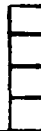


MAP No.

95 D 6

ASSESSMENT REPORT
N. M. E. A. P.
CONFIDENTIAL
OPEN FILE



TYPE OF

WORK: DIAMOND DRILLING

| | | | | |
|--------------------------|-------------------------|-------------|--------------|--------------|
| REPORT FILED UNDER | SULPETRO MINERALS LTD. | | DOCUMENT NO. | 091680 |
| DATE PERFORMED | Aug. 6 - Sept. 20, 1985 | | DATE FILED: | Dec. 2, 1985 |
| LOCATION - LAT. LONG. | 60°23'N 127°20'W | | AREA: | |
| CLAIM NO. | JERI 4-7 | YA66934-937 | TOMI 6-8 | YA66974-976 |
| | DAVE 1-8 | YA72501-508 | | |
| | ANDY 1-8 | YA72509-516 | | |
| VALUE \$ | SIN 5-8 | YA66993-996 | | |
| | OTT 508 | YA66958-961 | | |
| WORK DONE BY | D.C. MILLER | | | |
| WORK DONE FOR | SULPETRO MINERALS LTD. | | | |

REMARKS

091680

The property is underlain by Late Cambrian to Ordovician calcareous shale and wavy banded to micritic limestone and dolomite. Zinc mineralization is as a strataform smithsonite and sphalerite replacement deposit associated with silica-dolomite alteration.

YEX 85 p 47

In 1985 a total of 10 B.Q. diamond drill holes totalling 1009.8 m were drilled on the JERI and SIN claims. Ninety-two core samples were split and assayed for Zn.

The best mineralized intersections are:

| | | |
|------|-----|-------------|
| JERI | 4-7 | YA66934-937 |
| DAVE | 1-8 | YA72501-508 |
| ANDY | 1-8 | YA72509-516 |
| SIN | 5-8 | YA66993-996 |
| OTT | 5-8 | YA66958-961 |
| TOMI | 6-8 | YA66974-976 |

| <u>INTERSECTION(m)</u> | <u>ZN(%)</u> |
|------------------------|--------------|
| 3.37 | 13.11 |
| 4.40 | 0.55 |
| 4.58 | 7.96 |
| 2.15 | 14.60 |
| 4.25 | 3.78 |

The 1985 work at the JERI mapped smithsonite and/or sphalerite mineralization over a 75 m stratigraphic interval. The mineralization covers a much wider interval than at the adjacent MEL (2) and displays silica-dolomite alteration of increased intensity and extent. An alteration envelope with probable zinc mineralization occurs over a 550 m strike length with a vertical range of +100 m. The best zinc grades are restricted to lenses within the halo and are associated with elevated silica levels.

DIAMOND DRILLING REPORT

JERI AND SIN CLAIMS
MEL PROPERTY

CLAIM SHEET 95 D/6

LATITUDE 60° 23'

LONGITUDE 127° 20'

YUKON TERRITORY

Covering Work Completed during August 6 - September 20, 1985

091680

by D.C. MILLER, P.ENG.

Submitted October 22, 1985

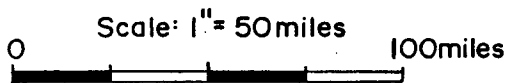
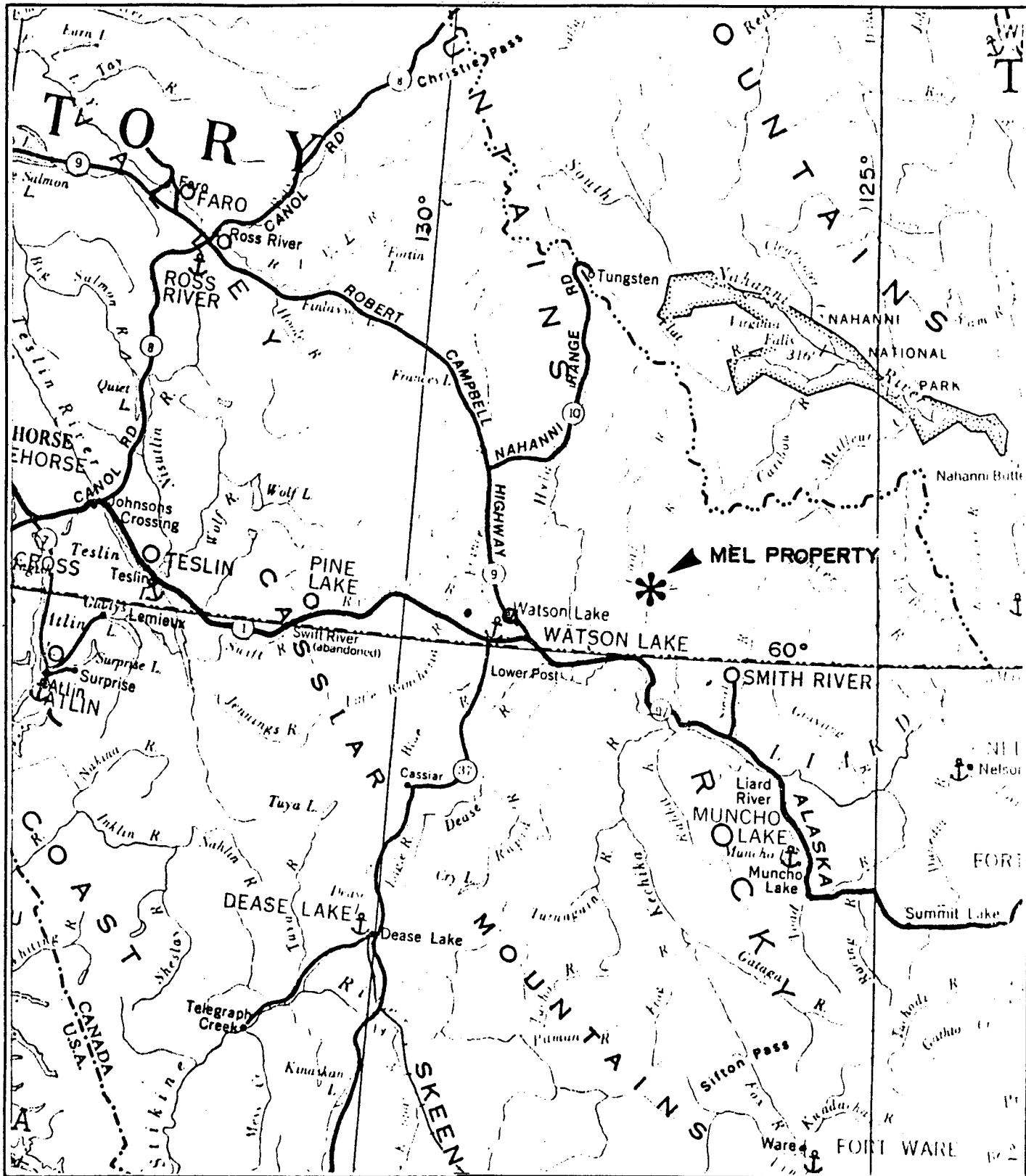
For Sulpetro Minerals Limited

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| Figure 5 - Section 99 N | " " |
| Figure 6 - Section 102 +75 N | " " |
| Figure 7 - Section 103 +25 N | " " |
| Figure 8 - Section 104 N | " " |
| Figure 9 - Section 98 N | " " |
| Figure 10- Section D.D.H. 10 | " " |
| Figure 11- Claim Map | " " |



SULPETRO MINERALS LIMITED
KAMLOOPS, BRITISH COLUMBIA

LOCATION MAP
MEL PROPERTY

Drawn by: **D. C. MILLER**

N.T.S.: **95 D/6**

Date: **OCT. 1985**

Figure No.: **1**

Location and Access

The claims are located 80 km eastward of Watson Lake, Yukon. Access is by fixed wing aircraft to a newly built airstrip on the property. During the 1985 program, a Caribou aircraft was used to deliver 8,000 lb. loads to the strip. Alternative access is by helicopter or some 50 km of winter road leading from the Alaska Highway near Scoby Creek.

Physiography

The claims are drained by Otter Creek and its tributaries. Topography is moderate with relief in the order of 300 m. The western portion of the claims was burned by a forest fire in 1982.

