlined, which would allow further detailed work to be concentrated in smaller areas.

(b) Geological mapping, section measuring and prospecting should be carried out where the favourable units for lead and zinc are exposed. Some consideration should also be given to the sediments overlying these units in respect to prospecting for gold.

(c) When results of the geophysical surveys and mapping have outlined the most interesting areas, an extension of the existing grid and soil sampling coverage to the northwest should be undertaken. Lines should be spaced at 100m and the sample spacing should be 25m. In areas of thick overburden, the use of an auger should be considered.

(d) In areas of anomalous lead and zinc geochemical values, detailed mapping and propsecting should be used to outline possible drill targets.

APPENDIX 1

List of References

Gabrielse, H. et al	Open File 610, Geology of Cry Lake (104-I) map area 1978
Scott, T.C. Creek Property, Private Report	Progress Report on the Bullion September 1982
Syberg, F.J.R.	Analysis and interpretation of VLF-EM16 data on the Bullion Creek Property, Private Report November 1982
Yeager, D.A. & Ikona, C.K.	Geological and Geochemical Report on the BOW 1-4, Dinah 1-16, Andy 1 & 2 mineral claims Private Report July 1982

APPENDIX 2

Statement of Qualifications

I, Virginia M. Kuran, of 1742 Pendrell Street, Vancouver, in the Province of British Columbia, DO HEREBY CERTIFY THAT:

1. I am a geologist contracted by Eldorado Minerals & Petroleum Corp. and BRX Mining & Petroleum Ltd. with offices at 1020-800 West Pender Street, Vancouver, B.C.

2. I am a graduate of the University of British Columbia with an Honors Bachelor of Science Degree in Geology.

3. My primary employment since graduating in 1980 has been in the field of mineral exploration, as a Field Geologist.

4. This report is based on field work which I actively participated in between June 18, 1982 and October 8, 1982.

Dated at Vancouver, British Columbia, this 20th day of December 1982.

Virginia Kuran

Appendix 3

Grid Soil Geochemistry Results

ACME ANALYTICAL LABORATORIES LTD. 852 E. HASTINGS. VANCOUVER B.C. PH:253-3158 TELEX:04-53124

ICP GEOCHEMICAL ANALYSIS

A .500 GRAM SAMPLE IS DIGESTED WITH 3 ML OF 3:1:2 HCL TO HNO3 TO H2O AT 90 DEG.C. FOR 1 HOUR. THE SAMPLE IS DILUTED TO 10 MLS WITH WATER.
THIS LEACH IS PARTIAL FOR: Cu,P,Mg,Al,Ti,La,Na,K,W,Ba,Si,Sr,Cr AND B. Au DETECTION 3 ppb.
AUS ANALYSIS BY AA FROM 10 GRAM SAMPLE. SAMPLE TYPE - SOIL AUS## BY FA + AA

DATE RECEIVED JULY 6 1982 DATE REPORTS MAILED July 16/82 ASSAYER D. Toye DEAN TOYE, CERTIFIED B.C. ASSAYER

ELDORADO MINERALS PROJECT # BULLION CREEK FILE # 82-0526 PAGE# 1

SAMPLE #	FE ppm	ZN ppm	AG ppm	Au## ppb
47W 10S	46	95	.2	2
47W 10+25S	50	80	.4	1
47W 10+50S	49	124	.5	1
47W 10+75S	56	74	.4	1
47W 11S	47	162	1.0	1
47W 11+25S	27	114	.9	1
47W 11+50S	66	361	.7	1
47W 11+75S	241	373	6.7	3
47W 12S	224	259	.5	2
47W 12+25S	61	240	2.6	4
47W 12+50S	[illegible]	87	.1	2
47W 12+75S	[illegible]	126	.7	2
47W 13S	[illegible]	458	[illegible]	[illegible]
47W 13+25S	[illegible]	[illegible]	.6	[illegible]
47W 13+50S	65	280	.7	4
47W 13+75S	[illegible]	179	.6	7
47W 14S	[illegible]	[illegible]	.6	[illegible]
47W 14+25S	[illegible]	[illegible]	.6	[illegible]
47W 14+50S	151	403	[illegible]	[illegible]
47W 14+75S	[illegible]	106	.4	[illegible]
47W 15S	[illegible]	86	[illegible]	[illegible]
47W 15+25S	149	497	[illegible]	[illegible]
47W 15+50S	115	976	.4	[illegible]
47W 15+75S	115	991	1.3	[illegible]
47W 16S	[illegible]	581	1.6	[illegible]
47W 16+25S	78	325	1.4	4
47W 16+50S	91	700	1.5	2
47W 16+75S	[illegible]	319	.8	1
47W 17S	47	178	.4	1
47W 17+25S	297	820	[illegible]	[illegible]
47W 17+50S	[illegible]	202	.5	1
47W 17+75S	[illegible]	326	.7	1
47W 18S	[illegible]	394	.5	2
47W 18+25S	[illegible]	139	[illegible]	1
47W 18+50S	[illegible]	153	[illegible]	1
47W 18+75S	[illegible]	190	.5	1
47W 19S	[illegible]	177	[illegible]	[illegible]
STD A-1	[illegible]	178	[illegible]	1
47W 19+25S	16	81	.1	1
47W 19+50S	14	74	.1	1

SAMPLE #	Pb ppm	Zn ppm	As ppm	Au** ppb
47W 19+75S	15	164	.7	1
47W 20S	15	171	.7	1
49W 10S	22	65	.4	1
49W 10+25S	106	140	.4	1
49W 10+50S	28	84	.9	1
49W 10+75S	56	169	2.1	4
49W 11S	356	153	2.6	1
49W 11+25S	25	89	.5	1
49W 11+50S	77	411	.5	1
49W 11+75S	29	157	.5	1
49W 12S	22	94	.5	1
49W 12+25S	16	99	.5	2
49W 12+50S	37	194	.5	2
49W 12+75S	37	171	.5	2
49W 13S	28	181	.4	1
49W 13+25S	25	151	.5	2
49W 13+50S	31	149	.9	1
49W 13+75S	59	213	.7	1
49W 14S	55	160	1.5	1
49W 14+25S	62	170	.7	1
49W 14+50S	47	85	.5	1
49W 14+75S	510	337	2.4	1
49W 15S	197	463	1.4	1
49W 15+25S	387	221	6.2	1
49W 15+50S	653	329	5.9	1
49W 15+75S	82	246	.4	1
49W 16S	102	546	.9	2
49W 16+25S	75	480	1.4	2
49W 16+50S	47	248	.9	1
49W 16+75S	43	111	.5	1
49W 17S	11	54	.7	1
49W 17+25S	43	156	1.7	1
49W 17+50S	83	109	.5	1
49W 17+75S	83	147	.5	1
49W 18S	91	257	.8	30
STD A-1	41	178	.5	1
49W 18+25S	111	220	.5	1
49W 18+50S	19	352	.5	2
49W 18+75S	14	174	.5	2
49W 19S	8	16	.5	2

SAMPLE #	PB ppm	ZN ppm	AG ppm	Au** ppb
49W 14+25S	14	76	.3	1
49W 14+50S	14	85	.4	1
49W 14+75S	14	69	.2	1
49W 20S	15	71	.4	1
52W 10S	36	100	.2	1
52W 10+25S	54	235	.5	12
52W 10+50S	34	177	.4	[illegible]
52W 10+75S	[illegible]	202	1.4	1
52W 11S	36	234	.5	3
52W 11+25S	30	249	.5	1
52W 11+50S	35	660	1.9	3
52W 11+75S	40	408	.7	2
52W 12S	[illegible]	262	.4	1
52W 12+25S	34	134	1.0	1
52W 12+50S	31	72	1.2	1
52W 12+75S	24	141	.9	1
52W 13S	45	112	2.2	25
52W 13+25S	604	123	1.8	[illegible]
52W 13+50S	55	300	1.3	2
52W 13+75S	89	433	2.0	2
52W 14S	60	340	1.1	1
52W 14+25S	981	82	5.3	1
52W 14+50S	2231	387	1.1	2
52W 14+75S	361	246	.6	1
52W 15S	397	4837	1.7	2
52W 15+25S	208	4460	.9	1
52W 15+50S	60	1445	1.2	1
52W 15+75S	46	1207	1.5	2
52W 16S	44	171	.5	1
52W 16+25S	36	279	2.8	1
52W 16+50S	4	54	.2	1
52W 16+75S	6	75	.3	1
52W 17S	25	22	.1	1
51C 4+1	41	177	.4	1
52W 17+25S	9	41	.1	1
52W 17+50S	28	140	.8	2
52W 17+75S	20	160	1.3	1
52W 18S	15	104	.9	1
52W 18+25S	18	119	.4	1
52W 18+50S	25	79	.2	2

SAMPLE #	Pb ppm	Zn ppm	AG ppm	Au** ppb
52W 18+75S	8	109	.3	48
52W 19S	14	81	.4	1
52W 19+25S	18	60	.2	1
52W 19+50S	15	58	.2	1
52W 19+75S	10	74	.1	1
52W 20S	12	75	.2	1
VR-1	12	247	.3	3
VR-2	4	133	.5	1
STD A-1	41	177	.4	1

ACME ANALYTICAL LABORATORIES LTD. 852 E. HASTINGS, VANCOUVER B.C. PH:253-3158 TELEX:04-53124

ICP GEOCHEMICAL ANALYSIS

A .500 GRAM SAMPLE IS DIGESTED WITH 3 ML OF 3:1:3 HCL TO HNO3 TO H2O AT 90 DEG.C. FOR 1 HOUR. THE SAMPLE IS DILUTED TO 10 ML WITH WATER.
THIS LEACH IS PARTIAL FOR: Ca,P,Mg,Al,Ti,La,Na,K,W,Ba,Si,Sr,Cr AND B. Au DETECTION 3 ppb.
AU# ANALYSIS BY AA FROM 10 GRAM SAMPLE. SAMPLE TYPE - SOIL/SILT

DATE RECEIVED JUL 10 1992 DATE REPORTS MAILED July 23/92 ASSAYER D. Toye DEAN TOYE, CERTIFIED B.C. ASSAYER

ELDORADO FILE # 82-0571A

SAMPLE #	Pb ppm	Zn ppm	Ag ppm	Au## ppb
54W 10S	24	92	.1	1
54W 10+25S	41	150	.6	2
54W 10+50S	34	172	.5	2
54W 10+75S	45	210	.6	2
54W 11S	101	651	2.8	4
54W 11+25S	41	62	.6	2
54W 11+50S	61	841	1.6	4
54W 11+75S	107	161	.5	2
54W 12S	19	47	.2	1
54W 12+25S	121	287	.1	1
54W 12+50S	175	648	1.7	2
54W 12+75S	87	706	.6	1
54W 13S	60	160	.1	1
54W 13+25S	77	234	.4	2
54W 13+39S	42	5164	1.8	1
54W 13+39S 10X	6	703	.1	-
54W 13+50S	7	11520	.1	1
54W 13+50S 10X	1	1955	.1	-
54W 13+75S	122	2147	1.3	1
54W 14S	57	682	.5	1
54W 14+25S	194	354	1.9	2
54W 14+50S	187	478	1.6	1
54W 14+75S	159	949	1.7	1
54W 15S	89	121	.1	6
54W 15+25S	112	437	.1	15
54W 15+50S	177	527	.8	1
54W 15+75S	13	74	.1	1
54W 16S	34	1454	.2	1
54W 16+25S	17	105	.1	2
54W 16+50S	30	99	.1	24
54W 16+75S	30	154	4.5	1
54W 17S	31	188	.8	1
54W 17+25S	18	98	.1	1
54W 17+50S	34	143	1.8	1
54W 17+75S	10	57	.1	1
54W 18S	13	78	.1	1
54W 18+25S	20	151	1.0	1
54W 18+50S	43	136	.4	10
54W 18+75S	5	55	.2	1
STD A-1	42	185	.1	2

SAMPLE #	PB ppm	ZN ppm	AG ppm	Au** ppb
54W 19S	21	167	.6	2
54W 19+25S	6	71	1.7	1
54W 19+50S	41	298	2.2	17
54W 19+75S	14	108	.2	3
54W 20S	14	40	.1	1
56W 10S	14	50	.2	2
56W 10+25S	32	101	.1	1
56W 10+50S	51	117	.1	1
56W 10+75S	44	61	1.5	22
56W 11S	96	47	.1	2
56W 11+25S	44	373	2.5	17
56W 11+50S	26	271	4.2	4
56W 11+75S	74	182	.2	3
56W 12S	123	290	1.4	3
56W 12+25S	94	174	.2	6
56W 12+50S	68	99	.1	2
56W 12+75S	95	73	.7	2
56W 13S	110	194	.8	4
56W 13+25S	78	362	.1	1
56W 13+50S	46	76	.3	2
56W 13+75S	80	124	2.9	2
56W 14S	138	192	1.2	3
56W 14+25S	69	129	.1	1
56W 14+50S	116	110	.1	1
56W 14+75S	132	33	.1	1
56W 15S	30	72	.1	3
56W 15+25S	79	164	.1	1
56W 15+50S	88	144	.1	[illegible]
56W 15+75S	298	98	.4	[illegible]
56W 16S	32	117	.1	[illegible]
56W 16+25S	31	119	.1	2
56W 16+50S	21	64	1.8	6
56W 16+75S	31	107	1.9	[illegible]
56W 17S	20	155	1.6	[illegible]
56W 17+25S	7	81	.4	2
56W 17+50S	45	545	.7	[illegible]
56W 17+75S	6	92	.4	[illegible]
STD A-1	42	185	.1	[illegible]
56W 18S	53	200	.6	[illegible]
56W 18+25S	58	244	.7	[illegible]

SAMPLE #	PB ppm	ZN ppm	AG ppm	Au** ppb
56W 18+50S	34	118	2.1	2
56W 18+75S	47	125	.4	2
56W 19S	47	157	1.6	1
56W 19+25S	32	81	.1	1
56W 19+50S	19	61	.1	2
56W 19+75S	36	112	.4	1
56W 20S	47	95	.3	1
58W 10S	67	231	1.2	1
58W 10+25S	36	94	.6	1
58W 10+50S	47	270	2.9	1
58W 10+75S	36	371	3.5	1
58W 11S	38	279	1.5	1
58W 11+25S	57	1003	1.9	1
58W 11+50S	59	128	.9	1
58W 11+75S	26	150	1.5	1
58W 12+25S	67	180	.9	20
58W 12+50S	37	72	.9	1
58W 12+75S	134	125	1.5	4
58W 13S	40	67	.4	42
58W 13+25S	103	120	.8	1
58W 13+50S	122	148	.5	1
58W 13+75S	71	524	1.1	1
58W 14S	79	178	2.4	1
58W 14+25S	193	464	2.1	1
58W 14+50S	40	161	.1	1
58W 14+75S	63	193	2.9	1
58W 15S	218	87	.1	2
58W 15+25S	467	143	2.2	1
58W 15+50S	961	286	.9	1
58W 15+75S	1364	2523	4.6	4
58W 16S	76	976	1.0	1
58W 16+25S	71	511	.2	1
58W 16+50S	108	844	.9	1
58W 16+75S	49	357	1.7	1
STD A-1	45	191	.2	2

SAMPLE #	PB ppm	ZN ppm	AG ppm	Au** ppb
58W 17S	28	145	1.3	[illegible]
58W 17+25S	22	101	.1	2
58W 17+50S	37	200	.9	1
58W 17+75S	18	106	.2	6
58W 18S	20	54	.3	2
58W 18+25S	21	50	.5	34
58W 18+50S	19	35	.2	2
58W 18+75S	39	37	.1	1
58W 19S	28	71	.1	116
58W 19+25S	33	69	.3	1
58W 19+50S	35	115	.3	2
58W 19+75S	33	112	.4	2
58W 20S	30	124	1.0	2
60W 10S	45	130	.2	2
60W 10+25S	40	132	1.6	1
60W 10+50S	37	249	7.4	4
60W 10+75S	46	152	.7	3
60W 11S	66	188	1.8	5
60W 11+25S	68	76	1.0	2
60W 11+50S	36	117	.2	2
60W 11+75S	49	134	.7	4
60W 12S	68	218	1.2	2
60W 12+25S	85	85	1.6	1
60W 12+50S	8	37	.4	1
60W 12+75S	87	156	.1	1
60W 13S	87	260	1.4	2
60W 13+25S	63	203	2.2	1
60W 13+50S	60	115	.4	1
60W 13+75S	395	1067	.3	6
60W 14S	785	910	1.7	5
60W 14+25S	967	3150	1.5	1
60W 14+50S	208	2284	.6	1
60W 14+75S	42	1267	.2	3
60W 15S	111	7695	1.6	34
60W 15+25S	15	88	.1	3
60W 15+50S	34	1776	.9	2
60W 15+75S	17	1480	.9	2
STD A-1	42	170	.2	1
60W 16S	47	175	.2	2
60W 16+25S	25	92	.2	1

ELDORADO FILE # 82-05714

SAMPLE #	PB ppm	ZN ppm	AG ppm	Au** ppb
50W 16+50S	29	560	1.7	2
50W 16+75S	29	183	1.0	1
60W 17S	31	210	.9	1
60W 17+25S	33	640	1.2	2
60W 17+50S	30	71	.1	2
60W 17+75S	34	115	.5	1
60W 18S	21	65	1.0	1
60W 18+25S	35	117	1.0	1
60W 18+50S	30	122	.9	1
60W 18+75S	25	81	.1	17
62W 19S	32	113	2.1	3
62W 10S	79	206	.7	1
62W 10+25S	28	82	.5	1
62W 10+50S	25	110	.9	1
62W 10+75S	49	144	1.2	1
62W 11S	24	257	3.7	1
62W 11+25S	37	95	1.4	1
62W 11+50S	39	64	.5	2
62W 11+75S	52	69	.5	1
62W 12S	35	103	.2	1
62W 12+25S	70	257	.9	1
62W 12+50S	66	358	.8	2
62W 12+75S	49	407	.9	2
62W 13S	58	656	1.4	2
62W 13+25S	101	435	3.4	1
62W 13+50S	80	587	1.7	15
62W 13+75S	75	104	2.1	1
62W 14S	112	102	2.0	1
62W 14+25S	38	71	2.9	1
62W 14+50S	190	211	.2	1
62W 14+75S	2643	248	1.0	1
62W 15S	2320	6788	2.0	2
62W 15+25S	58	127	.1	1
62W 15+50S	32	180	.7	2
62W 15+75S	25	3442	1.0	2
STD A-1	45	171	.3	1
62W 16S	41	3919	1.3	3
62W 16+25S	19	102	.2	1
62W 16+50S	19	77	.2	1
62W 16+75S	15	46	.4	8

SAMPLE #	PB ppm	ZN ppm	AG ppm	Au** ppb
62W 17S	58	252	.5	[illegible]
62W 17+25S	42	87	.4	[illegible]
62W 17+50S	58	61	[illegible]	[illegible]
62W 17+75S	68	67	[illegible]	[illegible]
62W 18S	54	75	[illegible]	[illegible]
62W 18+25S	17	61	[illegible]	4[illegible]
62W 18+50S	18	74	[illegible]	[illegible]
62W 18+75S	24	113	[illegible]	[illegible]
62W 19S	29	109	[illegible]	[illegible]
64W 10S	34	185	1.[illegible]	[illegible]
64W 10+25S	40	450	.[illegible]	4
64W 10+50S	124	555	4.6	[illegible]
64W 10+75S	65	155	.8	[illegible]
64W 11S	25	110	[illegible]	[illegible]
64W 11+25S	86	414	.7	[illegible]
64W 11+50S	291	1257	[illegible]	[illegible]
64W 11+75S	44	[illegible]	[illegible]	[illegible]
64W 12S	75	239	[illegible]	[illegible]
64W 12+25S	97	1756	1.[illegible]	[illegible]
64W 12+50S	64	86	.4	[illegible]
64W 12+75S	109	684	.8	[illegible]
64W 13S	193	1250	.7	[illegible]
64W 13+25S	202	1015	1.1	[illegible]
64W 13+50S	1587	1126	.4	[illegible]
64W 13+75S	1964	1622	1.7	[illegible]
64W 14S	124	1576	.9	[illegible]
64W 14+25S	212	1028	.6	[illegible]
64W 14+50S	138	[illegible]47	.5	[illegible]
64W 14+75S	465	6033	.8	[illegible]
64W 15S	693	6890	1.[illegible]	[illegible]
64W 15+25S	117	4904	.7	[illegible]
64W 15+50S	41	115	.1	[illegible]
STD A-1	44	175	.[illegible]	[illegible]
64W 15+75S	22	159	.4	[illegible]
64W 16S	26	28	.1	[illegible]
64W 16+25S	27	261	.4	[illegible]
64W 16+50S	41	1726	1.7	[illegible]
64W 16+75S	[illegible]5	801	.5	[illegible]
64W 17S	[illegible]5	[illegible]9	[illegible]	[illegible]
64W 17+25S	29	172	.7	[illegible]

SAMPLE #	PB ppm	ZN ppm	AG ppm	Au** ppb
64W 17+50S	21	74	.2	1
64W 17+75S	22	103	.1	1
66W 10S	40	326	.3	5
66W 10+25S	32	220	.7	1
66W 10+50S	27	325	.8	1
66W 10+75S	56	68	.4	1
66W 11S	60	587	.8	1
66W 11+25S	76	199	.8	1
66W 11+50S	49	736	.8	2
66W 11+75S	31	53	.2	1
66W 12S	27	114	.2	1
66W 12+25S	199	353	1.5	1
66W 12+50S	215	83	.5	1
66W 12+75S	87	32	.4	1
66W 13S	54	102	.4	1
66W 13+25S	96	172	.5	1
66W 13+50S	57	108	.4	1
66W 13+75S	74	180	.6	1
66W 14S	344	1378	1.7	1
66W 14+25S	154	715	.5	1
66W 14+50S	383	666	.7	1
66W 14+75S	45	102	1.8	1
66W 15S	87	375	.4	1
66W 15+25S	97	1801	.9	1
66W 15+50S	166	1533	.8	1
66W 15+75S	77	88	.1	2
66W 16S	195	183	.2	1
66W 16+25S	61	935	.9	1
66W 16+50S	48	170	.1	1
66W 16+75S	42	132	.5	1
STD A-1	45	168	.7	1
66W 17S	57	67	.5	2
66W 17+25S	81	143	.3	276
66W 17+50S	39	107	.1	2
VS-1	49	339	.8	3
VS-2	4	479	.1	2
STD A-1	45	171	.3	1

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To: Eldorado
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Vancouver, B.C.
V6C 2V6

File No. 82-0835
Type of Samples Soils
Disposition

GEOCHEMICAL ASSAY CERTIFICATE

SAMPLE No.	Pb*	Zn	Ag
51W 10 S	66	240	.3
10+25	92	205	.4
10+50	74	255	.4
10+75	35	118	.7
11	28	140	.2
11+25	52	156	.3
11+50	56	235	.1
11+75	41	150	.2
12	42	230	.6
12+25	68	174	1.0
12+50	39	180	.1
12+75	52	100	.9
13	56	146	1.1
13+25	106	174	.1
13+50	60	140	.8
13+75	36	126	2.4
14	94	148	1.4
14+25	96	580	.6
14+50	64	330	.4
14+75	126	415	.9
15	128	260	1.5
15+25	330	196	2.8
15+50	750	114	2.3
15+75	116	235	.7
16	130	98	.3
16+25	105	1040	.6
16+50	265	1500	2.7
16+75	140	1650	2.3
17	32	135	.3
17+25	23	126	.3
17+50	13	48	.4
17+75	43	106	.4
18	18	132	.6
18+25	30	136	.5
18+50	13	78	.5
18+75	18	166	.4
51W 19 S	16	220	1.2

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GEOCHEMICAL ASSAY CERTIFICATE

2

SAMPLE No.		Pb*	Zn	Ag
53W	10 S	64	112	1.1
	10+25	56	162	.8
	10+50	76	230	1.6
	10+75	66	260	1.2
	11	64	205	.6
	11+25	66	172	1.4
	11+50	70	166	.9
	11+75	45	265	.4
	12	32	345	.9
	12+25	12	82	.5
	12+50	38	64	1.5
	12+75	86	202	1.0
	13	37	32	1.5
	13+25	58	118	1.3
	13+55	56	130	2.8
	13+75	110	380	.5
	14	140	735	3.4
	14+25	34	124	.7
	14+50	31	385	1.5
	14+75	580	345	6.3
	15	82	134	1.2
	15+25	960	590	3.5
	15+50	265	1550	3.7
	15+75	390	1650	1.2
	16	300	640	1.3
	16+25	43	265	.2
	16+50	105	2850	1.0
	16+75	44	1840	.6
	17+30	25	1450	.9
	17+50	33	1450	1.2
	17+75	24	1150	1.4
53W	18 S	22	895	.8
55W	10 S	46	142	1.2
	10+25	35	136	2.4
	10+50	140	170	2.3
	10+75	28	130	5.0
55W	11 S	40	142	.9

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GEOCHEMICAL ASSAY CERTIFICATE

3

SAMPLE No.		Pb*	Zn	Ag	
55W	11+25S	66	150	.5	1
	11+50	132	375	4.0	2
	11+75	114	340	3.5	3
	12	200	495	3.9	4
	12+25	20	64	1.5	5
	12+50	68	310	2.4	6
	12+75	58	235	1.3	7
	13	70	275	1.1	8
	13+25	42	70	.3	9
	13+50	58	166	.4	10
	13+75	80	120	.2	11
	14	42	200	.7	12
	14+25	96	365	1.3	13
	14+50	140	310	.3	14
	14+75	105	750	1.1	15
	15	100	245	.6	16
	15+25	46	790	.6	17
	15+50	180	1900	1.5	18
	15+75	42	910	.5	19
55W	16 S	10	725	.3	20
					21
55W	16+25S	35	530	.3	22
	16+50	47	2950	.7	23
	16+75	11	2650	.5	24
	17	19	1360	2.1	25
	17+25	18	84	.9	26
	17+50	12	112	.8	27
	17+75	15	28	.4	28
	18	8	26	.3	29
	18+25	48	26	.2	30
	18+50	21	18	.1	31
	18+75	42	48	.4	32
	19	18	56	.2	33
	19+25	29	140	.5	34
	19+50	52	92	.6	35
	19+75	12	26	1.6	36
	20	5	58	.8	37
55W	20+25S	8	27	.8	38
					39
					40

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GEOCHEMICAL ASSAY CERTIFICATE

4

SAMPLE No.		Pb*	Zn	Ag
55W	20+50S	39	110	.4
	20+75	42	136	.4
55W	21 S	43	128	.3
57W	10 S	34	215	3.1
	10+25	22	98	.5
	10+50	23	144	.5
	10+75	32	156	1.6
	11	84	66	.6
	11+25	40	106	.9
	11+50	9	34	.2
	11+75	42	25	.4
	12	46	64	.5
	12+25	50	76	.7
	12+50	96	340	4.4
	12+75	36	38	.6
	13	60	52	.4
	13+25	160	62	1.2
	13+50	96	178	1.2
	13+75	114	225	.7
	14	19	44	.5
	14+25	10	125	1.8
	14+50	78	98	1.8
	14+75	62	465	1.8
	15	84	116	3.6
	15+25	26	82	.3
	15+50	82	152	.6
	15+75	205	1220	2.0
	16	56	825	1.8
	16+25	5	605	.6
	16+50	6	485	1.0
	16+75	43	550	2.6
	17	50	480	1.8
	17+25	24	116	.9
	17+50	9	80	.4
	17+75	3	12	.5
	18	40	86	.4
57W	18+25S	22	72	.6

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GEOCHEMICAL ASSAY CERTIFICATE

5

SAMPLE No.		Pb*	Zn	Ag	
57W	18+50S	52	144	.5	1
	18+75	48	146	.5	2
	19	28	72	.3	3
	19+25	28	136	.8	4
	19+50	24	142	.8	5
	19+75	38	184	.9	6
57W	20 S	23	136	.2	7
					8
59W	10 S	58	385	1.3	9
	10+25	32	92	.6	10
	10+50	28	215	2.8	11
	10+75	29	275	14.9	12
	11	16	125	3.8	13
	11+25	21	94	1.2	14
	11+50	38	52	1.4	15
	11+75	49	130	1.1	16
	12	20	76	1.5	17
	12+25	70	170	.5	18
	12+50	64	184	.2	19
	12+75	69	114	.3	20
	13	59	178	.3	21
	13+25	52	202	2.3	22
	13+50	69	152	.9	23
	13+75	62	265	3.7	24
	14	35	52	.2	25
	14+25	67	118	.8	26
	14+75	415	108	2.2	27
	14+75A	475	182	.6	28
	15	1370	2600	3.4	29
	15+25	390	860	.7	30
	15+50	188	605	.4	31
	15+75	38	1300	.5	32
	16	112	74	.1	33
	16+25	68	1350	.4	34
	16+50	88	1550	.5	35
	16+75	46	325	.2	36
59W	17 S	72	350	.4	37
					38
					39
					40

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GEOCHEMICAL ASSAY CERTIFICATE

6

SAMPLE No.		Pb*	Zn	Ag	
61W	10 S	40	138	.1	1
	10+25	28	166	1.6	2
	10+50	62	930	5.2	3
	10+75	29	164	.8	4
	11	32	148	.7	5
	11+25	16	76	3.5	6
	11+50	32	120	1.2	7
	11+75	45	122	.5	8
	12	50	310	1.4	9
	12+25	166	2100	3.4	10
	12+50	18	96	.5	11
	12+75	86	85	.2	12
	13	84	455	.5	13
	13+25	58	122	.1	14
	13+50	200	375	1.7	15
	13+75	136	178	.8	16
	14	127	70	.1	17
	14+25	27	94	1.3	18
	14+50	350	285	.8	19
	14+75	285	178	3.2	20
	15	186	565	.8	21
	15+25	84	220	.1	22
	15+50	180	3400	.5	23
	15+75	54	455	.6	24
	16	15	74	.5	25
	16+25	66	1350	1.5	26
	16+50	64	135	1.1	27
	16+75	36	345	3.3	28
61W	17 S	20	94	.3	29
					30
63W	10+25S	35	445	.3	31
	10+50	17	222	2.8	32
	10+75	38	535	1.3	33
	11	35	545	1.9	34
	11+25	12	64	.1	35
	11+50	4	66	.4	36
	11+75	38	184	.8	37
	12	110	196	.7	38
63W	12+25S	82	114	.2	39
					40

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Type of Samples

Disposition

GEOCHEMICAL ASSAY CERTIFICATE

7

SAMPLE No.		Pb*	Zn	Ag	
63W	12+50S	52	205	.9	1
	12+75	8	28	.2	2
	13	46	172	.8	3
	13+25	315	408	1.4	4
	13+50	54	855	.9	5
	13+75	9	152	.7	6
	14	104	575	1.3	7
	14+25	245	765	1.8	8
	14+50	400	155	.6	9
	14+75	33	18	.1	10
	15	720	360	.3	11
	15+25	7200	6350	2.2	12
	15+50	100	5400	.8	13
	15+75	28	6000	.7	14
	16	26	150	.4	15
	16+25	32	44	.2	16
	16+50	98	740	1.8	17
	16+75	9	35	.1	18
	17	47	245	.3	19
	17+25	34	4550	.5	20
	17+50	33	220	.5	21
	17+75	50	58	.2	22
	18	47	82	.8	23
	18+25	34	106	.5	24
	18+50	32	170	1.8	25
	18+75	27	280	.6	26
63W	19 S	26	185	.7	27
					28
65W	10+25S	31	74	1.1	29
	10+50	23	102	.2	30
	10+75	88	106	2.9	31
	11	33	345	.6	32
	11+25	35	92	.5	33
	11+50	46	126	.2	34
	11+75	32	86	.1	35
	12	138	124	1.4	36
	12+25	9	170	.3	37
65W	12+50S	64	78	.7	38
					39
					40

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File No. 82-0835

Type of Samples

Disposition

GEOCHEMICAL ASSAY CERTIFICATE

8

SAMPLE No.		Pb*	Zn	Ag
65W	12+75S	45	94	.2
	13	105	265	.3
	13+25	56	162	.8
	13+50	26	48	.1
	13+75	120	905	1.5
	14	250	278	.4
	14+25	900	502	.4
	14+50	1510	1360	1.6
	14+75	68	68	.2
	15	145	3250	1.4
	15+25	250	2850	1.0
	15+50	44	3750	.8
	15+75	9	40	.1
	16	36	44	.1
	16+25	38	172	1.6
	16+50	265	1400	1.1
	16+75	112	380	.3
	17	120	5450	.6
	17+25	88	4200	.7
	17+50	20	72	.1
	17+75	19	88	.1
65W	18 S	41	100	.1

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ACME ANALYTICAL LABORATORIES LTD. 852 E. HASTINGS, VANCOUVER B.C. PH:253-3158 TELEX:04-53124

ICP GEOCHEMICAL ANALYSIS

A .500 GRAM SAMPLE IS DIGESTED WITH 3 ML OF 3:1:3 HCL TO HNO3 TO H2O AT 90 DEG.C. FOR 1 HOUR. THE SAMPLE IS DILUTED TO 10 MLS WITH WATER.
THIS LEACH IS PARTIAL FOR: Ca,P,Mg,Al,Ti,La,Na,K,W,Ba,Si,Sr,Cr AND B. Au DETECTION 3 ppb.
AU* ANALYSIS BY AA FROM 10 GRAM SAMPLE. SAMPLE TYPE - SOIL PB* & AG* - BACKGROUND CORRECTED AA ANALYSIS

DATE RECEIVED JUNE 30 1982 DATE REPORTS MAILED July 2/82 ASSAYER D. Toye DEAN TOYE, CERTIFIED B.C. ASSAYER

ELDORADO MINES FILE # 82-0493

SAMPLE #	PB ppm	ZN ppm	AG ppm	Au* ppb
39W 10S	29	168	.5	5
39W 10+25S	24	181	.7	5
39W 10+50S	25	140	1.1	5
39W 10+75S	73	334	1.6	5
39W 11S	24	170	.1	5
39W 11+25S	26	94	.5	5
39W 11+50S	21	132	1.2	5
39W 11+75S	21	122	2.7	5
39W 12S	28	83	.6	5
39W 12+25S	28	55	1.4	5
39W 12+50S	19	133	.4	5
39W 12+75S	32	113	.3	5
39W 13S	37	147	.4	5
39W 13+25S	36	98	.4	10
39W 13+50S	56	88	1.3	5
39W 13+75S	35	106	.7	5
39W 14S	51	102	1.6	5
39W 14+25S	42	122	.9	5
39W 14+50S	18	124	.2	5
39W 14+75S	27	74	.4	5
39W 15S	34	272	1.5	5
39W 15+25S	34	148	.4	5
39W 15+50S	43	96	.4	10
39W 15+75S	52	137	.4	5
39W 16S	620	1256	1.1	5
39W 16+25S	842	264	.5	15
39W 16+50S	124	128	.4	25
39W 16+75S	156	316	.2	5
39W 17S	132	386	.5	5
39W 17+25S	33	92	.4	15
STD A-1	38	176	.4	5
41W 10S	31	175	.3	5
41W 10+25S	37	141	.9	5
41W 10+50S	37	304	.7	5
41W 10+75S	42	161	.4	15
41W 11S	82	78	1.8	5
41W 11+25S	21	89	.3	5
41W 11+50S	64	107	1.2	5

SAMPLE #	PB ppm	ZN ppm	AG ppm	Au* ppb
41W 11+75S	12	45	.8	5
41W 12S	12	75	.1	5
41W 12+25S	73	516	.8	5
41W 12+50S	42	211	.9	5
41W 12+75S	203	191	1.4	5
41W 13S	781	159	4.1	10
41W 13+25S	115	170	1.4	5
41W 13+50S	40	168	1.8	10
41W 13+75S	26	94	2.0	25
41W 14S	559	278	2.4	5
41W 14+25S	48	175	1.2	10
41W 14+75S	44	52	1.8	5
41W 15S	850	85	.8	70
41W 15+25S	22	64	.7	10
41W 15+50S	49	791	1.1	10
41W 15+75S	137	237	1.7	5
41W 16S	128	229	1.1	10
41W 16+25S	221	332	.9	5
41W 16+50S	204	325	.4	5
41W 16+75S	94	108	.3	10
41W 17S	145	209	2.0	15
41W 17+25S	21	104	.4	15
41W 17+50S	56	198	.9	10
41W 17+75S	22	164	.3	10
41W 18S	31	234	1.3	25
41W 18+25S	17	162	.3	5
41W 18+50S	31	229	1.3	5
41W 18+75S	97	259	1.4	35
41W 19S	22	210	.4	10
41W 19+25S	13	177	.4	15
41W 19+50S	26	268	.6	10
41W 19+75S	16	201	.3	10
41W 20S	15	215	.5	5
43W 10S	12	40	1.2	10
43W 10+25S	36	106	.4	5
43W 10+50S	20	129	5.9	10
STD A-1	40	177	.3	5

ELDORADO MINES FILE # 82-0493

SAMPLE #	PB ppm	ZN ppm	AG ppm	Au* ppb
43W 10+75S	27	145	.6	5
43W 11S	46	326	.7	5
43W 11+25S	41	107	.3	5
43W 11+50S	43	141	.2	10
43W 11+75S	54	155	.2	5
43W 12S	154	196	.4	5
43W 12+25S	30	81	.1	5
43W 12+50S	20	159	.5	5
43W 12+75S	35	180	.2	5
43W 13S	32	57	.5	5
43W 13+25S	90	170	1.8	5
43W 13+50S	23	246	1.7	5
43W 13+75S	51	255	1.0	5
43W 14S	16	84	.8	5
STD A-1	38	177	.3	5
43W 14+25S	21	1638	1.3	5
43W 14+50S	27	125	1.2	5
43W 14+75S	53	208	.2	5
43W 15S	89	278	2.0	5
43W 15+25S	48	309	2.7	5
43W 15+50S	47	1463	1.0	5
43W 15+75S	81	270	.9	5
43W 16S	84	227	.4	5
43W 16+25S	135	411	4.3	5
43W 16+50S	64	231	.6	5
43W 16+75S	134	357	1.2	5
43W 17S	55	127	.2	5
43W 17+25S	64	175	.2	5
43W 17+50S	99	205	.9	5
43W 17+75S	36	170	.4	10
43W 18S	33	86	.4	15
43W 18+25S	39	175	.5	5
43W 18+50S	12	160	.2	20
43W 18+75S	17	124	.2	5
43W 19S	17	139	.7	5
43W 19+25S	20	144	1.1	5
43W 19+50S	17	116	.4	5
43W 19+75S	14	111	.6	5
43W 20S	14	85	.2	5

SAMPLE #	PB ppm	ZN ppm	AG ppm	Au* ppb
45W 10S	42	232	.2	5
45W 10+25S	30	178	1.3	5
45W 10+50S	29	123	.3	5
45W 10+75S	28	127	.7	5
45W 11S	30	99	1.0	5
45W 11+25S	161	198	.7	5
45W 11+50S	132	183	.2	20
45W 11+75S	36	122	.4	5
45W 12S	18	108	.1	5
45W 12+25S	17	86	.4	15
45W 12+50S	13	99	.1	5
45W 12+75S	13	368	.5	5
45W 13S	78	218	1.5	10
45W 13+25S	148	215	1.4	5
45W 13+50S	136	228	3.0	5
45W 13+75S	42	115	1.4	5
45W 14S	22	279	2.2	5
45W 14+25S	353	405	1.5	5
45W 14+50S	41	204	2.1	5
45W 14+75S	83	147	.9	5
45W 15S	73	276	.8	5
45W 15+25S	73	239	1.2	15
45W 15+50S	47	253	1.2	65
45W 15+75S	44	283	.3	5
45W 16S	55	269	1.1	5
45W 16+25S	28	135	.3	5
45W 16+50S	57	376	1.0	5
45W 16+75S	23	174	.1	5
45W 17S	27	161	.3	5
45W 17+25S	18	124	.2	5
45W 17+50S	17	97	.2	5
45W 17+75S	14	86	.2	5
45W 18S	32	243	.3	5
45W 18+25S	22	132	.4	5
45W 18+50S	15	144	1.1	5
45W 18+75S	11	79	.2	5
45W 19S	15	122	.5	5
STD A-1	36	176	.4	5

SAMPLE #	PB ppm	ZN ppm	AG ppm	Au* ppb
45W 19+25S	22	184	.9	5
45W 19+50S	10	106	1.5	5
45W 19+75S	7	50	1.3	5
45W 20S	12	109	.3	5
STD A-1	38	177	.4	5
48W 10S	18	54	.3	5
48W 10+25S	47	132	.6	5
48W 10+50S	68	240	.3	5
48W 10+75S	28	99	1.2	5
48W 11S	101	191	2.0	5
48W 11+25S	52	371	.5	15
48W 11+50S	46	180	.3	5
48W 11+75S	67	159	.8	5
48W 12S	28	48	2.2	5
48W 12+25S	24	155	1.1	5
48W 12+50S	8	30	.5	5
48W 12+75S	18	82	.4	10
48W 13S	47	83	1.0	5
48W 13+25S	101	242	.5	5
48W 13+50S	49	150	.2	10
48W 13+75S	134	135	1.5	75
48W 14S	60	142	.5	5
48W 14+25S	66	269	.3	5
48W 14+50S	95	219	.7	5
48W 14+75S	256	612	3.1	5
48W 15S	122	149	1.9	5
48W 15+25S	200	248	1.1	15
48W 15+50S	54	187	.2	5
48W 15+75S	136	148	.8	5
48W 16S	122	225	1.3	5
48W 16+25S	55	256	3.0	5
48W 16+50S	65	247	.6	5
48W 16+75S	97	163	.5	5
48W 17S	86	125	1.3	5
48W 17+25S	70	880	1.6	5
48W 17+50S	27	600	2.8	5
48W 17+75S	43	266	.4	5
48W 18S	38	153	.3	5

ELDORADO MINES FILE # 82-0493

SAMPLE #	PB ppm	ZN ppm	AG ppm	Au* ppb
48W 18+25S	23	123	.3	5
48W 18+50S	22	131	.2	5
48W 18+75S	16	67	.1	5
48W 19S	16	54	.5	5
48W 19+25S	27	167	.2	5
48W 19+50S	1	13	.3	5
48W 19+75S	16	298	.3	5
48W 20S	3	21	.4	5
50W 10S	35	111	.2	5
50W 10+25S	106	177	.4	5
50W 10+50S	60	192	.2	5
50W 10+75S	114	222	.4	5
50W 11S	60	76	.7	5
50W 11+25S	40	164	.2	5
50W 11+50S	32	182	.4	5
50W 11+75S	34	244	.4	5
50W 12S	37	276	.5	5
50W 12+25S	34	183	.5	5
50W 12+50S	20	79	.6	5
50W 12+75S	12	77	.4	5
50W 13S	35	146	3.2	5
50W 13+25S	24	83	.1	15
50W 13+50S	96	94	1.0	5
50W 13+75S	48	118	.8	5
50W 14S	226	1776	.3	5
50W 14+25S	67	117	.8	5
50W 14+50S	52	149	.5	5
50W 14+75S	61	376	.9	5
50W 15S	74	127	.2	5
50W 15+25S	25	147	2.2	5
50W 15+50S	220	413	8.9	5
50W 15+75S	113	125	1.2	5
50W 16S	267	145	2.5	5
50W 16+25S	291	1456	3.9	5
50W 16+50S	25	612	1.4	5
50W 16+75S	89	911	3.0	5
50W 17S	55	199	1.5	5
STD A-1	39	176	.2	5

SAMPLE #	PB ppm	ZN ppm	AG ppm	Au* ppb
50W 17+25S	128	363	2.0	5
50W 17+50S	32	207	.8	5
50W 17+75S	35	242	.4	5
50W 18S	21	86	.9	5
50W 18+25S	44	254	2.6	5
50W 18+50S	21	137	.6	5
50W 18+75S	20	279	1.9	5
50W 19S	4	183	1.2	5
50W 19+25S	23	241	.6	5
50W 19+50S	27	193	.6	5
50W 19+75S	17	196	.7	5
50W 20S	7	59	.7	5
43+15W 13S	15	96	.7	5
DS-1	15	218	.3	5
STD A-1	38	171	.3	5

ACME ANALYTICAL LABORATORIES LTD.
Assaying & Trace Analysis
852 E. Hastings St., Vancouver, B.C. V6A 1R6
phone:253 - 3158

To: Eldorado
1020 - 800 W. Pender St.,
Vancouver, B.C.