Property and Ownership

The property includes the following adjoining claims:

| <u>Claim Name</u> | <u>Grant No.</u> | <u>Anniversary Date</u> |
|-------------------|------------------|-------------------------|
| Me1 11 - 16 | Y 22230-35 | April 3 |
| Jean 1 - 4 | Y 72731-34 | April 3 |
| Jean 5 - 10 | Y 72961-66 | April 5 |
| Jean 11 - 21 | Y 74418-28 | October 15 |
| Wet 1 - 16 | Y 83309-24 | April 3 |
| Wet 25 - 32 | Y 83325-32 | April 3 |
| Sov 1 - 6 | YA 28600-05 | April 26 |
| Joe 1 Fraction | YA 45269 | August 13 |

| <u>Claim Name</u> | <u>Grant No.</u> | <u>Anniversary Date</u> |
|-------------------|-------------------|-------------------------|
| Joe 2 Fraction | YA 45270 | August 13 |
| Keli 1 - 4 | YA 66842-45 | August 10 |
| Joni 1 - 8 | YA 66846-53 | August 10 |
| Hose 1 - 8 | YA 66919-26 | August 24 |
| Keli 5 - 8 | YA 66927-30 | August 24 |
| Jeri 1 - 8 | YA 66931-38 | August 24 |
| Ralfo 1 - 7 | YA 66939-45 | August 24 |
| Chungo 1 - 8 | YA 66946-53 | August 24 |
| Ott 1 - 8 | YA 66954-61 | August 24 |
| Edy 1 - 7 | YA 66962-68 | August 24 |
| Tomi 1 - 8 | YA 66969-76 | August 24 |
| Mumbo 1 - 8 | YA 66977-84 | August 24 |
| Boz 1 - 4 | YA 66985-88 | August 24 |
| Sin 1 - 8 | YA 66989-96 | August 24 |
| Yang 1 - 6 | YA 66997-YA 67002 | August 24 |
| Dave 1 - 8 | YA 72501-08 | November 5 |
| Andy 1 - 8 | YA 72509-16 | November 5 |

Total 171 Claims

The property is jointly owned by Sovereign Metals Corporation and Sulpetro Minerals Limited under the terms of an agreement dated February 15, 1985. Later in 1985, Sulpetro entered into an agreement with B.P. Canada Inc. - Selco Division, under which B.P. Selco can earn a 50% interest in the property by fulfilling certain exploration commitments prior to December 31, 1989.

History

The property was first staked in 1967 by J. Melnychuk and T. Flint. Since then, successive exploration programs including topographical, geological and geophysical surveys, trenching, diamond drilling, road and airstrip construction have been carried out by several companies. In chronological order, these companies include: Newmont Mining Corp., Sovereign Metals Corp., Granby Mining Corp., Sulpetro Minerals Limited and B.P. Canada Inc - Selco Division.

Prior to 1980, exploration was centered on the main Mel area showings where diamond drilling has indicated 4.8 million tonnes grading 52.1% barite, 5.61% zinc and 2.05% lead in a carbonate hosted stratiform deposit. During 1981 to 1984, two new zinc (smithsonite) showings, the Mel-East and Jeri prospects, were discovered. During August and September, 1985, diamond drilling was done on the Jeri prospect.

Summary of Current Work

During August and September, 1985, 10 B.Q. diamond drill holes totalling 1009.8 m were completed on the Jeri and Sin claims. Actual drilling commenced on August 18 and was completed on September 8.

During August 8-16, a two-man Sulpetro crew mobilized camp equipment, built the driller's camp and graded a newly constructed airstrip located 6.7 air-km southwest of the drill area. The airstrip was graded and dragged by a John Deere 350C Caterpillar previously brought in for this purpose.

E. Caron Diamond Drilling Ltd. of Whitehorse was selected as the drilling contractor based on a competitive bid and good previous performance (1979). On August 16, a 4 person drill crew, a B.B.S. 15-A drill, equipment, fuel and food were mobilized to the airstrip from Whitehorse and Watson Lake using a Caribou aircraft based in Whitehorse. This aircraft delivered 8,000 lb. loads to the airstrip located 420 km and 80 km respectively eastward of Whitehorse and Watson Lake. During August 16 and 17, equipment, fuel, food and personnel were moved to the drill area using the Caterpillar and Jet Ranger helicopter based in Watson Lake. On August 17 and 18 an 870 m road was built to the closest suitable water supply. An all-terrain vehicle (Ferret) was used for laying water line and moving drill core, groceries and personnel. During drilling operations, the Caterpillar made drill roads and sites as required and moved the drill from site to site.

A total of 92 core samples were split and submitted for assay at Kamloops Research and Assay Lab in Kamloops, B.C. and at X-Ray Assay Laboratories, Don Mills, Ont. Core boxes were marked with metal tape and stored at a central area on the claims (Fig. 2). All core samples were assayed for zinc and certain samples were assayed for gold, silver and lead.

During the course of the work the camp was supported by a weekly helicopter trip bringing food, drilling supplies and mail.

On Sept 9 and 10 the drill equipment and drill crew were demobilized to Watson Lake and Whitehorse using the Caterpillar, Jet Ranger helicopter and the Caribou aircraft. The Caribou was able to haul 6,000 lb. loads from the airstrip.

A two-man Sulpetro crew remained on the property till September 14 to complete core splitting, clean-up and a stadia survey of drill hole locations. A combination of Beaver aircraft and helicopter were used to demobilize the camp and some 3,000 lb. of drill equipment (partial load) left at the airstrip. The Beaver could haul full loads (1,400 lb.) from the strip.

DIAMOND DRILLING RESULTS AND INTERPRETATIONIntroduction

Prior to 1985 work, mineralization at Jeri had been considered to be located at the top of Unit 5 (light grey limestone) in the same stratigraphic position as mineralization at the Mel deposit. Results of the current program show that smithsonite and/or sphalerite mineralization at Jeri occur over a larger stratigraphic interval (75 m) and are accompanied by stronger and more widespread silica-dolomite alteration than is present at Mel.

The following Table of Formations correlates property geology with G.S.C. mapping reported in GSC paper 68-38, Coal River map-area.

Table of Formations

| <u>Period</u> | <u>GSC Map Unit</u> | <u>Property Map Unit</u> | <u>Lithology</u> | <u>Thickness (metres)</u> |
|------------------------------|---------------------|--------------------------|-------------------------------------|---------------------------|
| Late Cambrian and Ordovician | 8 | 7 | Wavy banded Limestone | 800 + |
| | 8 | 6 | Calcareous Shale | 30 |
| | 5 | 5 | Fine grained limestone and dolomite | 80-150+ |

Stratigraphy

Unit 5 Light Grey Limestone

Unit 5 consists of light grey, fine grained limestone which has been variously altered by dolomitization and silicification with localized smithsonite and sphalerite mineralization.

Unit 6 Calcareous Shale

Unit 6 consists of laminated grey calcareous shale which has a sharp contact with Unit 5 but a gradational contact with the overlying Unit 7. This shale becomes progressively less calcareous towards Unit 5. Unit 6 is variably altered by dolomitization and silicification and contains some smithsonite mineralization near its contact with Unit 5.

Unit 7 Wavy Banded Limestone

Unit 7 consists of wavy banded, silty light and dark grey limestone. This unit is of regional extent and has a distinctive appearance.

Structure

Surface work indicates beds strike nearly north and dip 45-60° west. Mineralization generally appears to roughly parallel bedding. However, weak mineralization near the collars of holes 2 and 3 and 4 and 5 appears to dip flatter than bedding.

Mineralization and Alteration

Diamond drilling results are illustrated on Figures 2 to 10. The best intersections were obtained in holes 1, 2 and 4.

D.D.H. J-85-1 (Section 100+15N)

This hole intersected 13.11% zinc over a core length of 3.37 m from 2.43-5.80 m. Mineralization consisted of smithsonite in silicified-dolomitized limestone (Unit 5) and occurs in the uppermost beds of Unit 5 in the same stratigraphic position as the Mel. As this hole was collared in mineralization, the total true width of mineralization is unknown but could be as much as 11 m (Fig.3).

The main target of this hole was the down-dip projection of surface mineralization which the hole should have cut some 35 m below surface. However, only weak smithsonite - siderite - pyrite mineralization was intersected although silica or dolomite alteration persisted for the entire length of the hole. Jasperoidal silica with pyrite was intersected from 85.7 - 87.7 m and was assayed for gold with negative results.

D.D.H.'s J-85-2 and J-85-3 (Section 99+50N)

Near the collar of the hole 2, weak smithsonite mineralization grading 0.55% zinc over 4.40 m was intersected from 17.00 - 21.40 m (including 2.15% zinc over 0.70 m). This mineralization may correlate with near surface mineralization in hole 1 and also with low grade mineralization in hole 3.

From 50.00 - 77.18 m, hole 2 intersected pyrite - sphalerite - smithsonite mineralization with the best section assaying 7.96% zinc over 4.58 m from 72.60 - 77.18 m. Mineralization here consists of reddish-brown sphalerite in 1 to 3 mm grains disseminated in silicified limestone. This mineralization correlates with up-dip surface mineralization but does not extend down-dip very far as it was not intersected by hole 3. Only low grade zinc mineralization was intersected in hole 3 including some malachite on fractures. The lower part of hole 3 intersected some weakly altered limestone indicating that alteration is decreasing at depth. Hole 3 also intersected jasperoidal silica with pyrite from 122.22 - 122.83 m. Correlation with jasperoid in hole 1 indicates a 50° dip.

D.D.H.'s J-85-4 and J-85-5 (Section 99N)

Hole J-85-4 intersected 14.6% zinc over 2.15 m from 59.65 - 61.80 m. Mineralization consists of reddish-brown to honey colored sphalerite disseminated in silicified limestone. This mineralization appears to correlate with the best intersection in hole 2 and with surface mineralization some 45 m up-dip. The lower part of hole 4 intersected weakly altered limestone and dolomite with pyrite veining. Some pyrite contains minor dark fine sphalerite.

Hole 5 was drilled below hole 4 but intersected only low grade mineralization. An intersection of 3.78% zinc over 4.25 m from 50.00 - 54.24 m consists of oxidized pyrite and smithsonite and does not appear to correlate with the intersection in hole 4, but lies stratigraphically above it.

Hole J-85-6 (Section 102+75N)

This hole intersected very low grade zinc mineralization (smithsonite) associated with pyrite, malachite and siderite down-dip of surface mineralization. Less silica alteration was intersected than is present on surface. This hole also intersected 2.02% zinc over 0.50 m from 21.00 - 21.50 (smithsonite) in silicified shale.

Hole J-85-7 (Section 103+25N)

Hole 7 intersected 1.50% zinc over 2.69 m from 37.54 - 40.23 m comprising partly oxidized fine to medium grained reddish brown sphalerite and pyrite. This mineralization appears to correlate with surface mineralization near section 103 but is less extensive and lower grade.

Hole J-85-8 (Section 104N)

Hole 8 intersected only traces of zinc mineralization and only weak alteration with no silicification. Some unaltered limestone was intersected in the lower part of the hole.

D.D.H. J-85-9 (Section 98N)

Although there are no indications of zinc mineralization in surface outcroppings or soil geochemistry, hole 9 intersected 1.95% zinc over 2.50 m from 67.80 - 70.30 m. Mineralization consists of disseminated sphalerite (partly oxidized) in 1 mm grains. This intersection occurs some 20 m stratigraphically below the intersection in hole 4.

D.D.H. J-85-10 (Geochem Line R71, 550W)

This hole was drilled to test a strong zinc soil anomaly. The hole intersected dolomite and dolomite-quartz-breccia with pyrite and minor associated very fine dark sphalerite mixed with pyrite. The best section assayed 0.30% zinc over 2.20 m from 19.00 - 21.20 m.

TABLE 1

(10a)

| <u>Hole No.</u> | <u>Lat.(m)</u> | <u>Dep.(m)</u> | <u>Elev.(m)</u> | <u>Azimuth</u> ^o | <u>Dip</u> ^o | <u>Total Depth(m)</u> | <u>Intercept (m)</u> | <u>Core Length(m)</u> | <u>% Zinc</u> |
|-----------------|----------------|----------------|-----------------|-----------------------------|-------------------------|-----------------------|----------------------|-----------------------|---------------|
| J-85-1 | 100+15 | 99+54 | 1107.0 | 90 | -50 | 98.14 | 2.43-5.80 | 3.37 | 13.11 |
| | | | | | | | 5.80-46.60 | 40.80 | 0.21 |
| | | | | | | | 62.20-65.20 | 3.00 | 0.02 |
| | | | | | | | 85.70-90.00 | 4.30 | 10.01 |
| J-85-2 | 99+47 | 99+26 | 1103.1 | 90 | -48 | 105.77 | 17.00-21.40 | 4.40 | 0.55 |
| | | | | | | | 21.40-50.00 | 28.60 | 0.02 |
| | | | | | | | 50.00-51.40 | 1.40 | 5.65 |
| | | | | | | | 51.40-59.05 | 7.65 | 0.53 |
| | | | | | | | 59.05-61.50 | 2.45 | 3.17 |
| | | | | | | | 61.50-72.60 | 11.10 | 0.20 |
| | | | | | | | 72.60-77.18 | 4.58 | 7.96 |
| 77.18-89.20 | 12.02 | 0.14 | | | | | | | |
| J-85-3 | 99+47 | 99+26 | 1103.1 | 90 | -70 | 148.44 | 15.30-16.33 | 1.33 | 3.84 |
| | | | | | | | 40.00-43.00 | 3.00 | 0.12 |
| | | | | | | | 55.55-56.70 | 1.15 | 0.03 |
| | | | | | | | 58.65-61.65 | 3.00 | 0.07 |
| | | | | | | | 68.00-77.00 | 9.00 | 0.01 |
| J-85-4 | 98+98 | 99+25 | 1090.4 | 90 | -49 | 99.67 | 3.05-6.05 | 3.00 | 0.05 |
| | | | | | | | 9.75-15.85 | 6.10 | 0.25 |
| | | | | | | | 20.30-23.30 | 3.00 | 0.02 |
| | | | | | | | 36.00-42.00 | 6.00 | 0.15 |
| | | | | | | | 44.81-59.65 | 14.84 | 0.10 |
| | | | | | | | 59.65-61.80 | 2.15 | 14.60 |
| | | | | | | | 61.80-64.80 | 3.00 | 0.16 |
| | | | | | | | 88.60-91.20 | 2.60 | 0.27 |

TABLE 1 (Cont'd)

(10b)

| <u>Hole No.</u> | <u>Lat. (m)</u> | <u>Dep. (m)</u> | <u>Elev. (m)</u> | <u>Azimuth</u> ^o | <u>Dip</u> ^o | <u>Total Depth (m)</u> | <u>Intercept (m)</u> | <u>Core Length (m)</u> | <u>% Zinc</u> |
|-----------------|----------------------------|-----------------|------------------|-----------------------------|-------------------------|------------------------|--|------------------------------|------------------------------|
| J-85-5 | 98+98 | 99+25 | 1090.4 | 90 | -70 | 90.53 | 3.66-5.00 25.30-28.30 42.30-44.10 50.00-54.25 | 1.34 3.00 1.80 4.25 | 0.39 0.08 0.17 3.78 |
| J-85-6 | 102+83 | 99+31 | 1098.9 | 90 | -49 | 118.87 | 21.00-21.50 62.20-64.30 90.30-90.95 98.32-98.90 | 0.50 2.10 0.65 0.58 | 2.02 0.04 0.11 0.01 |
| J-85-7 | 103+32 | 99+54 | 1093.1 | 90 | -47 | 89.00 | 37.54-40.23 | 2.69 | 1.50 |
| J-85-8 | 104+13 | 99+43 | 1083.7 | 90 | -47 | 85.95 | 20.20-21.95 | 1.75 | 0.06 |
| J-85-9 | 97+96 | 99+24 | 1065.1 | 90 | -46 | 105.77 | 62.55-64.60 67.80-70.30 | 2.05 2.50 | 0.22 1.95 |
| J-85-10 | Geochem Line R71N, 550W | | 960 approx. | 90 | -50 | 67.66 | 19.00-21.20 58.52-58.90 65.60-65.90 | 2.20 0.70 0.30 | 0.30 0.18 0.05 |

Stadia Survey

The initial claim post of the Jeri 3 claim was used as the starting point of the survey and assigned co-ordinates of 10,000 N and 10,000 E to correlate with the existing chain and compass grid. The base of the post was assigned an elevation of 1097.28 m (3600 ft.). This point had been assigned an elevation of 3,400 ft. in previous work. An azimuth was obtained from a compass using a declination of 31° . Only drill collars and main drill roads were surveyed and other roads were roughly plotted from crossing points on the existing grid.

Conclusions

- (1) Surface mapping and diamond drilling in the Jeri area have shown significant zinc mineralization and accompanying alteration to occur over a strike length of 550 m and a vertical range of 100 m+.
- (2) Three targets now exist for future exploration:
 - (a) Mineralization at the contact between calcareous shale and light grey limestone where mineralization occurs in both units.
 - (b) Mineralization up to 70 m stratigraphically below this contact.
 - (c) Mineralization an unknown distance below the calcareous shale contact associated with pyrite as was intersected in hole 10.
- (3) Correlation of intersections in holes 2 and 4 with surface mineralization suggests a southerly rake for better mineralization and silica alteration.
- (4) The best zinc grades are associated with high silica content.

(5) Based on both surface and drill hole evidence, individual good zinc intersections don't extend far along strike or dip but occur as lenses within a larger envelope of silicification and variable zinc content. The overall attitude of such mineralized zones appears to roughly parallel bedding.

(6) Insufficient data is available to determine whether the mineralization is syngenetic or epigenetic in origin.

Recommendations

As mineralization and alteration on the Jeri claims are part of a larger system, further exploration is warranted within this system to test near existing mineralization and also some distance down-dip or along strike.

Recommended work is as follows:

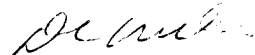
- (1) Conduct further sampling and mapping of surface exposures of mineralization using a combination of cat trenching and hand trenching.
- (2) Section 99+50N, 100+15N and 100+50N - drill one hole on each section to test near an intersection of 13.11% zinc over 3.37 m intersected by J-85-1, approximately 450 m total. These holes would also test other favourable stratigraphy down-dip and establish the dip of the contact between Unit 5 and Unit 6.
- (3) Section 98N and 99N - drill one hole on each section to test favourable stratigraphy down-dip of previous drilling, approximately 300 m in total.