Project : Bullion Creek

File No. 82-1017 A

Type of Samples Soils

Disposition

GEOCHEMICAL ASSAY CERTIFICATE

SAMPLE No.	Pb*	Zn	Ag
67W 9+50 S	28	98	.2
9+75	30	470	.9
10	32	166	.5
10+25	76	314	.5
10+50	46	1220	.6
10+75	60	106	.4
11	54	300	1.4
11+25	35	260	.6
11+50	72	164	.8
11+75	58	565	1.2
12	80	210	1.4
12+25	54	450	.8
12+50	148	270	.2
12+75	254	270	.6
13	260	605	.6
13+25	660	1540	1.5
13+50	190	1080	1.2
13+75	220	385	1.1
14	76	285	.9
14+25	90	225	1.2
14+50	44	515	1.2
14+75	210	1200	2.0
15	186	1050	.9
15+25	145	1900	1.9
15+50	50	150	.7
15+75	90	290	.4
16	110	108	.5
16+25	126	680	1.0
16+50	96	1560	.6
16+75	68	1920	1.1
17	22	64	1.0
17+25	54	86	.8
67W 17+50 S	22	130	.7
68W 9 S	38	54	.3
9+25	86	154	.4
9+50	60	134	.5
9+75	15	158	.5
68W 10 S	96	214	1.0

All reports are the confidencial property of clients
All results are in PPM.

DIGESTION:

DETERMINATION:

DATE SAMPLES RECEIVED Sept. 2, 1982

DATE REPORTS MAILED Sept. 7, 1982

ASSAYER

DEAN TOYE, B.Sc.
CHIEF CHEMIST
CERTIFIED B.C. ASSAYER

ACME ANALYTICAL LABORATORIES LTD.
Assaying & Trace Analysis
852 E. Hastings St., Vancouver, B.C. V6A 1R6
phone:253 - 3158

To: Eldorado
1020 - 800 W. Pender St.,
Vancouver, B.C.

File No. 82-1017 A
Type of Samples
Disposition

GEOCHEMICAL ASSAY CERTIFICATE

2

SAMPLE No.	Pb*	Zn	Ag
68W 10+25 S	36	430	.8
10+50	14	88	3.9
10+75	60	390	1.5
11	42	184	2.6
11+25	90	375	1.0
11+50	48	315	.8
11+75	14	44	1.1
12	74	425	.9
12+25	36	112	1.3
12+50	75	194	1.3
12+75	88	340	1.1
13	89	186	.6
13+25	76	236	.5
13+50	92	435	.6
13+75	48	570	1.9
14	65	525	.9
14+25	118	260	.5
14+50	50	124	.2
14+75	72	128	.4
15	420	78	1.4
15+25	102	670	1.1
15+50	148	390	1.3
15+75	134	700	1.0
16	36	650	.5
16+25	55	250	.7
68W 16+50 S	30	130	.6
69W 9 S	38	188	.8
9+25 N.S.			
9+50	70	260	1.2
9+75	34	230	1.7
10	30	445	1.8
10+25	13	66	.2
10+50	40	220	.8
10+75	33	1120	1.4
11	20	48	.4
11+25	75	52	.6
69W 11+50 S	78	162	.8

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DIGESTION:

DETERMINATION:

DATE SAMPLES RECEIVED Sept. 2, 1982

DATE REPORTS MAILED Sept. 7, 1982

ASSAYER

DEAN TOYE, B Sc.
CHIEF CHEMIST
CERTIFIED B.C. ASSAYER

To: Eldorado

ACME ANALYTICAL LABORATORIES LTD.
Assaying & Trace Analysis
852 E. Hastings St., Vancouver, B.C. V6A 1R6
phone:253 - 3158

File No. 82-1017 A

Type of Samples _____

Disposition _____

GEOCHEMICAL ASSAY CERTIFICATE

3	SAMPLE No.	Pb*	Zn	Ag	
69W	11+75 S	20	122	1.0	1
	12	34	370	1.5	2
	12+25	62	136	.4	3
	12+50	60	330	1.2	4
	12+75	70	205	.8	5
	13	124	230	1.0	6
	13+25	45	76	.1	7
	13+50	100	285	.7	8
	13+75	29	78	1.4	9
	14	410	2100	2.2	10
	14+25	46	120	.3	11
	14+50	84	164	.6	12
	14+75	85	180	.4	13
	15	238	305	1.3	14
	15+25	82	320	.3	15
	15+50	75	260	.5	16
69W	15+75 S	42	300	.3	17
					18
70W	9 S	32	315	1.2	19
	9+25	30	210	2.0	20
	9+50	10	74	.1	21
	9+75	25	140	2.4	22
	10	24	420	2.1	23
	10+25	30	905	1.4	24
	10+50	24	68	.6	25
	10+75	102	2380	1.5	26
	11	60	1720	1.3	27
	11+25	180	285	.4	28
	11+50	84	94	.5	29
	11+75	120	106	3.0	30
	12	170	265	1.8	31
	12+25	60	510	1.5	32
	12+50	40	595	1.7	33
	12+75	46	470	.8	34
	13	135	435	.6	35
	13+25	64	610	.5	36
	13+50	60	405	.8	37
	13+75	126	920	.4	38
70W	14 S	62	2500	.9	39
					40

All reports are the confidencial property of clients
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DIGESTION:.....

DETERMINATION:.....

DATE SAMPLES RECEIVED Sept. 2, 1982

DATE REPORTS MAILED Sept. 7, 1982

ASSAYER _____

DEAN TOYE, B.Sc.
CHIEF CHEMIST
CERTIFIED B.C. ASSAYER

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852 E. Hastings St., Vancouver, B.C. V6A 1R6
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To: Eldorado Inc.
1020 - 800 W. Pender St.,
Vancouver, B.C.
V2C 2V6
Attn.: Mr. N. Newson c.c. Mr. D.L. Kuran, Yukon
Project : Bullion Creek

File No. 82-1224 A
Type of Samples Soils
Disposition

GEOCHEMICAL ASSAY CERTIFICATE

FA

SAMPLE No.		Pb	Zn	Ag	As	Au ppb	Hg ppb						
69W 16 S		29	188	.3									1
16+25		16	92	.4									2
16+50		19	120	.4									3
16+75		18	95	.4									4
69W 17 S		15	75	.3									5
													6
70W 14+25 S		78	252	.2	15	4	40						7
14+50		39	234	.3									8
14+75		55	243	.2									9
15		36	139	.3									10
15+25		12	104	.2									11
15+50		12	100	.1									12
15+75		14	106	.1									13
16		32	128	.2									14
16+25		19	81	.7									15
16+50		17	90	.4									16
16+75		29	88	.2									17
70W 17 S		13	63	.2	8	1	30						18
VS-17	silt	23	177	.4	34	8	10					P	19
VS-18	silt	14	111	.4	16	14	25					P	20
													21
VR-98	rock	481	661	2.9		9							22
99		46	21	.5		60							23
VR-100	rock	36	137	1.1		3							24
													25
PR-1	Rock	31	72	.3	9	1	20						26
2		22	13	1.7	19	16	5						27
3		11	66	.8	23	1	15						28
4		46	52	1.1	277	1	10						29
PR-5	Rock	118	217	1.0	4	1	30						30
													31
AH-39	Rock	12	76	.3	13	1	30						32
													33
													34
													35
													36
													37
													38
													39
													40

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IGESTION:.....

DETERMINATION:.....

P = pulverizing

DATE SAMPLES RECEIVED Sept. 27, 1982

DATE REPORTS MAILED Oct. 4, 1982

ASSAYER

DEAN TOYE, B.Sc.
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852 E. Hastings St., Vancouver, B.C. V6A 1R6
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To: Eldorado
1020 - 800 W. Pender St.,
Vancouver, B.C.

File No. 82-1025
Type of Samples - Soils
Disposition

GEOCHEMICAL ASSAY CERTIFICATE

Project : Bullion Creek

SAMPLE No.		Pb*	Zn	Ag
71W	9 S	40	218	.8
	9+25	32	146	.4
	9+50	35	225	.1
	9+75	30	150	2.5
	10	20	560	2.2
	10+25	28	76	1.0
	10+50	48	158	1.1
	10+75	42	390	1.0
	11	34	54	.1
	11+25	130	260	.7
	11+50	64	390	.3
	11+75	102	2160	.6
	12	35	135	.9
	12+25	54	192	.4
	12+50	108	240	.2
	12+75	40	105	1.4
	13	76	122	.1
	13+25	10	204	.5
	13+50	104	826	.9
	13+75	24	470	.7
	14	54	1700	.6
	14+25	miss		
71W	14+50S	38	196	.1
72W	9 S	144	330	2.2
	9+25	50	200	.7
	9+50	16	386	.9
	9+75	6	18	.4
	10	28	180	.3
	10+25	7	495	.1
	10+50	48	605	.2
	10+75	58	1940	1.3
	11	122	906	1.0
	11+25	40	170	.1
	11+50	26	32	.1
	11+75	32	74	1.0
	12	48	198	.6
72W	12+25S	98	1750	.7

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DIGESTION:

DETERMINATION:

DATE SAMPLES RECEIVED Sept. 2, 1982

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ASSAYER

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CHIEF CHEMIST
CERTIFIED B.C. ASSAYER

ACME ANALYTICAL LABORATORIES LTD.
Assaying & Trace Analysis
852 E. Hastings St., Vancouver, B. C. V6A 1R6
phone:253-3158

To: Eldorado

File No. 82-1025

Type of Samples

Disposition

GEOCHEMICAL ASSAY CERTIFICATE

2

SAMPLE No.	Pb*	Zn	Ag
73W 9 S	50	535	2.6
9+25	32	166	.9
9+50	24	138	3.0
9+75	40	166	.6
10	29	62	1.0
10+25	18	54	.5
10+50	32	64	.7
10+75	45	215	.5
11	75	110	.8
11+25	34	80	.4
73W 11+50S	56	114	.7

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DIGESTION:

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ACME ANALYTICAL LABORATORIES LTD.
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852 E. Hastings St., Vancouver, B.C. V6A 1R6
phone:253 - 3158

To: Eldorado
1020 - 800 W. Pender St.,
Vancouver, B.C.
V2C 2V6

File No. 82-1082 A
Type of Samples Soils & S
Disposition

GEOCHEMICAL ASSAY CERTIFICATE

Project : Bullion Creek

SAMPLE No.		Pb*	Zn	Ag	Au ppb	
74W	9 S	36	85	.2	5	1
	9+25	35	2^5	1.5	5	2
	9+50	32	100	.1	5	3
	9+75	156	265	.3	5	4
	10	320	312	.9	5	5
	10+25	27	85	.1	5	6
	10+50	24	90	.1	5	7
	10+75	26	82	.1	5	8
	11	25	84	.1	5	9
	11+25	29	74	.1	5	10
	11+50	41	140	.4	5	11
	11+75	28	106	.1	5	12
	12	33	135	.1	5	13
	12+25	124	435	.7	5	14
	12+50	142	480	.6	5	15
	12+75	40	95	.1	5	16
	13	100	295	.5	5	17
	13+25	66	160	.3	5	18
	13+50	56	175	.2	5	19
	13+75	92	280	.4	5	20
	14	250	305	.6	5	21
	14+25	54	110	.2	80	22
	14+50	22	55	.2	5	23
	14+75	74	165	.3	5	24
	15	20	165	.5	5	25
	15+25	21	330	.6	10	26
74W	15+50	18	183	.5	5	27
						28
VS	11 silt	18	67	.1	5	29
VS	12 silt	25	220	.4	5	30
						31
						32
						33
						34
						35
						36
						37
						38
						39
						40

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ASSAYER

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ACME ANALYTICAL LABORATORIES LTD.
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852 E. Hastings St., Vancouver, B.C. V6A 1R6
phone:253 - 3158

To: Eldorado
1020 - 800 W. Pender St.,
Vancouver, B.C.
V2C 2V6
Attn.: Mr. Norm Newson
c.c. Mr. D. Kuran, Twilite Espediting, Yukon

File No. 82-1113
Type of Samples Soils
Disposition

GEOCHEMICAL ASSAY CERTIFICATE

Project : Bullion Creek

SAMPLE No.	Pb*	Zn	Ag*
71W 14+75 S	32	130	.2
15	28	118	.3
15+25	44	194	.2
15+50	38	198	.2
15+75	64	240	.1
16	72	245	.4
16+25	50	172	.4
16+50	38	100	.1
16+75	104	172	.5
71W 17 S	24	30	.7
72W 12+50 S	88	170	.2
12+75	62	80	.6
13	42	158	.2
13+25	26	138	.1
13+50	32	184	.3
13+75	37	110	.7
14	50	395	.7
14+25	28	92	.3
14+50	200	325	.4
14+75	64	205	.4
15	74	265	.2
15+25	62	375	.5
15+50	84	680	1.0
15+75	54	144	1.5
16	25	76	.3
16+25	44	78	.4
16+50	32	80	.3
16+75	22	64	.2
72W 17 S	30	70	.4
73W 11+75 S	34	122	.3
12	70	166	.1
12+25	82	375	.8
12+50	33	210	.6
12+75	182	375	.7
13	86	245	.7
13+25	108	410	1.0
73W 13+50 S	60	148	.5

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DIGESTION:

DETERMINATION:

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ACME ANALYTICAL LABORATORIES LTD.
Assaying & Trace Analysis
852 E. Hastings St., Vancouver B.C. V6A 1R6
phone:253 - 3158

To: Eldorado
1020 - 800 W. Pender St.,
Vancouver, B.C.
V2C 2V6

File No. 82-1113
Type of Samples Soils
Disposition

GEOCHEMICAL ASSAY CERTIFICATE

2

SAMPLE No.	Pb*	Zn	Ag*
73W 13+75 S	80	180	.4
14	34	125	.3
14+25	37	225	.5
14+50	25	118	1.1
14+75	21	74	.8
15	22	64	.6
15+25	20	66	.3
15+50	50	106	1.1
15+75	78	168	.3
16	108	174	.6
16+25	15	114	1.1
16+50	34	116	1.2
16+75	30	90	.3
73W 17 S	27	110	.6
74W 15+75 S	16	52	.4
16	8	46	.3
16+25	11	86	.2
16+50	20	72	.8
16+75	19	126	.4
74W 17 S	15	74	1.2
75S 9 S	41	142	.7
9+25	32	134	.8
9+50	25	89	.3
9+75	29	104	.1
10	19	47	.2
10+25	48	70	.2
10+50	45	150	.2
10+75	44	100	.4
11	52	116	1.2
11+25	36	108	.8
11+50	88	268	.6
11+75	66	194	.3
12	74	198	.5
12+25	84	176	.4
12+50	162	250	1.2
12+75	52	130	.4
75S 13 S	35	195	.5

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To: Eldorado

ACME ANALYTICAL LABORATORIES LTD.
Assaying & Trace Analysis
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phone:253 - 3158

File No. 82-1113
Type of Samples Soils
Disposition

GEOCHEMICAL ASSAY CERTIFICATE

SAMPLE No.	Pb*	Zn	Ag*
75W 13+25 S	35	530	.9
13+50	28	320	.8
13+75	21	290	1.2
14	15	92	.3
14+25	28	114	.3
14+50	15	120	.4
14+75	24	182	.5
15	25	282	.8
15+25	18	180	.5
15+50	19	200	.7
15+75	21	126	1.0
16	10	66	.2
16+25	20	172	1.9
16+50	13	154	.5
16+75	8	16	.4
75W 17 S	14	100	.3
76W 9 S	22	80	.6
9+25	28	35	.2
9+50	18	48	.3
9+75	64	138	.2
10	26	48	.1
10+25	118	176	.3
10+50	34	98	.6
10+75	40	68	.5
11	106	128	.5
11+25	72	114	1.2
11+50	366	655	1.1
11+75	126	240	.4
76W 12 S	66	148	.6
76W 12+50 S	60	128	.2
12+75	39	126	.7
13	38	186	.6
13+25	33	325	.8
13+50	48	304	1.5
13+75	20	280	.9
14	23	495	.8
76W 14+25 S	26	510	1.0

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phone:253 - 3158

File No. 82-1113
Type of Samples Soils
Disposition

GEOCHEMICAL ASSAY CERTIFICATE

4

SAMPLE No.	Pb*	Zn	Ag*	
76W 14+50 S	25	380	.3	1
14+75	22	202	.7	2
15	13	70	.2	3
15+25	17	104	.6	4
15+50	22	202	.8	5
15+75	25	225	.6	6
16	76	302	.7	7
16+25	19	335	.5	8
16+50	25	280	.8	9
16+75	17	50	.7	10
76W 17 S	10	17	.3	11
				12
77W 9 S	14	15	.1	13
9+25	25	60	.3	14
9+50	64	94	.5	15
9+75	26	42	.4	16
10	170	315	.5	17
10+25	22	84	.3	18
10+50	76	170	.4	19
10+75	152	335	.3	20
11	92	1070	.9	21
11+25	140	510	.2	22
11+50	76	142	.3	23
11+75	22	154	.2	24
12	12	360	.8	25
12+25	48	250	.6	26
12+50	50	205	.5	27
12+75	66	52	.4	28
13	25	86	.4	29
13+25	18	68	.4	30
13+50	21	152	.2	31
13+75	14	140	.5	32
14	24	1185	.8	33
14+25	26	290	1.0	34
14+50	27	310	1.1	35
14+75	22	140	1.5	36
15	21	225	.5	37
15+25	14	146	.1	38
77W 15+50	22	235	.9	39
				40

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To: Eldorado

File No. 82-1113

Type of Samples Soils

Disposition

GEOCHEMICAL ASSAY CERTIFICATE

5

SAMPLE No.	Pb*	Zn	Ag*
77W 15+75 S	36	240	.6
16	9	33	.2
16+25	13	180	.4
16+50	6	54	.1
16+75	15	385	1.1
77W 17 S	10	90	.8
78W 9 S	60	170	.3
9+25	108	310	.6
9+50	26	106	.1
9+75	40	118	.1
78W 10 S	50	120	.1
78W 10+75 S	1	3	.1
11	30	975	.8
11+25	40	142	.3
11+50	33	86	.1
11+75	37	184	.2
12	40	110	.3
12+25	15	275	.3
12+50	24	560	1.3
12+75	15	260	1.1
13	14	62	1.2
13+25	18	100	.8
13+50	30	245	1.6
13+75	20	495	.6
14	28	450	.9
14+25	21	186	.9
14+50	20	220	.7
14+75	25	330	1.1
15	22	164	1.2
15+25	20	150	.8
15+50 N.S.			
15+75	15	280	1.2
16	16	304	1.3
16+25	20	435	1.4
16+50	19	375	1.4
16+75	14	290	1.2
78W 17 S	13	106	.4

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CERTIFIED B.C. ASSAYER

Appendix 4

VLF EM 16 SURVEY

Data and Interpretation

VLF-EM 16 DATA - APPENDIX 4

LINE	STATION	DIP ANGLE	RELATIVE FIELD STRENGTH	LINE	STATION	DIP ANGLE	RELATIVE FIELD STRENG
36+00W	20+25S	+ 20	+ 18	38+00W	20+25S	+ 7	+ 8
	20+00S	+ 4	+ 6		20+00S	+ 15	- 3
		- 5	+ 11			0	+ 5
		0	0			- 10	+ 10
		+ 10	+ 2			- 30	- 13
	19+00S	0	+ 1		19+00S	+ 30	+ 11
		+ 5	+ 1			+ 20	+ 12
		+ 21	- 6			+ 30	0
		+ 30	- 1			+ 45	- 3
	18+00S	+ 30	- 3		18+00S	+ 15	+ 4
		+ 24	+ 2			+ 22	- 4
		+ 33	0			+ 36	+ 9
		0	- 1			+ 26	- 8
	17+00S	+ 23	- 5		17+00S	+ 25	+ 7
		+ 13	+ 1			+ 30	+ 1
		+ 11	+ 2			+ 30	- 17
		+ 20	- 1			+ 15	- 5
	16+00S	+ 5	+ 7		16+00S	0	+ 8
		+ 35	+ 5			+ 32	+ 6
		+ 20	+ 12			+ 15	- 11
		- 4	- 4			+ 27	+ 6
	15+00S	+ 30	- 7		15+00S	+ 30	+ 3
		+ 15	0			+ 29	- 2
		+ 20	+ 6			+ 40	+ 5
		+ 10	- 1			+ 16	0
	14+00S	+ 30	0		14+00S	+ 22	+ 9
		+ 25	+ 3			+ 31	- 2
		+ 20	- 3			+ 15	+ 3
		+ 13	- 1			+ 20	+ 6
	13+00S	- 10	0		13+00S	+ 32	+ 10
		+ 21	- 1			+ 11	+ 3
		+ 4	+ 7			+ 9	+ 4
		+ 5	- 6			- 3	- 1
	12+00S	+ 3	+ 7		12+00S	+ 2	+ 3
		- 18	+ 5			- 10	+ 4
		+ 8	+ 7			- 6	+ 4
		- 14	+ 5			+ 10	+ 1
	11+00S	- 4	+ 6		11+00S	- 25	- 4
		0	+ 8			- 18	+ 7
		- 10	+ 11			- 20	+ 12
		- 5	+ 10			- 30	+ 18
	10+00S	- 9	+ 20		10+00S	- 10	+ 33
		+ 3	+ 28			+ 3	+ 25

LINE	STATION	DIP ANGLE	RELATIVE FIELD STRENGTH
40+00W	20+25S	+ 21	+ 7
	20+00S	+ 5	+ 10
		+ 35	+ 5
		+ 22	+ 10
		+ 20	- 5
	19+00S	+ 31	- 2
		+ 31	0
		+ 18	- 2
		+ 5	0
	18+00S	+ 3	+ 1
		+ 32	+ 12
		+ 35	+ 10
		+ 35	- 2
	17+00S	+ 40	0
		+ 20	+ 3
		+ 34	+ 7
		+ 24	+ 1
	16+00S	+ 40	+ 2
		+ 25	- 2
		+ 30	+ 3
		+ 35	+ 4
	15+00S	+ 6	+ 1
		+ 12	+ 10
		+ 42	+ 4
		+ 40	+ 10
	14+00S	+ 36	- 5
		+ 30	0
		+ 28	- 4
		+ 25	+ 8
	13+00S	+ 13	+ 2
		+ 30	+ 6
		+ 27	+ 3
		- 5	+ 1
	12+00S	+ 11	+ 10
		+ 8	+ 5
		+ 20	+ 5
		+ 50	+ 15
	11+00S	+ 14	- 6
		- 16	+ 5
		- 24	+ 17
		- 25	+ 20
	10+00S	+ 5	+ 26
		+ 12	+ 20

LINE	STATION	DIP ANGLE	RELATIVE FIELD STRENG
42+00W	20+25S	+ 29	- 1
	20+00S	+ 31	- 2
		+ 18	- 2
		+ 22	+ 3
		- 13	+ 4
	19+00S	+ 4	+ 4
		+ 17	- 5
		+ 22	+ 7
		+ 31	+ 9
	18+00S	+ 30	+ 2
		+ 35	+ 6
		+ 40	+ 6
		+ 33	+ 6
	17+00S	+ 12	+ 9
		+ 32	- 2
		+ 33	+ 4
		+ 13	+ 3
	16+00S	+ 10	+ 5
		+ 22	- 1
		+ 40	+ 6
		+ 22	+ 8
	15+00S	+ 35	- 10
		+ 28	+ 6
		+ 25	+ 6
		+ 42	+ 9
	14+00S	+ 30	+ 3
		+ 20	+ 3
		+ 20	+ 2
		+ 5	+ 5
	13+00S	+ 12	+ 5
	12+75S	+ 22	+ 12
		+ 35	+ 2
		+ 38	+ 6
	12+00S	+ 52	+ 8
		+ 50	+ 6
		+ 8	- 11
		- 4	0
	11+00S	+ 3	+ 9
		+ 3	+ 10
		- 7	+ 15
		+ 4	+ 20
	10+00S	+ 15	+ 28
		+ 20	+ 30

LINE	STATION	DIP ANGLE	RELATIVE FIELD STRENGTH
44+00W	20+25S	+ 2	+ 15
	20+00S	+ 6	+ 8
		+ 27	+ 8
		+ 47	- 5
		+ 53	+ 5
	19+00S	+ 38	+ 5
		+ 27	- 2
		+ 19	- 1
		+ 12	+ 5
	18+00S	+ 20	- 2
		+ 28	- 2
		+ 25	- 2
		+ 30	+ 3
	17+00S	+ 40	+ 2
		+ 36	+ 3
		+ 13	+ 10
		+ 15	0
	16+00S	+ 7	- 2
		+ 28	- 2
		+ 27	+ 1
		+ 25	- 7
	15+00S	+ 46	+ 4
		+ 27	- 4
		+ 20	+ 6
		+ 14	+ 6
	14+00S	+ 17	+ 1
		+ 35	+ 14
		+ 27	+ 3
		+ 37	+ 12
	13+00S	+ 20	+ 3
		+ 15	+ 1
		+ 32	+ 18
		+ 33	+ 8
	12+00S	+ 27	+ 10
		+ 20	+ 12
		+ 20	+ 5
		+ 14	- 8
	11+00S	+ 15	+ 30
		+ 10	+ 22
		+ 12	- 12
		+ 15	+ 15
	10+00S	0	+ 30
		- 5	+ 32

LINE	STATION	DIP ANGLE	RELATIVE FIELD STRENG
46+00W	20+25S	+ 20	- 2
	20+00S	+ 20	- 8
		+ 40	- 7
		+ 10	- 10
		+ 46	+ 4
	19+00S	+ 20	+ 5
		+ 12	- 5
		+ 32	+ 4
		+ 2	+ 4
	18+00S	+ 12	+ 6
		+ 10	- 2
		+ 15	+ 3
		+ 38	0
	17+00S	+ 10	+ 8
		+ 25	- 4
		+ 45	- 7
		+ 25	+ 6
	16+00S	+ 25	+ 5
		+ 18	+ 9
		+ 35	+ 12
		+ 15	+ 5
	15+00S	0	+ 10
		- 3	+ 7
		+ 12	+ 19
		+ 50	- 20
	14+00S	+ 32	- 2
		+ 32	+ 18
		+ 8	+ 25
		- 12	+ 15
		+ 22	+ 7
		+ 30	+ 20
		+ 30	+ 25
		+ 22	+ 18
	12+00S	+ 8	+ 20
		0	0
		0	+ 38
		+ 5	+ 20
	11+00S	+ 5	+ 10
		+ 3	- 5
		+ 10	+ 5
		+ 8	+ 5
	10+00S	+ 5	+ 32
		+ 18	- 3

LINE	STATION	DIP ANGLE	RELATIVE FIELD STRENGTH
48+00W	20+25S	+ 23	+ 6
	20+00S	+ 10	+ 2
		+ 12	+ 4
		+ 20	- 9
		+ 30	- 8
	19+00S	+ 35	- 5
		+ 14	0
		+ 18	+ 1
		+ 21	- 1
	18+00S	+ 25	+ 1
		+ 12	+ 9
		+ 37	- 1
		+ 20	- 10
	17+00S	+ 17	- 7
		+ 15	- 2
		+ 30	- 1
		+ 25	+ 4
	16+00S	+ 12	+ 3
		+ 25	+ 8
		+ 30	+ 4
		+ 12	- 5
	15+00S	+ 35	+ 12
		+ 7	+ 5
		+ 25	+ 4
		+ 38	+ 8
	14+00S	+ 33	+ 10
		+ 15	+ 5
		+ 30	+ 17
		+ 18	+ 7
	13+00S	+ 45	+ 14
		+ 45	- 12
		+ 25	- 5
		+ 10	+ 5
	12+00S	+ 6	+ 6
		+ 5	0
		+ 12	+ 2
		+ 15	+ 11
	11+00S	+ 10	+ 18
		+ 8	+ 20
		+ 6	+ 27
		+ 15	+ 22
	10+00S	+ 25	+ 27
		+ 44	+ 26

LINE	STATION	DIP ANGLE	RELATIVE FIELD STRENG
50+00W	20+25S	+ 5	+ 6
	20+00S	- 19	+ 5
		+ 10	+ 10
		+ 37	- 17
		+ 44	- 8
	19+00S	+ 27	- 2
		+ 16	0
		+ 12	- 2
		+ 25	+ 9
	18+00S	+ 10	- 2
		+ 4	+ 4
		+ 2	- 4
		- 5	- 5
	17+00S	+ 9	- 17
		+ 27	+ 8
		+ 33	- 12
		+ 20	- 12
	16+00S	+ 30	+ 4
		+ 36	0
		+ 25	+ 9
		+ 35	- 2
	15+00S	+ 30	+ 4
		+ 15	+ 7
		+ 15	+ 11
		+ 10	+ 4
	14+00S	+ 40	+ 12
		+ 15	+ 1
		+ 20	+ 15
		- 2	+ 2
	13+00S	+ 20	+ 10
		+ 32	+ 5
		+ 27	+ 5
		+ 25	+ 2
	12+00S	+ 10	+ 4
		+ 25	0
		+ 35	- 1
	11+00S	+ 12	+ 13
		0	+ 8
		0	+ 6
		+ 15	+ 12
	10+00S	+ 10	+ 23
		+ 37	+ 18

LINE	STATION	DIP ANGLE	RELATIVE FIELD STRENGTH	LINE	STATION	DIP ANGLE	RELATIVE FIELD STRENG
52+00W	20+25S	+ 10	- 8	54+00W	20+25S	+ 10	+ 12
	20+00S	+ 12	+ 1		20+00S	+ 11	+ 12
		+ 15	- 7			+ 46	+ 3
		+ 17	0			+ 26	+ 2
		+ 25	- 2			+ 20	+ 5
	19+00S	+ 30	- 10		19+00S	+ 12	- 1
		+ 12	- 10			+ 12	+ 8
		+ 18	- 5			+ 13	+ 4
		+ 15	+ 5			- 12	- 5
	18+00S	+ 10	- 2		18+00S	+ 8	0
		+ 12	0			+ 14	+ 8
		+ 5	+ 2			+ 48	- 10
		+ 18	0			+ 13	- 3
	17+00S	0	+ 2		17+00S	+ 13	+ 3
		+ 26	0			+ 3	+ 10
		+ 31	+ 2			+ 3	+ 10
		+ 13	- 3			+ 8	+ 5
	16+00S	+ 8	+ 12		16+00S	+ 15	+ 9
		+ 16	+ 2			+ 27	- 6
		+ 14	+ 7			+ 18	+ 3
		+ 27	- 2			+ 20	+ 9
	15+00S	+ 12	+ 10		15+00S	+ 10	0
		+ 35	+ 2			+ 20	+ 8
		+ 7	+ 7			+ 14	+ 5
		+ 24	0			+ 5	+ 5
	14+00S	+ 17	+ 3		14+00S	- 8	+ 4
		+ 13	0			- 4	+ 5
		+ 14	0			+ 13	+ 5
		+ 38	+ 15			- 14	+ 5
	13+00S	- 3	+ 5		13+00S	- 5	+ 11
		- 13	+ 12			+ 8	+ 17
		- 2	+ 14			+ 20	+ 14
		+ 15	+ 10			+ 19	+ 1
	12+00S	+ 15	+ 11		12+00S	+ 22	+ 4
		+ 18	0			+ 22	+ 6
		+ 12	- 10			+ 26	+ 2
		+ 23	- 1			+ 19	+ 1
	11+00S	+ 10	+ 2		11+00S	+ 12	+ 8
		+ 7	+ 7			+ 8	+ 15
		+ 5	+ 12			+ 6	+ 15
		+ 20	+ 22			+ 8	+ 28
	10+00S	+ 25	+ 20		10+00S	+ 21	+ 21
		+ 28	+ 12			+ 10	+ 20

LINE	STATION	DIP ANGLE	RELATIVE FIELD STRENGTH	LINE	STATION	DIP ANGLE	RELATIVE FIELD STRENG
56+00W	20+25S	+ 6	- 4	58+00W	20+25S	- 1	+ 4
	20+00S	+ 9	0		20+00S	- 18	+ 11
		+ 18	+ 7			- 15	+ 12
		+ 37	0			+ 24	+ 12
		+ 38	0			+ 25	- 3
	19+00S	+ 18	0		19+00S	+ 20	+ 6
		+ 2	- 1			+ 23	+ 7
		+ 3	+ 2			- 10	+ 14
		+ 10	0			+ 9	+ 3
	18+00S	+ 5	+ 10		18+00S	- 8	+ 3
		+ 19	+ 5			+ 28	+ 1
		+ 17	+ 5			+ 12	0
		+ 3	+ 2			+ 5	+ 12
	17+00S	+ 12	- 2		17+00S	+ 21	- 3
		+ 18	0			+ 18	+ 1
		+ 10	+ 3			+ 10	- 3
		+ 20	0			- 4	- 8
	16+00S	+ 10	+ 2		16+00S	+ 24	- 8
		+ 22	0			+ 36	+ 2
		+ 14	+ 3			+ 28	+ 8
		+ 22	+ 3			+ 18	+ 8
		+ 18	+ 2		15+00S	+ 25	+ 7
		+ 9	+ 8			+ 30	+ 2
		+ 28	+ 3			+ 18	- 2
		+ 22	- 3			+ 17	+ 1
	14+00S	+ 15	+ 6		14+00S	+ 27	+ 1
		+ 30	+ 7			- 6	- 10
		+ 5	+ 9			+ 15	+ 5
		- 15	+ 7			+ 17	+ 5
	13+00S	- 6	+ 15		13+00S	+ 18	+ 3
		+ 5	+ 12			+ 23	+ 4
		+ 16	+ 14			+ 8	+ 9
		+ 13	+ 12			+ 6	+ 10
	12+00S	+ 18	+ 3		12+00S	- 4	+ 13
		+ 17	- 5			+ 13	+ 6
		+ 27	0			+ 36	- 8
		+ 37	- 7			+ 38	+ 2
	11+00S	+ 22	+ 1		11+00S	+ 24	+ 2
		+ 12	+ 6			+ 14	+ 2
		+ 8	+ 15			- 2	+ 6
		- 22	+ 12			- 4	+ 15
	10+00S	- 7	+ 27		10+00S	+ 4	+ 20
		+ 3	+ 32			+ 24	+ 33

LINE	STATION	DIP ANGLE	RELATIVE FIELD STRENGTH
60+00W	19+00S	+ 6	+ 2
		+ 8	+ 15
		- 22	+ 18
		+ 25	+ 22
	18+00S	+ 40	+ 4
		+ 21	- 2
		+ 18	+ 3
		+ 12	+ 3
	17+00S	+ 10	0
		+ 28	+ 4
		+ 18	0
		+ 18	- 2
	16+00S	+ 35	- 2
		+ 20	+ 7
		- 10	+ 2
		+ 12	- 6
	15+00S	+ 44	+ 4
		+ 24	+ 2
		+ 13	- 1
		+ 25	- 1
	14+00S	+ 4	+ 6
		+ 12	+ 7
		+ 24	+ 5
		+ 24	- 4
	13+00S	+ 10	+ 4
		+ 25	+ 2
		+ 7	+ 4
		+ 5	+ 15
	12+00S	+ 10	+ 8
		+ 5	+ 15
		+ 10	+ 2
		+ 32	- 8
	11+00S	+ 53	- 4
		+ 25	+ 2
		+ 17	+ 1
		+ 30	+ 22
	10+00S	+ 13	+ 23
		+ 3	+ 19
		+ 3	+ 8
62+00W	19+25S	+ 2	- 2
	19+00S	- 6	+ 6
		+ 48	- 3
		+ 46	- 2
		+ 32	- 3
	18+00S	+ 14	- 2
		+ 12	+ 6
		+ 14	+ 4
		+ 17	+ 4
	17+00S	+ 8	- 8
		- 3	- 2
		+ 19	+ 3
		+ 10	- 3
	16+00S	+ 21	+ 4
		+ 5	+ 4
		+ 20	+ 6
		+ 13	0
	15+00S	- 2	- 2
		+ 12	+ 11
		+ 31	+ 5
		+ 19	+ 2
	14+00S	+ 8	+ 15
		+ 17	- 2
		+ 15	+ 9
		+ 17	+ 7
	13+00S	+ 10	+ 4
		+ 4	+ 9
		0	+ 2
		+ 23	+ 14
		+ 30	- 2
		+ 48	+ 8
		+ 3	- 3
		+ 40	- 12
	11+00S	+ 26	0
		+ 16	0
		+ 38	+ 5
		+ 35	+ 2
	10+00S	+ 34	+ 9
		+ 28	+ 20

LINE	STATION	DIP ANGLE	RELATIVE FIELD STRENGTH
64+00W	17+75S	- 18	- 9
		+ 24	- 6
		+ 38	- 7
	17+00S	+ 31	- 13
		+ 27	0
		+ 23	+ 4
		+ 12	+ 8
	16+00S	+ 11	0
		+ 2	- 1
		- 5	+ 12
		+ [illegible]	+ 5
	15+00S	+ 10	+ 2
		+ 12	+ 7
		+ 10	+ 12
		+ 38	- 6
	14+00S	+ 14	0
		+ 9	- 2
		+ 32	+ 1
		+ 14	+ 4
	13+00S	+ 17	- 6
		+ 18	+ 4
		+ 4	+ 1
		+ 17	- 2
	12+00S	+ 38	+ 5
		+ 12	+ 5
		+ 24	- 5
		+ 41	- 3
	11+00S	+ 14	+ 11
		+ 18	+ 8
		+ 42	+ 3
		+ 36	0
	10+00S	+ 15	+ 2
		+ 42	+ 9

LINE	STATION	DIP ANGLE	RELATIVE FIELD STRENG
66+00W	17+50S	- 3	+ 5
		+ 22	- 1
	17+00S	+ 16	- 4
		+ 9	+ 6
		+ 26	+ 1
		- 12	0
	16+00S	+ 19	- 2
		+ 17	0
		+ 15	+ 3
		+ 12	+ 1
	15+00S	- 6	+ 6
		+ 2	+ 13
		+ 14	- 2
		+ 14	+ 7
	14+00S	+ 27	- 1
		+ 7	+ 5
		+ 29	+ 7
		+ 12	+ 4
	13+00S	+ 3	+ 12
		+ 7	+ 5
		+ 27	+ 3
		+ 13	+ 1
	12+00S	+ 37	+ 5
		+ 18	- 2
		+ 34	+ 8
		- 4	- 2
	11+00S	+ 36	+ 3
		+ 18	+ 3
		+ 37	+ 6
		+ 15	+ 5
	10+00S	+ 8	+ 2
		+ 22	+ 8