- (4) Section 102N - drill one hole to test south of and below surface mineralization - total 80 m.
- (5) Geochem anomaly line R71W (near hole J-85-10) - drill 2 additional holes, one along strike and one further down dip - total 150m.
Total proposed drilling: 980 m.
- (6) Extend the Jeri grid northward and conduct line cutting, mapping and geochemical sampling near smithsonite occurrences.

The cost of the preceding recommended work is estimated as follows:

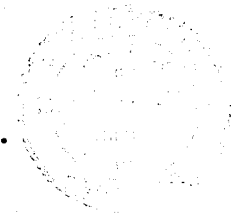
| | |
|--|------------------|
| (1) Mapping and sampling of surface exposures | \$ 25,000 |
| (2) Diamond Drilling 980 m @ \$148/m | 145,040 |
| (3) Line cutting, mapping and geochemical sampling | <u>25,000</u> |
| | <u>\$195,040</u> |

Respectfully submitted,



D. C. Miller, P.Eng.

Oct. 22, 1985



STATEMENT OF COSTS AUGUST 6 - OCTOBER 23, 1985

| | | |
|--|-------------|---------------------|
| Wages and Salaries | 91 man-days | \$ 19,625.00 |
| Diamond Drilling Charges (E. Caron Drilling Ltd.) | | 75,963.19 |
| Chartered Aircraft (Frontier Helicopters and Air North) | | 30,514.30 |
| Drill and Camp Fuel | | 3,707.26 |
| Assays | | 1,022.75 |
| John Deere 350 Cat | | 6,000.00 |
| Ferret Tractor | | 1,225.00 |
| Field Equipment | | 1,250.00 |
| 1981 Suburban 4W Drive | | 900.00 |
| Food & Accomodation | | 935.40 |
| Expediting and Miscellaneous | | 1,611.62 |
| Transit Rental | | 360.00 |
| Telephone | | 425.00 |
| Report Typing & Printing | | <u>200.00</u> |
| | Total | <u>\$143,739.52</u> |

LIST OF PERSONNEL, ADDRESSES AND DATES EMPLOYED

- (1) D.C. Miller, 769 Fraser St., Kamloops, B.C. V2C 3H1
August 6 - September 20, September 26-27, 30, October 1-4, 7-11,
15-18, 22, 1985

- (2) Lynn Lindstrom, c/o P.O. Box 35, Watson Lake, Yukon,
August 9-17, 30-31, September 1-11, 1985

- (3) Ron Fedorak, Box 512, Watson Lake, Yukon Y0A 1C0
September 6-14, 1985

- (4) E. Caron Diamond Drilling Ltd., 7 Roundel Road, Whitehorse, Yukon
Y1A 3H3
4 drillers and 1 cook, August 16 - September 10, 1985.

STATEMENT OF QUALIFICATIONS

I, David C. Miller of 769 Fraser Street, Kamloops, B.C., do hereby certify that:

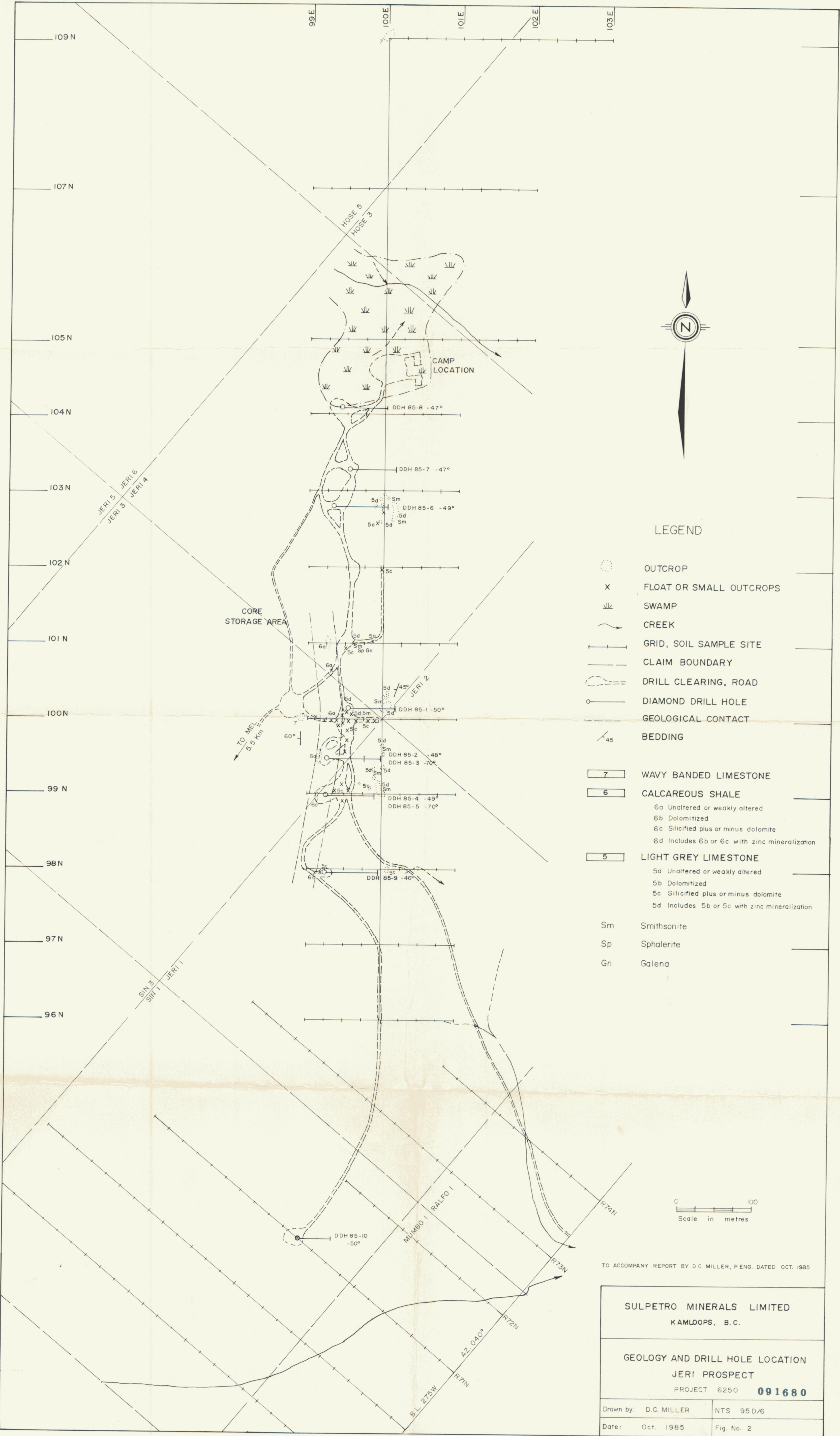
1. I am a graduate of the University of B.C. and obtained a B.A.Sc. degree in Geological Engineering in 1959.
2. I have been employed in mining geology and mineral exploration for 26 years.
3. I am a Registered Professional Engineer in the Province of B.C.
4. I supervised the work described in this report.



D.C. Miller

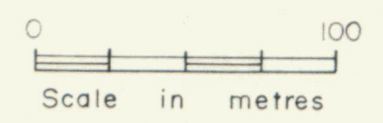
D.C. Miller, P.Eng.

October 23, 1985



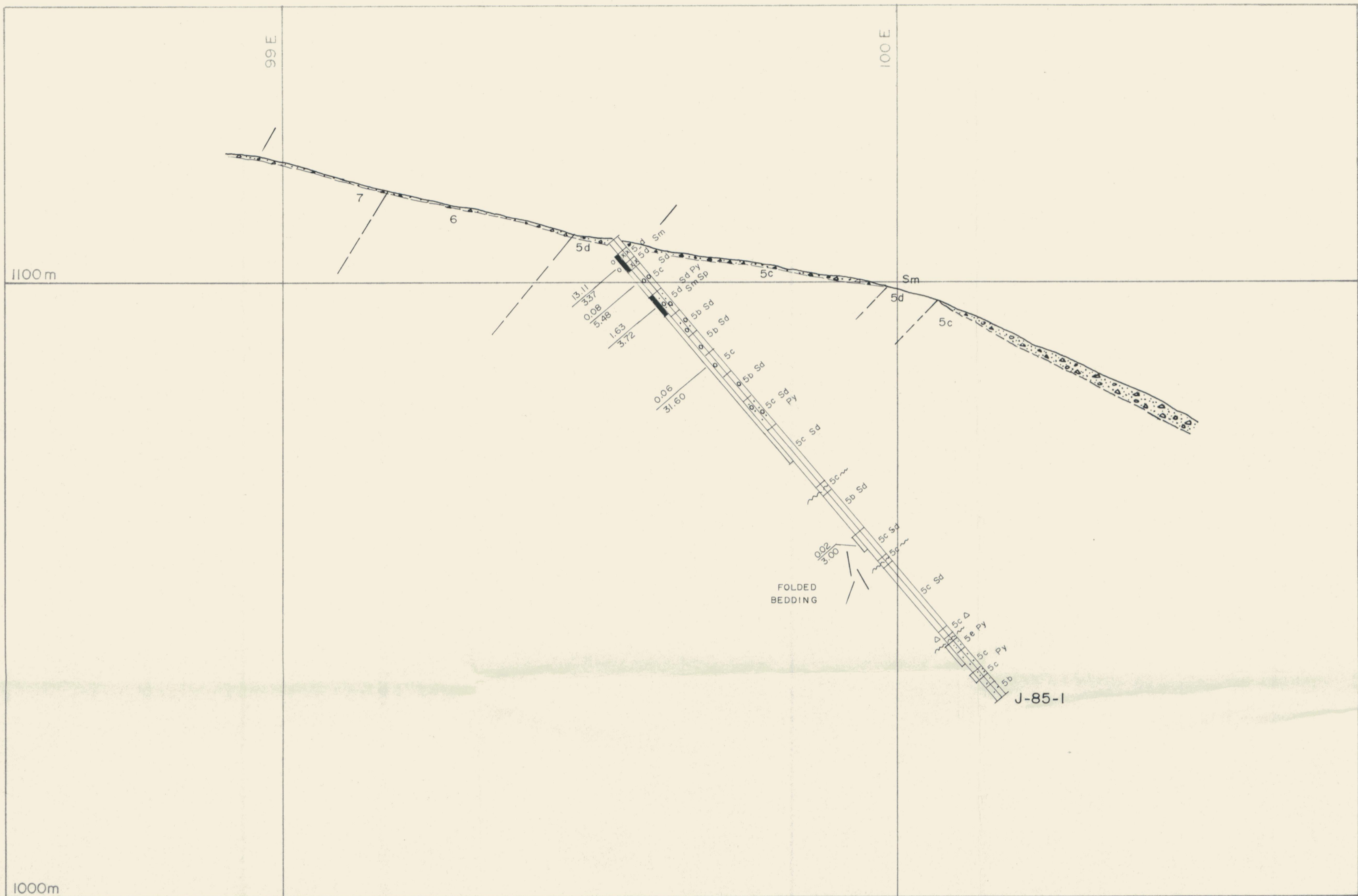
LEGEND

- OUTCROP
- FLOAT OR SMALL OUTCROPS
- SWAMP
- CREEK
- GRID, SOIL SAMPLE SITE
- CLAIM BOUNDARY
- DRILL CLEARING, ROAD
- DIAMOND DRILL HOLE
- GEOLOGICAL CONTACT
- BEDDING
- WAVY BANDED LIMESTONE
- CALCAREOUS SHALE
 - 6a Unaltered or weakly altered
 - 6b Dolomitized
 - 6c Silicified plus or minus dolomite
 - 6d Includes 6b or 6c with zinc mineralization
- LIGHT GREY LIMESTONE
 - 5a Unaltered or weakly altered
 - 5b Dolomitized
 - 5c Silicified plus or minus dolomite
 - 5d Includes 5b or 5c with zinc mineralization
- Sm Smithsonite
- Sp Sphalerite
- Gn Galena



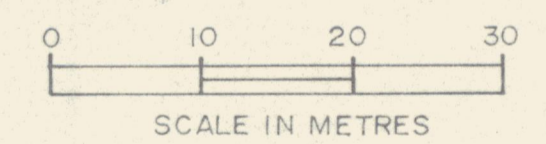
TO ACCOMPANY REPORT BY D.C. MILLER, PENG. DATED OCT. 1985

| | |
|--|------------|
| SULPETRO MINERALS LIMITED KAMLOOPS, B.C. | |
| GEOLOGY AND DRILL HOLE LOCATION JERI PROSPECT PROJECT 6250 091680 | |
| Drawn by: D.C. MILLER | NTS 95 D/6 |
| Date: Oct. 1985 | Fig. No. 2 |



LEGEND

- OVERBURDEN
- WAVY BANDED LIMESTONE
- CALCAREOUS SHALE
 - 6a Unaltered or weakly altered
 - 6b Dolomitized
 - 6c Silicified plus or minus dolomite
 - 6d Zinc mineralization with 6b or 6c
- LIGHT GREY LIMESTONE
 - 5a Unaltered or weakly altered
 - 5b Dolomitized
 - 5c Silicified plus or minus dolomite
 - 5d Zinc mineralization with 5b or 5c
 - 5e Jasperoidal silica
- Sm Smithsonite
- Sp Sphalerite
- Gn Galena
- Py Pyrite
- Sd Siderite
- Sulfides
- Oxides
- Broken core
- Fault or cavity
- Breccia
- Bedding angle (interpreted)
- $\frac{13.11}{3.37}$ % Zinc / Core length(m)

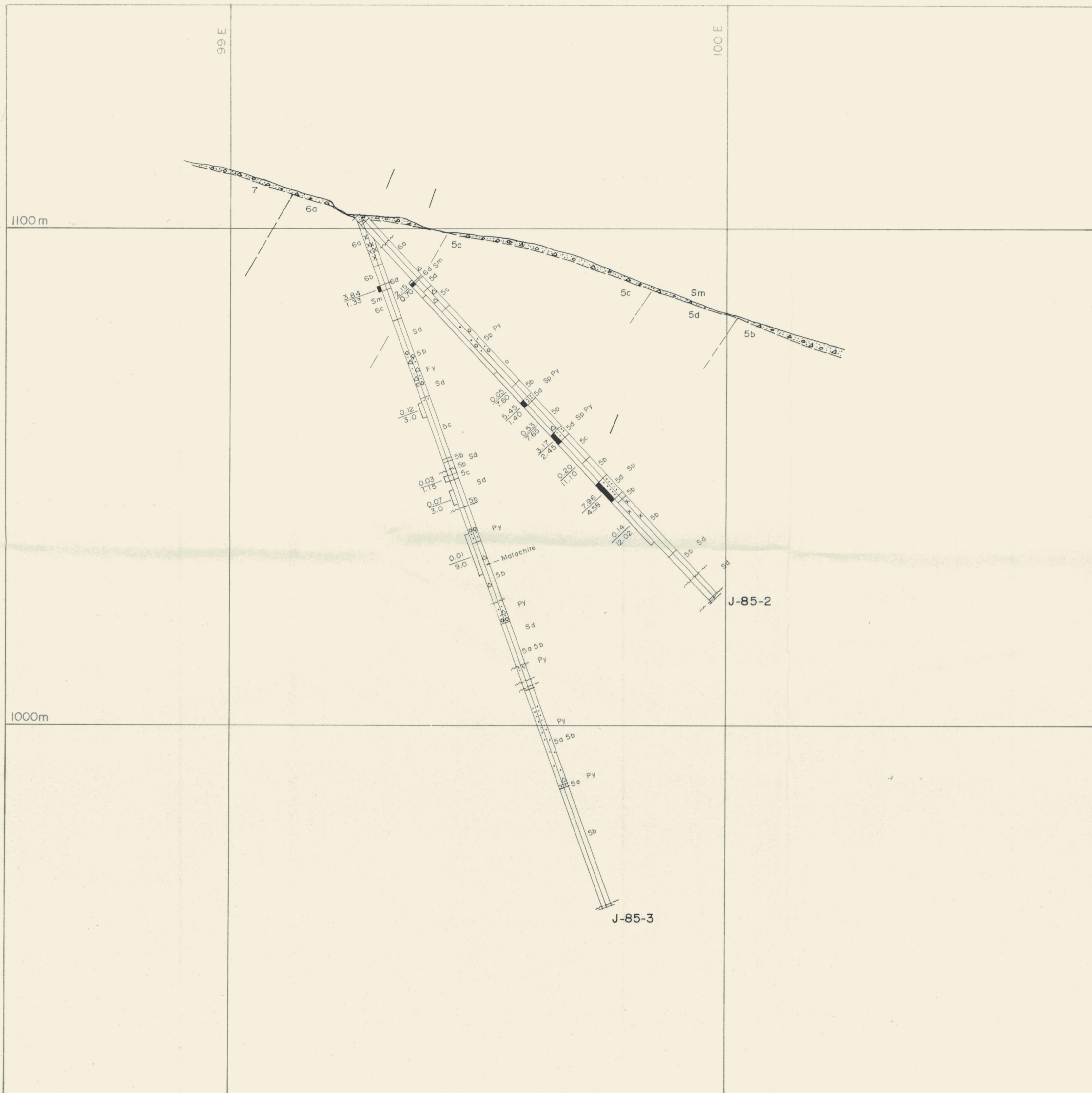


TO ACCOMPANY REPORT BY D.C. MILLER, PENG DATED OCT. 1985

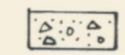
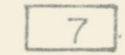
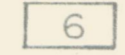
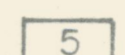
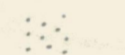
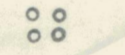
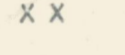



SULPETRO MINERALS LIMITED
KAMLOOPS, B.C.