LINE	STATION	DIP ANGLE	RELATIVE FIELD STRENGTH
68+00W	16+50S	+ 4	+ 10
		- 4	+ 12
	16+00S	+ 14	+ 1
		+ 18	+ 16
		+ 17	+ 10
		+ 23	+ 17
	15+00S	+ 34	0
		+ 26	+ 7
		+ 13	- 4
		- 5	- 2
	14+00S	+ 15	0
		+ 9	- 6
		- 18	- 1
		+ 18	- 5
	13+00S	+ 8	+ 4
		+ 15	+ 4
		+ 5	- 8
		0	+ 1
	12+00S	+ 15	+ 4
		+ 10	+ 8
		+ 12	- 12
		+ 13	0
	11+00S	+ 10	- 3
		+ 22	- 2
		+ 20	+ 3
		+ 18	+ 1
	10+00S	+ 12	+ 6
		- 3	+ 7
		+ 22	+ 2
		- 35	+ 16
	9+00S	- 12	+ 22

LINE	STATION	DIP ANGLE	RELATIVE FIELD STRENG
70+00W	17+25S	0	- 17
	17+00S	+ 15	- 15
	16+75S	+ 5	- 1
	16+50S	- 5	- 2
	16+25S	+ 5	+ 1
	16+00S	+ 15	- 4
	15+75S	+ 20	- 2
	15+50S	- 5	+ 5
	15+25S	+ 10	+ 14
	15+00S	0	+ 5
	14+75S	+ 20	+ 2
	14+50S	+ 25	+ 3
	14+25S	+ 20	- 2
	14+00S	- 14	+ 5
	13+75S	- 22	+ 20
	13+50S	+ 17	+ 22
	13+25S	+ 14	+ 5
	13+00S	+ 8	+ 3
	12+75S	+ 26	0
	12+50S	+ 10	+ 1
	12+25S	+ 11	+ 6
	12+00S	+ 39	- 2
	11+75S	+ 34	- 1
	11+50S	+ 6	- 2
	11+25S	+ 14	+ 5
	11+00S	- 26	+ 2
	10+75S	+ 16	- 1
	10+50S	+ 13	+ 3
	10+25S	+ 18	+ 7
	10+00S	+ 21	+ 14
	9+75S	+ 12	+ 8
	9+50S	+ 22	+ 3
	9+25S	+ 8	+ 8
	9+00S	+ 9	+ 23

LINE	STATION	DIP ANGLE	RELATIVE FIELD STRENGTH
72+00W	17+25S	+ 30	- 9
	17+00S	+ 25	- 9
	16+75S	+ 20	+ 1
	16+50S	+ 1	- 1
	16+25S	- 10	- 1
	16+00S	- 14	+ 1
	15+75S	+ 15	+ 2
	15+50S	+ 10	+ 2
	15+25S	- 15	+ 5
	15+00S	+ 10	- 1
	14+75S	0	+ 2
	14+50S	- 3	- 2
	14+25S	- 20	0
	14+00S	+ 15	+ 3
	13+75S	+ 20	- 7
	13+50S	+ 2	- 11
	13+25S	+ 5	- 2
	13+00S	- 25	0
	12+75S	+ 10	- 1
	12+50S	- 15	+ 2
	12+25S	+ 6	+ 5
	12+00S	- 2	+ 12
	11+75S	+ 5	+ 5
	11+50S	+ 19	+ 6
	11+25S	+ 9	+ 3
	11+00S	+ 16	+ 15
	10+75S	+ 8	+ 12
	10+50S	+ 17	+ 5
	10+25S	+ 11	+ 15
	10+00S	+ 34	+ 2
	9+75S	+ 7	+ 8
	9+50S	- 4	+ 2
	9+25S	+ 4	+ 3
	9+00S	+ 9	+ 5

LINE	STATION	DIP ANGLE	RELATIVE FIELD STRENGTH
74+00W	17+25S	0	+ 8
	17+00S	+ 4	- 6
	16+75S	+ 10	- 1
	16+50S	- 20	- 2
	16+25S	- 10	+ 6
	16+00S	- 6	+ 5
	15+75S	- 5	+ 9
	15+50S	- 20	- 2
	15+25S	+ 7	- 14
	15+00S	- 7	+ 15
	14+75S	+ 5	- 8
	14+50S	+ 20	+ 12
	14+25S	+ 5	0
	14+00S	- 40	+ 3
	13+75S	- 5	+ 6
	13+50S	- 30	+ 10
	13+25S	+ 12	+ 3
	13+00S	- 6	+ 16
	12+75S	+ 24	+ 2
	12+50S	+ 15	+ 4
	12+25S	+ 15	0
	12+00S	+ 5	+ 3
	11+75S	+ 4	0
	11+50S	- 5	+ 12
	11+25S	- 18	+ 4
	11+00S	+ 12	+ 5
	10+75S	+ 10	+ 2
	10+50S	+ 10	+ 5
	10+25S	+ 4	+ 4
	10+00S	- 6	+ 6
	9+75S	+ 25	+ 2
	9+50S	+ 6	+ 2
	9+25S	+ 12	+ 5
	9+00S	0	+ 4
	8+75S	0	+ 5

LINE	STATION	DIP ANGLE
76+00W	17+25S	- 10
	17+00S	+ 38
	16+75S	- 5
	16+50S	- 5
	16+25S	0
	16+00S	- 10
	15+75S	+ 3
	15+50S	- 10
	15+25S	- 15
	15+00S	- 20
	14+75S	- 10
	14+50S	0
	14+25S	- 30
	14+00S	- 2
	13+75S	- 15
	13+50S	- 2
	13+25S	- 4
	13+00S	0
	12+75S	- 23
	12+50S	+ 16
	12+25S	+ 8
	12+00S	+ 5
	11+75S	+ 4
	11+50S	+ 18
	11+25S	- 20
	11+00S	+ 3
	10+75S	- 25
	10+50S	+ 4
	10+25S	+ 12
	10+00S	- 20
	9+75S	+ 2
	9+50S	0
	9+25S	+ 4
	9+00S	- 15
	8+75S	- 5

LINE	STATION	DIP ANGLE
78+00W	17+25S	+ 2
	17+00S	- 20
	16+75S	- 24
	16+50S	- 35
	16+25S	- 32
	16+00S	- 18
	15+75S	- 20
	15+50S	- 22
	15+25S	- 10
	15+00S	- 20
	14+75S	- 18
	14+50S	- 35
	14+25S	- 25
	14+00S	- 15
	13+75S	+ 3
	13+50S	- 5
	13+25S	- 44
	13+00S	- 7
	12+75S	+ 28
	12+50S	- 6
	12+25S	+ 23
	12+00S	- 1
	11+75S	- 27
	11+50S	- 20
	11+25S	- 15
	11+00S	- 25
	10+75S	- 19
	10+50S	Lake
	10+25S	Lake
	10+00S	+ 28
	9+75S	+ 2
	9+50S	+ 18
	9+25S	+ 25
	9+00S	+ 10
	8+75S	+ 4

VLF-EM SURVEY Appendix 3 - INTERPTETATION

INTRODUCTION

Twenty-seven and a half kilometers of electromagnetic survey was done on lines spaced 200 m apart between L38+00W and L78+00W on the Bullion Creek lead-zinc-silver prospect. The field observations were recorded using an EM-16 VLF-EM instrument. These observations consisted of the measurements of the relative field strength and the dip angle of the induced electromagnetic field (Table 1).

ANALYSIS AND INTERPRETATION OF VLF-EM DATA

The field data was used in computing the relative vertical field strength and the gradient of the relative horizontal field.

The Hilbert transform and the envelope function of the analytical signals were computed for the vertical field and the horizontal gradient. The purpose of the envelope function is to aid in locating the vertical projection to inductive sources. In this respect the relative vertical field is useful in locating the inductive response due to dyke type structures, irregularly shaped bodies and bedded structures.

Typically EM-16 survey data exhibit detailed variation which may complicate interpretational tasks. Also, EM-16 survey data can exhibit significant anomalous effects due to topographic variations. In order to suppress such potential interferences a computational procedure was applied which simulates the airborne recording of the survey data. The principal simulation was at a distance of 150 m above topography. These results were subtracted from the field data and a second simulation computed at a distance of 50 m above topography.

The results of the above computations are shown in Figures 1 and 2 of Appendix B.

The interpretational results indicate a strong correlation between the geochemical results for lead in the soil samples and the VLF-EM data.

Respectfully submitted

F.J.R. Syberg, B.Sc.

F.J.R. Syberg

CERTIFICATE OF QUALIFICATIONS

I, F.J.R. Syberg, B.Sc., Geophysicist, of 22313 124th Ave., Maple Ridge, British Columbia, certify as follows:

1) That I graduated from the University of British Columbia in 1967 with a Bachelor of Science degree in Geophysics.

2) That I have pursued mining and petroleum exploration and evaluation continuously since graduation in 1967.

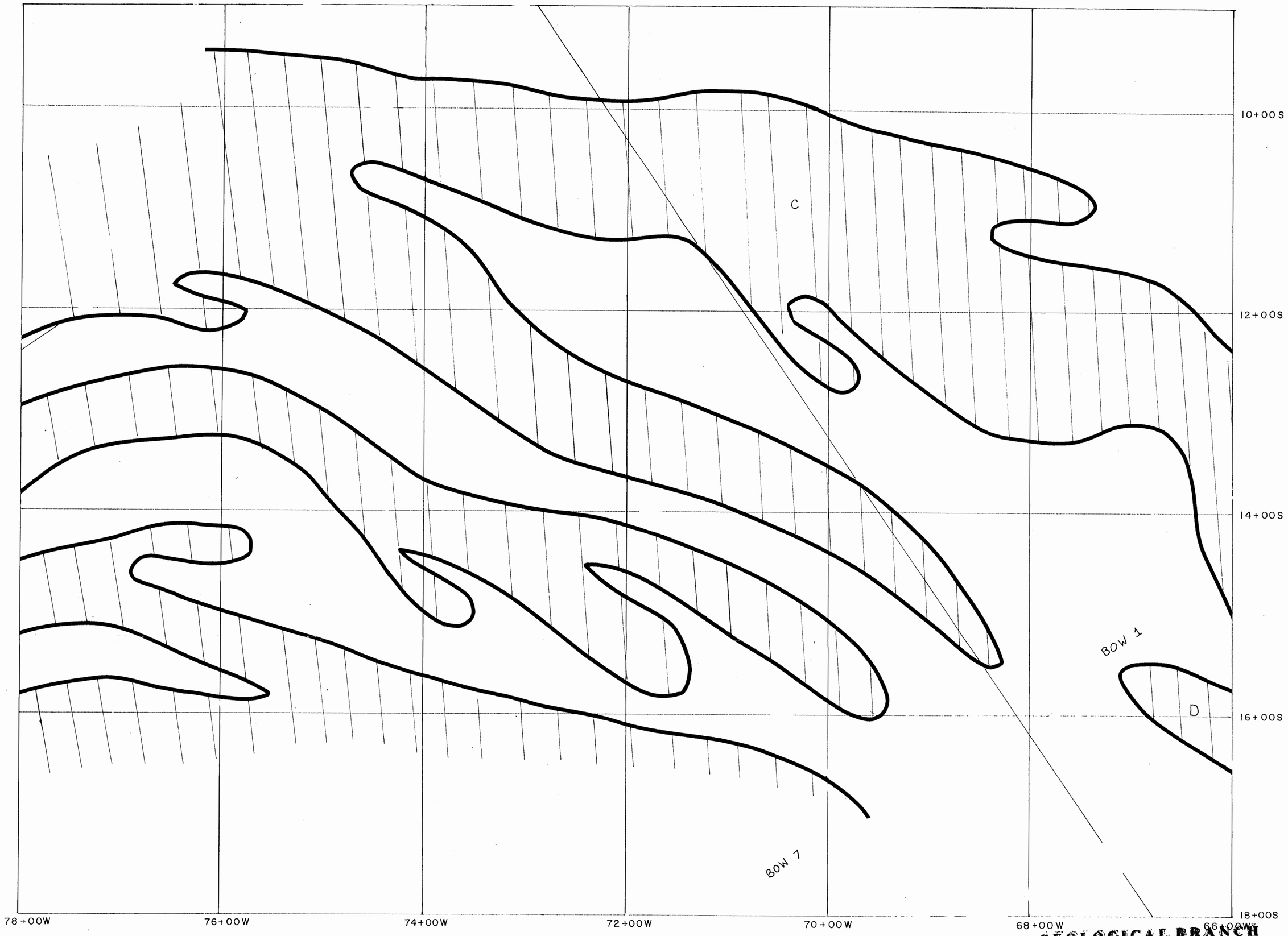
3) That I am a member of the Society of Exploration Geophysicists.

4) That I am an associate of Candell Consulting Ltd.

5) That I have no direct or indirect interests in the property described by this report, nor do I expect to receive any such interests.

Dated at Vancouver, British Columbia, this the 20th day of December, 1982.

F.J.R. Syberg, B.Sc.
Geophysicist.



CONDUCTIVE UNIT

ELDORADO MINERALS & PETROLEUM CORP.

BOW & DINAH MINERAL CLAIMS

N.T.S. 104 - I - 7E
BRITISH COLUMBIA

INTERPRETATION VLF

0 100 200
METRES

CANDELL CONSULTING LTD.

DRAWN	PROJECT	DATE	
FS	BULLION CREEK	OCT., 1982	F.J.R. Sibbick B.Sc.

Appendix 3

DINAH 14
DINAH 16
DINAH 13
DINAH 11
DINAH 4
DINAH 1
DINAH 3
DINAH 15
BOW 1
BOW 4
BOW 3
A
B
C
D
?

10+00S
12+00S
14+00S
16+00S
18+00S
20+00S

66+00W 64+00W 62+00W 60+00W 58+00W 56+00W 54+00W 52+00W 50+00W 48+00W 46+00W 44+00W 42+00W 40+00W 38+00W

38+00W 36+00W 34+00W 32+00W 30+00W 28+00W 26+00W 24+00W 22+00W 20+00W 18+00W 16+00W 14+00W 10+00W

LEGEND

CONDUCTIVE UNIT WITH RELATIVE DIP

FAULT ASSUMED FROM PHOTOMOSAIC

ELDORADO MINERALS & PETROLEUM CORP.

BOW & DINAH MINERAL CLAIMS

N.T.S. 104-I-7E
BRITISH COLUMBIA

INTERPRETATION VLF-EM

0 100 200
METRES

PAMICON DEVELOPMENTS LTD.

DRAWN	PROJECT	DATE	
FS	BULLION CREEK	SEP. 1982	P.R. Sybenga

Appendix 3

DRILL HOLE LOG

LOCATION: 41+05W 13+05S		HOLE NO.: BULL 82-1	PAGE NO.: 1
AZIM: 118°	ELEV: 1628.5 m	PROPERTY: Bullion Creek	
DIP: -75°	LENGTH: 43.7 m		
	CORE SIZE: BQ	CLAIM NO:	
STARTED:		SECTION:	
COMPLETED:		LOGGED BY:	
PURPOSE:		DATE LOGGED: D. Kuran	
		DRILLING CO: Arctic	
CORE RECOVERY:		ASSAYED BY: Acme	

DIP TEST

METERS	READING	CORRECT	METERS	READING	CORRECT
43.6	-78°				

METERS FROM	METERS TO	DESCRIPTION	SAMPLE NO.	METERS FROM	METERS TO	LENGTH METERS	ASSAYS Pb	Zn	Ag
0	1.82	- casing							
1.82	16.3	- black siliceous laminated silty mudstone							
		- extensively pitted							
		- minor conform. siliceous sweats							
		- trace fine pyrite							
		- minor sericite along foliation							
		3 m S_o=30°							
		4 m S_o=45°							
		6 m S_o=5°							
		7.5 m S_o=15°	054915	9.4	11.4	2.0	330ppm	1000 ppm	1.0ppm
		15 m S_o=80°	054916	13.4	15.4	2.0	465 "	560 "	2.3"
		15.24 m shale beds in silty mudstone	054917	15.4	16.4	1.0	168 "	300 "	1.0 "
		16 m S_o=60°							
		17 m S_o=50°							
16.3	16.9	- dark grey limestone	054918	16.4	16.9	0.5	330 "	790 "	1.9 "
		- minor shale laminations	054919	16.9	17.4	0.5	745 "	2050 "	3.1 "
16.9	17.4	- slightly calcareous grey pitted mudstone	54920	17.4	18.2	0.89	825 "	2250 "	0.6 "
17.4	18.3	- light brown silty limestone	054921	18.2	19.2	1.0	.10%	.03%	.07 oz/ton
		- contains mudstone clasts	054922	19.2	20.2	1.0	.05 "	.01 "	.01 "
		18 m S_o=5°	054923	20.2	21.2	1.0	.01 "	.01 "	.01 "
			054924	21.2	22.0	1.0	.04 "	.01 "	.01 "
			054925	22.2	23.2	1.0	.01%	.01 "	.01 "
			054926	23.2	24.2	1.0	.01%	.01 "	.01 "

DRILL HOLE LOG

HOLE No.: | PAGE NO.: 2

LOCATION:

AZIM: | ELEV:

DIP: | LENGTH:

CORE SIZE:

STARTED:

COMPLETED:

PURPOSE:

CORE RECOVERY:

PROPERTY:

CLAIM NO:

SECTION:

LOGGED BY:

DATE LOGGED:

DRILLING CO:

ASSAYED BY:

DIP TEST

METERS	READING	CORRECT	METERS	READING	CORRECT

METERS FROM	METERS TO	DESCRIPTION	SAMPLE NO.	METERS FROM	METERS TO	LENGTH METERS	ASSAYS Pb	Zn	Ag
18.3	27.2	20 m S_o=65°	054927	24.2	25.2	1.0	1.99%	.01%	.75 oz/ton
		- target zone pervasive quartz	054928	25.2	26.2	1.0	.09 "	.01 "	.09 "
		silicification of medium grained,	054929	26.2	27.2	1.0	.01 ?	.02 "	.01 "
		bleached limestone, 60% quartz	054929	26.2	27.2	1.0	.01 "	.02 "	.01 "
		- silica content decreasing down unit	054930	27.2	29.2	2.0	.01 "	.04 "	.01 "
		- unit contains minor medium grained galena	054931	29.7	31.7	2.0	23 ppm	235ppm	.6 ppm
		and fine sphalerite	054932	36.8	38.2	1.4	15 "	66 "	.3 "
		- 12cm laminated-disseminated Pb=2%	054933	41.1	43.5	2.4	9 "	34 "	.3 "
		- 24.3-24.42 m disseminated Pb=Zn							
		24 m S_o=5°							
27.2	31.1	- brown clacareous mica schist							
		- foliation 40-60°							
		- rare 1cm brown clasts rolled in foliation							
		- basal contact shattered with quartz							
31.1	34.5	- greengrey to light brown turbidite							
		- 5-10% white siliceous lithic clasts in							
		a dark green-grey matrix							
		- unit matrix coarsens down hole and							
		becomes lighter in color and more schistose							
		- trace pyrite							
34.5	36.6	- rare quartz stringers							
		30 m S_o=30°							
		- light brown micaceous schist							

DRILL HOLE LOG

HOLE NO.:

LOCATION:

AZIM: ELEV:

DIP: LENGTH:

CORE SIZE:

STARTED:

COMPLETED:

PURPOSE:

CORE RECOVERY:

DIP TEST

METERS	READING	CORRECT	METERS	READING	CORRECT

PROPERTY:

CLAIM NO:

SECTION:

LOGGED BY:

DATE LOGGED:

DRILLING CO:

ASSAYED BY:

METERS FROM	METERS TO	DESCRIPTION	SAMPLE NO.	METERS FROM	METERS TO	LENGTH METERS	ASSAYS Pb	Zn		Ag		
36.6	43.7	- rare silty layers										
		- 1-2% 5-15mm lighic fragments of unit below 36 m S_o=36°										
		- light greenish-grey fine grained mixture of chloritic shale and gritty silt with rare white siliceous clasts										
		- pinch swelling of shaly beds										
		- silty grit contains 1-3% .5-1mm black mudstone chips										
		- trace pyrite										
43.7	EOH											

DRILL HOLE LOG

LOCATION: 40+37W 11+95S

HOLE NO.: BULL 82-2 | PAGE NO.: 1

AZIM:

ELEV: 1648 m

DIP: -90.0°

LENGTH: 34.2 m

CORE SIZE: BQ

STARTED:

COMPLETED:

PURPOSE:

CORE RECOVERY:

PROPERTY: Bullion Creek

CLAIM NO:

SECTION:

LOGGED BY: D. Kuran

DATE LOGGED:

DRILLING CO: Arctic

ASSAYED BY: Acme

DIP TEST

METERS	READING	CORRECT	METERS	READING	CORRECT
58.8	-85.5°				

METERS FROM	METERS TO	DESCRIPTION	SAMPLE NO.	METERS FROM	METERS TO	LENGTH METERS	ASSAYS Pb(ppm)	Zn(ppm)	Ag(ppm)
0	1.2	- casing	054934	.7	1.7	1.0	44	12	.5
1.2	3.2	- massive grey limestone	054935	1.7	3.7	2.0	15	11	.2
		- 1.5 minor disseminated pyrite trace hydrom							
		2.5 m S_1=45°							
3.2	6.0	- buff brown quartz muscovite schist	054936	3.7	-5.2	1.5	16	12	.2
		5.0-5.2m quartz band							
		5.9-6.0m quartz band							
6.0	7.7	- brown to grey-green silty limestone	054937	5.2	6.0	0.8	156	14	.6
		7 m S_1=45°							
7.7	7.9	- quartz muscovite schist	054938	6.0	7.7	1.7	20	26	.3
7.9	9.4	- black limestone, badly fractured, calcium	054939	8.1	9.4	1.3	17	17	.2
		filling							
9.4	10.5	- buff brown limestone badly fractured	054940	9.4	10.5	1.1	20	11	.3
		10.5 m S_1=70°							
10.5	13.9	- brown calcareous quartz muscovite schist ± chlorite							
13.9	18.9	- pale green quartz muscovite chlorite schist							
18.9	20.05	- light brown to rusty limestone							
		19 m S_o=65°							
20.05	40.7	- pale green quartz muscovite chlorite schist	054941	40.5	41.5	1.0	32	12	.4
		28 m S_o=40°							
40.7	42.0	- transition between schist and black shale	054942	41.5	42.5	1.0	74	28	.8
		41.3 m trace Pb in quartz stringer	054943	42.5	44.5	2.0	12	52	.4

DRILL HOLE LOG

LOCATION:

AZIM: ELEV:

DIP: LENGTH:

CORE SIZE:

STARTED:

COMPLETED:

PURPOSE:

CORE RECOVERY:

HOLE NO.

PROPERTY:

CLAIM NO:

SECTION:

LOGGED BY:

DATE LOGGED:

DRILLING CO:

ASSAYED BY:

DIP TEST

METERS	READING	CORRECT	METERS	READING	CORRECT

METERS FROM	METERS TO	DESCRIPTION	SAMPLE NO.	METERS FROM	METERS TO	LENGTH METERS	ASSAYS Pb (ppm)	Zn (ppm)	Ag (ppm)
42.0	52.6	- laminated black graphitic shale	054944	44.5	46.5	2.0	10	54	.3
		44.7 m fine pyrite in siliceous laminations							
		46.1 m fine pyrite in siliceous laminations							
		46.4 " "							
		49.8 fracture filled by quartz trace Pb	054959	49.7	50.0	0.3	17	92	.2
52.6	60.0	- black graphitic shale with 3% 1-2mm gritty	054945	55.5	56.0	0.5	6	150	.5
		fragments locally weathering out resulting	054946	56.0	58.0	2.0	5	132	.1
		slightly porous texture							
		- well laminated, rock contains 2% laminated	054947	58.0	60.0	2.0	6	128	.7
		pyrite, pyrite oxide							
		55.8 m quartz fracture, pyrite, calcopyrite,	054948	60.0	62.0	2.0	8	76	1.2
		sphalerite							
60.0	78.5	- same black laminated graphitic shale							
		- pyrite, pyrite oxide increase to 10%	054949	62.0	64.0	2.0	32	54	1.7
		70.7 m trace Zn, Pb in quartz sweat							
		77.8-78.5 siliceous zone	054950	64.0	66.0	2.0	22	560	.8
			054951	66.0	68.0	2.0	28	625	.7
78.5	83.7	- black laminated graphitic shale, slightly	054952	68.0	70.0	2.0	30	510	.8
		higher energy 2-3% 1-2mm particles weathering	054953	70.0	72.0	2.0	54	385	.8
		out	054954	72.0	74.0	2.0	18	122	.6
		- still 10% laminated pyrite, pyrite oxide	054955	74.0	75.0	1.0	7	86	.5
			054956	77.6	78.6	1.0	27	32	.7
83.7	89.0	- pale green tuffaceous turbidite 5% white	054957	85.0	86.0	1.0	10	78	.6
		siliceous clast in fine matrix							
		85 m S_o=45°							

DRILL HOLE LOG

HOLE NO.

PAGE NO. 3

AZIM:
DIP:
ELEV:
LENGTH:
CORE SIZE:
STARTED:
COMPLETED:
PURPOSE:
CORE RECOVERY:

DIP TEST

METERS	READING	CORRECT	METERS	READING	CORRECT

PROPERTY:
CLAIM NO:
SECTION:
LOGGED BY:
DATE LOGGED:
DRILLING CO:
ASSAYED BY:

METERS FROM	METERS TO	DESCRIPTION	SAMPLE NO.	METERS FROM	METERS TO	LENGTH METERS	ASSAYS Pb(ppm)	Zn(ppm)	Ag(ppm)
89.0	94.2	- pale green turbidite	054958	89.0	90.0	1.0	10	76	.4
		- pale white fragments							
		93 m S_o=45°							
		91.5 quartz vein							
94.2	EOH								

DRILL HOLE LOG

LOCATION: 41+50W 13+05S

HOLE NO.: BULL 82-3 | PAGE NO.: 1

AZIM: 118° | ELEV: 1630.5 m

DIP: -75° | LENGTH: 66.4 m

CORE SIZE: BQ

STARTED:

COMPLETED:

PURPOSE:

CORE RECOVERY:

DIP TEST

METERS	READING	CORRECT	METERS	READING	CORRECT
66	-79°				

PROPERTY: Bullion Creek

CLAIM NO:

SECTION:

LOGGED BY: D. Kuran

DATE LOGGED:

DRILLING CO: Arctic

ASSAYED BY: Acme

METERS FROM	METERS TO	DESCRIPTION	SAMPLE NO.	METERS FROM	METERS TO	ASSAYS LENGTH METERS	Pb (ppm)	Ag (ppm)	Zn (ppm)
0	1.8	- casing							
1.8	2.2	- fine grained micaceous quartzite, well sorted							
		2 m S_o=75°							
2.2	25.3	- black siliceous, well laminated, extensively pitted silty mudstone							
		- weathering out of coarser silt and carbonate laminations responsible for pits							
		- silt content and degree of pitting decreases down unit							
		- fracture surfaces rusty							
		14.32 m .5m section softer, shaly							
		Bed 80°, Foliation 15°							
		18.2-18.7 m pervasive silicification, L 10% pits	054960	18.1	19.1	1.0	3300	80	3.6
		23.0 m 5cm quartz stringer							
		3.5 m S_o=45°							
		5 m S_o=55°							
		10 m S_o=45°							
		12 m S_o=85°							
		14 m S_o=80°							
		18 m S_o=55°							
		23 m S_o=20°							
		25 m S_o=5°							

DRILL HOLE LOG

LOCATION:		HOLE No. BULL 82-3	PAGE NO. 2
AZIM:	ELEV:	PROPERTY:	
DIP:	LENGTH:		
	CORE SIZE:	CLAIM NO:	
STARTED:		SECTION:	
COMPLETED:		LOGGED BY:	
PURPOSE:		DATE LOGGED:	
		DRILLING CO:	
CORE RECOVERY:		ASSAYED BY:	

DIP TEST

METERS	READING	CORRECT	METERS	READING	CORRECT

METERS FROM	METERS TO	DESCRIPTION	SAMPLE NO.	METERS FROM	METERS TO	LENGTH METERS	ASSAYS Pb(ppm)	Zn(ppm)	Ag(ppm)
25.3	34.6	- dark grey to black silicerous mudstone	054961	29.8	30.8	1.0	330	225	1.0
		- .5-1.5mm white siliceous laminations							
		- unit contains numerous siliceous zones and small quartz stringers							
		29.5 m ground core							
		26.5 m S_o=15°							
		30 m S_o=45°							
		34 m S_o=5°	054962	34.0	36.0	2.0	5400	265	12.4
34.6	37.5	- pervasive silicification of carbonate and mudstone unit (main zone target)	054963	36.0	38.0	2.0	2100	250	2.4
		relic bedding maintained by							
		maintained by muscovite partings							
		- trace Pb at 36.2 m	054964	38.0	40.0	2.0	750	1350	2.8
37.5	43.5	- bad ground, ground core, caving	054965	40.0	42.0	2.0	460	1830	1.7
		- 20% recov.							
		- black porous siliceous silty mudstone							
		- hydrozincite in fine laminations	054966	42.0	44.0	2.0	320	965	1.2
43.5	52.4	- dark grey limestone turbidite/debris slump	054967	44.0	46.0	2.0	56	400	.8
		land 2 hole crinoid fossil hash							
		- appears to be matrix between large fragments							
		- Zn in rusty hash zones	054968	46.0	48.0	2.0	40	1580	.6
		45.1 m .5cm Zn rich crinoid fossil hash							
		45.6-45.8 m yellow crinoid fossil hash							
		46.17 m trace hyd.	054969	48.0	50.0	2.0	34	825	.6

DRILL HOLE LOG

LOCATION:		HOLE NO. BULL 82-3	PAGE NO. 3
AZIM:	ELEV:	PROPERTY:	
DIP:	LENGTH:		
	CORE SIZE:	CLAIM NO:	
STARTED:		SECTION:	
COMPLETED:		LOGGED BY:	
PURPOSE:		DATE LOGGED:	
		DRILLING CO:	
CORE RECOVERY:		ASSAYED BY:	

DIP TEST

METERS	READING	CORRECT	METERS	READING	CORRECT

METERS FROM	METERS TO	DESCRIPTION	SAMPLE NO.	METERS FROM	METERS TO	LENGTH METERS	ASSAYS Pb(ppm)	Zn(ppm)	Ag(ppm)
		48.0 m 5cm spongy rock, hyd.							
		49.0-50.0 m vuggy quartz vein	054970	50.0	52.0	2.0	56	385	.7
		51.2-51.3 m quartz breccia vein							
52.4	55.1	- rusty brown to buff schist	054971	52.0	52.5	0.5	32	455	.4
		- 3-5% fine whispy pyrite schistosity less developed at base where rock is a brown silt size epiclastic, gradational contact							
		53.5 m S_o=70°							
55.1	57.0	- grey-black shale, silty shale							
		- contains rare 1-2mm lithic clasts increasing in % and size down core	054972	54.6	55.6	1.0	10	835	.7
		- composed of underlying unit							
		55 m S_o=75°							
57.0	64.4	- shale grades down to a contorted buff colored turbiditic rock with lenses of silt size material (clasts) in a argillaceous and intermediate tuffaceous (epiclastic) matrix	054973	58.5	59.5	1.0	17	1200	.4
		- unit is matrix supported and graded downward to a coarser, higher energy rock with 5-20% .5-3cm felsic clasts in a dark matrix	054974	61.0	62.0	1.0	6	40	.3
		62.5 m S_o=45°							
64.4	EOH								

DRILL HOLE LOG

HOLE NO.	PAGE NO.
BULL 82-4	1

LOCATION: 40+30W 13+75S

AZIM: 028° ELEV: 1546.8 m

DIP: - 60° LENGTH: 100.0 m

CORE SIZE: BQ

STARTED:

COMPLETED:

PURPOSE:

CORE RECOVERY:

PROPERTY: Bullion Creek

CLAIM NO:

SECTION:

LOGGED BY: V. Kuran

DATE LOGGED:

DRILLING CO: Arctic

ASSAYED BY: Acme

DIP TEST

METERS	READING	CORRECT	METERS	READING	CORRECT
100.0	-56°				

METERS FROM	METERS TO	DESCRIPTION	SAMPLE NO.	METERS FROM	METERS TO	ASSAYS LENGTH METERS	Pb(ppm)	Zn(ppm)	Ag(ppm)
0	1.0	- casing							
1.0	5.2	- black porous mudstone 3.5 m quartz vein with rusty specks AB+ reaction							
5.2	9.1	- light grey siliceous laminated dense mudstone - 1mm laminations of silica, minor pyrite, white clasts elongated 6 m minor disseminated pyrite less than 1% 6 m S_o=80°							
9.1	9.3	- darker grey, laminations are wider 8 m S_o=58°							
9.3	17.7	- black mudstone with minor siliceous laminations 10 m S_o=45° 9.4 m S_o=65°/120° quartz veins, pyrite boxwork S_1=0°/120° 12.5 m S_o=20° 13.8-14.7 m quartz vein	054977	11.7	13.7	2.0	20	254	.4
		14.7 m quartz laminations up to 1cm wide, pyrite	054976	14.7	16.7	2.0	20	160	.4

DRILL HOLE LOG

HOLE NO. | PAGE NO. 2

LOCATION:

AZIM: | ELEV:

DIP: | LENGTH:

CORE SIZE:

STARTED:

COMPLETED:

PURPOSE:

CORE RECOVERY:

DIP TEST

METERS	READING	CORRECT	METERS	READING	CORRECT

PROPERTY:

CLAIM NO:

SECTION:

LOGGED BY:

DATE LOGGED:

DRILLING CO:

ASSAYED BY:

METERS FROM	METERS TO	DESCRIPTION	SAMPLE NO.	METERS FROM	METERS TO	LENGTH METERS	ASSAYS Pb(ppm)	Zn(ppm)	Ag(ppm)
		15.2 S_o=50°/120° disseminated and blebby							
		16.2 S_1=10°/120° quartz laminations up to 3cm wide							
17.7	21.3	- light grey, limy mudstone, 1mm laminations of calcite							
		18 m fine laminations and blebs of pyrite less than 1% disseminated pyrite cubes							
		19.7 m S_o=45°/120° S_1=5°/120°							
		21 m pyrite anherral less than 1%							
21.3	25.0	- black laminated limy mudstone 1-2mm laminations							
		- calcite laminations							
		25 m - pyrite decreases	054978	25.0	27.0	2.0	17	390	.4
		25.6 m S_o=45°/120° S_1=25°/120°							
25.0	31.0	- black laminated mudstone 1mm quartz laminations							
		1-3cm quartz breccia sweat	054979	27.0	29.0	2.0	12	430	.3
		26-30 m pyrite along quartz laminations							
		disseminated fine pyrite less than 1%							
		S_o=?/1 S_1=70°/120°	054980	29.0	31.0	2.0	13	710	.3
		27.5 m S_o=25°							

DRILL HOLE LOG

LOCATION:

HOLE NO.:

PAGE NO.: 3

AZIM: ELEV:

DIP: LENGTH:

CORE SIZE:

STARTED:

COMPLETED:

PURPOSE:

CORE RECOVERY:

PROPERTY:

CLAIM NO:

SECTION:

LOGGED BY:

DATE LOGGED:

DRILLING CO:

ASSAYED BY:

DIP TEST

METERS	READING	CORRECT	METERS	READING	CORRECT

METERS FROM	METERS TO	DESCRIPTION	SAMPLE NO.	METERS FROM	METERS TO	LENGTH METERS	ASSAYS Pb(ppm)	Zn(ppm)	Ag(ppm)
31.0	39.0	- light grey limy mudstone with calcite laminations up to 2mm wide	054981	31.0	33.0	2.0	19	140	.2
		23.5 m - S_o=25°							
		35.8-35.9 m laminations containing	054982	33.0	35.0	2.0	28	42	.3
		brecciated fragments							
		35 m S_o=45°					Pb%	Zn%	Ag oz/ton
		35 m - sphalerite - disseminated in	054983	35.0	36.0	1.0	.01%	.03%	.01
		laminations							
		36 m - 1.8 m of 2% combined Pb-Zn							
		laminated to disseminated fine to	054984	36.0	37.0	1.0	.33	.04	.12
		medium grained galena and sphalerite	054985	37.0	38.0	1.0	.84	.01	.24
		36 m - S_o=35°	054986	38.0	39.0	1.0	.01	.01	.01
39.0	44.5	- light green laminated, limy chlorite schist							
		39 m S_o=45°							
		39 m no pyrite							
		40 m S_o=50°	054987	47.0	48.0	1.0	.01	.01	.01
		43.5 m S_o=35°							
44.5	48.0	- pale green to grey limy tuff, finely laminated							
		47.5 m S_o=50°							
48.0	82.8	- black thinly laminated mudstone							
		- calcite and quartz laminations							
		48 m laminated pyyrhotite 10%							
		- trace disseminated pyrite, smeared along							

DRILL HOLE LOG

HOLE NO.: | PAGE NO.: 4

LOCATION:

AZIM: | ELEV:

DIP: | LENGTH:

CORE SIZE:

STARTED:

COMPLETED:

PURPOSE:

CORE RECOVERY:

DIP TEST

METERS	READING	CORRECT	METERS	READING	CORRECT

PROPERTY:

CLAIM NO:

SECTION:

LOGGED BY:

DATE LOGGED:

DRILLING CO:

ASSAYED BY:

METERS FROM	METERS TO	DESCRIPTION	SAMPLE NO.	METERS FROM	METERS TO	LENGTH METERS	ASSAYS Pb(ppm)	Zn(ppm)	Ag(ppm)
		bedding planes							
		49.5 m S_o=50°							
		51 m - pyrite and pyyrhotite over 10cm							
		10%							
		- disseminated along bedding							
		52.5-53 m laminated pyyrhotite							
		53 m - pyyrhotite drops off							
		53 m - S_o=30°							
		- 55 m - pyyhrotite and chalcopyrite	054998	56.0	58.0	2.0	45	330	.8
		vein trace							
		57 m - pyyhrotite and trace galena in							
		1cm quartz laminations							
		58 m - 5% pyyrhotite and pyrite in							
		siliceous sweats							
		58.5 m - disseminated pyyhrotite in							
		laminations							
		58 m S_o=40°							
		59.5 m fold axis 30° to core, contorted	054989	60.0	62.0	2.0	11	240	.7
		beds							
		64 m S_o=30°	054990	66.0	68.0	2.0	9	270	.4
		67.5 - 71.7 m disseminated pyrite							
		along laminations							
		69 m S_o=40°							
		70 m S_o fold to axis 15° to core	054991	71.0	73.0	2.0	45	530	.6
		73 m -10cm 10% pyrite oxide							
		70 m S_o=90°							
		75 m S_o=40°							

DRILL HOLE LOG

LOCATION:

AZIM: ELEV:

DIP: LENGTH:

CORE SIZE:

STARTED:

COMPLETED:

PURPOSE:

CORE RECOVERY:

HOLE NO.

PAGE NO. 5

PROPERTY:

CLAIM NO:

SECTION:

LOGGED BY:

DATE LOGGED:

DRILLING CO:

ASSAYED BY:

DIP TEST

METEPS	READING	CORRECT	METERS	READING	CORRECT

METERS FROM	METERS TO	DESCRIPTION	SAMPLE NO.	METERS FROM	METERS TO	LENGTH METERS	ASSAYS Pb(ppm)	Zn(ppm)	Ag(ppm)
		75.5 m S_o=80°							
		78.0 m S_o=35°	054992	77.0	49.0	2.0	13	98	.5
		80.5 m S_o=5°							
		81.2-81.3 m quartz vein							
		81.5-81.7 m quartz vein							
82.8	100	- pale green, dense, silty mudstone thickly quartz laminated							
		83 m - trace pyrite in quartz vein	054993	83.7	84.7	1.0	11	32	.2
		83 m S_o=55°							
		83.7-84.6 m quartz vein							
		86 m - S_o=20°							
		86 m - fine to blebby pyrite oxide along beds							
		90 m S_o=38°							
		92.2-92.3 m quartz vein							
		97 m S_o=45°							
		- quartz sweat							
		99 m S_o=45°							

DRILL HOLE LOG

LOCATION: 61+90W 15+35S

HOLE No. BULL 82-5 | PAGE NO. 1

AZIM: 032° ELEV: 1463.0 m

DIP: -51.5 LENGTH: 152.7 m

CORE SIZE: BQ

STARTED:

COMPLETED:

PURPOSE:

CORE RECOVERY:

DIP TEST

METERS	READING	CORRECT	METERS	READING	CORRECT
109.1	47.0°				

PROPERTY: Bullion Creek

CLAIM NO:

SECTION:

LOGGED BY: D. Kuran

DATE LOGGED:

DRILLING CO: Arctic

ASSAYED BY: Acme

METERS FROM	METERS TO	DESCRIPTION	SAMPLE NO.	METERS FROM	METERS TO	LENGTH METERS	ASSAYS Pb%	Zn%	Ag oz/ton
0	1.2	- casing							
1.2	8.5	- black siliceous, porous, silty mudstone with weathering out pits							
		- rare 1-2mm white calcareous laminations 3m S_o=45°							
8.5	17.6	- dark grey to black well laminated siliceous mudstone							
		- .5-2mm white calcareous laminations							
		- trace pyrite							
		- 5 cm rip up bed							
		- 1mm calcareous laminations 50/50 with shale laminations							
		9.5 m S_o=50°							
		10.5 m S_o=55°							
		15.0 m S_o=45°							
		17.0 m S_o=80°							
17.6	20.4	- light grey, finely laminated variably calcareous mudstone							
		- 1-2mm white calcareous laminations slightly coarser grained	68376	20.3	21.3	1.0	.06	.07	.04
		20 m S_o=45°	68377	21.3	22.3	1.0	.11	.88	.03
			68378	22.3	23.3	1.0	.14	.49	.03
20.4	21.1	- black carbonaceous mudstone	68379	23.3	24.7	1.4	.01	.02	.01
		- rare 1-2mm white quartz and carbonate laminations	68380	24.7	25.7	1.0	1.21	.16	.80

DRILL HOLE LOG

LOCATION:		HOLE NO:	PAGE NO: 2
AZIM:	ELEV:	PROPERTY:	
DIP:	LENGTH:		
	CORE SIZE:		
STARTED:		CLAIM NO:	
COMPLETED:		SECTION:	
PURPOSE:		LOGGED BY:	
		DATE LOGGED:	
CORE RECOVERY:		DRILLING CO:	
		ASSAYED BY:	

DIP TEST

METERS	READING	CORRECT	METERS	READING	CORRECT

METERS FROM	METERS TO	DESCRIPTION	SAMPLE NO.	METERS FROM	METERS TO	LENGTH	ASSAYS
		- very fine pyrite along bedding					
		21 m S_o=50°					
21.1	25.6	- grey variably calcareous laminated mudstone					
		- laminations are quartz and/or carbonate					
		- .5-5cm thick					
		- unit contains laminated and disseminated sphalerite and galena.					
		21.1-22.8 m 3-4% comp. Pb/Zn					
		21.39 2 cm calcareous laminations 1-2% Zn trace Pb					
		21.6 1 cm spahlerite laminations					
		21.7 2 cm " "					
		22.0 5 cm siliceous laminations 10% disseminated and laminated sphalerite					
		22.2-22.5 8% laminated Pb, Zn					
		24.8-25.1 disseminated Pb, Zn					
		24 m S_o=44°					
		25 m S_o=45°					
25.6	26.2	- black massive carbonaceous mudstone					
		26 m S_o=90°					
26.2	27.4	- laminated black mudstone, 2-3 mm white quartz/carbonaceous laminations pyrite					

DRILL HOLE LOG

LOCATION:		HOLE NO.	PAGE NO. 3
AZIM:	ELEV:	PROPERTY:	
DIP:	LENGTH:		
	CORE SIZE:	CLAIM NO:	
STARTED:		SECTION:	
COMPLETED:		LOGGED BY:	
PURPOSE:		DATE LOGGED:	
		DRILLING CO:	
CORE RECOVERY:		ASSAYED BY:	

DIP TEST

METERS	READING	CORRECT	METERS	READING	CORRECT

METERS FROM	METERS TO	DESCRIPTION	SAMPLE NO.	METERS FROM	METERS TO	LENGTH METERS	ASSAYS Pb%	Zn%	Ag oz/ton
27.4	29.26	- mass black graphitic mudstone 28 m S_o=45°							
29.26	30.17	- grey laminated calcareous mudstone 30 m S_o=45°							
30.17	33.83	- black graphitic mudstone, broken up							
33.83	37.18	- black siliceous, pyritic mudstone - beds contorted 37 m S_o=85°/120° S_1=30°/120°	68381	36.6	37.6	1.0	.25	.03	.14
37.18	41.75	- grey siliceous laminated mudstone, contains local silty to gritty sections - fine disseminated pyrite, possible fault - siliceous mudstone fragments - minor laminated sphalerite, quartz veins							
41.75	42.9	- black graphitic shale							
42.9	46.9	- black laminated siliceous mudstone - minor laminated sphalerite 43.2 m - 5cm lamination 3-4% Zn 46.3 m 3-1mm sphalerite laminations 45 m S_o=70°	68382	45.7	46.7	1.0	.01	.10	.01

DRILL HOLE LOG

HOLE NO.

PAGE NO. 4

LOCATION:

AZIM: ELEV:

DIP: LENGTH:

CORE SIZE:

STARTED:

COMPLETED:

PURPOSE:

CORE RECOVERY:

DIP TEST

METERS	READING	CORRECT	METERS	READING	CORRECT

PROPERTY:

CLAIM NO:

SECTION:

LOGGED BY:

DATE LOGGED:

DRILLING CO:

ASSAYED BY:

METERS FROM	METERS TO	DESCRIPTION	SAMPLE NO.	METERS FROM	METERS TO	LENGTH METERS	ASSAYS Pb%	Zn%	Ag oz/ton
46.9	71.3	- finely laminated, homogenous grey	68383	48.7	49.7	1.0	.01	.43	.01
		siltv mudstone, slightly calcareous							
		- disseminated pyrite							
		- numerous sections of fine to massive							
		laminated sphalerite and galena							
		49 m S_o =45°							
		49.37-49.68 m 4% sphalerite: laminated							
		53 m S_o=60°/120° 1cm quartz pyrite							
		stringer							
		S_1=60°/120°							
		53 m S_o=35°							
		55 m S_o=45°							
		59 m S_o=45°							
		62 m S_o=60°	68384	62.3	63.3	1.0	.01	.01	.01
		64 m 3cm irregular quartz sweat	68385	63.3	64.3	1.0	.01	.01	.01
		- unit becoming poorly banded	68386	64.3	65.3	1.0	.55	.52	.10
		64.6 m 5 cm sphalerite and Pb	68386	65.3	66.3	1.0	.01	.01	.01
		67.5 S_o=55°							
		68 m S_o=75°/125°125° 5cm quartz sweat							
		S_1=25°/120°							
		70 m S_o=88°/120° rare 1mm grey							
		calcareous laminations							
		S_1=15°/120°							
71.3	84.7	- dark grey, well laminated siliceous	68388	72.5	73.5	1.0	.01	.01	.01
		mudstone	68389	73.5	74.5	1.0	.01	.01	.01
		- unit contains minor quartz sweats	68390	74.5	75.5	1.0	.01	.01	.01

DRILL HOLE LOG

HOLE NO.:

LOCATION:

AZIM: ELEV:

DIP: LENGTH:

CORE SIZE:

STARTED:

COMPLETED:

PURPOSE:

CORE RECOVERY:

DIP TEST

METERS	READING	CORRECT	METERS	READING	CORRECT

PROPERTY:

CLAIM NO:

SECTION:

LOGGED BY:

DATE LOGGED:

DRILLING CO:

ASSAYED BY:

METERS FROM	METERS TO	DESCRIPTION	SAMPLE NO.	METERS FROM	METERS TO	LENGTH METERS	ASSAYS Pb%	Zn%	Ag oz/ton
		as well as laminated sphalerite and galena	68391	75.5	76.5	1.0	.01	.01	.01
		- rock laminations range from 1mm-3m							
		- light grey laminations are siliceous	68392	76.5	77.5	1.0	.11	1.25	.04
		with minor calcium	68393	77.5	78.1	0.6	.1	.04	.04
		72 m S_o=75°	68394	78.1	79.1	1.0	.1	.56	.03
		75 m S_o=78°	68395	79.1	80.1	1.0	.3	.13	.06
		- mineralization appears restricted to siliceous laminations							
		7 cm at quartz sweat							
		76.04 - 76.32 m 5% comb. sphalerite and galena (+ pyrite)							
		76.60-76.75 2% comb. sphalerite and galena (+ pyrite)							
		77.3 1cm sphalerite/77.8 2+2cm sphalerite							
		78.8 1cm sphalerite laminations							
		77 m S_o=60°							
		79 m S_o=90°							
		79 m S_o=87°/120°	68396	80.1	81.1	1.0	.03	.01	.01
		S_1=25°/120°	68397	81.1	81.7	0.6	.18	.01	.02
		80 m S_o=80°	68398	81.7	82.7	1.0	.19	.59	.01
		81.68-81.99 3-4% sphalerite and galena	68399	82.7	83.7	1.0	.01	.01	.01
		83 m S_o=75°							
		83.5 m S_o=60°/120°							
		S_1=20°/120°							
		- unit contains less than 1% white particles 84 m S_o=45°							

DRILL HOLE LOG

HOLE NO.: | PAGE NO.: 6

LOCATION:

AZIM: | ELEV:

DIP: | LENGTH:

CORE SIZE:

STARTED:

COMPLETED:

PURPOSE:

CORE RECOVERY:

PROPERTY:

CLAIM NO:

SECTION:

LOGGED BY:

DATE LOGGED:

DRILLING CO:

ASSAYED BY:

DIP TEST

METERS	READING	CORRECT	METERS	READING	CORRECT

METERS FROM	METERS TO	DESCRIPTION	SAMPLE NO.	METERS FROM	METERS TO	LENGTH METERS	ASSAYS Pb%	Zn%	Ag oz/ton
84.7	92.4	- dark grey conspic. laminated pyritic shale							
		- white-grey laminations are calcareous							
		- unit contains 3-5% disseminated sub-euhedral pyrite							
		- broken off laminations give a gritty look to some sections as at lower 80 cm of unit							
		90 m S_o=35°							
92.4	107.4	- black siliceous, well laminated, shaly mudstone	68400	91.9	92.9	1.0	.03	.16	.01
		- laminations vary from 1-5mm and are a mixture of quartz and carbonate	68351	92.9	93.9	1.0	.16	.38	.05
			68352	93.9	94.9	1.0	.17	.34	.05
		- local limy beds 3-5cm	68353	94.9	95.9	1.0	.04	.13	.01
		- unit contains most significant Zn, Pb mineralization	68354	95.9	96.9	1.0	.01	.02	.01
		- also contains minor quartz veins and silicified zones, trace pyrite							
		92.4-93.0 m siliceous zone 2% Pb,Zn							
		93.1 m 3mm laminated sphalerite, trace galena							
		93.7-93.8 m laminations disseminated Pb, Zn 2%							
		94.15 siliceous zone							
		94.35 1-3mm sphalerite laminations							
		94.5-94.7 m disseminated Pb, Zn insiliceous 2%							
		94.8-95.0 m quartz vein, trace pyrite	68359	98.0	99.0	1.0	.01	.03	.01

DRILL HOLE LOG

HOLE NO.: | PAGE NO.: 7

LOCATION:

AZIM: | ELEV:

DIP: | LENGTH:

CORE SIZE:

STARTED:

COMPLETED:

PURPOSE:

CORE RECOVERY:

DIP TEST

METERS	READING	CORRECT	METERS	READING	CORRECT

PROPERTY:

CLAIM NO:

SECTION:

LOGGED BY:

DATE LOGGED:

DRILLING CO:

ASSAYED BY:

METERS FROM	METERS TO	DESCRIPTION	SAMPLE NO.	METERS FROM	METERS TO	LENGTH METERS	ASSAYS Pb%	Zn%	Ag oz/ton
		95.6-96.7 laminations finer 1% pyrite	68360	99.0	99.9	0.4	.01	.03	.01
		96.7-97.0 m quartz vein	68355	99.9	100.4	1.0	.42	3.7	.16
		100.2-100.9 5% laminations dis-	68356	100.9	101.9	1.0	.12	1.43	.03
		seminated fine Pb, Zn	68357	101.9	102.9	1.0	.29	.56	.06
		102.8-103.0 massive Pb, Zn	68358	102.9	103.5	0.6	2.58	4.05	.9
		97-100 m quartz carbonaceous	68361	103.5	103.8	0.3	.22	.31	.06
		laminations, coarser 3-5mm	68362	103.8	104.8	1.0	.01	.01	.01
		- badly contorted							
		94 m S_o=45°							
		95 m S_o=75°							
		97 m S_o=70°/120° S_1=42°/120°							
		98 m S_o=90°							
		103 m S_o=85°							
107.4	112.1	- finely laminated, homogenous, light-	68363	104.8	105.8	1.0	.03	.01	.01
		grey, silty, mudstone	68364	105.8	106.8	1.0	.01	.01	.01
		- rare calcareous laminated, pyritic	68365	106.8	107.8	1.0	.06	.25	.01
		- 2% sub-euhedral pyrite							
		108.5 m S_o=75°							
		110.8 m 2°cm sphalerite laminations							
		111.0 m S_o=45°							
112.1	118.5	- light grey conspic. laminated black							
		to grey siliceous silty mudstone							
		114 m S_o=68°/120° S_1=42°/120°							
		115 m S_o=78°							
		116 m S_o=82°/120° S_1=36°/120°							

DRILL HOLE LOG

LOCATION:		HOLE No.	PAGE NO. 8
AZIM:	ELEV:	PROPERTY:	
DIP:	LENGTH:		
	CORE SIZE:	CLAIM NO:	
STARTED:		SECTION:	
COMPLETED:		LOGGED BY:	
PURPOSE:		DATE LOGGED:	
		DRILLING CO:	
CORE RECOVERY:		ASSAYED BY:	

DIP TEST

METERS	READING	CORRECT	METERS	READING	CORRECT

METERS FROM	METERS TO	DESCRIPTION	SAMPLE NO.	METERS FROM	METERS TO	LENGTH METERS	ASSAYS Pb%	Zn%	Ag oz/ton
		118 m S_o=75°							
		115.7 m 6cm siliceous zone 3% Pb; Zn	68366	114.6	115.6	1.0	.06	.01	.01
			68367	115.6	116.6	1.0	.05	.01	.01
113.5	125.2	- medium-dark grey siliceous mudstone							
		- badly crenulated in spots							
		- was well laminated							
		- slightly calcareous looks like turbidite in places but "clasts"							
		- may be broken off laminations							
		121 m S_o=75°/120° S_1=46°/120°							
		122 m S_o=80°							
		124.9 m 2mm sphalerite laminations							
125.2	131.8	- dark grey turbidite sequence coarsening downward	68368	124.4	125.4	1.0	.01	.04	.01
		- top is fine laminated, downward increase in size and frequency of irregular 1-10 mm siliceous clasts of to 15%							
		126 m S_o=85°							
		126.5 m S_o=90°/120° S_1=54°/120°							
131.8	142.7	- dark grey, well laminated, siliceous pyritic mudstone							
		- laminations locally granulated							
		- 2-3% sub-euhedral pyrite							
		133 m S_o=85°/120° S_1=56°/120°							
		136.7 m less than 1% - Pb, Zn in							

DRILL HOLE LOG

LOCATION:

HOLE No.:

AZIM: ELEV:

DIP: LENGTH:

CORE SIZE:

STARTED:

COMPLETED:

PURPOSE:

CORE RECOVERY:

DIP TEST

METERS	READING	CORRECT	METERS	READING	CORRECT

PROPERTY:

CLAIM NO:

SECTION:

LOGGED BY:

DATE LOGGED:

DRILLING CO:

ASSAYED BY:

METERS FROM	METERS TO	DESCRIPTION	SAMPLE NO.	METERS FROM	METERS TO	LENGTH METERS	ASSAYS Pb%	Zn%	Ag oz/ton
		siliceous zone							
		138 m S_o=82°/120° S_1=60°/120°	68369	141.0	142.0	1.0	.01	.01	.01
		140 m S_o=75°							
142.7	145.2	- gradual contact with black poorly laminated carbonaceous shale							
		143 m S_o=85°							
		143 m S_o=90°/120° S_1=45°/120°							
145.2	148.5	- graded down over .3 m into a light grey coarsely laminated/thinly bedded limestone and calcareous mudstone							
		146.5-147 m quartz vein							
		- gradual down to a well laminated calcareous mudstone with 2-3mm white limy laminations							
		- thin quartz veins minor sphalerite							
148.5	152.7	- well laminated, calcareous mudstone							
		148.5 S_o=70°							
		149 m S_o=55°/120° S_1=42°/120°							
152.7	EOH								

DRILL HOLE LOG

LOCATION: 63+15W 15+25S

HOLE No. BULL 82-7

PAGE NO. 1

AZIM: 032°

DIP: -50°

ELEV: 1459.5

LENGTH: 151.8 m

CORE SIZE: BQ

STARTED:

COMPLETED:

PURPOSE:

CORE RECOVERY:

PROPERTY: Bullion Creek

DIP TEST

METERS	READING	CORRECT	METERS	READING	CORRECT
150.3 m	48.5°				

CLAIM NO:

SECTION:

LOGGED BY: D. Kuran

DATE LOGGED:

DRILLING CO: Arctic

ASSAYED BY: Acme

METERS FROM	METERS TO	DESCRIPTION	SAMPLE NO.	METERS FROM	METERS TO	LENGTH	ASSAYS
0	5.0	- overburden					
5.0	5.5	- black, siliceous, porous, laminated, silty mudstone 5.5 m S_o=70°					
5.5	17.1	- well laminated grey mudstone - alternating white to black 1-2 laminations of black mudstone and white limy laminations - trace pyrite 7 m S_o=50° 10 m S_o=62°/120° S_1=0°/120° 11.4-11.6 m quartz vein and stringers 11.4 m S_o=40° 13.2-13.75 quartz vein 14.3-14.4 quartz vein 15 m S_o=15° 16.5 m 1S_o=10°					
17.1	23.6	- dense, black, non-calcareous, shaly mudstone - poorly laminated - contains 1% 2-5mm quartz blebs - minor pyrite 18 m S_o=40° 20 m S_o=20°					

DRILL HOLE LOG

HOLE No.

PAGE NO. 2

LOCATION:

AZIM: ELEV:

DIP: LENGTH:

CORE SIZE:

STARTED:

COMPLETED:

PURPOSE:

CORE RECOVERY:

DIP TEST

METERS	READING	CORRECT	METERS	READING	CORRECT

PROPERTY:

CLAIM NO:

SECTION:

LOGGED BY:

DATE LOGGED:

DRILLING CO:

ASSAYED BY:

METERS FROM	METERS TO	DESCRIPTION	SAMPLE NO.	METERS FROM	METERS TO	LENGTH	ASSAYS
		21 m S_o=4°					
		21.8-22.3 m quartz vein					
		22.4-22.7 m quartz vein					
		23 m S_o=48°/120° S_1=17°/120°					
		23 m S_o=45°					
23.6	45.0	- black laminated mudstone					
		- unit contains 1-2mm pyritic limy bands at .5-2 cm					
		25 m S_o=40°					
		- grey non-calcareous silty bands					
		- laminations vary in frequency and width through unit					
		- local conc. of quartz blebs					
		- minor pyrite, pyrite oxide					
		26.5 m S_o=20°					
		30 m S_o=55°/120° S_1=21°/120°					
		30 m S_o=45°					
		31 m S_o=60°					
		31.8-32.0 m quartz/carbonaceous shattered stockwork					
		32 m S_o=61°/120° S_1=32°/120°					
		33.9-33.6 quartz vein					
		36 m S_o=45°					
		38.5-39 m light grey fine grained silty zone					
		39 m S_o=90°/120° S_1=28°/120°					

DRILL HOLE LOG

HOLE No.

PAGE NO. 3

LOCATION:

AZIM: ELEV:

DIP: LENGTH:

CORE SIZE:

STARTED:

COMPLETED:

PURPOSE:

CORE RECOVERY:

PROPERTY:

CLAIM NO:

SECTION:

LOGGED BY:

DATE LOGGED:

DRILLING CO:

ASSAYED BY:

DIP TEST

METERS	READING	CORRECT	METERS	READING	CORRECT

METERS FROM	METERS TO	DESCRIPTION	SAMPLE NO.	METERS FROM	METERS TO	LENGTH METERS	ASSAYS Pb%	Zn%	Ag/oz
		40 m S_o=85°							
		40-44.9 massive white quartz vein							
		41 m S_o=70°							
45.0	74.2	- light grey, poorly to moderately well laminated, slightly silty (?) shale	68401	48.9	49.9	1.0	.01	.01	.01
			68402	49.9	50.4	0.5	5.4	1.42	.42
		- fairly massive	68403	50.4	51.4	1.0	.16	.01	.01
		- homogenous	68404	52.9	54.1	1.2	.01	.01	.01
		- contains rare 3-5 cm quartz/carbonate laminations	68405	54.1	54.6	0.5	.95	1.03	.20
			68406	54.6	55.6	1.0	.34	.14	.06
		- 1-2 cm limestone bands	68407	55.6	56.6	1.0	.04	.2	.01
		- unit contains significant Pb, Zn mineralization as discrete laminations	68408	56.6	57.4	0.8	.22	.12	.06
			68409	57.4	57.9	0.5	4.56	5.66	.49
		47 m S_o=40°	68410	57.9	58.0	1.0	.01	.03	.01
		48 m S_o=49°/120° S_1=27°/120°	68411	58.9	59.6	0.7	.14	.14	.05
		49 m S_o=45°							
		49 m 2cm limestone band							
		46 m - locally slightly mobilized liver colored sphalerite medium grained							
		- galena medium to very fine grained							
		- trace very fine pyrite throughout							
		50.0-50.1 galena and sphalerite in siliceous layer							
		- some galena cross cuts the bedding							
		- 5% combined Pb,Zn/10 cm, 3m very fine grained Pb							
		52 m S_o=50°							

DRILL HOLE LOG

HOLE No.

PAGE NO. 4

LOCATION:

AZIM: ELEV:

DIP: LENGTH:

CORE SIZE:

STARTED:

COMPLETED:

PURPOSE:

CORE RECOVERY:

DIP TEST

METERS	READING	CORRECT	METERS	READING	CORRECT

PROPERTY:

CLAIM NO:

SECTION:

LOGGED BY:

DATE LOGGED:

DRILLING CO:

ASSAYED BY:

METERS FROM	METERS TO	DESCRIPTION	SAMPLE NO.	METERS FROM	METERS TO	LENGTH METERS	ASSAYS Pb%	Zn%	Ag/oz
		53 m 10cm shear zone							
		54.5 m 5cm siliceous layer with laminated sphalerite and minor galena 3%/5cm							
		55 m S =60°							
		56.6 1cm lamination of sphalerite							
		57.5 S =60°							
		57.5 20 cm laminated sphalerite and galena							
		1 cm solid galena - very fine 5% comb./ 20 cm							
		59 m S =75°							
		59.8 m 8cm siliceous laminations							
		1 cm sphalerite laminations up to 3mm							
		62.3m 2cm siliceous section 3 1mm sphalerite laminations							
		62.6 m 1cm laminated sphalerite							
		62.62 m 1mm lamination sphalerite	68412	59.6	60.1	0.5	.01	.74	.01
		62.8 m 3mm lamination sphalerite	68413	60.1	61.1	1.0	0.3	.11	.07
		63.1 m 1cm lamination sphalerite	68414	61.1	62.1	1.0	.01	.05	.01
		63.4 m 1mm lamination sphalerite	68415	62.1	63.1	1.0	.06	.70	.01
		1mm lamination sphalerite and galena	68416	63.1	64.1	1.0	.19	.43	.04
		63.6 m 2cm quartz sweat	68417	64.1	65.1	1.0	.12	.08	.01
		64 m S =45°							

DRILL HOLE LOG

LOCATION:

AZIM: ELEV:

DIP: LENGTH:

CORE SIZE:

STARTED:

COMPLETED:

PURPOSE:

CORE RECOVERY:

HOLE No.

PROPERTY:

CLAIM NO:

SECTION:

LOGGED BY:

DATE LOGGED:

DRILLING CO:

ASSAYED BY:

DIP TEST

METERS	READING	CORRECT	METERS	READING	CORRECT

METERS FROM	METERS TO	DESCRIPTION	SAMPLE NO.	METERS FROM	METERS TO	LENGTH METERS	ASSAYS Pb%	Zn%	Ag oz/ton
		65.4-65.5 m silicified section							
		- minor sphalerite laminations							
		65.8 m 2cm lamination with fine							
		laminated sphalerite							
		65.9 m 1mm lamination sphalerite	68418	65.1	65.6	0.5	.01	.52	.01
		66.1 m 3cm siliceous lamination, minor	68419	65.6	66.6	1.0	.02	.32	.01
		1cm sphalerite	68420	66.6	67.1	0.5	1.25	1.98	.19
		66.2 m 1mm sphalerite lamination							
		66.3 m 1mm sphalerite lamination							
		66.7-66.9 m laminated sphalerite and	68421	67.1	68.0	0.9	.14	.18	.01
		galena, disseminated Pb 3% Pb,Zn/20cm							
		67.3 m 1mm sphalerite lamination							
		68.3 m 1mm sphalerite lamination							
		68.4 m 1cm sphalerite lamination	68422	68.0	68.6	0.6	.24	.75	.05
		68.5 m laminated sphalerite over 3 cm							
		68.5 m S_o=74°/120° S_1=32°/120°							
		70.5 m carbonate lamination 2cm, white							
		70 m S_o=70°							
		73m S_o=85°/120° S_1=48°/120°							
74.2	83.2	- light grey, well laminated mudstone							
		laminations are 1-3mm wide							
		- white quartz and carb. also contains							
		lighter grey silty laminations and bands							
		- trace sphalerite, fine pyrite							
		74.2 m S_o=65°							
		74.6 m 1mm whispy brown sphalerite	68423	74.3	74.8	0.5	.08	.12	.01
		78 m S_o=45°							

DRILL HOLE LOG

HOLE No.

PAGE NO. 6

LOCATION:

AZIM: ELEV:

DIP: LENGTH:

CORE SIZE:

STARTED:

COMPLETED:

PURPOSE:

CORE RECOVERY:

PROPERTY:

CLAIM NO:

SECTION:

LOGGED BY:

DATE LOGGED:

DRILLING CO:

ASSAYED BY:

DIP TEST

METERS	READING	CORRECT	METERS	READING	CORRECT

METERS FROM	METERS TO	DESCRIPTION	SAMPLE NO.	METERS FROM	METERS TO	LENGTH METERS	ASSAYS Pb%	Zn%	Ag oz/ton
		80 m S_o=80°	68424	83.2	83.8	0.6	.01	.01	.01
		81 m S_o=52°/120° S_1=39°/120°	036801	83.8	84.3	0.5	.19	4.13	.24
		82 m S_o=80°							
83.2	86.0	- light grey fairly massive, homogenous, slightly silty shale							
		- similar to 45.0-74.2 m							
		- contains significant sphalerite min.							
		83.9 m over 4cm laminated sphalerite							
		84.1 m 3cm laminated sphalerite	036802	84.3	85.3	1.0	.31	.59	.18
		84.5 m S_o=90°							
		84.9 m over 5cm laminated sphalerite							
86.0	103.3	- well laminated black shaly mudstone							
		- white quartz/carbonaceous laminations 1m-1cm							
		- locally sweated							
		- unit contains locally silty more homogenous layers							
		- unit contains minor laminated sphalerite							
		87.5 m S_o=85°							
		85.7 m laminated sphalerite/5cm	036803	87.4	87.9	0.5	.18	1.36	.11
		88.5 m S_o=30°							
		90.0 m S_o=45°							
		91.0 m S_o=45°							
		92.4-93.0 m siliceous sweats							
		93.8 m 1mm whisp sphalerite	036808	93.7	94.7	1.0	.04	.11	.03

DRILL HOLE LOG

LOCATION:

AZIM: ELEV:

DIP: LENGTH:

CORE SIZE:

STARTED:

COMPLETED:

PURPOSE:

CORE RECOVERY:

HOLE No.

PROPERTY:

CLAIM NO:

SECTION:

LOGGED BY:

DATE LOGGED:

DRILLING CO:

ASSAYED BY:

DIP TEST

METERS	READING	CORRECT	METERS	READING	CORRECT

METERS FROM	METERS TO	DESCRIPTION	SAMPLE NO.	METERS FROM	METERS TO	LENGTH METERS	ASSAYS Pb%	Zn%	Ag oz/ton
		93.9 m 2mm lamination sphalerite	036809	94.7	95.7	1.0	.05	.34	.01
		95.0 m S_o=90°	036810	95.7	96.7	1.0	.08	.45	.07
		95 m 2cm siliceous sweats							
		95.1 m 1mm lamination sphalerite							
		95.18-95.3 m 4 x 2mm sphalerite laminations							
		95.8-95.87 m 6% laminated Pb, Zn							
		96.0 m S_o=60°							
		98.0 m S_o=68°/120° S_1=34°/120°							
		100.0 m S_o=40°							
		101.5 m S_o=75°							
103.3	104.2	- transition from black laminated shale to grey silty shale	036804	101.2	101.8	0.7	.70	.84	.28
		- significant Pb, Zn	036805	103.1	103.6	0.5	.12	1.90	.07
		103.3-103.9 m 60 cm laminated sphalerite 3% Zn	036806	103.6	104.6	1.0	.26	.40	.12
		104.1 m 1cm lamination sphalerite							
104.2	141.1	104.2 S_o=84°/120° S_1=28°/120°							
		- turbidite							
		104.5 m 3cm of laminated sphalerite							
		106 m light grey variably calcareous, silty shale							
		- unit is usually poorly laminated, but locally contains white quartz/							

DRILL HOLE LOG

LOCATION:

AZIM: ELEV:

DIP: LENGTH:

CORE SIZE:

STARTED:

COMPLETED:

PURPOSE:

CORE RECOVERY:

DIP TEST

METERS	READING	CORRECT	METERS	READING	CORRECT

HOLE No.

PAGE NO. 8

PROPERTY:

CLAIM NO:

SECTION:

LOGGED BY:

DATE LOGGED:

DRILLING CO:

ASSAYED BY:

METERS FROM	METERS TO	DESCRIPTION	SAMPLE NO.	METERS FROM	METERS TO	LENGTH METERS	ASSAYS Pb%	Zn%	Ag oz/ton
		carbonaceous lamintions and silty lavers							
		- local dark grey shaly sections and locally coarser silty sections, Pb, Zn mineralization decreases in grade and thickness downward							
		- spotty at best							
		106.35 m 1cm sphalerite laminations	036807	106.1	107.1	1.0	.01	.28	.01
		106.55 m 1mm sphalerite laminations							
		106.5 m S_o=85°							
		107.0 m S_o=90°							
		110.3 m 2mm sphalerite laminations	036811	110.0	110.6	.6	.01	.80	.01
		111.0 m S_o=85°							
		112.5-113.2 m darker grey banded shale							
		112.5 m S_o=70°							
		114.0 m S_o=71°/120° S_1=31°/120°							
		114.8-114.85 m thin 1-2mm sphalerite laminations	36812	114.5	115.0	0.5	.03	.69	.01
		115 m S_o=70°							
		115.6 m 1.5cm sphalerite laminations	36813	116.8	117.5	.07	.01	2.47	.01
		115.8-116.6 m lighter grey disrupted							
2		2mm quartz carbonaceous laminations							
		121.3-121.5 cross laminated laminations							
		122 m S_o 80°/120° S_1=32°/120°							
		125 m S_o=70°							
		125.8 m quartz sweat							
		127 m S_o=76°/120° S_1=40°/120°							
		127.3-128.9 m slightly coarser, silty							

DRILL HOLE LOG

HOLE NO.

LOCATION:

AZIM: ELEV:

DIP: LENGTH:

CORE SIZE:

STARTED:

COMPLETED:

PURPOSE:

CORE RECOVERY:

DIP TEST

METERS	READING	CORRECT	METERS	READING	CORRECT

PROPERTY:

CLAIM NO:

SECTION:

LOGGED BY:

DATE LOGGED:

DRILLING CO:

ASSAYED BY:

METERS FROM	METERS TO	DESCRIPTION	SAMPLE NO.	METERS FROM	METERS TO	LENGTH	ASSAYS
		fragments, visible					
		129 m S_o=60°					
		129.5 m 3cm vuggy quartz vein 5% 5o core					
		135 m S_o=80°					
		135.3-135.5 m laminated shaly section					
		136 m S_o=78°/120° S_1=45°/120°					
		140 m S_o=55°					
		141 m S_o=80°/120° S_1=47°/120°					
141.1	142.1	- well laminated black, slightly calcareous mudstone					
		- bladly crenulated, limy laminations					
		142.0 m S_o=40°					
142.1	147.2	- dark grey-black laminated and banded mudstone/silty mudstone					
		- locally very limy					
		145.0 m S_o=80°/120° S_1=35°/120°					
147.2	150.2	- light grey homogenous, shaly siltstone					
		148.5 m S_o=80°					
150.2	151.8	- medium grey banded silty shale					
		- usually well laminated					
		- slightly calcareous					
		151.5 m S_o=75°					
151.8	EOH	157.0 m S_o=80°/125° S_1=30°/120°					

DRILL HOLE LOG

LOCATION:	L 64+30W 14+95S	HOLE No.	BULL 82-8
		PAGE NO.	1
AZIM:	032°	ELEV:	1496.0 m
DIP:	-50°	LENGTH:	160.9 m
		CORE SIZE:	BQ
STARTED:		PROPERTY:	Bullion Creek
COMPLETED:		CLAIM NO:	
PURPOSE:		SECTION:	
		LOGGED BY:	DLK
CORE RECOVERY:		DATE LOGGED:	Sept. 10/82
		DRILLING CO:	Arctic
		ASSAYED BY:	Acme

DIP TEST

METERS	READING	CORRECT	METERS	READING	CORRECT
157.0	-51°				

METERS FROM	METERS TO	DESCRIPTION	SAMPLE NO.	METERS FROM	METERS TO	LENGTH	ASSAYS Pb%	Zn%	Ag oz/ton
0	3.4	- casing, overburden							
3.4	11.0	- finely laminated dark grey shaly mudstone - unit contains up to 3-5% disseminated sub-euhedral .5-1mm pyrite grains - carbonate content increases downward - fine 1-2mm white laminations are siliceous on top and limy on bottom - base contains 1cm limestone bands and very little pyrite - unit contains 1.5m of 2-3% fine disseminated red sphalerite ± trace galena - top of unit is pitted from weathering of pyrite - 4.5-5.9 m - fine disseminated red sphalerite - 7.7 m- 1 cm limestone bed - 8.8 m - pyrite decreases, calcium decreases 8.8 m M folds S_o 85°/120° S_1 10°/120° 9.0 m Z folds S_o 50°/120° S_1 15°/120°	046814	4.5	5.5	1.0	.42	.67	.01
			046815	5.5	6.0	0.05	.22	.42	.01
11.0	11.8	- graditional contact zone - dark greenish-grey, poorly laminated mixture of shaly material and dacitic (?) tuffaceous material							
11.8	16.0	- pale green - drab green, finely laminated, dacitic tuff							

DRILL HOLE LOG

LOCATION:	
AZIM:	ELEV.
DIP:	LENGTH:
	CORE SIZE:
STARTED:	
COMPLETED:	
PURPOSE:	
CORE RECOVERY:	

DIP TEST

METERS	READING	CORRECT	METERS	READING	CORRECT

HOLE No.	BULL 82-8
PAGE NO.	2
PROPERTY:	
CLAIM NO:	
SECTION:	
LOGGED BY:	
DATE LOGGED:	
DRILLING CO:	
ASSAYED BY:	

METERS FROM	METERS TO	DESCRIPTION	SAMPLE NO.	METERS FROM	METERS TO	LENGTH	ASSAYS
		- locally contains up to 10% 1-2mm irregular clasts of whitish-green material					
16.0	32.6	- well laminated dark grey, hard mudstone - rock contains limy laminations of .5-2mm thickness alternating with black mudstone - rare 1cm limestone laminations - race pyrite - small sections appear to have had motion along bedding - broken frags. 1-3mm in diameter rotated 45-90° - unit appears overall to be calcareous because of calcareous laminations 31.7-32.6 m 3-5% pyrite 22.0 m Z fold S_o 78°/120° S_1 15°/120° 30.5 m Z fold S_o 80°/120° S_1 10°/120°					
32.6	34.3	- dark grey to black laminated siliceous mudstone - less laminations than unit above - 50% of laminations are calcareous - total laminations % = 20% - 1-2% pyrite - 1% pyrite oxide - bedding more contorted - foliation better developed					

DRILL HOLE LOG

HOLE No. 82-8 | PAGE NO. 3

LOCATION:

AZIM: ELEV

DIP: LENGTH

CORE SIZE

STARTED:

COMPLETED:

PURPOSE:

CORE RECOVERY:

DIP TEST

METERS	READING	CORRECT	METERS	READING	CORRECT

PROPERTY:

CLAIM NO:

SECTION:

LOGGED BY:

DATE LOGGED:

DRILLING CO:

ASSAYED BY:

METERS FROM	METERS TO	DESCRIPTION	SAMPLE NO.	METERS FROM	METERS TO	LENGTH	ASSAYS Pb%	Zn%	Ag oz/ton
		- 32.4 beds contorted							
		33.0m Z fold S_o 80°/120° S_1 5°/120°							
34.3	37.6	- light, medium-grey, silty mudstone							
		- finely laminated, thickly-bedded, appears massive							
		- contains small sections of blacker muddy rock							
		- thin bands of cross laminated mudstone and minor disseminated pyrite							
		- 35.8-35.9m laminated black muddy section							
		- cross-laminated							
37.6	38.2	- dark grey-black siliceous mudstone							
		- 25% of rock is laminated							
		- 60% of laminations are siliceous, 40% are calcareous							
38.2 -	40.5	- light-medium grey, laminated silty mudstone							
		- calcareous-siliceous laminations							
		- unit contains laminated and disseminated liver sphalerite							
		- minor muddy black sections							
		- 38.5 2mm disseminated sphalerite	036816	38.2	39.2	1.0	.07	.10	.01
		- 39.30-39.38 m disseminated sphalerite	036817	39.2	39.8	0.6	.31	.13	.13
		40.0 m 10cm 3% sphalerite	036818	39.8	40.5	0.7	.29	1.53	.13
		40.3 m 10cm 3% sphalerite							
40.5	44.4	- dark grey well laminated, pyritic, dark grey							

DRILL HOLE LOG

LOCATION:		HOLE No. 82-8	PAGE NO. 4
AZIM:	ELEV:	PROPERTY:	
DIP:	LENGTH:		
	CORE SIZE:	CLAIM:	
STARTED:		SECTION:	
COMPLETED:		LOGGED BY:	
PURPOSE:		DATE LOGGED:	
		DRILLING CO:	
CORE RECOVERY:		ASSAYED BY:	

DIP TEST

METERS	READING	CORRECT	METERS	READING	CORRECT

METERS FROM	METERS TO	DESCRIPTION	SAMPLE NO.	METERS FROM	METERS TO	ASSAYS LENGTH
		mudstone. 5-10% pyrite, trace pyrite oxide				
		- 90% of laminations siliceous				
		- total laminations make-up 40% of rock				
		41.0 Z folds S_o 75°/120° S_1 25°/120°				
		42.0 5cm Quartz healed shatter				
		43.5 5cm Quartz vein pyrite oxide, pyrite				
		43.8 5cm " " trace sphalerite				
		43.9-44.4 Quartz and fragments of mudstone containing pyrite and pyrite oxide				
44.4	45.7	- medium-grey, fine laminated silty mudstone				
		- homogenous, massive				
45.7	56.5	- dark grey to black, poorly laminated to banded, siliceous, pyritic mudstone				
		- pyrite as clots, disseminated lenses and laminations				
		- rare 2mm calcareous laminations				
		46.3-46.8 m Quartz vein				
		51.2 m Z fold S_o 78°/120° S_1 41°/120°				
56.5	63.8	- dark grey-black, massive, siliceous mudstone with fine pyrite laminations				
		- minor quartz sweats				
		- trace disseminated pyrite				
		67.2-67.6 Quartz vein				
		67.8-68.0 Quartz vein				
		63.0 m Z fold S_o 85°/120° S_1 40°/120°				

DRILL HOLE LOG

LOCATION:		HOLE No. 82-8	PAGE NO. 5
AZIM:	ELEV:	PROPERTY:	
DIP:	LENGTH:		
	CORE SIZE:	CLAIM NO:	
STARTED:		SECTION:	
COMPLETED:		LOGGED BY:	
PURPOSE:		DATE LOGGED:	
		DRILLING CO:	
CORE RECOVERY:		ASSAYED BY:	

DIP TEST

METERS	READING	CORRECT	METERS	READING	CORRECT

METERS FROM	METERS TO	DESCRIPTION	SAMPLE NO.	METERS FROM	METERS TO	LENGTH	ASSAYS Pb%	Zn%	Ag oz/ton
		64.0 m M fold 65.0 m S fold							
68.0	75.8	- light medium grey, slightly silty softer mud-stone							
		-light grey siliceous laminations							
		- unit contains most of this hole's mineral-ization in the form of laminations							
		some sweaty quartz veins associated with disseminated sphalerite and galena							
		68.35-68.6 m 6% Pb/Zn	036819	68.25	68.75	0.5	2.29	3.38	.71
		68.7-68.9 m quartz	036820	68.75	69.75	1.0	.23	.12	.07
		69.48 Fine disseminated and laminated sphalerite	036821	69.75	70.5	.75	.12	.07	.01
			036822	70.5	71.0	0.5	.16	1.33	.01
		69.54-69.6 m 5% Zn in sweaty quartz	036823	71.0	71.7	0.7	.09	.03	.01
		69.77 m lcm laminated sphalerite	036824	71.7	72.2	0.5	2.95	2.53	.39
		71.74-71.85 m 10% Zn/Pb	036825	72.2	73.2	1.0	.50	.33	.06
		72.1 3cm sweaty Pb/Zn	036826	73.2	74.2	1.0	.29	.32	.05
		72.5 2mm laminated sphalerite							
		72.65 3mm laminated sphalerite							
		74.0 m Z fold S_o $68^o/120^o$ S_1 $35^o/120^o$							
75.8	87.0	- fault zone. Ground and sheared, medium grey, siliceous, shaly mudstone							
		- pyritic							
		- locally contains sweated sphalerite where 2-3mm thick laminations are very contorted							
		- unit contains large bull quartz sections							
		75.8-75.85 m 10% Zn in sweats	036827	75.6	76.1	0.5	.66	.62	.14

DRILL HOLE LOG

LOCATION:		HOLE No. 82-8	PAGE NO. 6
AZIM:	ELEV:	PROPERTY:	
DIP:	LENGTH:		
	CORE SIZE:	CLAIM NO:	
STARTED:		SECTION:	
COMPLETED:		LOGGED BY:	
PURPOSE:		DATE LOGGED:	
		DRILLING CO:	
CORE RECOVERY:		ASSAYED BY:	

DIP TEST

METERS	READING	CORRECT	METERS	READING	CORRECT

METERS FROM	METERS TO	DESCRIPTION	SAMPLE NO.	METERS FROM	METERS TO	LENGTH	ASSAYS Pb%	Zn%	Ag oz/ton
		75.6-79.7 m ground rock							
		79.7-81.6 m laminated mudstone, bed contorted							
		81.6-87.0 m bull quartz barren							
		81.0 m M fold							
87.0	95.0	- medium-light grey, muddy siltstone							
		- silty mudstone, thickly bedded							
		- faintly laminated, contains 1-3% laminated white clasts							
		- unit seems to coarsen downwards							
		- at 94.0-95.0 m, unit is more thickly laminated							
		- this unit seems to be the first in a thick turbiditic sequence							
		92.0 m S fold S_o 48°/120° S_1 52°/120°							
95.0	96.5	- grey, muddy, silstone turbidite							
		- fine silty mudstone at top							
		- .5 cm beds of muddy siltstone at the bottom							
96.5	98.9	- grey, muddy siltstone turbidite contains disseminated and laminated Pb/Zn							
		96.5-96.6 m disseminated sphalerite	036828	96.3	96.8	0.5	.08	.41	.01
		96.8-97.0 m quartz							
98.9	101.1	- grey, silty turbidite	036829	98.9	99.4	0.5	2.29	.01	.81
		- fine, laminated, siliceous mudstone on top grading down to silt size	036830	99.4	99.9	0.5	.04	.01	.01

DRILL HOLE LOG

HOLE No. 82-8 | PAGE NO. 7

LOCATION:

AZIM: ELEV.