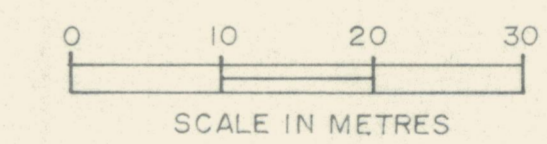
DIAMOND DRILLING, JERI PROSPECT
SECTION 100+15N **091680**

| | | |
|-----------------------|------------------|------------|
| DRAWN BY: D.C. MILLER | PROJECT NO. 6250 | NTS 95D/6 |
| DATE: OCT. 1985 | SCALE: AS SHOWN | FIG. NO. 3 |



LEGEND

-  OVERBURDEN
-  WAVY BANDED LIMESTONE
-  CALCAREOUS SHALE
 - 6a Unaltered or weakly altered
 - 6b Dolomitized
 - 6c Silicified plus or minus dolomite
 - 6d Zinc mineralization with 6b or 6c
-  LIGHT GREY LIMESTONE
 - 5a Unaltered or weakly altered
 - 5b Dolomitized
 - 5c Silicified plus or minus dolomite
 - 5d Zinc mineralization with 5b or 5c
 - 5e Jasperoidal silica
- Sm Smithsonianite
- Sp Sphalerite
- Gn Galena
- Py Pyrite
- Sd Siderite
-  Sulfides
-  Oxides
-  Broken core
-  Fault or cavity
-  Breccia
-  Bedding angle (interpreted)
- $\frac{13.11}{3.37}$ % Zinc
Core length (m)



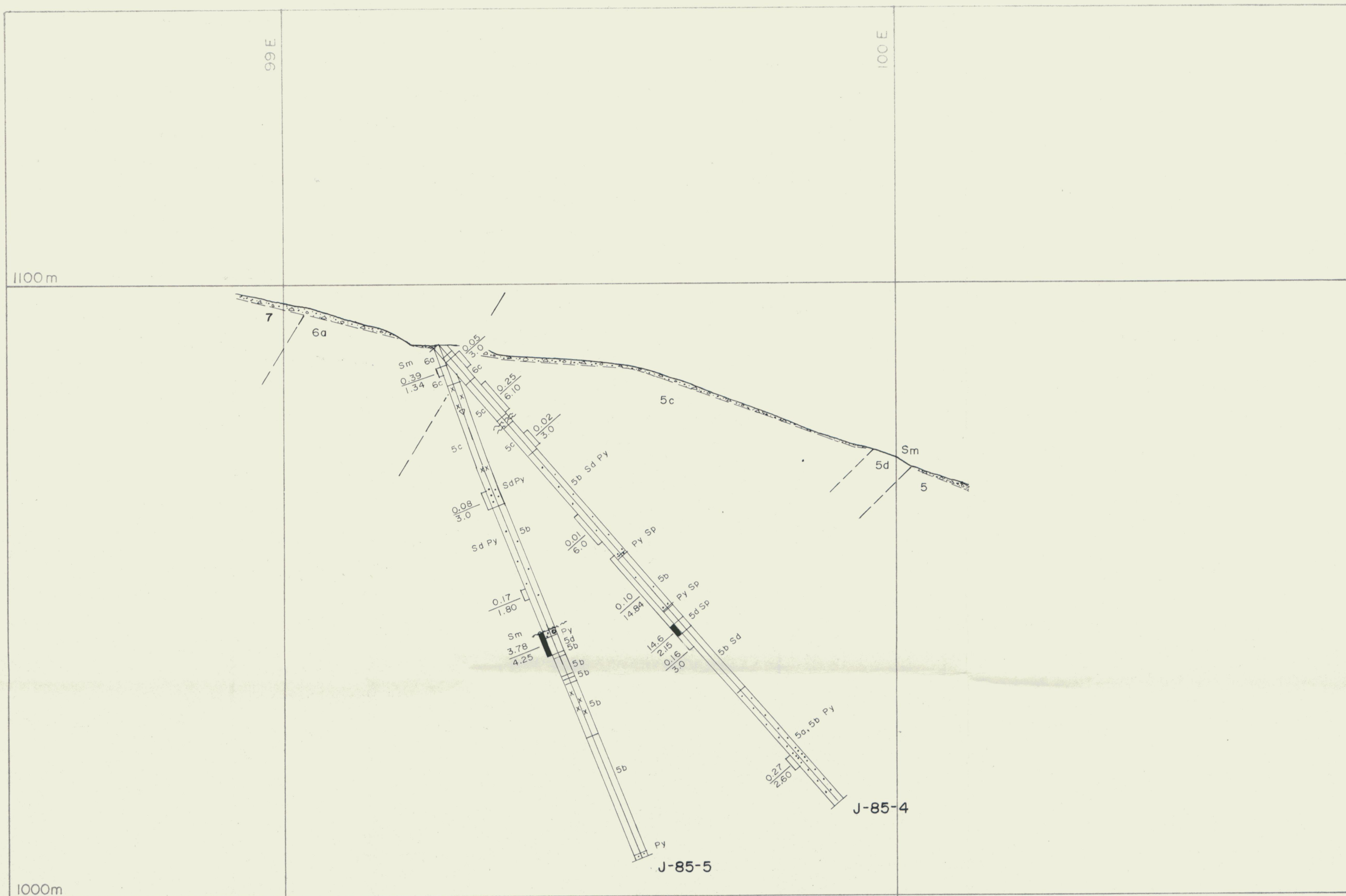
TO ACCOMPANY REPORT BY D.C. MILLER, PENG DATED OCT. 1985

SULPETRO MINERALS LIMITED
KAMLOOPS, B.C.

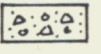
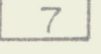
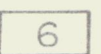
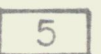
DIAMOND DRILLING, JERI PROSPECT
SECTION 99+50N

091680







| | | |
|-----------------------|------------------|------------|
| DRAWN BY: D.C. MILLER | PROJECT NO. 6250 | NTS 95D/6 |
| DATE: OCT. 1985 | SCALE: AS SHOWN | FIG. NO. 4 |

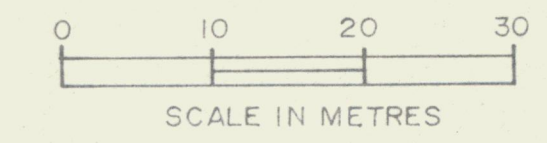


LEGEND

-  OVERBURDEN
-  WAVY BANDED LIMESTONE
-  CALCAREOUS SHALE
 - 6a Unaltered or weakly altered
 - 6b Dolomitized
 - 6c Silicified plus or minus dolomite
 - 6d Zinc mineralization with 6b or 6c
-  LIGHT GREY LIMESTONE
 - 5a Unaltered or weakly altered
 - 5b Dolomitized
 - 5c Silicified plus or minus dolomite
 - 5d Zinc mineralization with 5b or 5c
 - 5e Jasperoidal silica

- Sm Smithsonite
- Sp Sphalerite
- Gn Galena
- Py Pyrite
- Sd Siderite

-  Sulfides
-  Oxides
-  Broken core
-  Fault or cavity
-  Breccia
-  Bedding angle (interpreted)
- $\frac{13.11}{3.37}$ % Zinc
Core length(m)



TO ACCOMPANY REPORT BY D.C. MILLER, P. ENG. DATED OCT. 1985

SULPETRO MINERALS LIMITED
KAMLOOPS, B.C.











DIAMOND DRILLING, JERI PROSPECT
SECTION 99 N

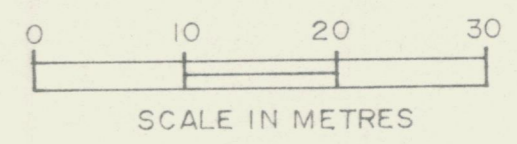
091680

| | | |
|-----------------------|------------------|------------|
| DRAWN BY: D.C. MILLER | PROJECT NO. 6250 | NTS 95D/6 |
| DATE: OCT. 1985 | SCALE: AS SHOWN | FIG. NO. 5 |



LEGEND

-  OVERBURDEN
-  WAVY BANDED LIMESTONE
-  CALCAREOUS SHALE
 - 6a Unaltered or weakly altered
 - 6b Dolomitized
 - 6c Silicified plus or minus dolomite
 - 6d Zinc mineralization with 6b or 6c
-  LIGHT GREY LIMESTONE
 - 5a Unaltered or weakly altered
 - 5b Dolomitized
 - 5c Silicified plus or minus dolomite
 - 5d Zinc mineralization with 5b or 5c
 - 5e Jasperoidal silica
- Sm Smithsonianite
- Sp Sphalerite
- Gn Galena
- Py Pyrite
- Sd Siderite
-  Sulfides
-  Oxides
-  Broken core
-  Fault or cavity
-  Breccia
-  Bedding angle (interpreted)
- $\frac{13.11}{3.37}$ % Zinc
Core length (m)



TO ACCOMPANY REPORT BY DC.MILLER, P.ENG. DATED OCT. 1985

SULPETRO MINERALS LIMITED
KAMLOOPS, B.C.