DIP: LENGTH

CORE SIZE

STARTED:

COMPLETED:

PURPOSE:

CORE RECOVERY:

PROPERTY:

CLAIM NO:

SECTION:

LOGGED BY:

DATE LOGGED:

DRILLING CO:

ASSAYED BY:

DIP TEST

METERS	READING	CORRECT	METERS	READING	CORRECT

METERS FROM	METERS TO	DESCRIPTION	SAMPLE NO.	METERS FROM	METERS TO	LENGTH	ASSAYS
		- unit contains laminated and sweaty galena					
		99.3m 2-3cm sweaty lead in quartz sweat					
		99.38 m 2cm disseminated galena in siliceous					
		lamination					
		100.0 m Z fold S_o 45°/125° S_1 15°/120°					
101.1	107.0	- medium grey, silty mudstone-turbidite					
		103.5-103.7 quartz beds 50°					
		105.2-105.5 quartz					
		105.9-106.3 quartz					
		- unit is slightly calcareous					
		- contains .5cm carbonate beds					
107.0	114.6	- laminated shaly mudstone - poorly sorted					
		siltstone turbidite					
		- unit grades down to a poorly sorted, gritty					
		siltstone at base					
		- contains 5-10% .1-1cm subanovlar white clasts					
		108.5 Beds 28°					
		110.4 " 35°					
		113.7 " 60°					
		108.0 m Z fold S_o 040°/125 S_1 022°/120°					
114.6	114.3	- laminated shaly mudstone grading down to					
		muddy siltstone					
		115.0 Beds 45°					
		116.2 m Z fold S_o 062°/124° S_1 022°/120°					

DRILL HOLE LOG

LOCATION:		HOLE No. 82-8	PAGE NO. 8
AZIM:	ELEV:	PROPERTY:	
DIP:	LENGTH:		
	CORE SIZE:	CLAIM NO:	
STARTED:		SECTION:	
COMPLETED:		LOGGED BY:	
PURPOSE:		DATE LOGGED:	
		DRILLING CO:	
CORE RECOVERY:		ASSAYED BY:	

DIP TEST

METERS	READING	CORRECT	METERS	READING	CORRECT

METERS FROM	METERS TO	DESCRIPTION	SAMPLE NO.	METERS FROM	METERS TO	LENGTH	ASSAYS
117.3	126.5	- well laminated dark grey to black mudstone coarsening down to fairly massive grey muddy siltstone					
		119.5 10cm quartz healed shatter (28°)					
		119.7 vuggy quartz vein					
		120.2 6cm vuggy quartz vein 40°					
		122.8 10cm quartz healed shatter 50°					
		124.6 unconformable bedding contact					
		- laminated silty mudstone at 2° to core truncate siltstone beds high or at 45° to core					
126.5	137.6	- well laminated, black, siliceous mudstone graded down hole to a fine, muddy siltstone					
		- at 132.9 m silt becomes more prominent					
		- unit contains 10-20cm wide silty sections throughout					
		127.0 m M fold					
		129.0 m Z fold S_o 062°/150° S_1 20°/120°					
		134.0 m Z fold S_o 60°/150° S_1 32°/120°					
137.6	158.5	- black mudstone, locally well laminated					
		- usually poorly laminated sections contain blebs of pyrite					
		- minor quartz sweats					
		- rare calcareous laminations and minor laminated sphalerite					
		139.9-140.8 quartz sweats					

DRILL HOLE LOG

HOLE No. 82-8 | PAGE NO. 9

LOCATION:

AZIM: ELEV:

DIP: LENGTH:

CORE SIZE:

STARTED:

COMPLETED:

PURPOSE:

CORE RECOVERY:

PROPERTY:

CLAIM NO:

SECTION

LOGGED BY

DATE LOGGED

DRILLING CO:

ASSAYED BY.

DIP TEST

METERS	READING	CORRECT	METERS	READING	CORRECT

METERS FROM	METERS TO	DESCRIPTION	SAMPLE NO.	METERS FROM	METERS TO	LENGTH	ASSAYS Pb%	Zn%	Ag oz/ton
		141.0 m S fold S_o 45°/122° S_1 52°/120°							
		145.0 m Z fold S_o 48°/140° S_1 18°/120°							
		149.15 2mm laminated sphalerite	036831	148.9	149.4	0.5	.05	.11	.14
		149.2 .5cm laminated pyrite in calcareous lamination							
		156.3 m Z fold S_o 40°/120° S_1 15°/120°							
		165.0 2mm sphalerite laminated	036832	155.8	156.3	0.5	.01	.12	.01
158.5	160.5	- badly foliated shale, almost schistose unit has some volcanic content - greenish grey contains 10% pyrite and pyrite oxide							
160.5	160.9 EOH	- well laminated black mudstone							

DRILL HOLE LOG

LOCATION:	L 60+57W 15+55S	HOLE No.	82-9
		PAGE NO.	1
AZIM:	032°	ELEV:	1468.0 m
DIP:	-50°	LENGTH	163.9 m
		CORE SIZE	BQ
STARTED			
COMPLETED:			
PURPOSE:			
CORE RECOVERY:			

DIP TEST

METERS	READING	CORRECT	METERS	READING	CORRECT
158	-51°				

PROPERTY:	Bullion Creek
CLAIM NO:	
SECTION:	
LOGGED BY:	D.L. Kuran
DATE LOGGED:	Sept. 15/82
DRILLING CO:	Arctic
ASSAYED BY:	Acme

METERS FROM	METERS TO	DESCRIPTION	SAMPLE NO.	METERS FROM	METERS TO	ASSAYS LENGTH
0	3.1	- casing, overburden				
3.1	13.4	- well to moderately laminated, siliceous, black mudstone - laminations make-up 20% of rock - very limy, off white - top 2m extensively pitted - small sections more shaly, less well laminated 11.0 m 5cm calcite vein 13.1-13.4 m quartz vein				
13.4	14.1	- dark grey-black, poorly laminated, black, carbonaceous shale				
14.1	16.5	- medium grey, well laminated, shaly mudstone - 50% white .5-1.0mm calcite laminations, minor fine whispy pyrite - local minor 5-10cm black carbonaceous shale beds 15.4 m Z fold S_o 72°/120° S_1 31°/120° 16.3 m Z fold S_o 70°/120° S_1 22°/120°				
16.5	19.2	- light medium grey, poorly laminated, hard, silty shale - trace of very fine grained pyrite				
19.2	24.6	- medium grey, moderate to well laminated,				

DRILL HOLE LOG

LOCATION:		HOLE No. 82-9	PAGE NO. 2
AZIM:	ELEV:	PROPERTY:	
DIP:	LENGTH:		
	CORE SIZE:	CLAIM NO	
STARTED:		SECTION	
COMPLETED:		LOGGED BY	
PURPOSE:		DATE LOGGED	
		DRILLING CO	
CORE RECOVERY:		ASSAYED BY	

DIP TEST

METERS	READING	CORRECT	METERS	READING	CORRECT

METERS FROM	METERS TO	DESCRIPTION	SAMPLE NO.	METERS FROM	METERS TO	LENGTH	ASSAYS Pb%	Zn%	Ag oz/ton
		slightly silty shale							
		- laminations are limy							
		- contains 3-10cm sections of laminated sphalerite in calcareous matrix							
		20.7-20.8 m ground core, 5% PbZn in siliceous laminations	036833	20.7	21.2	0.5	1.30	3.25	.37
			036834	21.2	22.4	1.2	.01	.04	.01
		32.57-30.72 m 3-4% laminated sphalerite in siliceous and calcareous laminated sections	036835	22.4	22.9	0.5	.06	1.82	.07
			036836	22.9	23.7	0.8	.01	.08	.04
		23.78-23.92 m 3-4% laminated sphalerite	036837	23.7	24.2	0.5	.32	2.54	.24
			036838	24.2	24.8	0.6	.01	.04	.02
24.6	26.0	- massive to poorly laminated, black, carbonaceous shale							
		- minor 1-2mm white siliceous laminations							
26.0	30.8	- black, laminated, muddy shale with rare 5-8cm beds of black silty mudstone							
		- 10-20% vol. white calcareous and siliceous laminations and 5-10cm quartz sweats, minor pyrite, pyrite oxide							
		26.8 m 5cm quartz sweat							
		27.7-27.8 quartz sweat							
		29.0-29.05 " "							
		29.0 m Z fold S_o 72°/120° S_1 31°/120°							
		31.5 m Z fold S_o 90°/120° S_1 25°/120°							
30.8	35.6	- well laminated, slightly calcareous, grey shale with silty shale beds							

DRILL HOLE LOG

HOLE NO. 82-9 | PAGE NO. 3

LOCATION:

AZIM: ELEV:

DIP: LENGTH:

CORE SIZE:

STARTED

COMPLETED

PURPOSE

CORE RECOVERY:

DIP TEST

METERS READING	CORRECT	METERS READING	CORRECT

PROPERTY:

CLAIM NO

SECTION

LOGGED BY

DATE LOGGED

DRILLING CO

ASSAYED BY

METERS FROM	METERS TO	DESCRIPTION	SAMPLE NO.	METERS FROM	METERS TO	ASSAYS LENGTH
		- abundant quartz veins at base of unit				
		34.1-34.6 quartz vein				
		34.9-35.6 quartz vein				
35.6	50.2	- dark grey-black, poorly laminated, carbonaceous shale				
		- rare siliceous 1-2mm laminations and 5-10cm quartz sweats				
		- minor pyrite, pyrite oxide				
		36.0-36.5 m quartz vein				
		36.8-37.0 m slightly siltier, light grey				
		41.0 Z fold S_o 48°/125° S_1 15°/120°				
		41.7 m quartz sweats				
		44.5 Z fold S_o 72°/120° S_1 33°/120°				
		45.6-45.8 m quartz sweats				
50.2	54.0	- well laminated slightly calcareous shaly mudstone				
		- laminations are 2-3mm 90% calcareous 10% siliceous, 50% laminations evenly spaced				
		51.0 Z fold S_o 70°/120° S_1 30°/120°				
54.0	69.9	- dark grey to black, poorly-moderately laminated, black mudstone and shaly mudstone				
		- more laminated sections contain laminated pyrite oxide and pyrite				
		- unit contains numerous quartz sweats and				

DRILL HOLE LOG

HOLE No. 82-9 | PAGE NO. 4

LOCATION:
AZIM.: ELEV:
DIP: LENGTH:
CORE SIZE:
STARTED
COMPLETED
PURPOSE
CORE RECOVERY:

DIP TEST

METERS	READING	CORRECT	METERS	READING	CORRECT

PROPERTY:
CLAIM NO:
SECTION:
LOGGED BY:
DATE LOGGED:
DRILLING CO:
ASSAYED BY:

FROM	TO	DESCRIPTION	SAMPLE NO.	METERS FROM	METERS TO	LENGTH	ASSAYS
		minor quartz healed shatters					
		54.0-54.2 m quartz vein					
		54.6-55.2 m " "					
		55.7-55.8 m " "					
		58.3 m - 5cm shatter zone					
		59.5-59.8 m shatter zone					
		63.5 m Z fold S_o 82°/120° S_1 34°/120°					
		64.2 m - 5cm shatter					
		66.4-66.8 m quartz vein					
		68.5-69.9 m quartz vein					
69.9	71.4	- light grey, massive silty mudstone					
		- abundant quartz veining					
		70.7-71.3 m quartz vein					
71.4	77.2	- well laminated calcareous, silty mudstone					
		- 50% of laminations are calcareous and medium grey					
		75.2-75.4 quartz vein					
		76.1 m Z fold S_o 69°/120° S_1 19°/120°					
77.2	84.8	- dark grey-black, finely laminated, shaly mudstone with minor light grey siliceous sections					
		81.0-81.4 m ground core					
		82.9-83.2 m siliceous zone					
		83.5 m Z fold S_o 72°/120° S_1 23°/120°					

DRILL HOLE LOG

LOCATION:

HOLE No. 82-9 | PAGE NO. 5

AZIM: | ELEV:

DIP: | LENGTH:

CORE SIZE:

STARTED:

COMPLETED:

PURPOSE:

CORE RECOVERY:

PROPERTY:

CLAIM NO:

SECTION:

LOGGED BY:

DATE LOGGED:

DRILLING CO:

ASSAYED BY:

DIP TEST

METERS	READING	CORRECT	METERS	READING	CORRECT

METERS FROM	METERS TO	DESCRIPTION	SAMPLE NO.	ASSAYS METERS FROM	ASSAYS METERS TO	ASSAYS LENGTH
84.8	102.0	- light medium grey, fairly massive, siliceous, silty mudstone - fairly homogenous - bottom 50cm-medium silty size - abundant ground core 85.2-85.4 quartz vein 94.3-99.2 m ground core 101.5-102.0 m medium to coarse grained siltstone				
102.0	110.9	- dark grey-black, poorly laminated shale/ shaly mudstone, fairly massive - rare siliceous laminations and quartz sweats and veins 102.0 S_o 70°/145° S_1 30°/120° 104.3-104.5 m quartz vein 108.0-108.4 m quartz sweats 104.4-109.6 m quartz sweats 109.5 Z fold S_o 72°/160° S_1 36°/120° 110.3-110.9 m quartz vein				
110.9	116.2	- light grey siliceous silty mudstone, poorly laminated at top, more massive at base - unit contains laminated liver sphalerite 111-111.3m minor 1mm laminations sphalerite 116.1-116.2 m quartz vein				

DRILL HOLE LOG

HOLE No. 82-9 | PAGE NO. 6

LOCATION:

AZIM: | ELEV:

DIP: | LENGTH:

CORE SIZE:

STARTED:

COMPLETED:

PURPOSE:

CORE RECOVERY:

DIP TEST

METERS	READING	CORRECT	METERS	READING	CORRECT

PROPERTY:

CLAIM NO:

SECTION:

LOGGED BY:

DATE LOGGED:

DRILLING CO:

ASSAYED BY:

METERS FROM	METERS TO	DESCRIPTION	SAMPLE NO.	METERS FROM	METERS TO	LENGTH	ASSAYS Pb%	Zn%	Ag oz/ton
116.2	131.5	- turbiditic unit							
		- poorly laminated, black shaly mudstone							
		coarsening down to poorly sorted muddy siltstone							
		- silty whisps and laminations throughout							
		- rare 2-3mm calcite laminations							
		- local well laminated sections							
		116.7 m Z fold S_o 57°/123° S_1 20°/120°							
		118.0 Beds 75°							
		119.75-120.5 m quartz vein							
		122.4-122.8 m quartz vein							
		132.0 m M fold S_o 70°/124° S_1 12°/120°							
		125.0-126.8 m well laminated							
		126.0 m Z fold S_o 60°/122° S_1 25°/120°							
		129.0-131.5 m silt increasing							
131.5	144.0	- well laminated mudstone and minor shale							
		- dark grey to black with local light grey siltier sections							
		- bedding is locally contorted							
		133.2 M fold S_o 68°/122° S_1 26°/120°							
		134.9-135.2 quartz sweats	036840	141.0	141.5	0.5	.19	.59	.40
		141.4-141.5 quartz sweat							
		143.2m S_o 88°/120° S_1 34°/120°							
		143.8-144.0 quartz vein							
144.0	144.8	- medium grey, shaly limestone beds 75°							

DRILL HOLE LOG

HOLE No. 82-9 | PAGE NO. 7

LOCATION:

AZIM: ELEV:

DIP: LENGTH:

CORE SIZE:

STARTED:

COMPLETED:

PURPOSE:

CORE RECOVERY

PROPERTY:

CLAIM NO:

SECTION:

LOGGED BY:

DATE LOGGED:

DRILLING CO:

ASSAYED BY:

DIP TEST

METERS	READING	CORRECT	METERS	READING	CORRECT

METERS FROM	TO	DESCRIPTION	SAMPLE NO	METERS FROM	TO	LENGTH	ASSAYS
144.8	163.9	- massive to poorly laminated black slightly calcareous mudstone - 5% 1-2mm white carbonate laminations - minor sphalerite 147.6 m S fold S_o 76°/120° S_1 26°/120°					

DRILL HOLE LOG

HOLE NO. DDH BULL 10 | PAGE NO. 1

LOCATION: 62+17W 14+75S

AZIM: 032° | ELEV: 1471.9 m
DIP: -50° | LENGTH: 218.8 m
CORE SIZE: BQ
STARTED:
COMPLETED:
PURPOSE:
CORE RECOVERY:

DIP TEST

METERS READING	CORRECT	METERS READING	CORRECT
106.1	-50°		
EOH	-48.5°		

PROPERTY: Bullion Creek
CLAIM NO:
SECTION:
LOGGED BY: V. Kuran & D. Kuran
DATE LOGGED: October 2, 1982
DRILLING CO: Arctic Diamond Drilling
ASSAYED BY: Acme

METERS FROM	METERS TO	DESCRIPTION	SAMPLE NO.	METERS FROM	METERS TO	LENGTH	ASSAYS Pb%	Zn%	Ag oz/ton
0	4.1	- overburden							
4.1	17.5	- dark grey siliceous porous mudstone - pervasive thin 1mm laminations - occasional rusty porous laminations - 4.3 - 4.5 m quartz vein - 4.6 - 4.65 m quartz vein - 17.0 m Z fold S_o 62°/120° S_1 20°/120°							
17.5	26.7	- light grey, siliceous, well laminated mudstone - laminations 1-3mm wide. slightly silty - 21.9 m fine pyritic laminations - 21.9 m Z fold - 25.5 m - 2mm laminations - disseminated sphalerite and galena - 26.6 m disseminated sphalerite in laminations S_o 70°/120° S_1 18°/120 - 22.2m Pb-Zn 3 2mm laminations - 23.9 m fine blebs of sphalerite in laminations - 26.6 m disseminated sphalerite in siliceous laminations	049951	21.7	22.7	.34	.48	.07
			049952	22.7	23.7	.09	.07	.01
			049953	23.7	25.7	.06	.13	.01
			049954	25.7	26.7	.15	.16	.01
			049955	26.7	27.7	.12	.22	.04
			049956	27.7	28.7	.03	.91	.01
			049957	28.8	29.7	.01	1.10	.01
26.7	33.3	- light grey, siliceous, well laminated mudstone - siliceous laminations up to 1cm wide - 26.2 m disseminated galena - 23.1 m 1cm lamination and 2mm lamination sphalerite in 1cm siliceous lamination - 29.0 - 29.1 m reddish brown sphalerite in							

DRILL HOLE LOG

LOCATION:		HOLE No.	PAGE NO.
		DDH BULL 10	2
AZIM: 032°	ELEV:	PROPERTY:	Bullion Creek
DIP: -50°	LENGTH:	CLAIM NO:	
	CORE SIZE:	SECTION:	
STARTED: Sept. 24/82		LOGGED BY:	V. Kuran & D. Kuran
COMPLETED:		DATE LOGGED:	Oct. 2/82
PURPOSE:		DRILLING CO:	Arctic
		ASSAYED BY:	Acme
CORE RECOVERY:			

DIP TEST

METERS	READING	CORRECT	METERS	READING	CORRECT

METERS FROM	METERS TO	DESCRIPTION	SAMPLE NO.	METERS FROM	METERS TO	LENGTH	ASSAYS Pb%	Zn%	Ag oz/ton
		2 lcm laminations parallel to pyrite laminations							
		- 28.0 m 4cm of disseminated sphalerite 27.3m							
		2 1mm laminations of red sphalerite 26.6 m							
		disseminated grains of red sphalerite in							
		30.0 m Z fold S_o 65°/120 S_1 40°/120°							
		31.4 m trace of sphalerite							
33.3	36.5	- light grey, silty, laminated mudstone							
		coarsening downwards, numerous quartz sweat							
		laminations							
36.5	37.4	- dark grey, siliceous, thinly laminated							
		mudstone, laminations are moderately frequent							
37.4	38.3	- grey, siliceous, pervasively laminated mudstone,							
		laminations are 1 to 2mm wide							
		38.0 m M fold S_o 85°/120 S_1 24°/120							
38.3	39.7	- dark grey, siliceous, fairly massive mud-							
		stone, faint infrequent laminations							
39.7	47.0	- light grey, siliceous, silty, well laminated	049958	44.1	45.1	1.0	.01	.13	.01
		mudstone							
		43.6 m Z fold S_o 58°/120 S_1 24°/120	049959	45.1	45.8	0.7	.07	16.40	.06
		44.5 m - 1mm laminated red sphalerite	049960	45.8	46.8	1.0	.21	.54	.05
		45.2 - 45.6 m red sphalerite blebs and	049961	46.8	47.8	1.0	.84	.93	.14
		laminations associated with quartz sweating							
		45.6 - 45.7 m honey sphalerite, massive							

DRILL HOLE LOG

LOCATION: L 62+25W 14+50S		HOLE No. BULL 82-10	PAGE NO. 3
AZIM: 032°	ELEV 1470 m	PROPERTY: Bullion Creek	
DIP: -50°	LENGTH 218.8 m	CLAIM NO:	
	CORE SIZE: BO	SECTION:	
STARTED: Sept. 24/82		LOGGED BY: V. Kuran & D. Kuran	
COMPLETED:		DATE LOGGED: Oct. 6/82	
PURPOSE:		DRILLING CO: Arctic	
		ASSAYED BY: Acme	
CORE RECOVERY:			

DIP TEST

METERS	READING	CORRECT	METERS	READING	CORRECT
106.1	-51°				
218.8	-48.5°				

METERS FROM	METERS TO	DESCRIPTION	SAMPLE NO.	METERS FROM	METERS TO	LENGTH	ASSAYS
		45.4 m 1mm lamination of red sphalerite					
		46.5 m 2 1mm laminations of galena					
		46.7 m 2 3mm laminations of red sphalerite					
47.0	47.2	- dull white quartz vein					
47.2	57.6	- dark grey, siliceous, silty, faintly laminated mudstone					
		48 m S_o 72°/90° S_1 21°/120°					
		48.1 - 48.6 m predominantly white bull quartz					
		57.5 m Z fold $S_o = S_1$ = 55°/120°					
		54.0 m 1mm sphalerite lamination					
57.6	60.4	- grey-black, less siliceous, faintly laminated mudstone					
60.4	65.2	- medium grey, fairly siliceous mudstone					
		- pervasively thinly laminated					
		- silty					
		63.2 m Z fold S_o 70°/90° S_1 22°/120°					
60.2	96.4	- light grey, massive, silty mudstone					
		- coarsening downwards					
		70.2 m 62° bedding					

DRILL HOLE LOG

LOCATION: 62+25W 14+50S

AZIM: 032° ELEV:

DIP: -50° LENGTH:

CORE SIZE:

STARTED: Sept. 24/82

COMPLETED:

PURPOSE:

CORE RECOVERY:

DIP TEST

METERS	READING	CORRECT	METERS	READING	CORRECT

HOLE No. DDH BULL 10 PAGE NO. 4

PROPERTY:

CLAIM NO:

SECTION:

LOGGED BY: V. Kuran & D. Kuran

DATE LOGGED: Oct. 2/82

DRILLING CO: Arctic

ASSAYED BY: Acme

METERS FROM	METERS TO	DESCRIPTION	SAMPLE NO.	METERS FROM	METERS TO	LENGTH	ASSAYS
		77.0 m 50° bedding					
		88.0 m 70° "					
		95.5 - 95.6 whitish pale green tuff magnetite.					
96.4	99.5	- light grey, thinly laminated, siliceous mudstone					
		96.8 Z fold S_o 85°/120° S_1 25°/120°					
99.5	102.5	- dark grey to black, siliceous, silty mudstone					
		- 1-3mm wide, pyritic, some 5cm wide quartz laminations					
		103.0 m Z fold S_o 70°/120° S_1 21°/120°					
105.2	108.0	- grey-black, siliceous, pervasely laminated mudstone					
108.0	112.6	- black, soft, massive mudstone, a few laminations 1-2mm wide					
		110.4 m M fold S_1 75°/120°					
112.6	114.1	- grey-black, silty, siliceous mudstone					
		- pervasively laminated					
114.1	130.4	- black mudstone					
		- siliceous laminations 1mm - 1cm wide					
		119.7 m M fold S_o 85°/120° S_1 45°/120°					

DRILL HOLE LOG

HOLE No.	PAGE NO.
DDH BULL 10	5

LOCATION: 62+25W 14+50S

AZIM: 032° ELEV:

DIP: -50° LENGTH:

CORE SIZE:

STARTED: Sept. 24/82

COMPLETED:

PURPOSE:

CORE RECOVERY:

DIP TEST

METERS	READING	CORRECT	METERS	READING	CORRECT

PROPERTY:

CLAIM NO

SECTION

LOGGED BY: V. Kuran & D. Kuran

DATE LOGGED: Oct. 2/82

DRILLING CO: Arctic

ASSAYED BY: Acme

METERS FROM	METERS TO	DESCRIPTION	SAMPLE NO.	METERS FROM	METERS TO	LENGTH	ASSAYS
d		125.8 m M fold S_o 85°/120° S_1 45°/120°					
		- minor blebs of pyrite elongated along foliation					
130.4	141.5	- grey, siliceous, silty mudstone					
		131.0 m Z fold S_o 79°/120 S_1 30°/120					
141.5	145.7	- black, soft mudstone - laminations are intermittent 143 m S fold S_o 52°/120 S_1 60°/120°					
		141.5 - 141.6 m graphitic section 142.5 - 142.6 m whitish pale green tuff (Fold repeat)					
145.7	145.9	- black, graphitic, soft shale					
145.9	151.0	- greyish-black, siliceous mudstone - laminations 2mm-1cm wide 149.9 m M fold S_o 70° 115° S_1 30°/120°					
151.0	151.5	- dark grey, siliceous, laminated shale					
151.5	153.2	- greyish-black, siliceous mudstone, well laminated					

DRILL HOLE LOG

LOCATION: 62+25W 14+50S		HOLE No. DDH BULL 10	PAGE NO. 6
AZIM: 032°	ELEV:	PROPERTY:	
DIP: -50°	LENGTH:		
	CORE SIZE:	CLAIM NO:	
STARTED: Sept. 24/82		SECTION	
COMPLETED:		LOGGED BY V. Kuran & D. Kuran	
PURPOSE:		DATE LOGGED: Oct. 3/82	
		DRILLING CO: Arctic	
CORE RECOVERY:		ASSAYED BY: Acme	

DIP TEST

METERS	READING	CORRECT	METERS	READING	CORRECT

METERS FROM	METERS TO	DESCRIPTION	SAMPLE NO.	METERS FROM	METERS TO	LENGTH	ASSAYS
		152.5-152.7 Quartz vein					
153.2	153.6	- black, dense, soft mudstone					
153.6	154.5	- black, siliceous, laminated mudstone					
154.5	156.3	- black, soft, massive mudstone 154.5 m - disseminated galena along 1mm siliceous lamination 155.8 m Z fold S_o 75°/120° S_1 45°/120°					
156.3	158.6	- pale greenish-grey, thinly laminated, moderately siliceous mudstone - becomes more coarsely laminated towards the bottom					
158.6	161.0	- dark grey - thinly laminated mudstone 160.9-161.0 m Qz vein 160.6 m scattered grains of galena in 3cm siliceous laminated					
161.0	218.8	- medium grey siliceous mudstone - particles are coarser towards the bottom - thin, siliceous, faint laminations 164.1 S_o 85°/120° S_1 65°/120° 170.0 M fold S_1 85°/120°					

DRILL HOLE LOG

LOCATION: 62+25W 14+50S

HOLE No. DDH BULL 10 | PAGE NO. 7

AZIM: 032° | ELEV:

DIP: -50° | LENGTH:

CORE SIZE:

STARTED Sept. 24/82

COMPLETED

PURPOSE:

CORE RECOVERY:

DIP TEST

METERS	READING	CORRECT	METERS	READING	CORRECT

PROPERTY:

CLAIM NO:

SECTION:

LOGGED BY: V. Kuran & D. Kuran

DATE LOGGED: Oct. 3/82

DRILLING CO: Arctic

ASSAYED BY: Acme

METERS FROM	METERS TO	DESCRIPTION	SAMPLE NO.	METERS FROM	METERS TO	LENGTH	ASSAYS Pb%	Zn%	Ag oz/ton
		183.0 S_0 70°/60° S_1 40°/120° looks like S fold							
		191.7 S fold S_0 76°/120° S_1 42°/120°							
		195.0 S_0 80°/120° S_1 48°/120°							
		200.4 Z fold S_0 70°/120° S_1 38°/120°							
		206.7 M fold S_1 53°/120°							
		316.6 M fold S_1 90°/120°							
		- 161-207 approximately 3% disseminated pyrite							
		- 207.0-218.8 wispy laminations of pygrhotite; minor disseminated pyrite							
		- 213.5 .5cm lamination of sphalerite	049962	213.3	213.8		2.67	.25	1.01
		- 213.6 2cm wide bleb of galena along a quartz sweat							
		- 213.75 3mm lamination sphalerite							

Bow 34
Bow 33
Bow 35
Bow 32
Bow 29
Bow 27
Bow 31
Bow 28
Bow 26
Bow 30
Bow 25
Bow 14
Bow 13
Bow 15
Bow 5
Bow 6
Bow 7
Bow 16
Bow 1
Bow 2
Bow 17
Bow 8
Bow 4
Bow 3
Bow 18
Bow 12
Bow 24
Bow 19
Bow 9
Bow 10
Bow 11
Bow 20
Bow 21
Bow 22
Bow 23

DINAH 16
DINAH 14
DINAH 12
DINAH 15
DINAH 13
DINAH 11
DINAH 4
DINAH 2
DINAH 3
DINAH 1

Andy 4
Andy 1
Dinah 3
Dinah 7
Dinah 9
Dinah 6
Dinah 8
Dinah 10

Rainbow 1
Rainbow 2
Rainbow 3

Rainbow Lakes

Kutcho Creek
Turnagain Creek
Faulkner Creek
Flat Creek
Wolverine Lake
Letain Creek

128° 45'
128° 30'
58° 30'
58° 25'
58° 20'

N

Scale 1:50,000

Meters 1000 500 0 1000 2000 3000 4000 Meters

GEOLOGICAL BRANCH
ASSESSMENT REPORT

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ELDORADO MINERALS & PETROLEUM CORP

BOW, DINAH, ANDY & RAINBOW
MINERAL CLAIMS
NTS 104 I-7E
BRITISH COLUMBIA

CLAIM LOCATION MAP

DRAWN	PROJECT	DATE	FIGURE
VK	BULLION CREEK	NOV 1982	2

128° 45'

128° 30'

58° 30'

58° 25'

58° 20'

N

Kutcho Creek

Turnagain Creek

Faulkner Creek

Flat Creek

Bullion Creek

Brick Creek

Wolverine Lake

UTub

DMs

Kqm

IEA

IJgd

UTK

IEAc

Area of Recent Drilling by Eldorado-BRX-Queenstake Joint Venture

UTST

MPv

Kqm

GEOLOGICAL BRANCH ASSESSMENT REPORT

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LEGEND

MID-CRETACEOUS

Kqm	Quartz monzonite, granite, granodiorite

LOWER JURASSIC

IJgd	Grandiorite

UPPER TRIASSIC

UTub	Peridotite, dunite, serpentinite
UTST	STUHINI FORMATION-augite and coarse-bladed plagioclase porphyry breccia and flows; local basal conglomerate, siltstone, greywacke
UTK	KUTCHO FORMATION dacitic breccia, tuff, dacitic to rhyolitic flows, chlorite schist, argillite, conglomerate quartz-feldspar sericite schist

MISSISSIPIAN TO PERMIAN

MPv	Basic volcanics

DEVONIAN TO MISSISSIPIAN

DMs	Limestone, shale, mudstone, minor quartz-mica schists

LOWER CAMBRIAN

IEA	Undivided micaceous quartzite, mica schist, minor crystaline limestone

SYMBOLS

Geological boundary, *approximate*

Drift boundary

Fault, approximate

ELDORADO MINERALS & PETROLEUM CORP

BOW & DINAH MINERAL CLAIMS

NTS 104I-7E

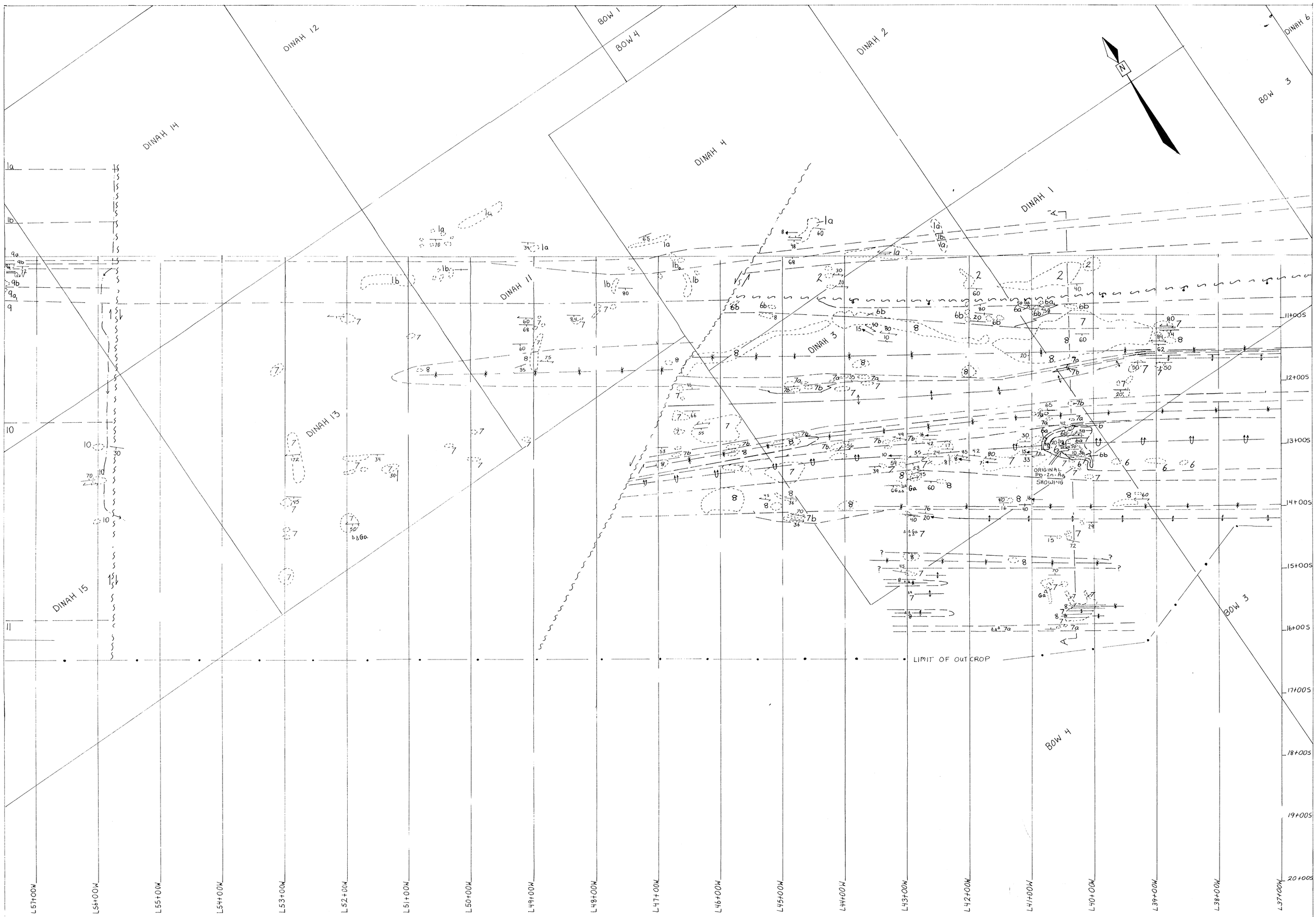
BRITISH COLUMBIA

REGIONAL GEOLOGY OF BULLION CREEK AREA

Scale 1:50,000

Meters 1000 500 0 1000 2000 3000 4000 Meters

DRAWN	PROJECT	DATE	FIGURE
VK	BULLION CREEK	NOV 1982	3



LEGEND

DEVONIAN

11 CHLORITE SCHIST - recessive to moderately resistant, pale green to grey weathering, fine grained, limy chlorite schist containing up to 3% magnetite; probably volcanic in origin.

10 MUDSTONE - resistant, grey weathering, siliceous, grey mudstone containing some interbeds of grey to rusty weathering black shale; the mudstone contains laminated galena and sphalerite.

9 SHALE - moderately resistant, grey to black platy weathering shale with interbeds of black mudstone.

- 9b SCHIST - rusty brown weathering quartz-muscovite schist.
- $9a_1$ LIMY SHALE - black platy weathering, limy black shale.

8 GRAPHITIC SHALE - recessive, rusty to black platy weathering, graphitic, black shale.

7 POROUS SILICEOUS MUDSTONE - resistant, grey to blue-grey weathering, porous, siliceous, black mudstone.

- 7a LIMESTONE - grey weathering, thin-bedded, grey limestone.
- 7b SCHIST - rusty to buff weathering quartz-muscovite schist.

6 MUDSTONE - resistant, grey weathering, siliceous, black to grey mudstone containing coarse grained galena in discontinuous pods.

- 6b LIMESTONE - grey weathering, thin-bedded, grey limestone.
- 6a LIMESTONE - grey to buff weathering, medium-bedded, silty limestone containing pods of sphalerite and galena and bedded sphalerite-galena up to 4cm wide.
- $6a_1$ MUDSTONE - resistant, grey weathering, grey mudstone containing thin laminations of fine grained galena.

2 SHALE - moderately resistant, blue-grey weathering black siliceous shale and minor interbeds of black siliceous mudstone.

LOWER CAMBRIAN
(Atan Formation)

- 1b$_a$ LIMESTONE - resistant, whitish-grey weathering massive light grey limestone.
- 1b LIMESTONE - moderately resistant, grey to black weathering grey limestone.
- 1a SCHIST - resistant, orange to grey brown weathering quartz-muscovite schist.

SYMBOL LIST

- Outcrop Pattern
- Bedding, inclined, vertical
- Foliation, inclined, vertical
- Contact, defined, approximate, inferred
- Fold Axis, 55
- Anticline
- Syncline
- Overturned Anticline
- Lateral Fault
- Vertical Fault, down thrown block indicated
- Float
- Creek
- Ga Galena
- Sp Sphalerite

GEOLOGICAL BRANCH ASSESSMENT REPORT

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SCALE

0 50 100 150 200m

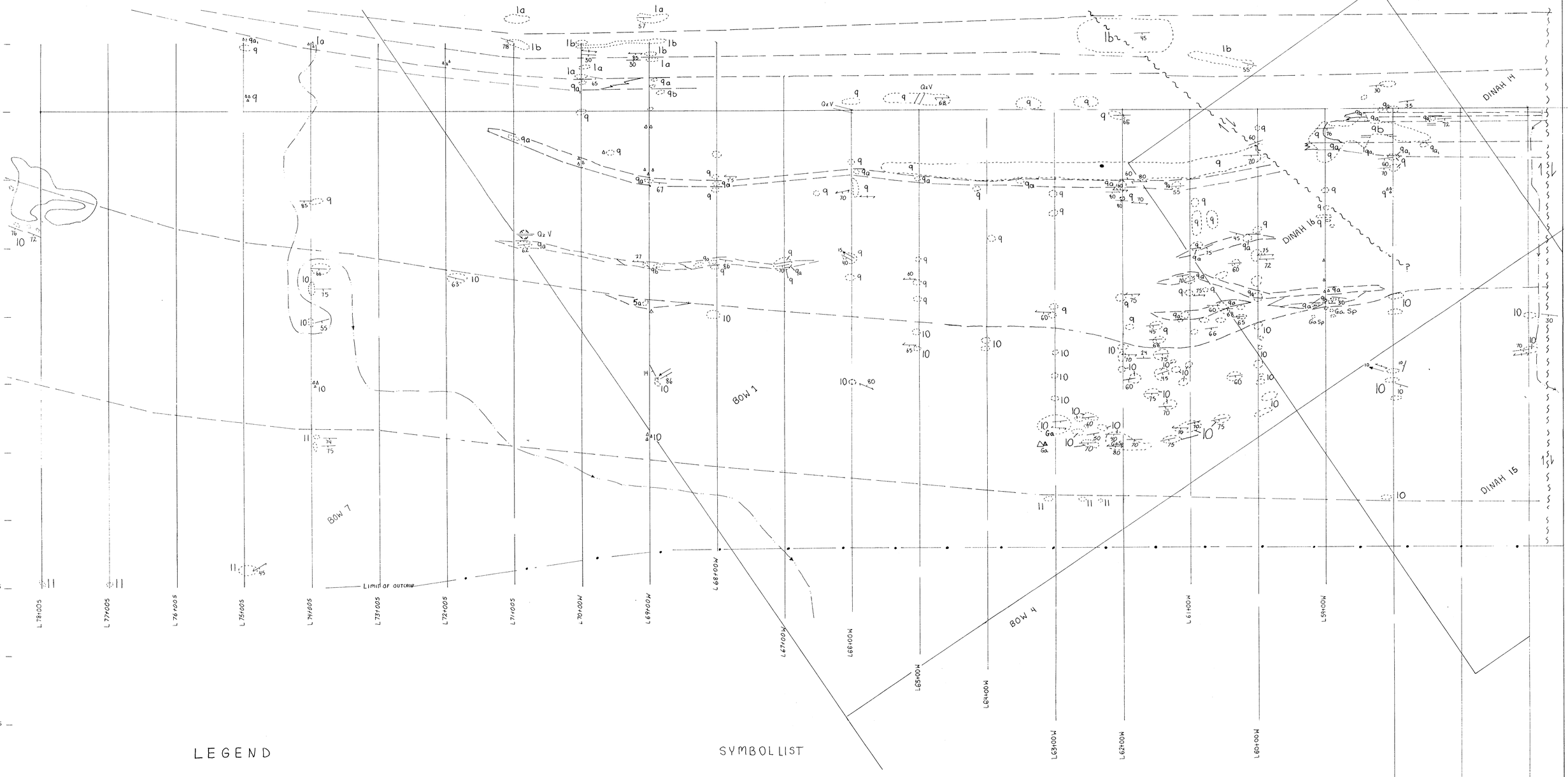
1:2500

ELDORADO MINERALS & PETROLEUM CORP.

BOW & DINAH MINERAL CLAIMS
NTS 104 I-7E
BRITISH COLUMBIA

PROPERTY GEOLOGY
EAST HALF

DRAWN	PROJECT	DATE	FIGURE
VK	BULLION CREEK	OCT. 1982	4



LEGEND

DEVONIAN

11 CHLORITE SCHIST - recessive to moderately resistant, pale green to grey weathering, fine grained, limy chlorite schist containing up to 3% magnetite; probably volcanic in origin

10 MUDSTONE - resistant, grey weathering, siliceous grey mudstone containing some interbeds of grey to rusty weathering black shale; the mudstone contains laminated galena and sphalerite

9 SHALE - moderately resistant, grey to black platy weathering shale with interbeds of black mudstone

- 9b SCHIST - rusty brown weathering quartz-muscovite schist
- 9a LIMESTONE - grey to black weathering, thin to medium-bedded, grey, fine grained limestone; contains minor laminated sphalerite
- 9a, LIMY SHALE - black platy weathering, limy, black shale

UNCONFORMITY

LOWER CAMBRIAN

ATAN FORMATION

1b LIMESTONE - recessive to moderately resistant, grey to black weathering, grey limestone

1a SCHIST - resistant, orange to grey-brown weathering quartz-muscovite schist

SCALE

0 50 100 150 200 metres

1:2500

SYMBOL LIST

- Outcrop
- Contact, Defined, Approximate
- Vertical Fault
- Lateral Fault
- Bedding, Inclined, Vertical
- Foliation, Inclined, Vertical
- Fold Axis
- Qz V — Quartz Vein
- Pit
- Creek
- Float
- Ga — Galena
- Sp — Sphalerite

GEOLOGICAL BRANCH ASSESSMENT REPORT

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ELDORADO MINERALS & PETROLEUM CORP.

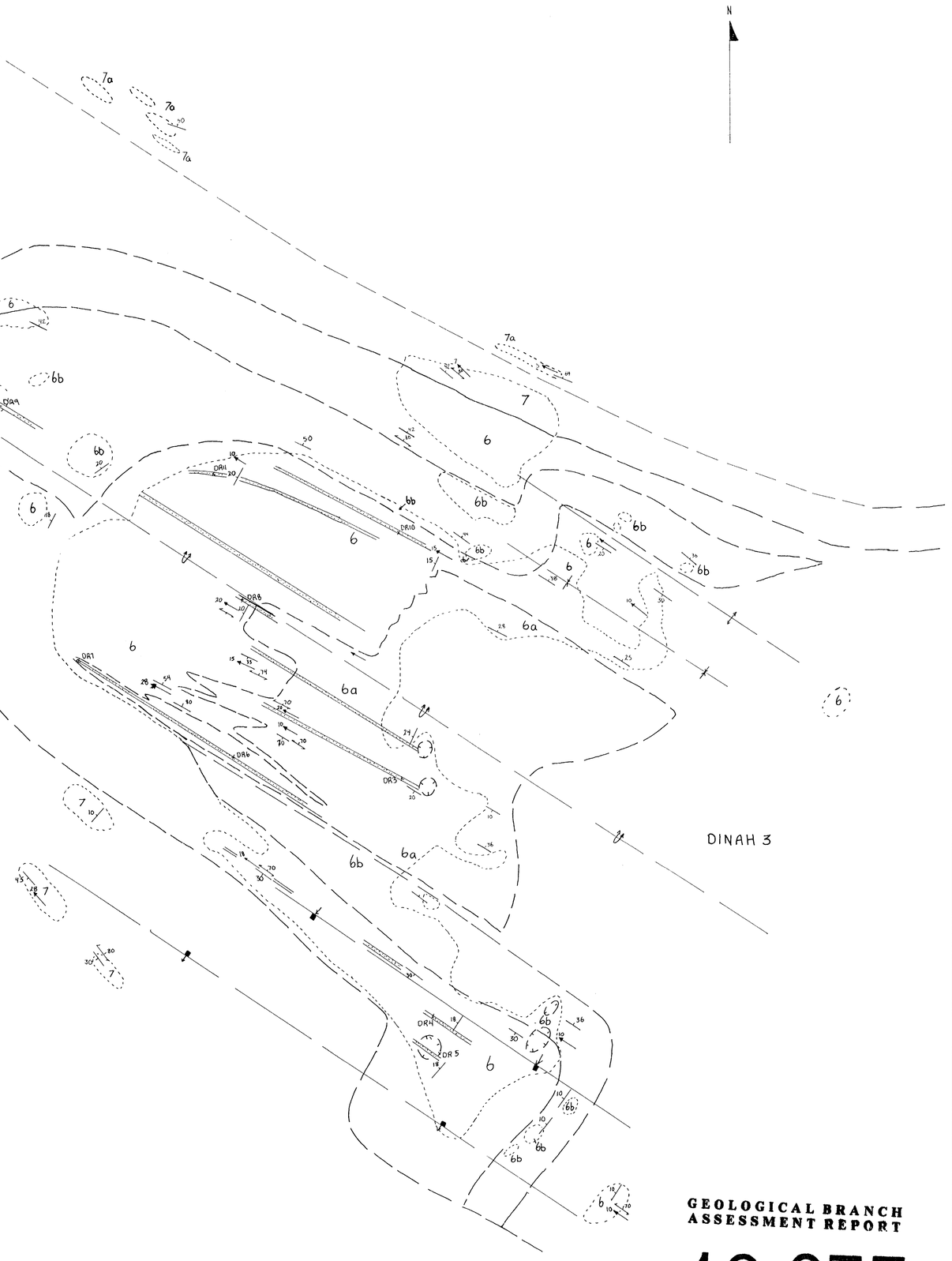
BOW & DINAH MINERAL CLAIMS

NTS 104 I-7E

BRITISH COLUMBIA

PROPERTY GEOLOGY WEST HALF

DRAWN	PROJECT	DATE	FIGURE
VK	BULLION CREEK	OCT 1982	5



LEGEND

7 POROUS SILICEOUS MUDSTONE - resistant, grey to blue-grey weathering, porous, siliceous, black mudstone.

7a LIMESTONE - grey weathering, thin-bedded grey limestone.

6 MUDSTONE - resistant, grey weathering, siliceous, black to grey mudstone containing coarse grained galena in discontinuous pods.

6b LIMESTONE - grey weathering, thin-bedded, grey limestone.

6a LIMESTONE - grey to buff weathering, medium-bedded, silty limestone containing pods of sphalerite and galena and bedded sphalerite-galena up to 4cm wide.

SYMBOL LIST

- Outcrop Pattern
- Contact, defined, approximate
- Bedding, inclined, vertical
- Foliation, inclined, vertical
- Lead-Zinc Mineralization
- Fold Axis, direction and amount of plunge
- Syncline
- Anticline
- Overturned Anticline
- Monocline Axis
- x DR3 Rock chip sample

Sample Number	Pb %	Zn %	Ag oz/ton
DR3	25.50	.03	3.25
DR4	1.29	7.90	1.07
DR5	20.60	.17	5.22
DR6	9.30	.11	1.22
DR7	1.32	.23	.81
DR8	2.68	.20	2.90
DR9	9.30	1.16	3.03
DR10	10.30	.10	5.01
DR11	8.58	.04	2.52

Scale
1:250

0 2.5 5.0 10.0 15.0 m

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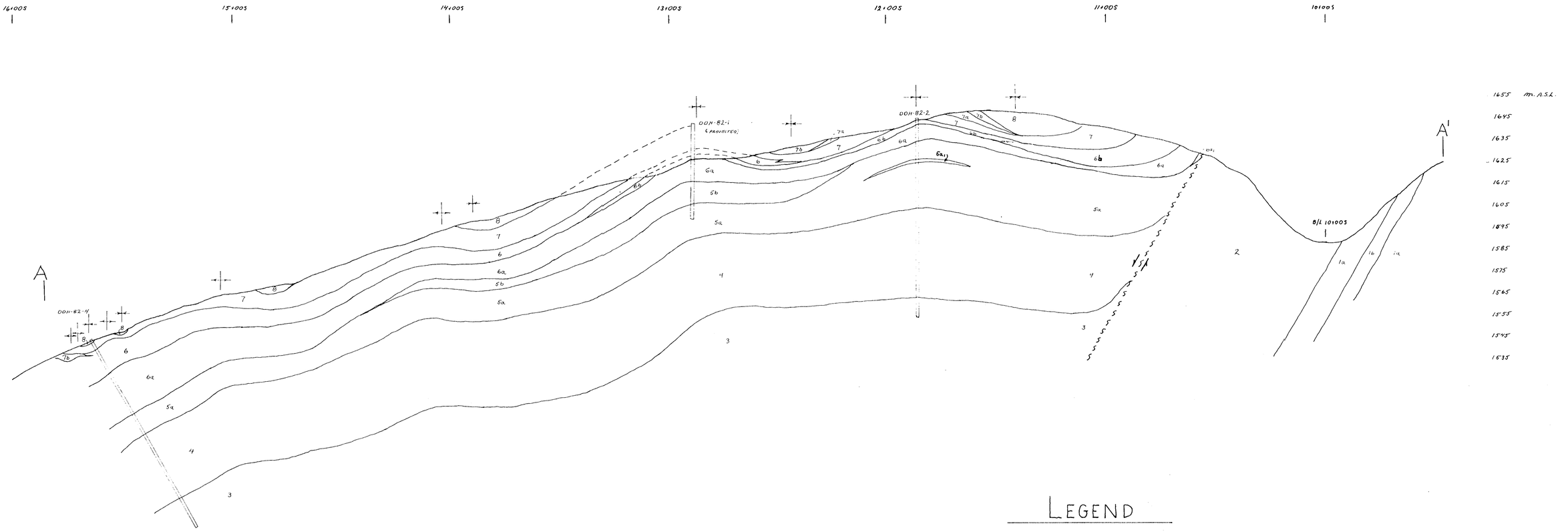
ELDORADO MINERALS AND PETROLEUM CORP

BOW & DINAH MINERAL CLAIMS
NTS 104I-7E
B.C.

GEOLOGY AND MINERALIZATION OF THE ORIGINAL LEAD-ZINC-SILVER BULLION CREEK SHOWING

DRAWN BY	PROJECT	DATE	FIG.
VK	BULLION CREEK	NOV 1982	6

CROSS SECTION
DDH-82-1,2,4.
(LOOKING NORTH WEST)



LEGEND

DEVONIAN	8	GRAPHITIC SHALE
	7	POROUS SILICEOUS MUDSTONE,
	7b	MINOR GREY LIMESTONE
	6	SILICEOUS SILTY MUDSTONE
	6b	GREY LIMESTONE
	6a	SILTY LIMESTONE, SILICEOUS MUDSTONE, MINOR MUSCOVITE SCHIST, LAMINATED Pb, Zn.
	6a,	LAMINATED SILICEOUS MUDSTONE, MINOR LAMINATED Pb.
	5b	QUARTZ-MUSCOVITE SCHIST, MINOR TURBIDITIC LENSES.
	5a	QUARTZ-MUSCOVITE CHLORITE SCHIST, VARIABLY CALCAREOUS 5a, MINOR LIMESTONE LENSES.
	4	BLACK GRAPHITIC SHALE
	3	GREEN TUABIDITE, POSSIBLY EPICLASTIC
	2	BLUE-GREY WEATHERING BLACK SILICEOUS SHALE.
UNCONFORMITY		
CAMBRIAN ATAN Fm.	1b	LIMESTONE
	1a	QUARTZ MUSCOVITE SCHIST, QUARTZ CHLORITE SCHIST

HORIZONTAL SCALE = VERTICAL SCALE
1:1000

SCALE
0 10 20 50 m

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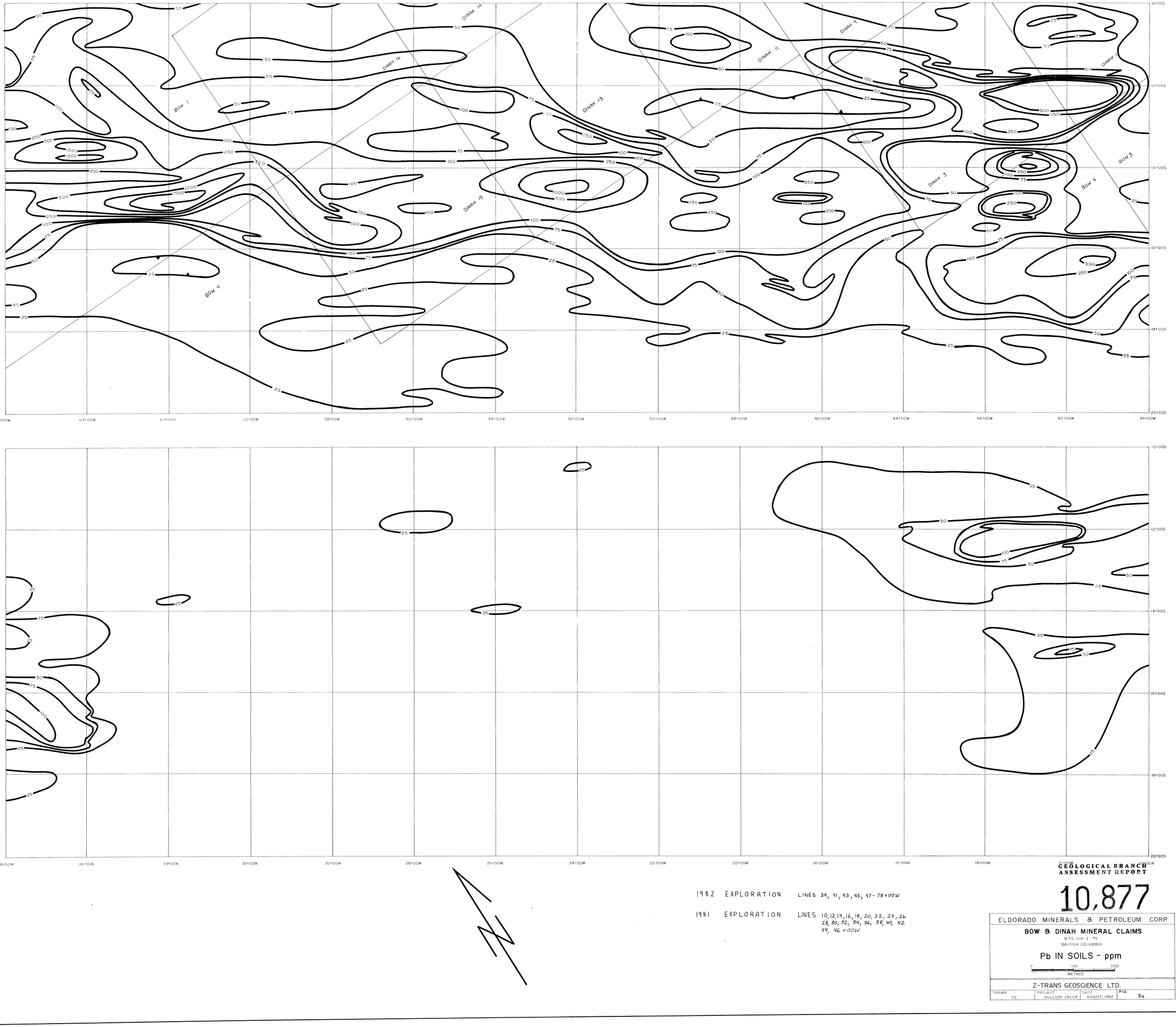
ELDORADO MINERALS AND PETROLEUM CORP.

BOW & DINAH MINERAL CLAIMS
NTS 104I-7E.
B.C.

GEOLOGICAL CROSS SECTION A-A'
DIAMOND DRILL HOLES 82-1, 82-2, 82-4.

DRAWN BY	PROJECT	DATE:	FIG
D.L.K.	BULLION CREEK	NOV. 1982	7



1982 EXPLORATION LINES 39, 41, 43, 45, 47 - 78+00W

1981 EXPLORATION LINES 10, 12, 14, 16, 18, 20, 22, 24, 26
28, 30, 32, 34, 36, 38, 40, 42
44, 46 +00W

GEOLOGICAL BRANCH
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ELDORADO MINERALS & PETROLEUM CORP.

BOW & DINAH MINERAL CLAIMS

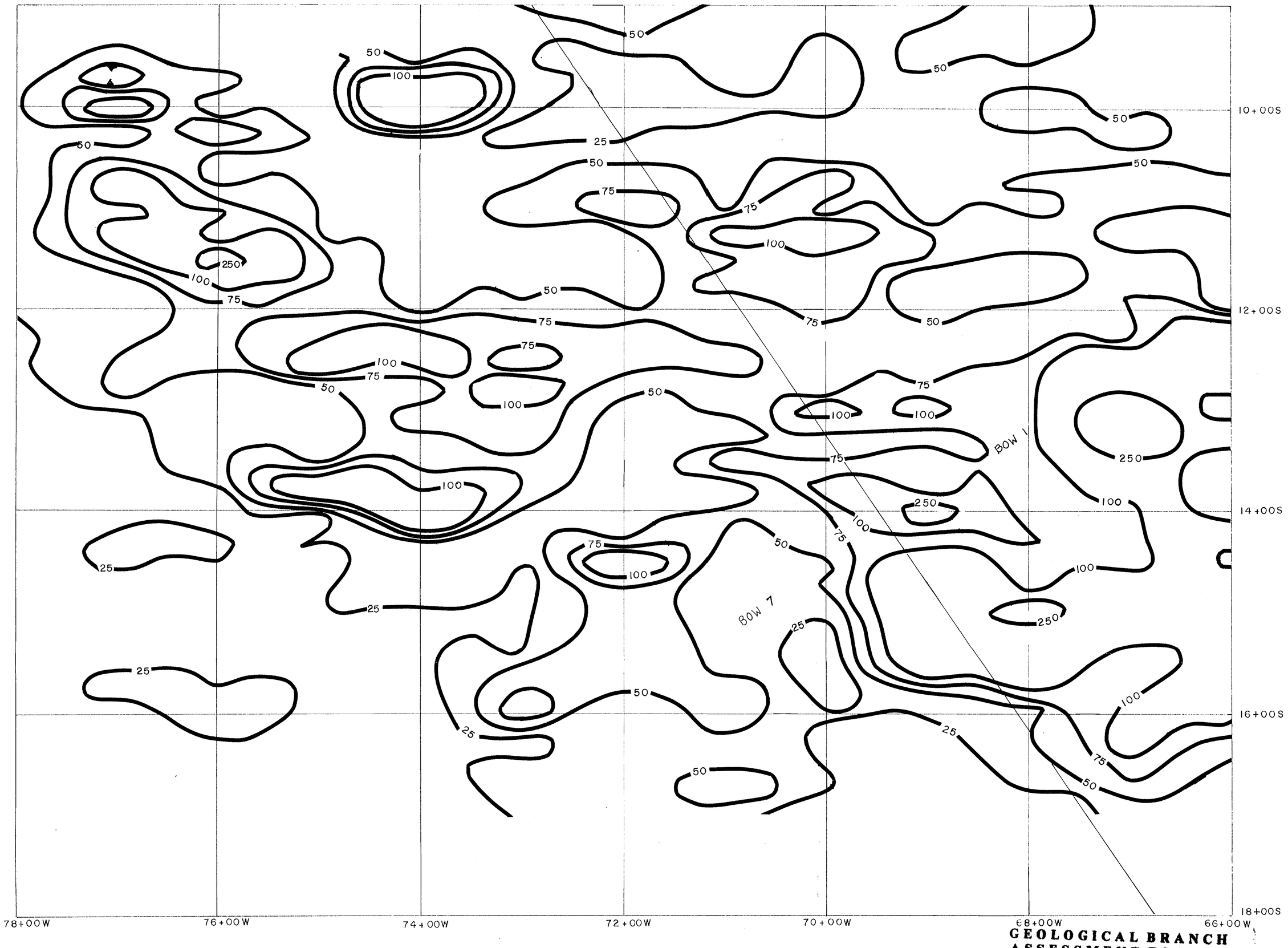
N.T.S. 104 - I - 7E
BRITISH COLUMBIA

Pb IN SOILS - ppm

0 100 200
METRES

Z-TRANS GEOSCIENCE LTD.

DRAWN	PROJECT	DATE	FIG.
FS	BULLION CREEK	AUGUST, 1982	3a



ELDORADO MINERALS & PETROLEUM CORP.

BOW & DINAH MINERAL CLAIMS

N.T.S. 104-1-7E

BRITISH COLUMBIA

Pb IN SOILS - ppm

0 100 200

METRES

CANDELL CONSULTING LTD.

DRAWN	PROJECT	DATE	FIG.
FS	BULLION CREEK	OCT., 1982	8b

DINAH 1H
DINAH 1b
DINAH 11
DINAH 4
DINAH 1
DINAH 13
DINAH 3
DINAH 15
BOW 3
BOW 4
BOW 1
BOW 4

10+00S
12+00S
14+00S
16+00S
18+00S
20+00S

66+00W 64+00W 62+00W 60+00W 58+00W 56+00W 54+00W 52+00W 50+00W 48+00W 46+00W 44+00W 42+00W 40+00W 38+00W

38+00W 36+00W 34+00W 32+00W 30+00W 28+00W 26+00W 24+00W 22+00W 20+00W 18+00W 16+00W 14+00W 12+00W 10+00W

1982 EXPLORATION LINES 39, 41, 43, 45, 47-78+00W

1981 EXPLORATION LINES 10,12,14,16,18,20,22, 24, 26 28, 30, 32, 34, 36, 38, 40, 42 44, 46+00W

GEOLOGICAL BRANCH
ASSESSMENT REPORT

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ELDORADO MINERALS & PETROLEUM CORP.

BOW & DINAH MINERAL CLAIMS

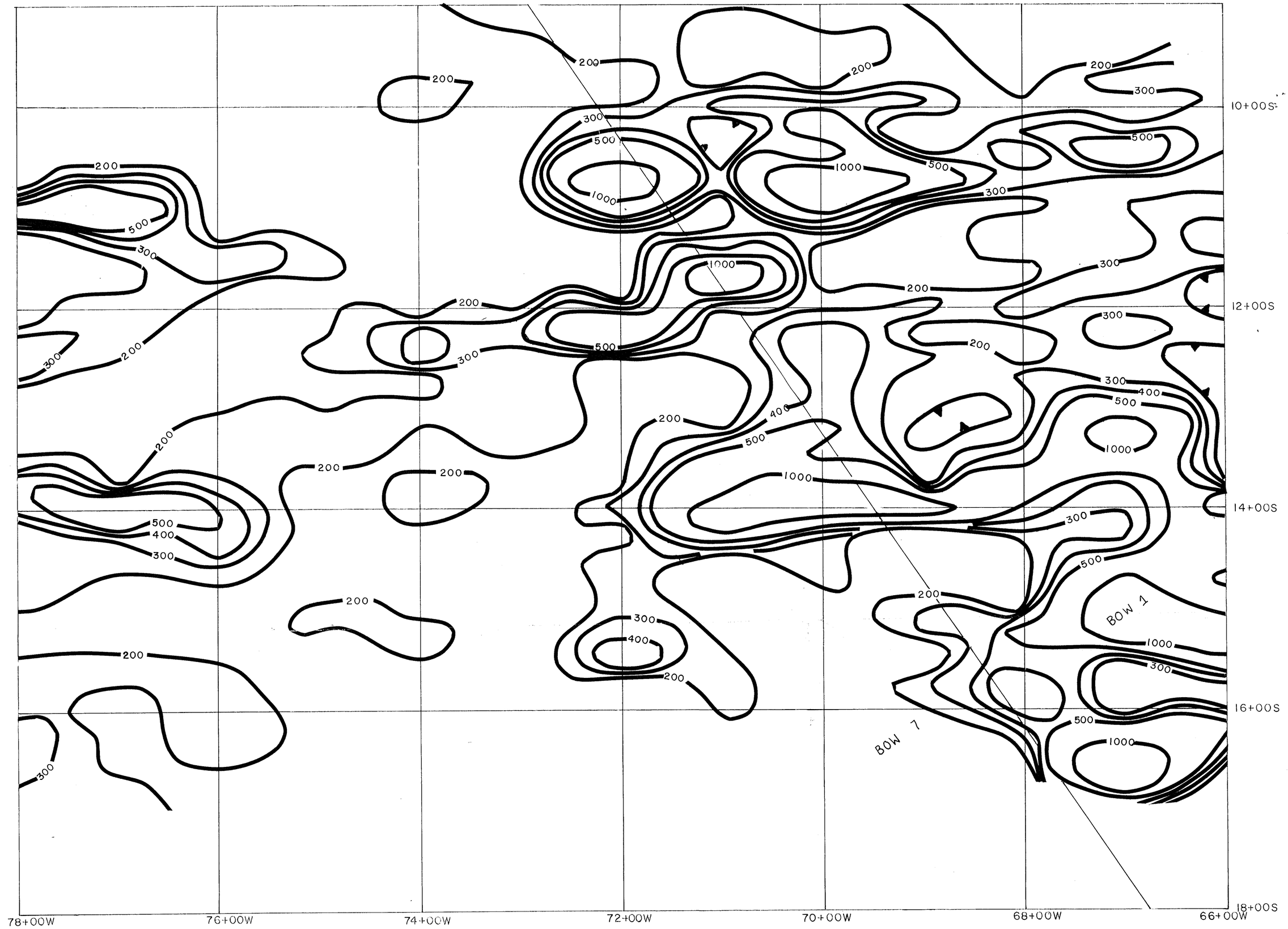
N.T.S. 104-I-7E
BRITISH COLUMBIA

Zn IN SOILS - ppm

0 100 200
METRES

Z-TRANS GEOSCIENCE LTD.

DRAWN	PROJECT	DATE	FIG.
FS	BULLION CREEK	AUGUST, 1982	9a



N

GEOLOGICAL BRANCH
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ELDORADO MINERALS & PETROLEUM CORP.

BOW & DINAH MINERAL CLAIMS

N.T.S. 104-1-7E
BRITISH COLUMBIA

Zn IN SOILS - ppm

0 100 200
METRES

CANDELL CONSULTING LTD.

DRAWN	PROJECT	DATE	FIG
FS	BULLION CREEK	OCT., 1982	9b

DINAH 11

DINAH 16

DINAH 13

DINAH 15

DINAH 11

DINAH 4

DINAH 1

DINAH 3

BOW 1

BOW 4

BOW 4

BOW 4

BOW 3

BOW 4

10+00S
12+00S
14+00S
16+00S
18+00S
20+00S

66+00W
64+00W
62+00W
60+00W
58+00W
56+00W
54+00W
52+00W
50+00W
48+00W
46+00W
44+00W
42+00W
40+00W
38+00W

38+00W
36+00W
34+00W
32+00W
30+00W
28+00W
26+00W
24+00W
22+00W
20+00W
18+00W
16+00W
14+00W
10+00W

1982 EXPLORATION LINES 39, 41, 43, 45, 47-78+00W

1981 EXPLORATION LINES 10, 12, 14, 16, 18, 20, 22, 24, 26
28, 30, 32, 34, 36, 38, 40, 42
44, 46+00W

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ELDORADO MINERALS & PETROLEUM CORP.

BOW & DINAH MINERAL CLAIMS

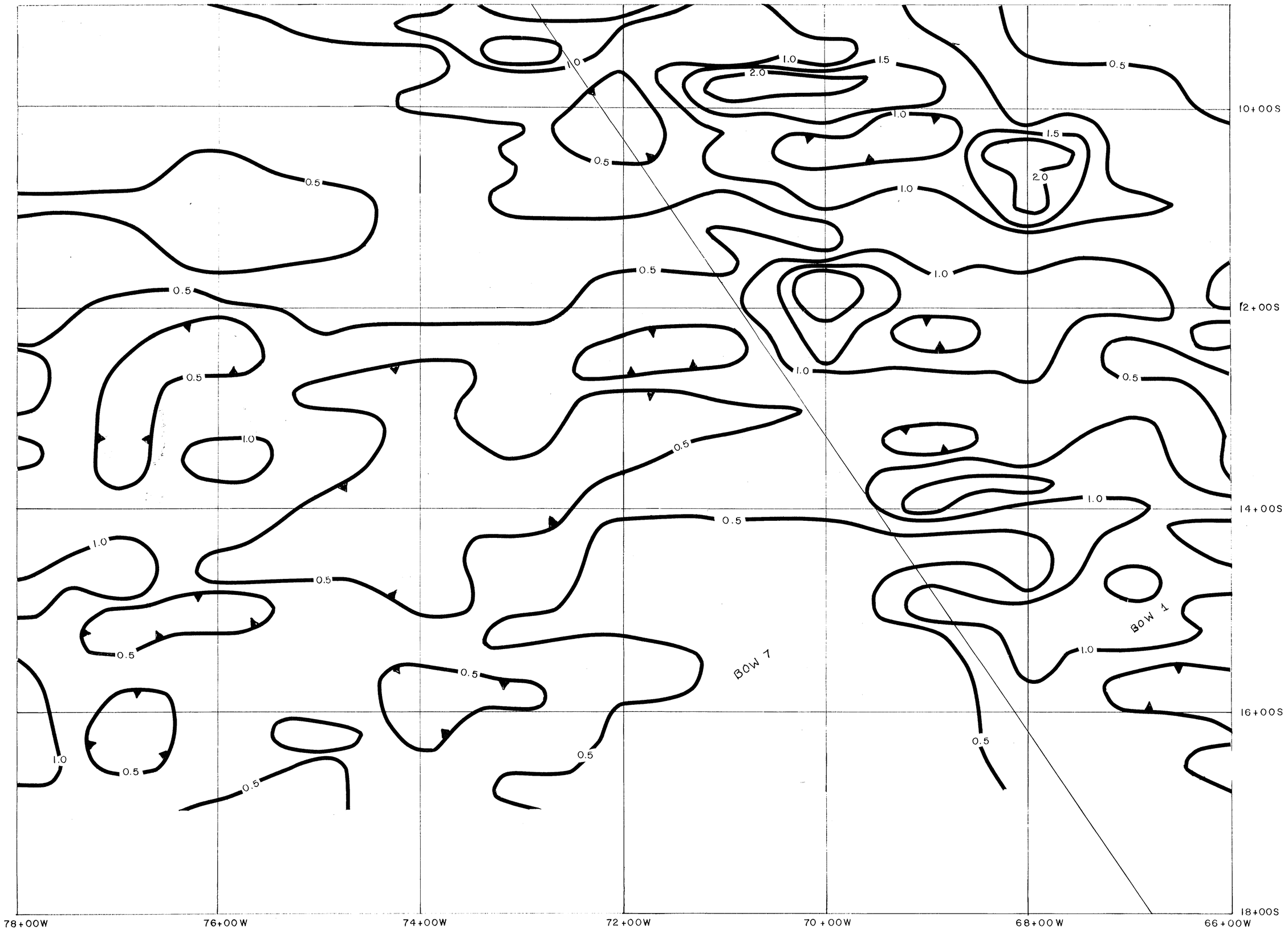
N.T.S. 104-I-7E
BRITISH COLUMBIA

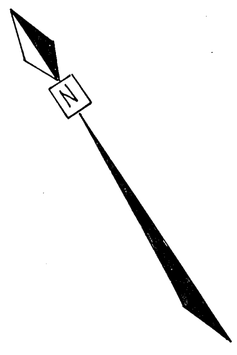
Ag IN SOILS - ppm

0 100 200
METRES

Z-TRANS GEOSCIENCE LTD.

DRAWN	PROJECT	DATE	FIG
FS	BULLION CREEK	AUGUST, 1982	10a





GEOLOGICAL BRANCH
ASSESSMENT REPORT

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ELDORADO MINERALS & PETROLEUM CORP.

BOW & DINAH MINERAL CLAIMS

N.T.S. 104 - 1 - 7E
BRITISH COLUMBIA

Ag IN SOILS - ppm

0 100 200
METRES

CANDELL CONSULTING LTD.