DIAMOND DRILLING, JERI PROSPECT
SECTION 102+75N **091680**

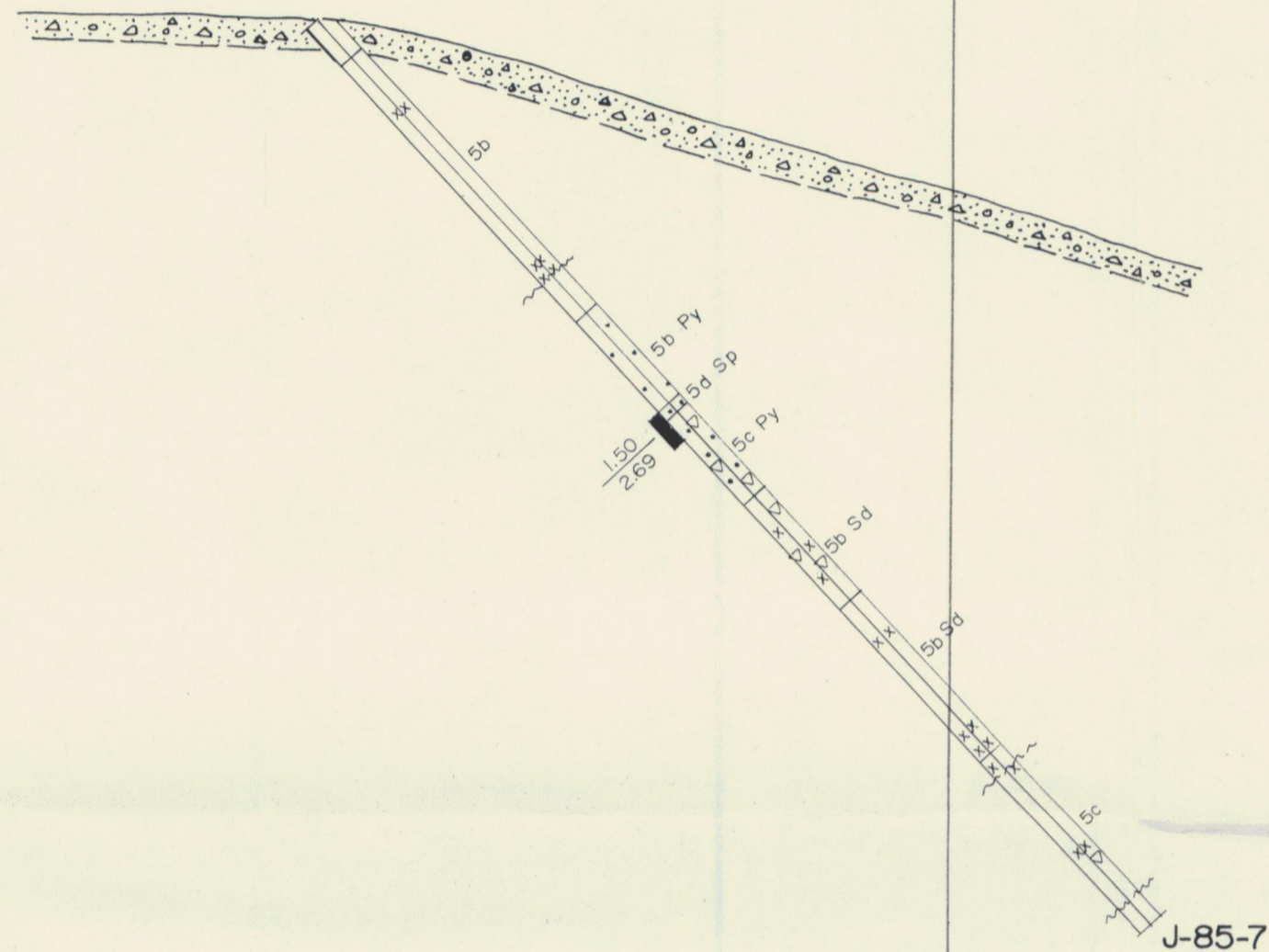
| | | |
|-----------------------|------------------|------------|
| DRAWN BY: D.C. MILLER | PROJECT NO. 6250 | NTS 95D/6 |
| DATE: OCT. 1985 | SCALE: AS SHOWN | FIG. NO. 6 |

99 E

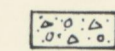
100 E

1100m

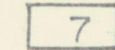
1000m



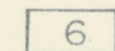
LEGEND



OVERBURDEN

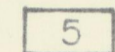


WAVY BANDED LIMESTONE



CALCAREOUS SHALE

- 6a Unaltered or weakly altered
- 6b Dolomitized
- 6c Silicified plus or minus dolomite
- 6d Zinc mineralization with 6b or 6c



LIGHT GREY LIMESTONE

- 5a Unaltered or weakly altered
- 5b Dolomitized
- 5c Silicified plus or minus dolomite
- 5d Zinc mineralization with 5b or 5c
- 5e Jasperoidal silica

Sm Smithsonite

Sp Sphalerite

Gn Galena

Py Pyrite

Sd Siderite

⋯ Sulfides

⊘ Oxides

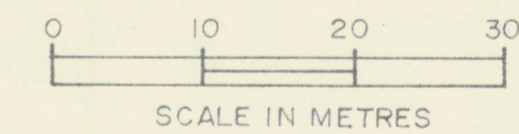
x x Broken core

⌚ Fault or cavity

△ Breccia

/ Bedding angle (interpreted)

| | |
|----------------------|----------------|
| $\frac{13.11}{3.37}$ | % Zinc |
| | Core length(m) |



TO ACCOMPANY REPORT BY D.C.MILLER, P.ENG. DATED OCT. 1985

SULPETRO MINERALS LIMITED
KAMLOOPS, B.C.

DIAMOND DRILLING, JERI PROSPECT
SECTION 103+25N

091680.

DRAWN BY: D.C. MILLER

PROJECT NO. 6250

NTS 95D/6

DATE: OCT 1985

SCALE AS SHOWN

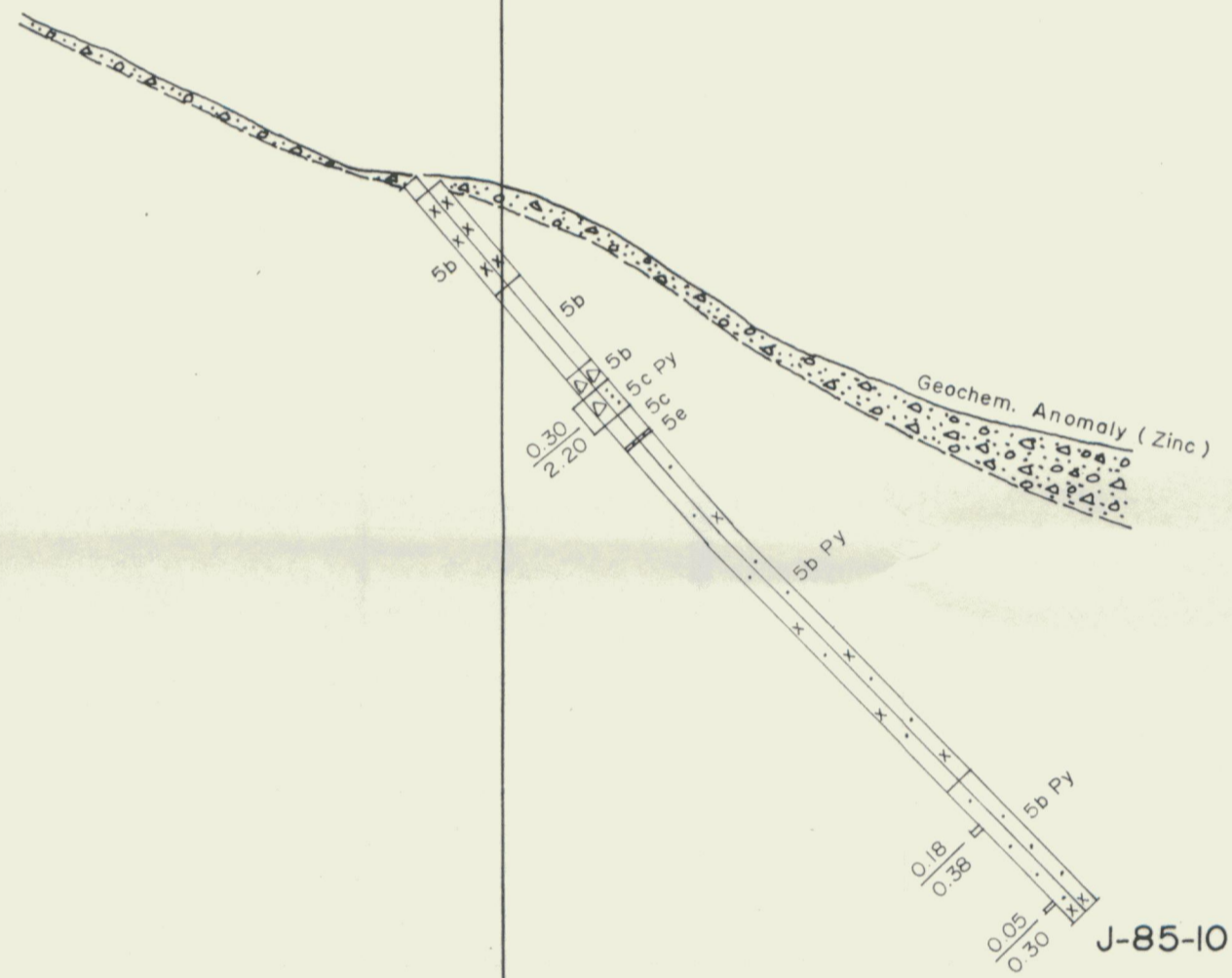
FIG. NO. 7

99 E





100 E

1000m







900m

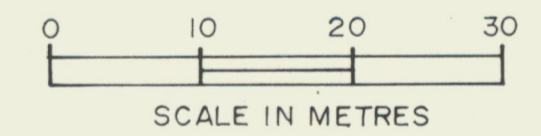


LEGEND

-  OVERBURDEN
-  WAVY BANDED LIMESTONE
-  CALCAREOUS SHALE
 - 6a Unaltered or weakly altered
 - 6b Dolomitized
 - 6c Silicified plus or minus dolomite
 - 6d Zinc mineralization with 6b or 6c
-  LIGHT GREY LIMESTONE
 - 5a Unaltered or weakly altered
 - 5b Dolomitized
 - 5c Silicified plus or minus dolomite
 - 5d Zinc mineralization with 5b or 5c
 - 5e Jasperoidal silica