DRAWN	PROJECT	DATE	FIG
FS	BULLION CREEK	OCT., 1982	10b

GEOLOGICAL BRANCH
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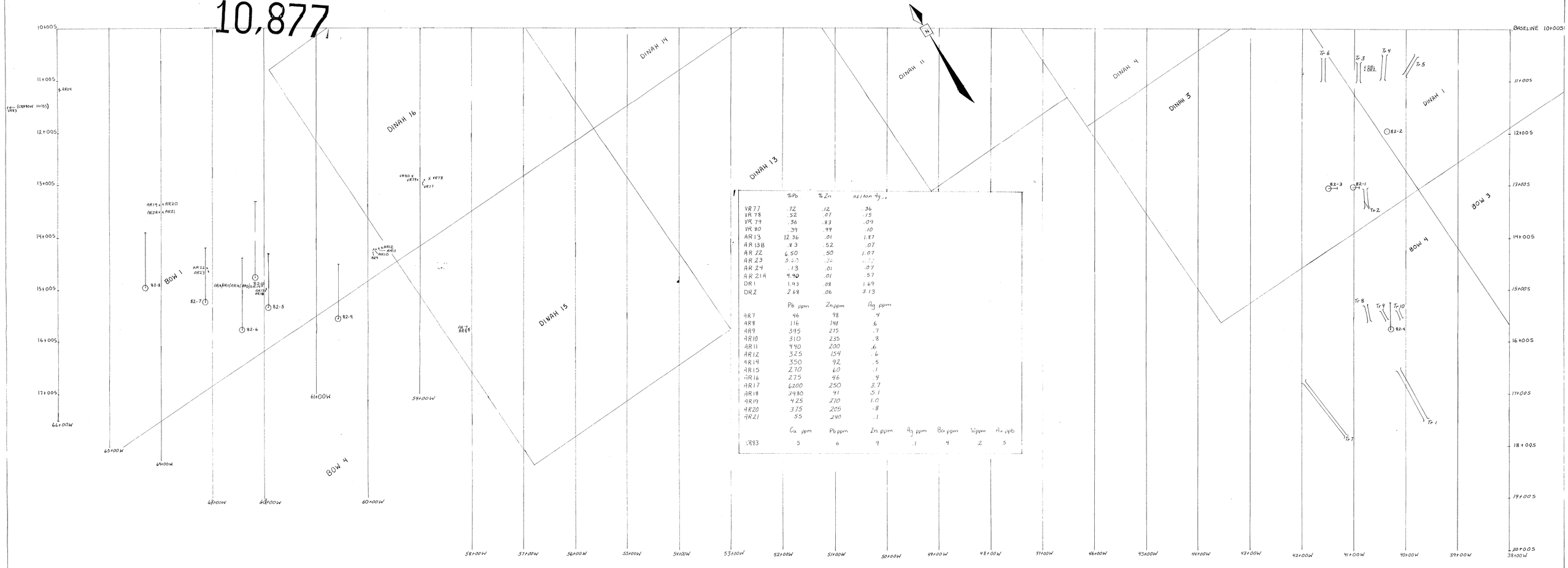


	%Pb	%Zn	oz/ton Ag
VR77	.72	.12	.36
VR78	.52	.07	.15
VR79	.36	.83	.09
VR80	.39	.99	.10
AR13	12.36	.01	1.87
AR13B	.83	.52	.07
AR22	6.50	.50	1.07
AR23	5.60	.32	.92
AR24	.13	.01	.07
AR21A	4.90	.01	.57
DR1	1.93	.08	1.69
DR2	2.68	.06	3.13

	Pb ppm	Zn ppm	Ag ppm
AR7	96	98	.4
AR8	116	148	.6
AR9	395	275	.7
AR10	310	235	.8
AR11	440	200	.6
AR12	325	154	.6
AR14	350	92	.5
AR15	270	60	.1
AR16	275	46	.4
AR17	6200	250	3.7
AR18	3980	91	5.1
AR19	425	270	1.0
AR20	375	205	.8
AR21	55	240	.1

	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ba ppm	W ppm	Au ppb
VR83	5	6	9	.1	4	2	5

SYMBOL LIST
- 82-6 ⊙— DIAMOND DRILL HOLE
- Tr 1 — TRENCH
- VR20 — Rock Sample

SCALE
0 50 100 150 200 m
1:2500

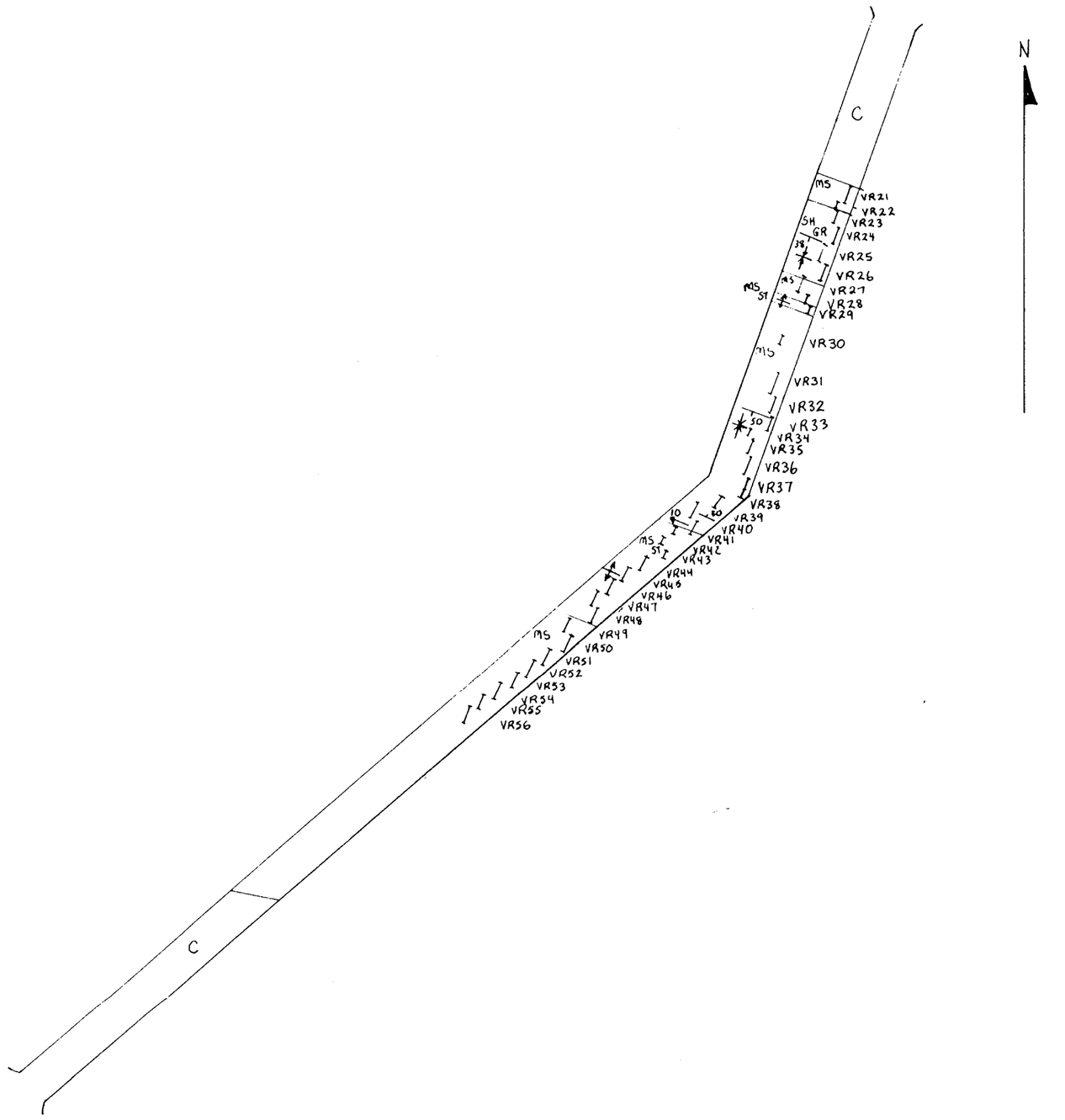
ELDORADO MINERALS & PETROLEUM CORP

BOW & DINAH MINERAL CLAIMS
NTS 104 I-7E
BRITISH COLUMBIA

LOCATION MAP FOR TRENCHES 1-10
AND DIAMOND DRILL HOLES 1-10
ROCK GEOCHEMISTRY

DRAWN	PROJECT	DATE	FIGURE
VK	BULLION CREEK	NOV 1982	11

Sample Number	Pb ppm	Zn ppm	Ag ppm
VR21	45	366	.6
VR22	39	380	.8
VR23	50	382	.5
VR24	112	342	1.5
VR25	86	245	1.0
VR26	120	338	.6
VR27	244	286	1.3
VR28	74	295	.4
VR29	26	200	.4
VR30	39	56	.2
VR31	4850	158	2.0
VR32	285	100	.2
VR33	410	60	.2
VR34	375	550	.5
VR35	675	325	.4
VR36	550	472	.1
VR37	470	210	.6
VR38	1060	152	.9
VR39	1290	110	1.1
VR40	450	193	.5
VR41	500	44	.1
VR42	250	196	.1
VR43	1380	136	1.9
VR44	250	130	.4
VR45	1200	85	.5
VR46	1560	330	.9
VR47	645	204	.2
VR48	220	110	.2
VR49	275	248	.3
VR50	265	340	.4
VR51	320	806	.6
VR52	350	325	.5
VR53	270	1000	.3
VR54	90	100	.1
VR55	180	150	.3
VR56	90	82	.3



Symbol List

C	cover
MS	blocky, black weathering, siliceous, porous mudstone
SH_{GR}	grey-brown, silty, graphitic, soft shale; contains fine pyrite
MS_{ST}	blue grey weathering, silty, laminated mudstone
VR21	rock chip sample
50/	bedding, inclined
/10	fold axis
	anticline
	syncline

GEOLOGICAL BRANCH
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SCALE

0 10 20 30 40 m

1:500

ELDORADO MINERALS & PETROLEUM CORP

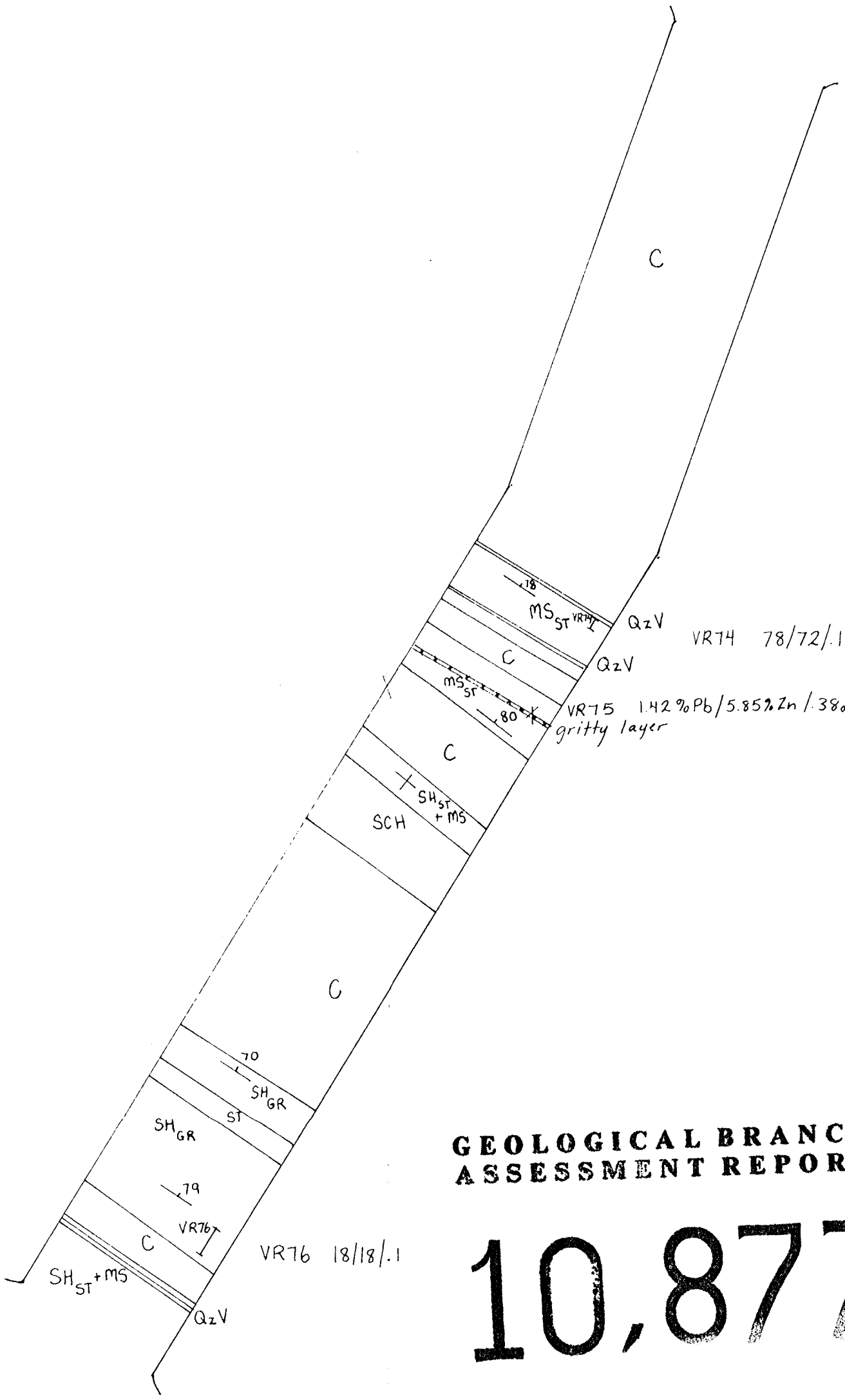
BOW & DINAH MINERAL CLAIMS

NTS 104I - 7E

BRITISH COLUMBIA

TRENCH 1

DRAWN	PROJECT	DATE	FIG.
VK	BULLION CREEK	NOV. 1982	12



Symbol List

MS_{ST}	Light grey weathering siliceous siltstone
SCH	Grey to buff weathering chlorite-muscovite schist
SH_{ST} + MS	Black weathering soft silty shale and mudstone
SH_{GR}	Orange to black weathering graphitic shale
ST	Siltstone
C	cover
70/ +	bedding, inclined, horizontal
VR30	rock chip sample
QzV	quartz vein
18/18/.1	ppm Pb / ppm Zn / ppm Ag
/	contact
X VR75	rock grab sample

SCALE

0 10 20 30 40m

1:500

ELDORADO MINERALS & PETROLEUM CORP

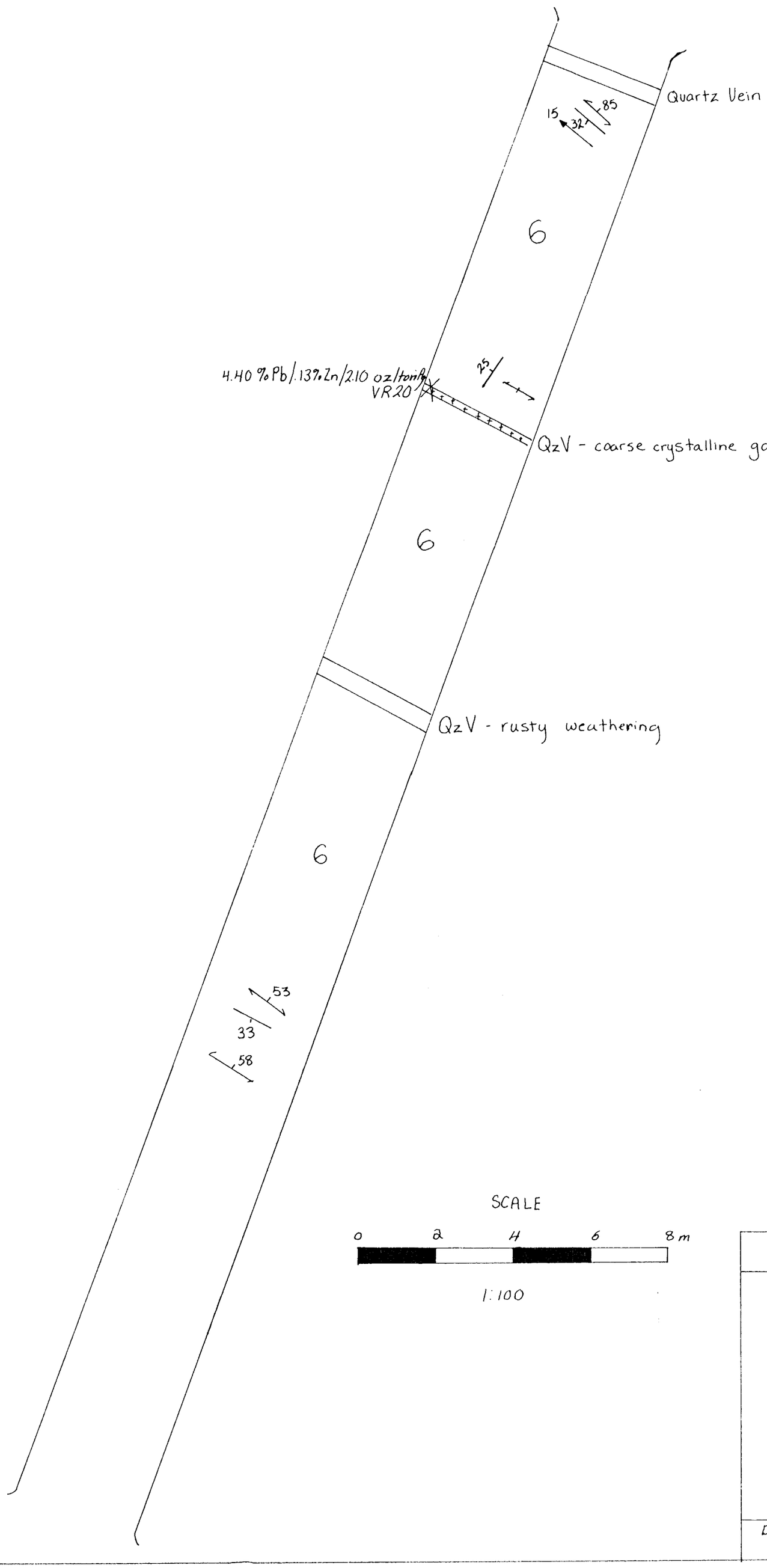
BOW & DINAH MINERAL CLAIMS

NTS 104 I - 7E

BRITISH COLUMBIA

TRENCH 7

DRAWN	PROJECT	DATE	FIG.
VK	BULLION CREEK	NOV 1982	13



N

SYMBOL LIST

6	grey to black weathering siliceous laminated mudstone
32	bedding, inclined
85	foliation, inclined, vertical
	fold axis
xxx	lead mineralization
QzV	quartz vein
X VR20	rock grab sample

SCALE

0 2 4 6 8 m

1:100

GEOLOGICAL BRANCH
ASSESSMENT REPORT

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ELDORADO MINERALS & PETROLEUM CORP

BOW & DINAH MINERAL CLAIMS

NTS 104 I-7E

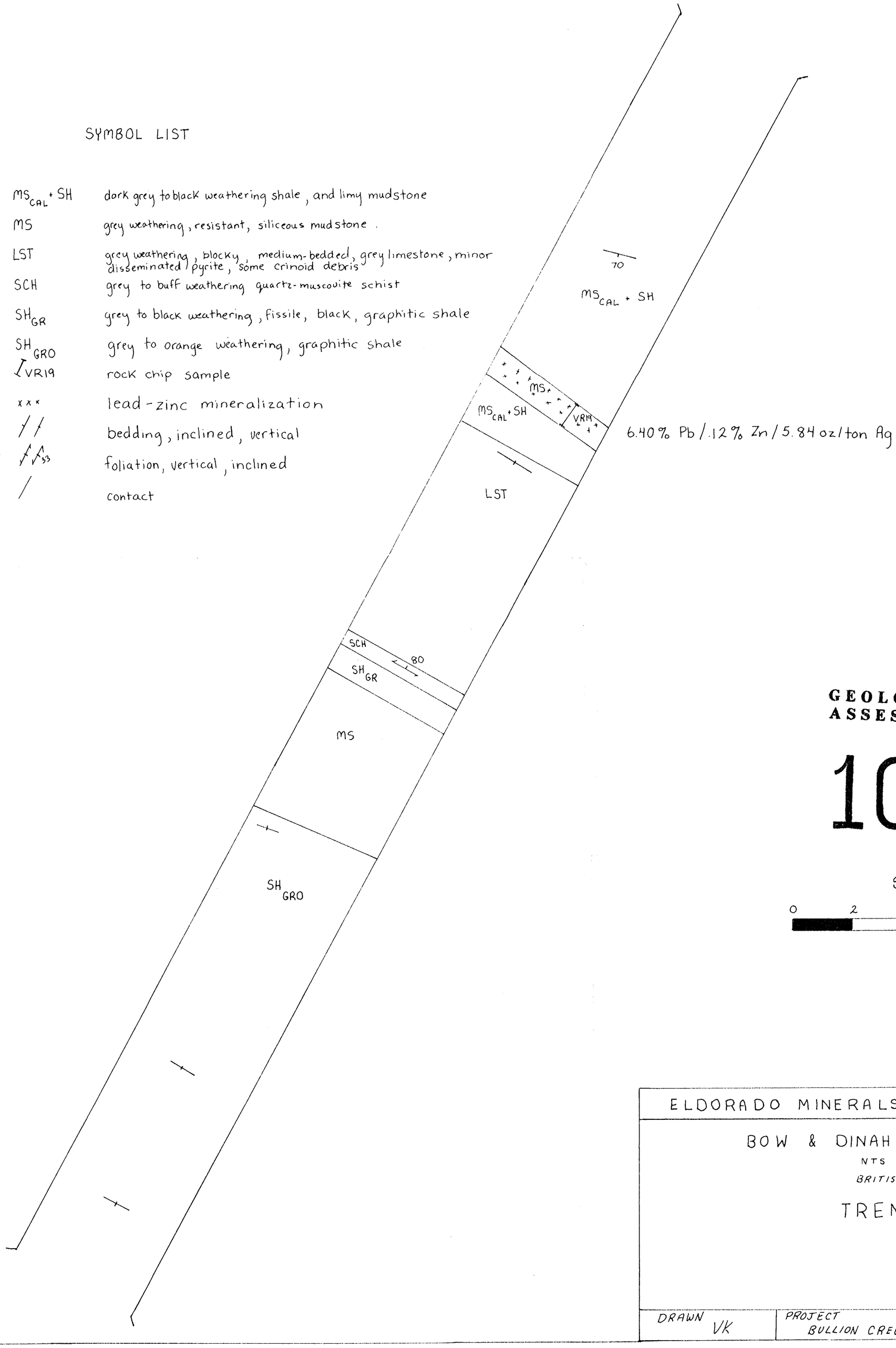
BRITISH COLUMBIA

TRENCH 2

DRAWN	PROJECT	DATE	FIG.
VK	BULLION CREEK	NOV 1982	14

SYMBOL LIST

MS_{CAL} + SH	dark grey to black weathering shale, and limy mudstone
MS	grey weathering, resistant, siliceous mudstone.
LST	grey weathering, blocky, medium-bedded, grey limestone, minor disseminated pyrite, some crinoid debris
SCH	grey to buff weathering quartz-muscovite schist
SH_{GR}	grey to black weathering, fissile, black, graphitic shale
SH_{GRO}	grey to orange weathering, graphitic shale
VR19	rock chip sample
xxx	lead-zinc mineralization
	bedding, inclined, vertical
	foliation, vertical, inclined
	contact



GEOLOGICAL BRANCH ASSESSMENT REPORT

10,877

SCALE

0 2 4 6 8m

1:100

ELDORADO MINERALS & PETROLEUM CORP

BOW & DINAH MINERAL CLAIMS

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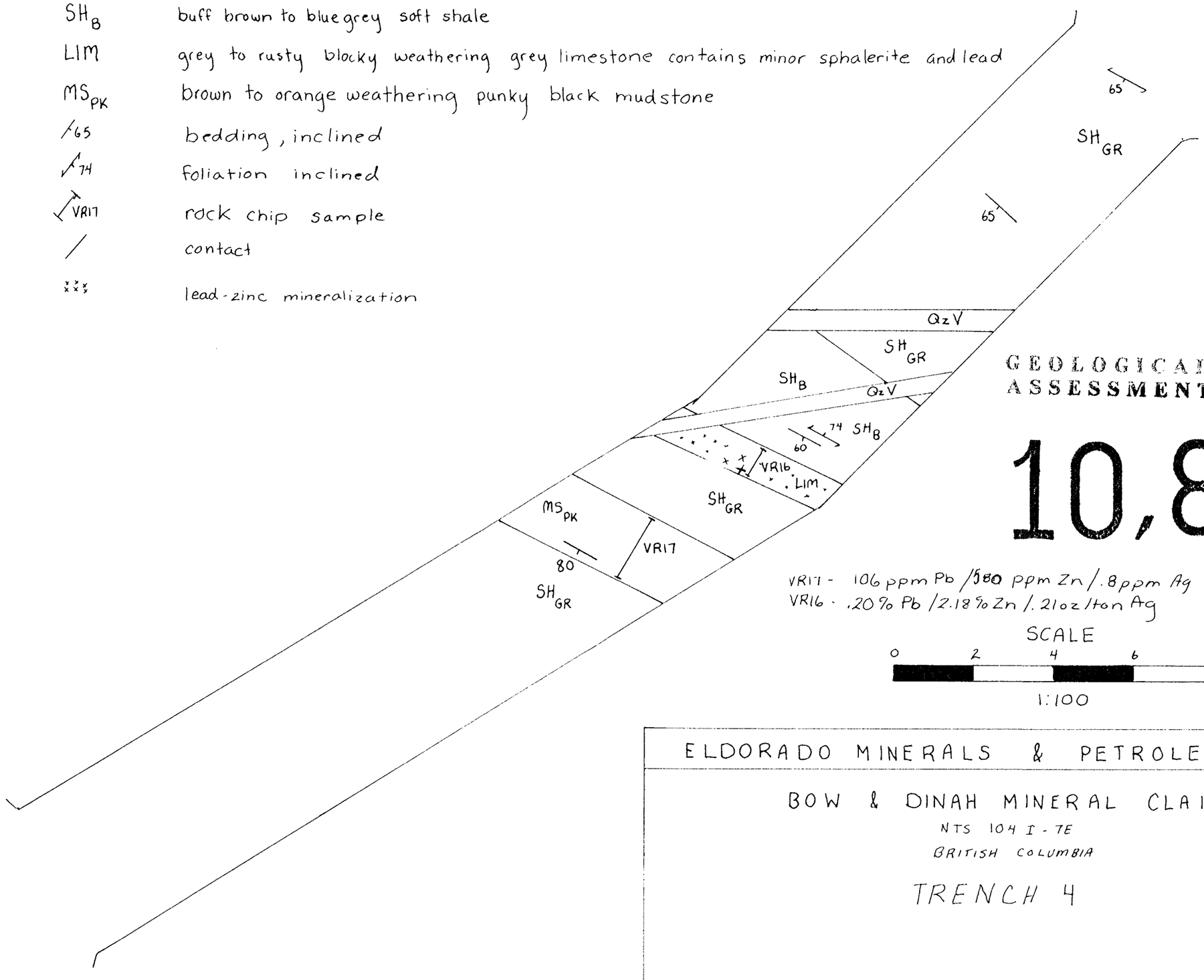
TRENCH 3

DRAWN	PROJECT	DATE	FIG.
VK	BULLION CREEK	NOV 1982	15

Symbol List

SH_{GR}	grey to buff brown weathering, graphitic, fissile shale
QzV	quartz vein
SH_B	buff brown to blue grey soft shale
LIM	grey to rusty blocky weathering grey limestone contains minor sphalerite and lead
MS_{PK}	brown to orange weathering punky black mudstone
/65	bedding, inclined
/74	foliation inclined
VR17	rock chip sample
/	contact
xxx	lead-zinc mineralization



VR17 - 106 ppm Pb / 580 ppm Zn / .8 ppm Ag
VR16 - .20% Pb / 2.18% Zn / .21 oz/ton Ag

SCALE
0 2 4 6 8m
1:100

GEOLOGICAL BRANCH
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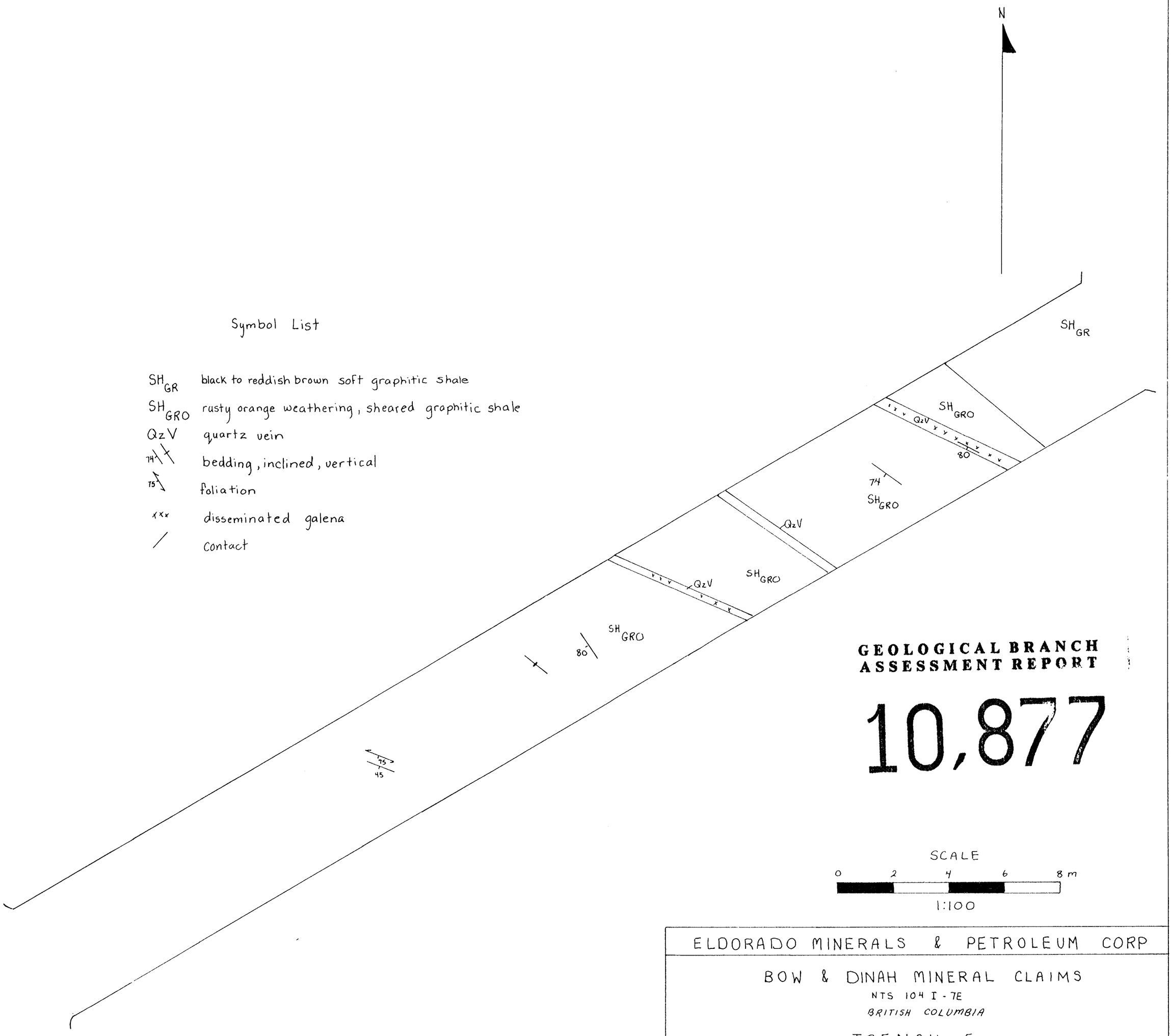
TRENCH 4

DRAWN	PROJECT	DATE	FIG.
VK	BULLION CREEK	NOV 1982	16

Symbol List

SH_{GR}	black to reddish brown soft graphitic shale
SH_{GRO}	rusty orange weathering, sheared graphitic shale
QzV	quartz vein
74	bedding, inclined, vertical
75	foliation
xxx	disseminated galena
/	contact



GEOLOGICAL BRANCH
ASSESSMENT REPORT

10,877

SCALE
0 2 4 6 8 m
1:100

ELDORADO MINERALS & PETROLEUM CORP

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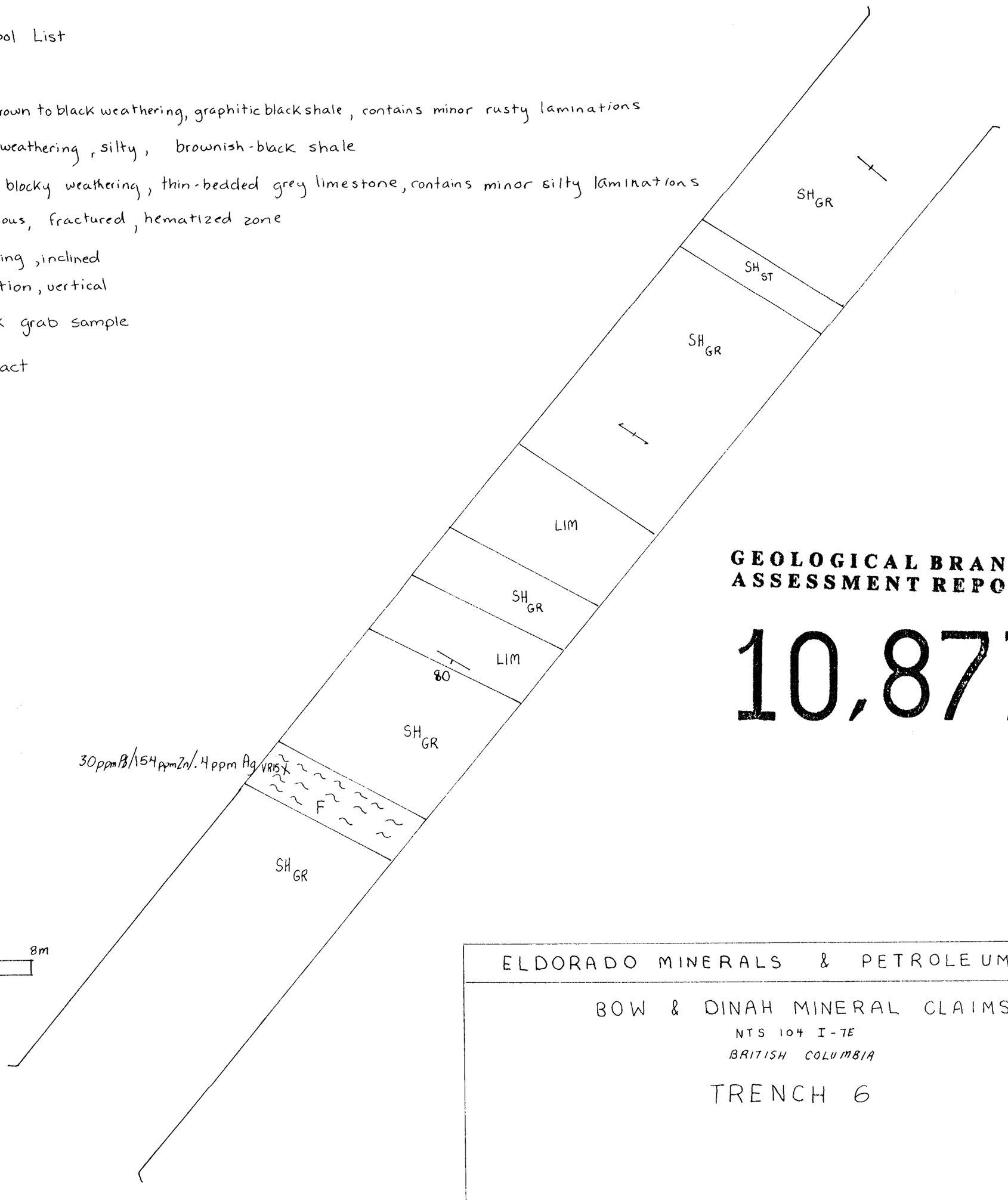
TRENCH 5

DRAWN	PROJECT	DATE	FIG.
VK	BULLION CREEK	NOV 1982	17

Symbol List

SH_{GR}	Buff brown to black weathering, graphitic black shale, contains minor rusty laminations
SH_{ST}	Black weathering, silty, brownish-black shale
LIM	Grey blocky weathering, thin-bedded grey limestone, contains minor silty laminations
≈F≈	siliceous, fractured, hematized zone
	Bedding, inclined
	Foliation, vertical
XVR15	Rock grab sample
	Contact



SCALE

0 2 4 6 8m

1:100

GEOLOGICAL BRANCH ASSESSMENT REPORT

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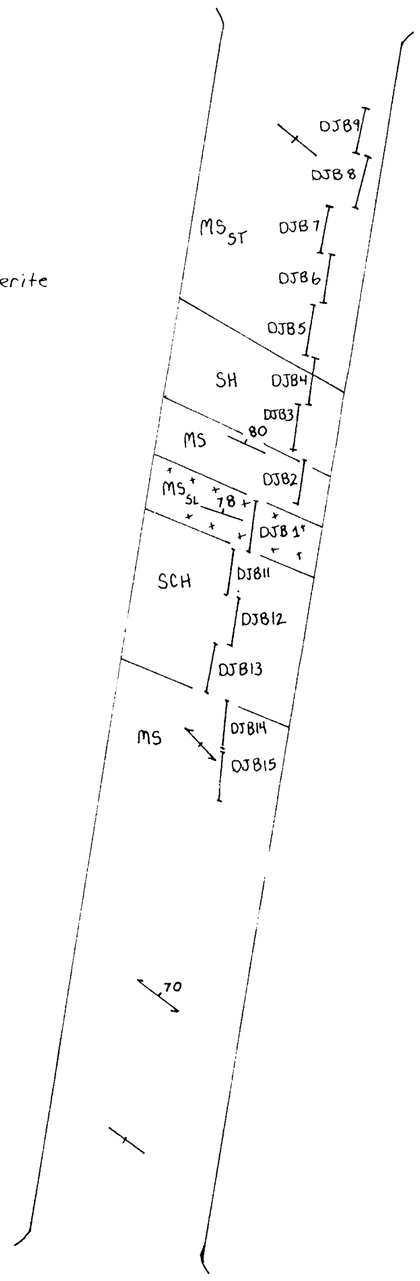
TRENCH 6

DRAWN	PROJECT	DATE	FIG.
VK	BULLION CREEK	NOV 1982	18

SYMBOL LIST

MS_{ST}	light grey weathering, siliceous, silty mudstone
SH	black weathering black shale
MS	black weathering siliceous mudstone
MS_{SL}	siliceous mudstone containing galena and sphalerite
SCH	buff to white weathering micaceous schist
DJB1	rock chip sample
80	bedding, inclined, vertical
70	foliation, inclined, vertical
xxx	lead-zinc mineralization
	contact



Sample Number	Pb ppm	Zn ppm	Ag ppm
DJB9	44	1880	.1
DJB8	280	1930	.1
DJB7	6	68	.1
DJB6	7	70	.1
DJB5	10	182	.1
DJB4	13	66	.1
DJB3	80	254	.2
DJB2	118	430	.3
DJB11	18	402	.1
DJB12	29	265	.1
DJB13	22	164	.1
DJB14	12	140	.1
DJB15	16	95	.1

DJB 1 .24% Pb .4% Zn .22 oz/ton Ag

N

GEOLOGICAL BRANCH ASSESSMENT REPORT

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SCALE

0 2 4 6 8m

1:100

ELDORADO MINERALS & PETROLEUM CORP

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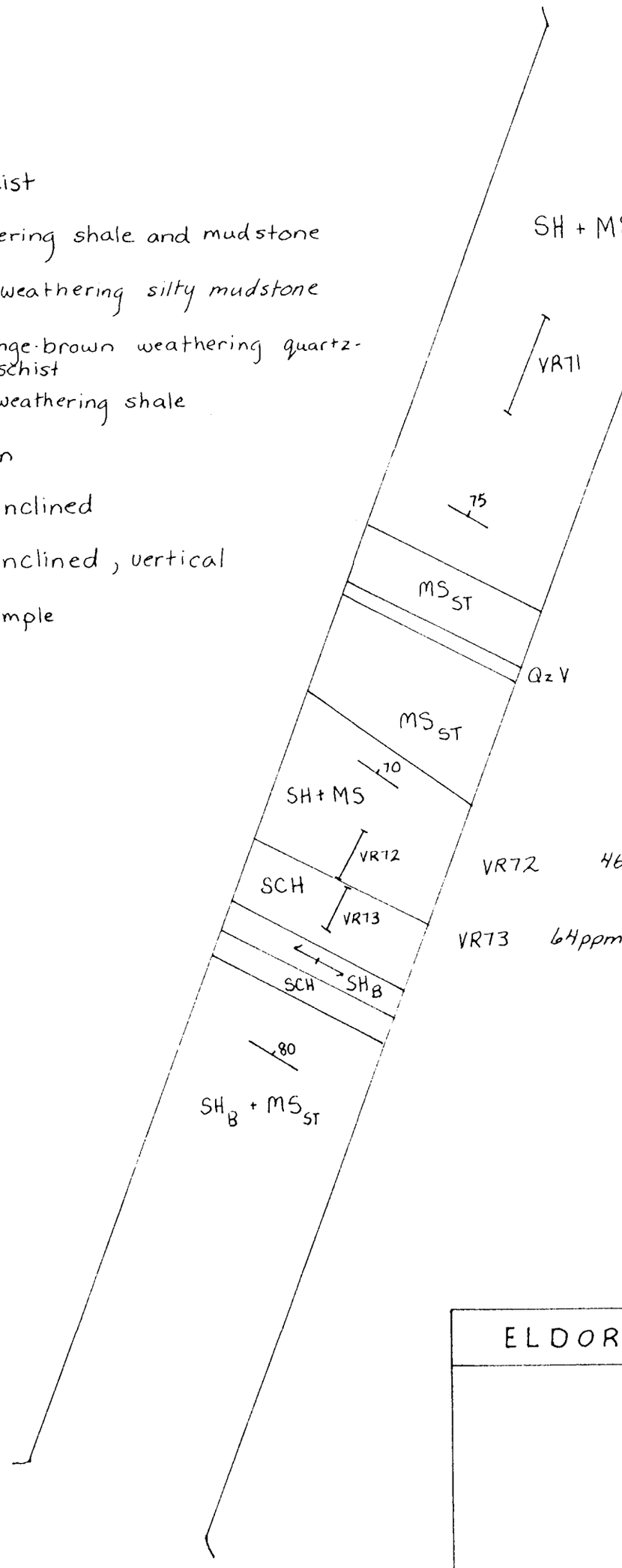
TRENCH 9

DRAWN	PROJECT	DATE	FIG.
VK	BULLION CREEK	NOV 1982	19

N

Symbol List

SH+MS	black weathering shale and mudstone
MS_{ST}	light grey weathering silty mudstone
SCH	buff to orange-brown weathering quartz-muscovite schist
SH_B	blue grey weathering shale
QzV	quartz vein
35/	bedding, inclined
30/	Foliation, inclined, vertical
VR72	rockchip sample
	contact



VR71 68ppm Pb/400ppm Zn/.4ppm Ag

VR72 46ppm Pb/385ppm Zn/.1ppm Ag

VR73 64ppm Pb/120ppm Zn/.1ppm Ag

GEOLOGICAL BRANCH ASSESSMENT REPORT

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SCALE

0 2 4 6 8m

1:100

ELDORADO MINERALS & PETROLEUM CORP

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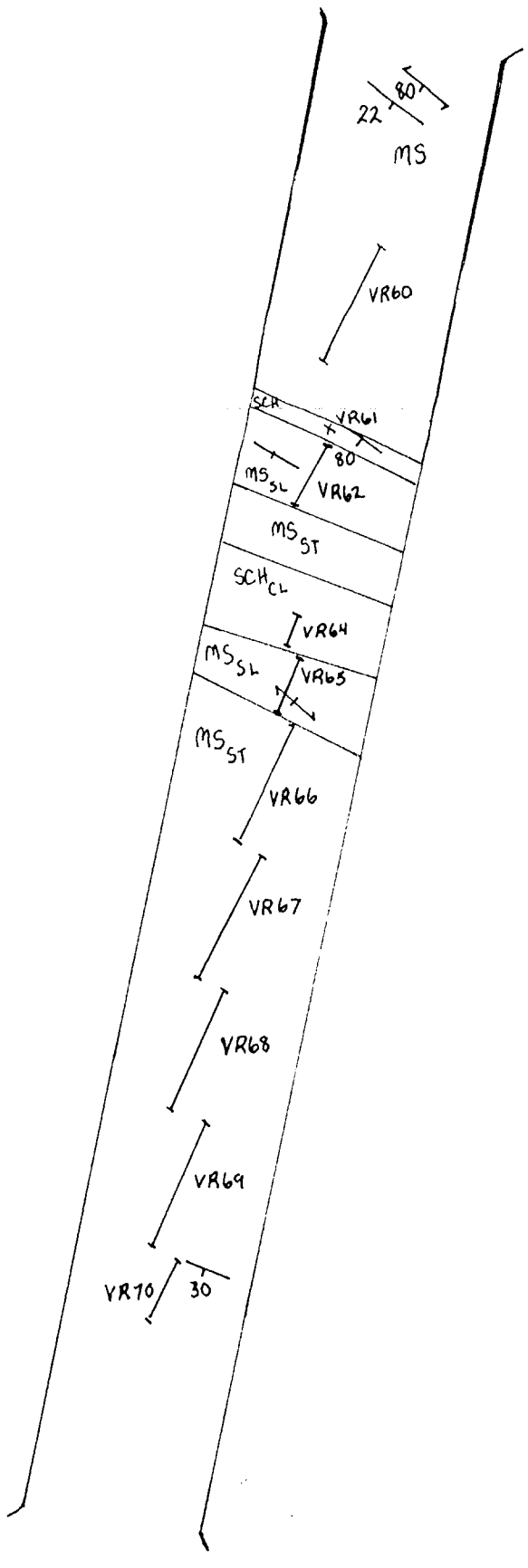
TRENCH 8

DRAWN	PROJECT	DATE	FIG
VK	BULLION CREEK	NOV 1982	20



Sample No.	Pb ppm	Zn ppm	Ag ppm
VR60	395	340	1.3
VR61	7800	5460	18.0
VR62	2000	3450	4.4
VR64	38	1820	.4
VR65	14	590	.1
VR66	9	148	.1
VR67	7	116	.1
VR68	6	128	.1
VR69	7	74	.1
VR70	8	90	.1

N

Symbol List

MS	black weathering siliceous black mudstone
SCH	white weathering quartz-muscovite schist
MS_{SL}	rusty weathering siliceous mudstone containg fine grained galena
MS_{ST}	light grey weathering silty, siliceous mudstone
SCH_{CL}	green-brown weathering muscovite-chlorite schist
x	rock grab sample
VR60	rock chip sample
	bedding, vertical, inclined
	foliation, vertical, inclined
	contact

SCALE

0 2 4 6 8m

1:100

ELDORADO MINERALS & PETROLEUM CORP

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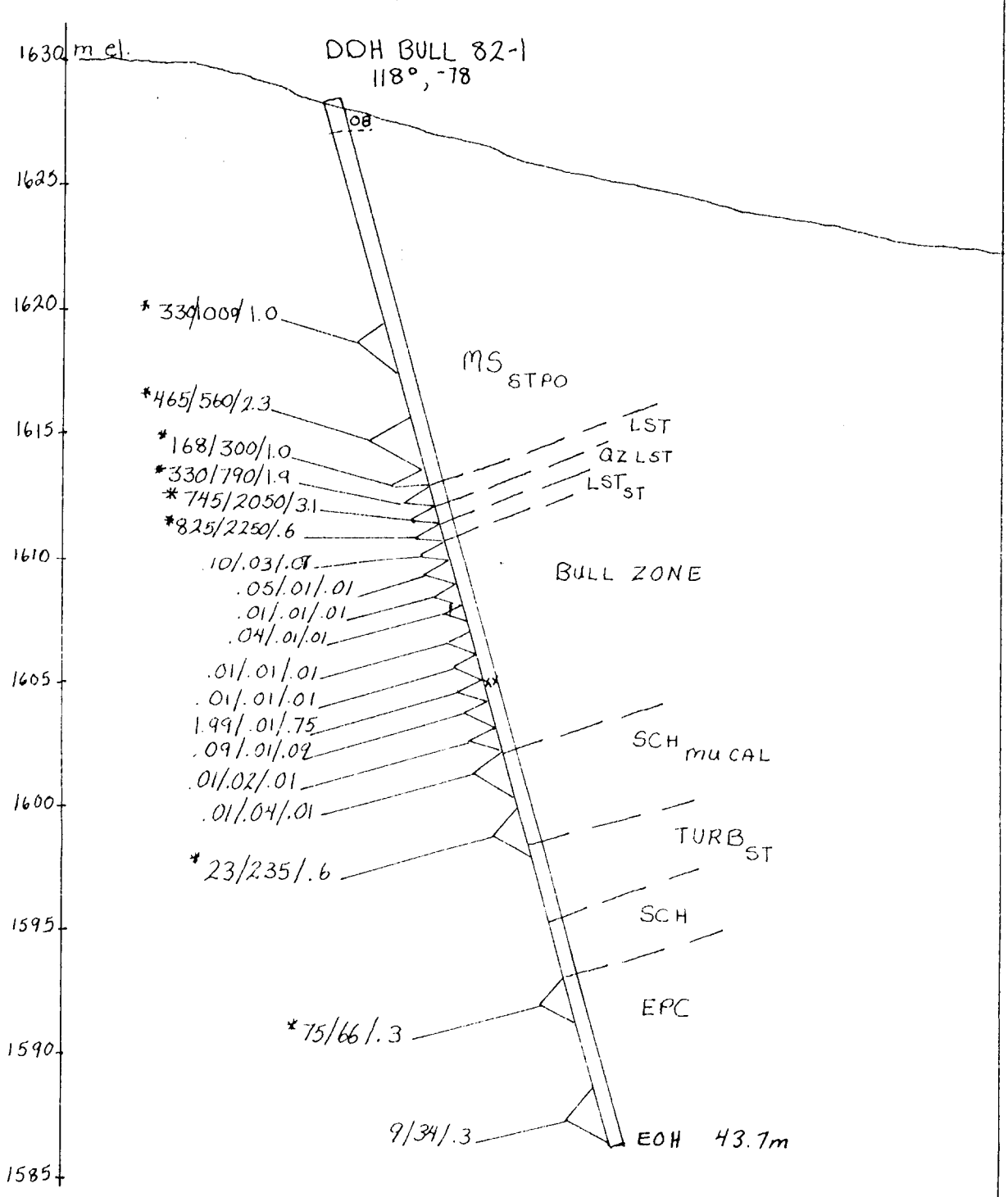
TRENCH 10

DRAWN	PROJECT	DATE	FIG.
VK	BULLION CREEK	NOV 1982	21

NW SE

SECTION LOOKING NORTHEAST



SYMBOL LIST

OB	overburden
MS_{STPO}	black porous mudstone
LST	grey limestone
QZLST	black quartzite and limestone interbeds
BULL ZONE	silicified carbonate and siliceous zones
SCH_{muCAL}	brown calcareous schist
$TURB_{ST}$	silty turbidite
SCH	brown schist
EPG	epiclastics, minor argillite interbeds
xx	lead-zinc mineralization
* 330/22/.1	Pb ppm / Zn ppm / Ag ppm
.01/.5/.1	Pb % / Zn % / Ag oz/ton

SCALE

0 5 10 15 20m

1:250

ELDORADO MINERALS & PETROLEUM CORP

BOW & DINAH MINERAL CLAIMS

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BRITISH COLUMBIA

DDH BULL 82-1 SECTION

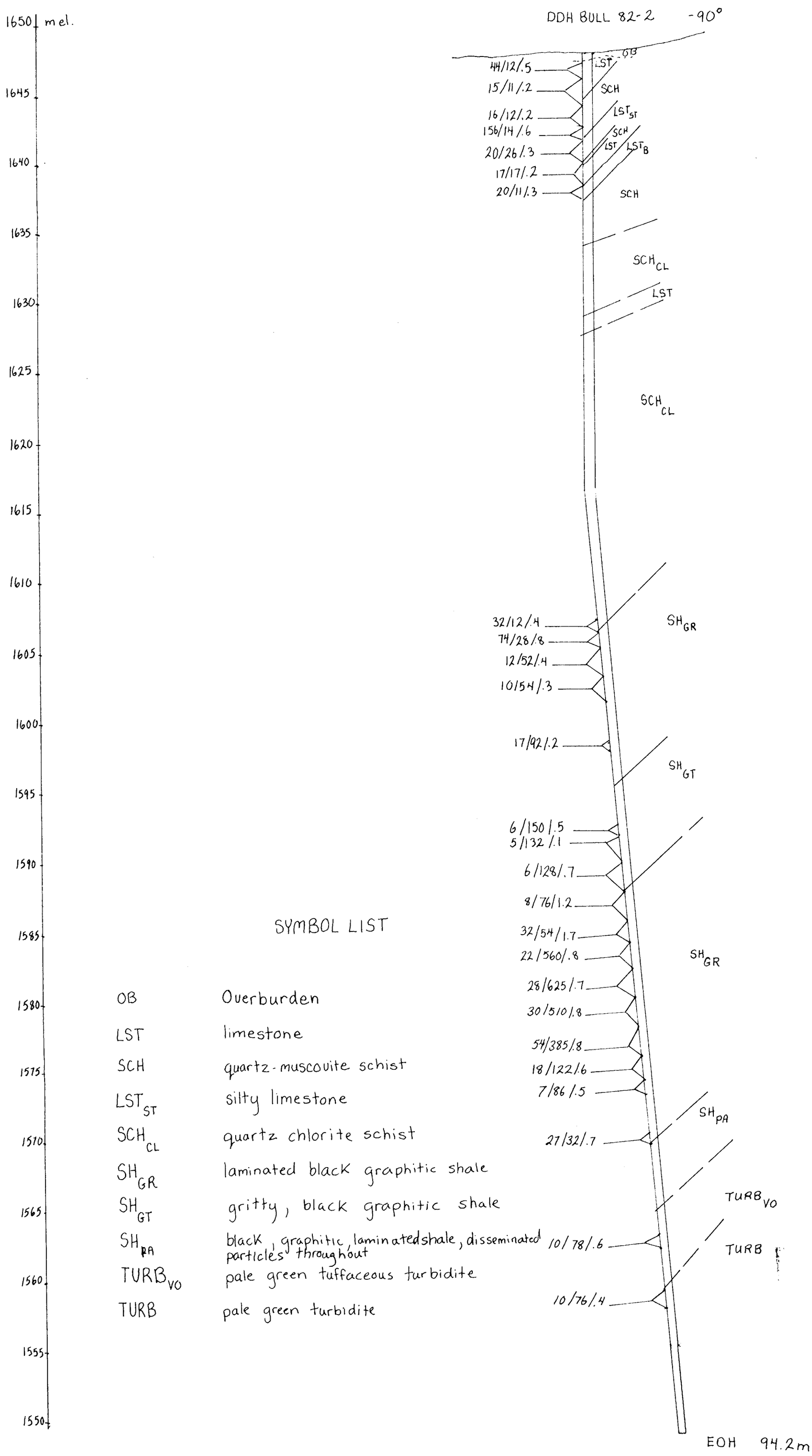
GEOLOGY AND MINERALIZATION

DRAWN	PROJECT	DATE	FIG
VK	BULLION CREEK	NOV 1982	22

SW

DRILL SECTION LOOKING NORTHWEST

NE



SYMBOL LIST

OB	Overburden
LST	limestone
SCH	quartz-muscovite schist
LST_{ST}	silty limestone
SCH_{CL}	quartz chlorite schist
SH_{GR}	laminated black graphitic shale
SH_{GT}	gritty, black graphitic shale
SH_{PA}	black, graphitic, laminated shale, disseminated particles throughout
$TURB_{VO}$	pale green tuffaceous turbidite
TURB	pale green turbidite

SCALE
0 5 10 15 20 m

ELDORADO MINERALS & PETROLEUM CORP

BOW & DINAH MINERAL CLAIMS
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BRITISH COLUMBIA

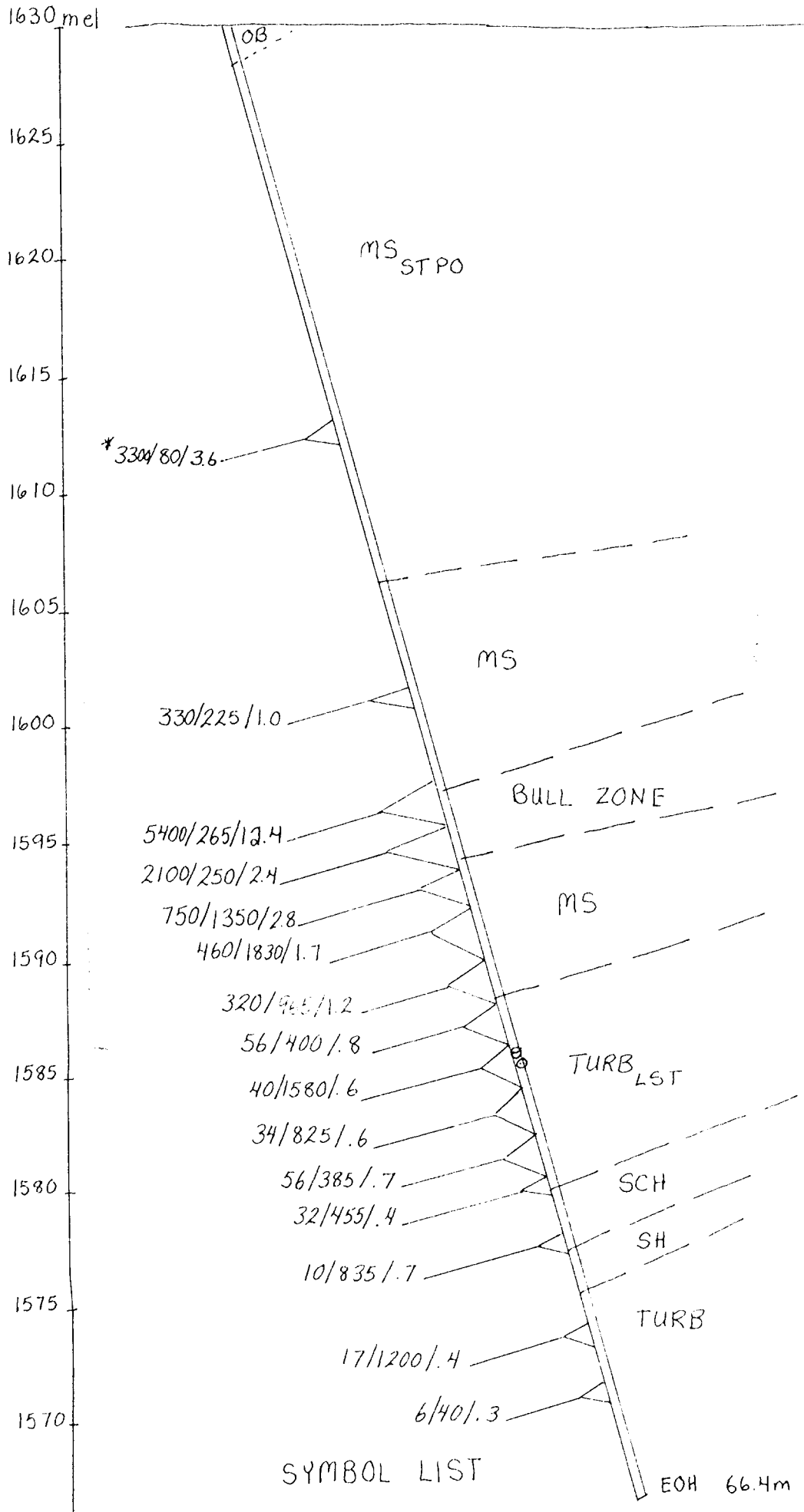
DDH BULL 82-2 SECTION
GEOLOGY AND MINERALIZATION

DRAWN	PROJECT	DATE	FIG.
VK	BULLION CREEK	NOV 1982	23

NW

SECTION LOOKING NORTHEAST

SE



SYMBOL LIST

OB	overburden
MS_{STPO}	silty, porous, black mudstone
MS	black siliceous mudstone
BULL ZONE	silicified mudstone and limestone
$TURB_{LST}$	limestone turbidite debris slump contains 1 and 2 hole crinoid fossil hash
SCH	brown schist
SH	silty shale
TURB	turbidite
⊙	two hole and one hole crinoid fossil hash
17/1200/.3	Pb ppm / Zn ppm / Ag ppm

SCALE

0 5 10 15 20m

1:250

ELDORADO MINERALS & PETROLEUM CORP

BOW & DINAH MINERAL CLAIMS

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DDH BULL-82-3 SECTION

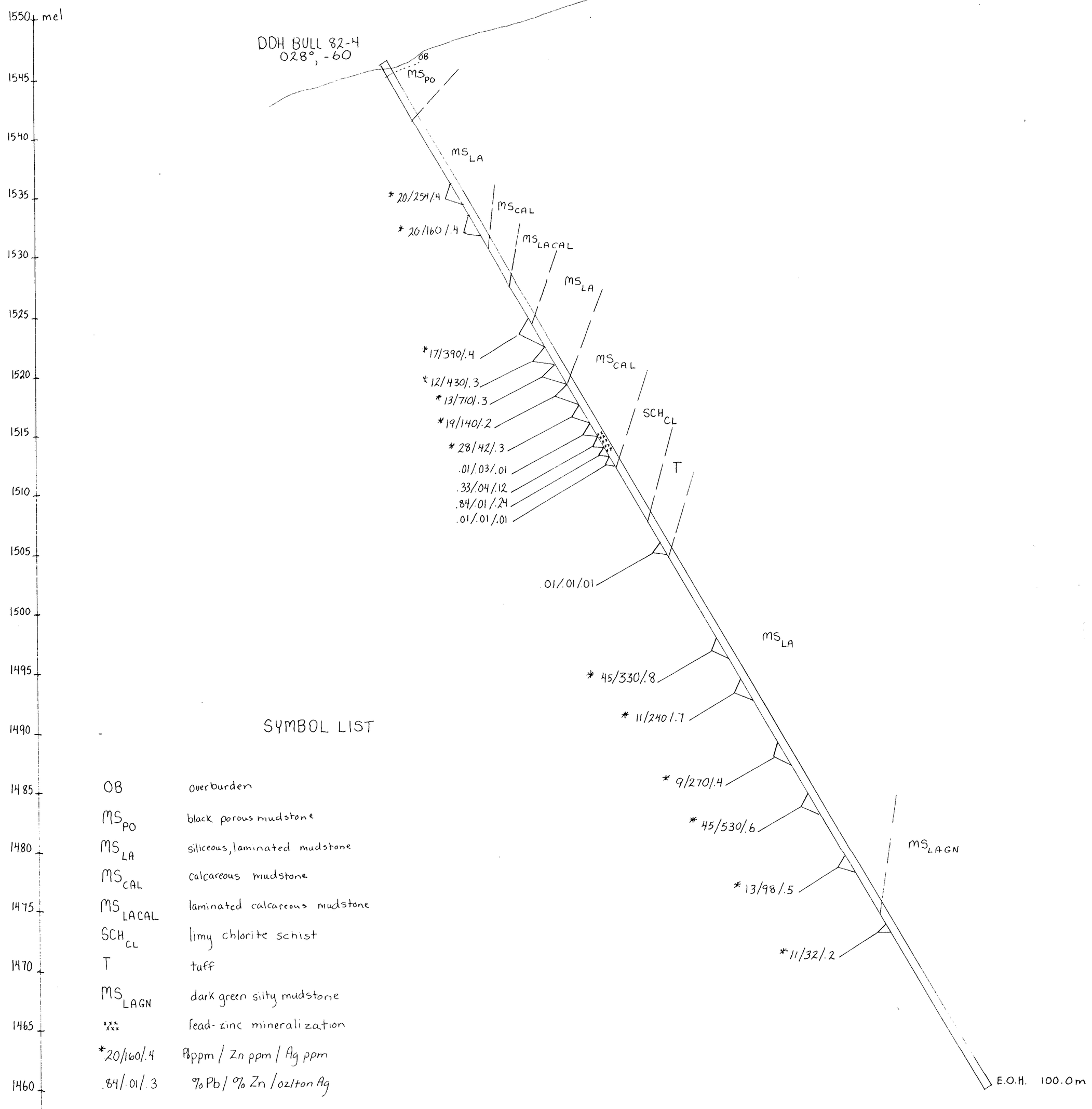
GEOLOGY AND MINERALIZATION

DRAWN	PROJECT	DATE	FIG
VK	BULLION CREEK	NOV 1982	24

SW

DRILL SECTION LOOKING NORTHWEST

NE



SYMBOL LIST

OB	overburden
MS_{PO}	black porous mudstone
MS_{LA}	siliceous, laminated mudstone
MS_{CAL}	calcareous mudstone
MS_{LACAL}	laminated calcareous mudstone
SCH_{CL}	limy chlorite schist
T	tuff
MS_{LAGN}	dark green silty mudstone
xxx	lead-zinc mineralization
*20/160/.4	Pbppm / Zn ppm / Ag ppm
.84/.01/.3	% Pb / % Zn / oz/ton Ag

SCALE
0 5 10 15 20 m
1:250

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DDH BULL 82-4 SECTION
GEOLOGY AND MINERALIZATION

DRAWN	PROJECT	DATE	FIG.
VK	BULLION CREEK	NOV 1982	25

SW

NE

DRILL SECTIONS LOOKING NORTHWEST

DDH-BULL-82-10 projected 25m to the southwest to the DDH-BULL-82-5 section plane

DDH-BULL-82-6 projected 50m to the southwest to the DDH-BULL-82-5 section plane

1480
1470
1460
1450
1440
1430
1420
1410
1400
1390
1380
1370
1360
1350
1340
1330
1320
1310
1300
1290
1280

DDH-BULL-82-6
032°, -60°

DDH-BULL-82-5
032°, -50°

DDH-BULL-82-10
032°, -50°

SYMBOL LIST

OB	overburden
QzV	quartz vein
T	pale green tuff
MS_{PO}	siliceous, porous, black mudstone
MS_{LA}	siliceous, laminated mudstone; mineralized with laminated lead-zinc
MS_{ST}	silty mudstone
MS	mudstone
MS_{STLA}	silty, laminated mudstone
MS_{SLA}	soft laminated mudstone
MS_{S}	soft mudstone
MS_{CAL}	calcareous mudstone
MS_{CARB}	carbonaceous mudstone
MS_{GR}	graphitic mudstone
MS_{PY}	pyritic mudstone
SH_{GR}	graphitic shale
SH_{BI}	biotite schist
SH_{CL}	chlorite schist
SH	shale
LST	limestone
xxx	lead-zinc mineralization
.05/23/28	%Pb / %Zn / oz/ton Ag

SCALE

0 5 10 15 20m

1:250

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ASSESSMENT REPORT

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DDH BULL 82-5, 82-6, 82-10 SECTIONS

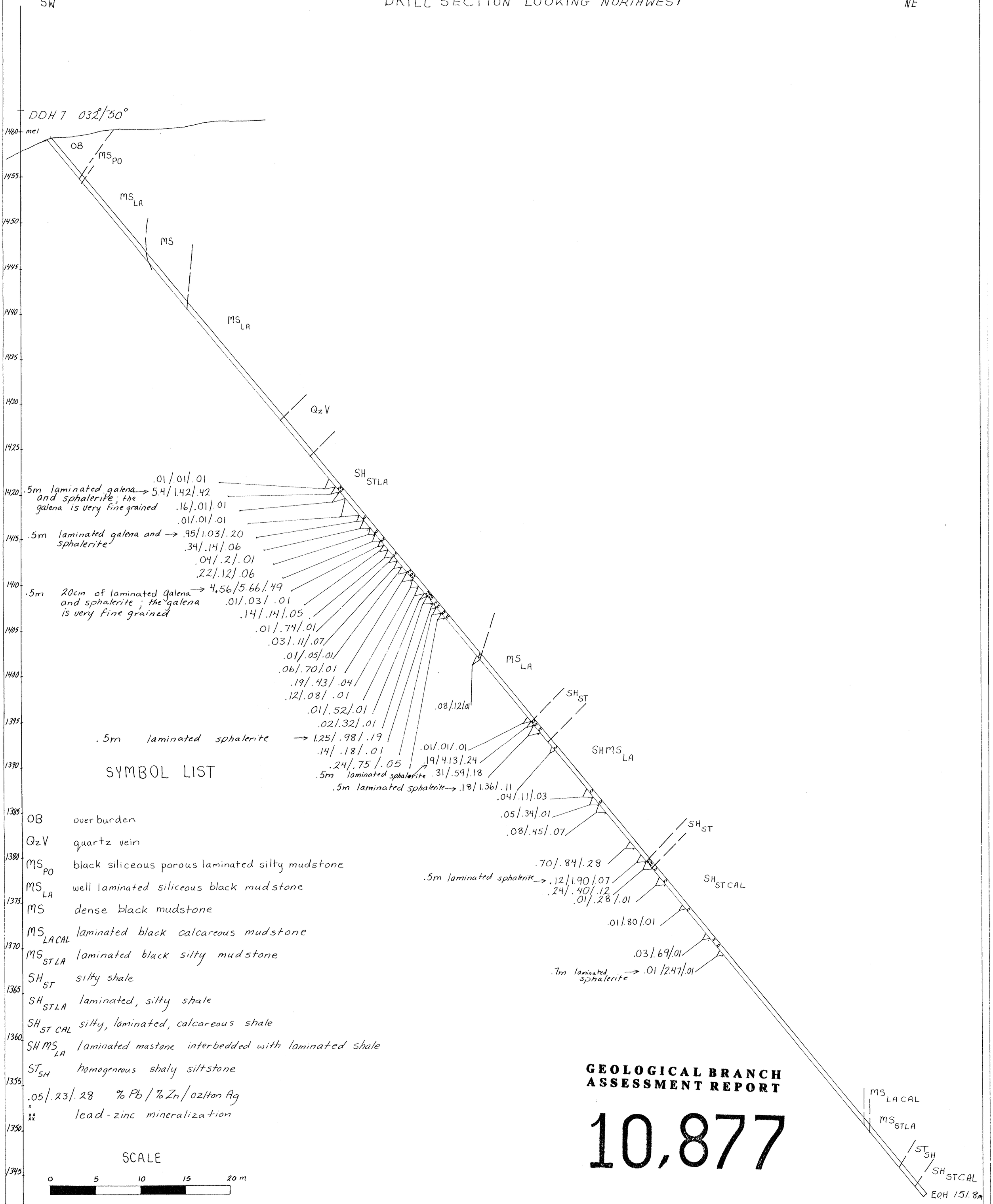
GEOLOGY AND MINERALIZATION

DRAWN	PROJECT	DATE	FIG.
VK	BULLION CREEK	NOV 1982	26

DRILL SECTION LOOKING NORTHWEST

SW

NE



SYMBOL LIST

OB	over burden
QzV	quartz vein
MS_{PO}	black siliceous porous laminated silty mudstone
MS_{LA}	well laminated siliceous black mudstone
MS	dense black mudstone
MS_{LACAL}	laminated black calcareous mudstone
MS_{STLA}	laminated black silty mudstone
SH_{ST}	silty shale
SH_{STLA}	laminated, silty shale
$SH_{ST\,CAL}$	silty, laminated, calcareous shale
$SH\,MS_{LA}$	laminated mustone interbedded with laminated shale
ST_{SH}	homogeneous shaly siltstone
.05/.23/.28	% Pb / % Zn / oz/ton Ag
xx xx	lead-zinc mineralization

SCALE

0 5 10 15 20 m

1:250

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DDH BULL 82-7 SECTION

GEOLOGY AND MINERALIZATION

DRAWN	PROJECT	DATE	FIG.
VK	BULLION CREEK	NOV 1982	27

SW

DRILL SECTION LOOKING NORTHWEST

NE

1500 mel

DDH BULL 82-8
032°, -50

1495

OB

1490

MS LA

.42/.67/.01
.22/.42/.01

1485

T

1480

MS LACAL

1475

MS LA
MS ST
MS LA
MS STLA

1470

MS PY
MS ST

1465

.07/.10/.01
.31/.13/.13
.29/1.53/.13

1460

MS PY

1455

MS LAPY

1450

MS LA
MS ST

1445

0.5m laminated galena and sphalerite → 2.29/3.38/.71

1440

.23/.12/.07
.12/.01/.01
.16/1.33/.01
.09/.03/.01

Fault Zone
MS LA
QzV

1435

0.5m laminated galena and sphalerite → 2.95/2.53/.39
.50/.33/.06
.29/.32/.05

1430

0.5m blebs of sphalerite associated with
.66/.62/.14

TURB

1425

SYMBOL LIST

1420

OB	Overburden
T	Tuff
QzV	Quartz Vein
MS	black dense mudstone
MS_{LA}	laminated, siliceous, black mudstone
MS_{LACAL}	laminated, siliceous mudstone; calcareous laminations
MS_{ST}	silty mudstone
MS_{STLA}	laminated, silty mudstone
MS_{PY}	pyritic mudstone
MS_{LAPY}	laminated pyrite in mudstone
TURB	section of downward coarsening mudstone-siltstone turbidites
SH_{PY}	pyritic schistose shale
.66/.62/.14	%Pb/%Zn/oz/ton Ag
⁘	lead-zinc mineralization

1415

1400

1395

1390

1385

1380

1375

1370

1365

1360

.08/.41/.01
laminated galena and galena blebs in quarte fractures → 2.29/.01/.81
.04/.01/.01

MS

.05/.11/.14
.01/.12/.01

SH_{PY}
MS_{LA}

E.O.H. 160.9m

SCALE

0 5 10 15 20 m

1:250

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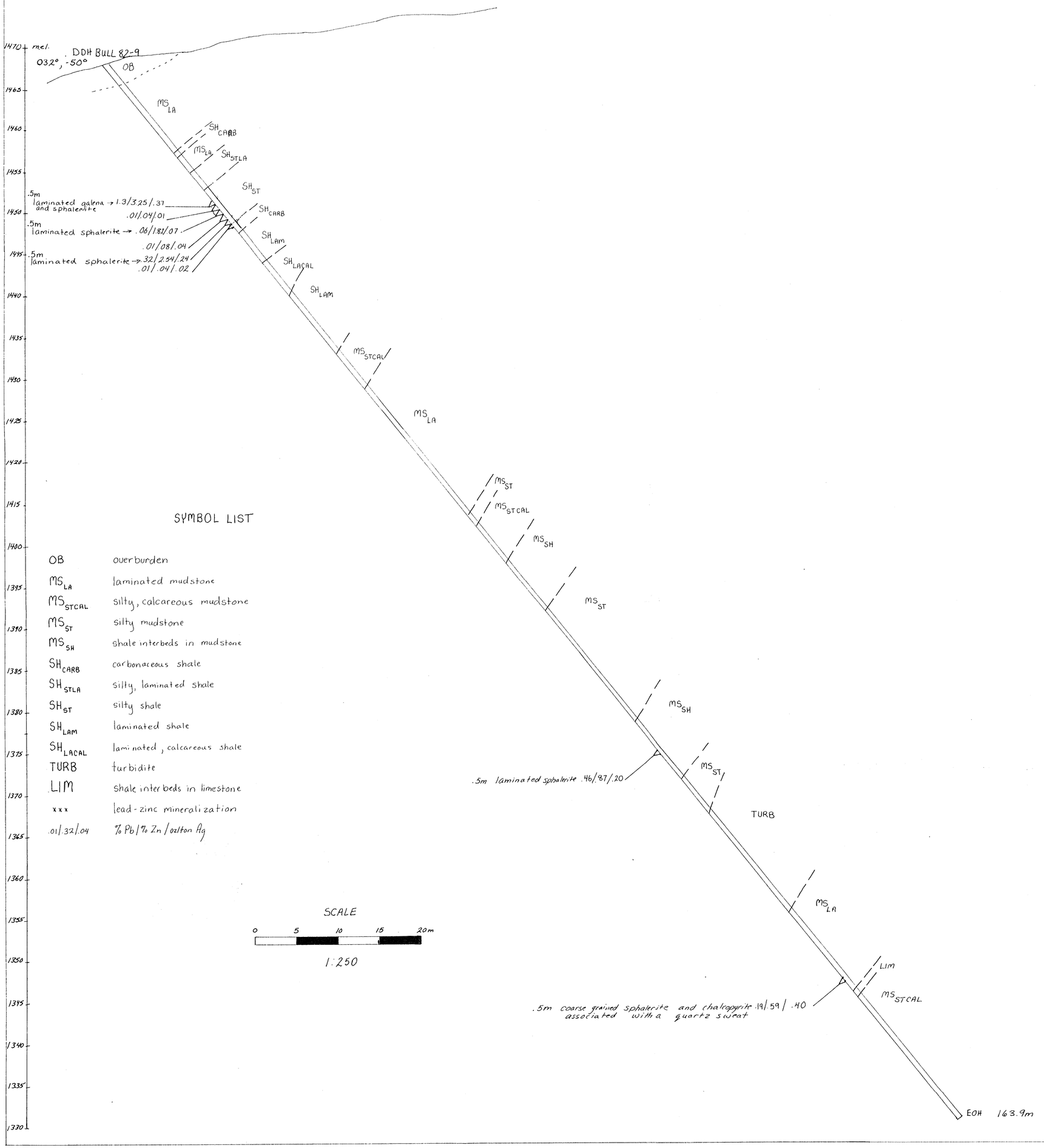
DDH BULL 82-8 SECTION
GEOLOGY AND MINERALIZATION

DRAWN	PROJECT	DATE	FIG.
VK	BULLION CREEK	NOV 1982	28

SW

DRILL SECTION LOOKING NORTHWEST

NE



SYMBOL LIST

OB	overburden
MS_{LA}	laminated mudstone
MS_{STCAL}	silty, calcareous mudstone
MS_{ST}	silty mudstone
MS_{SH}	shale interbeds in mudstone
SH_{CARB}	carbonaceous shale
SH_{STLA}	silty, laminated shale
SH_{ST}	silty shale
SH_{LAM}	laminated shale
SH_{LACAL}	laminated, calcareous shale
TURB	turbidite
LIM	shale interbeds in limestone
xxx	lead-zinc mineralization
.01/.32/.04	% Pb / % Zn / oz/ton Ag

SCALE

0 5 10 15 20m

1:250

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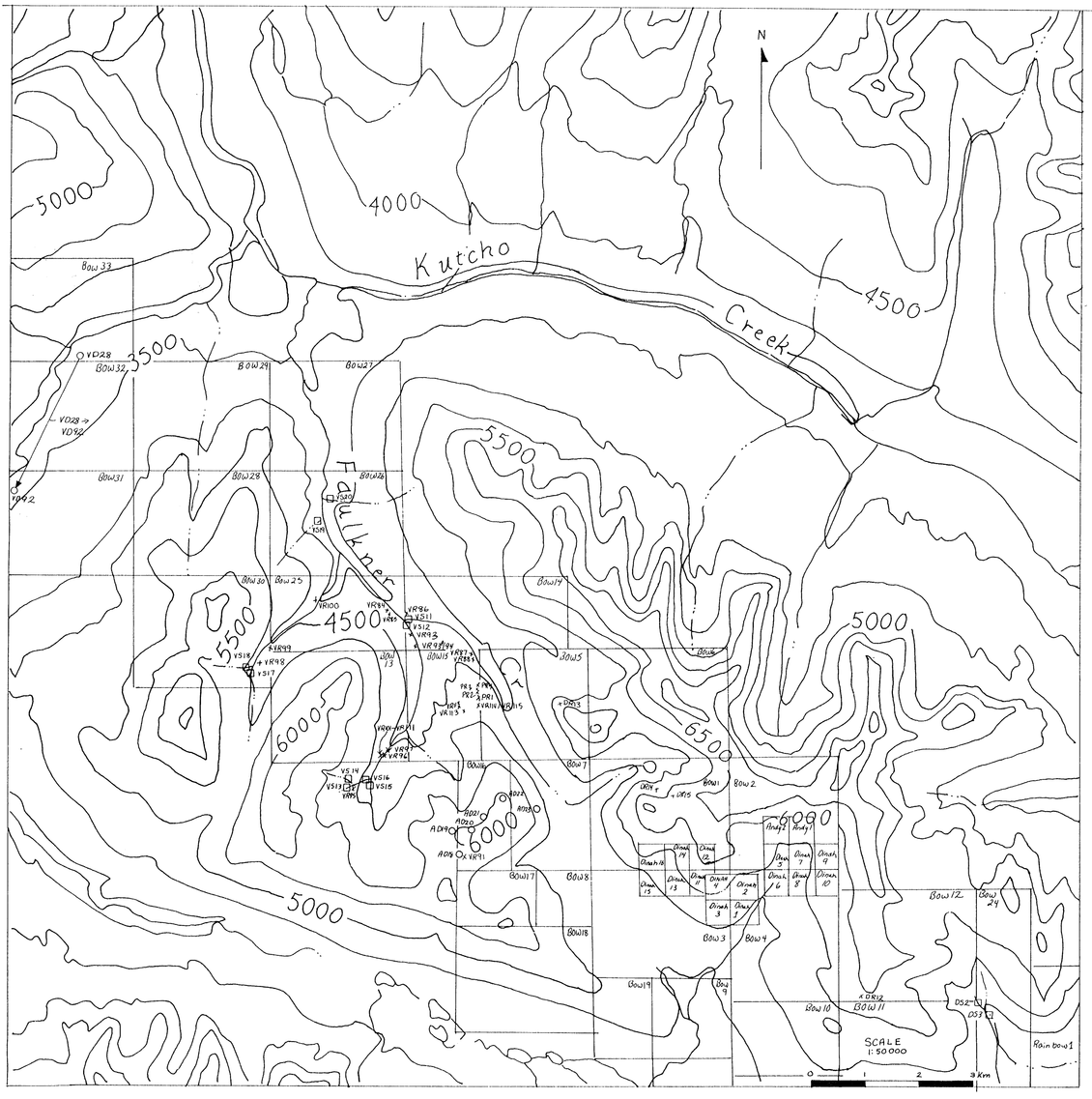
DDH BULL 82-9 SECTION
GEOLOGY AND MINERALIZATION

DRAWN	PROJECT	DATE	FIG
VK	BULLION CREEK	NOV 1982	29



Soil Samples

Sample Number	Pb (ppm)	Zn (ppm)	Ag (ppm)	Au (ppb)
VD28	13	62	.1	3
VD29	24	125	.5	2
VD30	12	136	.1	2
VD31	16	78	.1	1
VD32	15	108	.4	1
VD33	18	74	.1	33
VD34	13	64	.1	3
VD35	11	68	.1	2
VD36	14	60	.1	1
VD37	12	74	.1	1
VD38	10	98	.1	4
VD39	8	76	.1	1
VD40	11	190	.7	1
VD41	12	108	.1	1
VD42	10	72	.1	7
VD43	8	58	.1	1
VD44	17	174	.2	1
VD45	26	302	.4	250
VD46	9	74	.1	1
VD47	21	144	.4	1
VD48	24	300	.3	2
VD49	14	92	.1	1
VD50	9	145	.1	45
VD51	15	115	1.5	2
VD52	9	62	.1	7
VD53	22	210	.1	1
VD54	13	103	.1	1
VD55	9	64	.1	1
VD56	13	88	.1	2
VD57	11	56	.1	4
VD58	9	55	.1	2
VD59	22	58	.1	20
VD60	21	98	.1	1
VD61	22	85	.1	780
VD62	6	58	.1	1
VD63	7	52	.1	46
VD64	6	50	.1	2
VD65	9	48	.1	1
VD66	7	53	.1	1
VD67	9	52	.1	1
VD68	10	54	.2	1
VD69	10	52	.1	2
VD70	11	58	.2	3
VD71	10	72	.4	25
VD72	9	54	.1	1
VD73	10	58	.1	2
VD74	9	52	.1	1
VD75	12	58	.1	1
VD76	14	75	.3	4
VD77	11	46	.1	1
VD78	10	56	.1	1
VD79	9	50	.1	1
VD80	8	46	.1	1
VD81	8	78	.6	3
VD82	26	164	.7	40
VD83	10	29	.8	10
VD84	12	64	.1	1
VD85	13	54	.1	2
VD86	9	64	.2	2
VD87	10	80	.1	1
VD88	11	70	.1	1
VD89	10	62	.1	1
VD90	9	56	.1	1
VD91	10	64	.1	1
VD92	9	48	.1	1
VD93	9	60	.1	1

	Pb (ppm)	Zn (ppm)	Ag (ppm)	Ba (ppm)
AD18	70	282	2.2	45
AD19	38	125	1.0	20
AD20	28	135	1.0	25
AD21	27	184	.5	20
AD22	29	156	1.2	20
AD23	28	278	1.2	25

Rock Samples

Sample Number	Au (ppb)
DR12	3
DR13	2
DR14	1
DR15	2

	Pb %	Zn %	Cu %
VR84		10.30	
VR85	.11%		
VR86			.97

	Cu (ppm)	Pb (ppm)	Zn (ppm)	Ag (ppm)	Ba (ppm)	W (ppm)	Au (ppb)
VR87	30	10	44	.1	36	2	5
VR90	20	19	76	.1	37	2	5
VR91	6	22	44	.3	105	2	5

	Pb %	Zn %	Au (oz/ton)
VR93	.01	.01	.004
VR93A	01	.02	.006

	Pb (ppm)	Zn (ppm)	Ag (ppm)	Au (ppb)
VR94	4	260	.1	5
VR95	204	252	1.1	5
VR96	33	120	1.1	5
VR97	270	140	5.0	70
VR98	481	661	2.9	9
VR99	46	21	.5	60
VR100	36	137	1.1	3

	Pb (ppm)	Zn (ppm)	Ag (ppm)	Au (ppb)	As (ppm)	Hg (ppb)
PR1	31	72	.3	1	9	20
PR2	22	13	1.7	16	19	5
PR3	11	66	.8	1	23	15
PR4	46	52	1.1	1	277	10
PR5	118	217	1.0	1	4	30

	Ag (ppm)	As (ppm)	Au (ppb)
VR101	.4	2	1
VR102	2.0	20	13
VR103	1.0	12	5
VR104	2.1	21	10
VR105	2.0	47	161
VR106	2.4	26	121
VR107	3.2	32	22
VR108	1.4	11	10
VR109	1.3	11	6
VR110	1.1	15	4
VR111	1.3	9	4
VR112	2.0	16	8
VR114	1.0	57	4
VR115	.3	7	2

SILT SAMPLES

	Pb (ppm)	Zn (ppm)	Ag (ppm)	Au (ppb)	As (ppm)	Hg (ppb)
VS11	18	67	.1	5		
VS12	25	220	.4	5		
VS13	25	108	.1	5		
VS14	26	165	.2	5		
VS15	20	90	.3	5		
VS16	35	160	.5	10		
VS17	23	177	.4	8	34	10
VS18	14	111	.4	14	16	25
VS19	34	270	.7	3		
VS20	16	100	.1	3		

GEOLOGICAL BRANCH
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10,877

ELDORADO MINERALS & PETROLEUM CORP.

BOW, DINAH & ANDY
MINERAL CLAIMS
NTS 104I-7E
BRITISH COLUMBIA

REGIONAL SOIL, SILT AND ROCK
GEOCHEMISTRY & ASSAYS

DRAWN	PROJECT	DATE	FIGURE
VK	BULLION CREEK	NOV. 1982	30