- Sm Smithsonite
- Sp Sphalerite
- Gn Galena
- Py Pyrite
- Sd Siderite

-  Sulfides
-  Oxides
-  Broken core
-  Fault or cavity
-  Breccia
-  Bedding angle (interpreted)
- $\frac{13.11}{3.37}$ % Zinc
Core length(m)



TO ACCOMPANY REPORT BY D.C. MILLER, P. ENG. DATED OCT. 1985

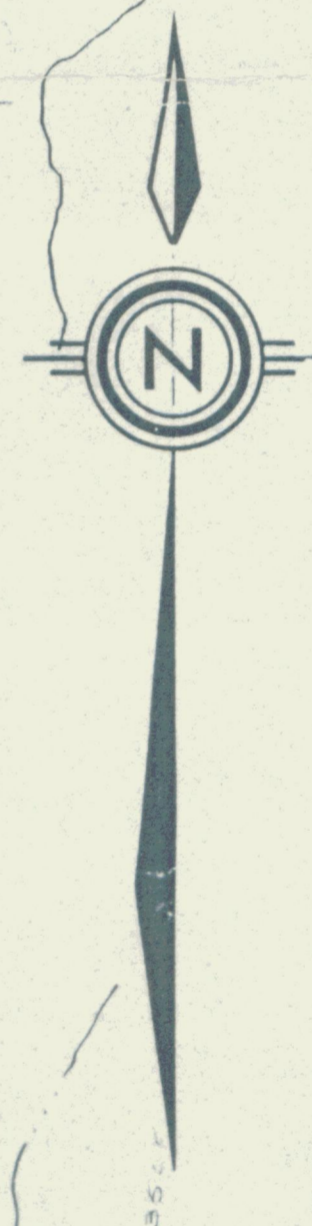
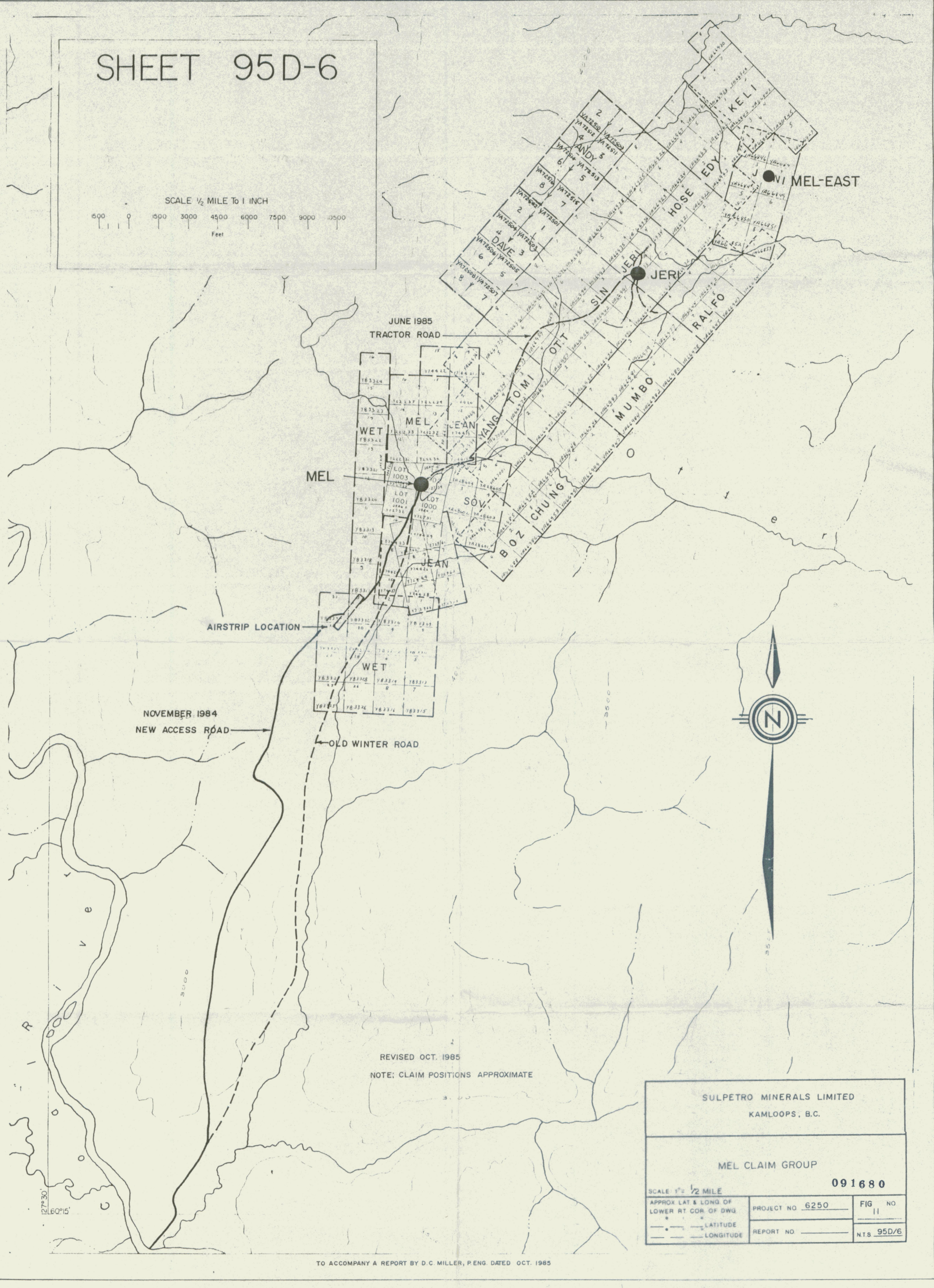
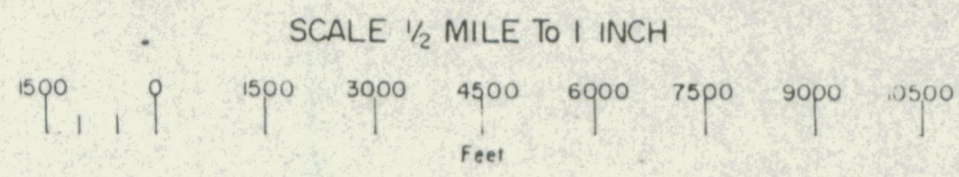
SULPETRO MINERALS LIMITED
KAMLOOPS, B.C.

DIAMOND DRILLING, JERI PROSPECT
SECTION D.D.H. J-85-10

091680

| | | |
|-----------------------|------------------|-------------|
| DRAWN BY: D.C. MILLER | PROJECT NO. 6250 | NTS 95D/6 |
| DATE: OCT. 1985 | SCALE: AS SHOWN | FIG. NO. 10 |

SHEET 95D-6



REVISED OCT. 1985
NOTE: CLAIM POSITIONS APPROXIMATE

| | | |
|---|------------------|--------------|
| SULPETRO MINERALS LIMITED KAMLOOPS, B.C. | | |
| MEL CLAIM GROUP | | |
| 091680 | | |
| SCALE 1" = 1/2 MILE | | |
| APPROX LAT & LONG OF LOWER RT COR OF DWG | PROJECT NO. 6250 | FIG NO. 11 |
| —•— LATITUDE | REPORT NO. | N.T.S. 95D/6 |
| —•— LONGITUDE | | |

| | | | | | | | |
|---------------------|----------------------------|------------------------|-----------------------------------|-----------------------------------|------|--|-------------------------|
| PROPERTY MEL | TP OR AREA | AZIMUTH 090° | DATE STARTED August 17, 1985 | CORRECTED DIP TESTS 48.8m -50° | | | LOCATION SKETCH OF HOLE |
| PROJECT 6250 | LOT & CONC. | DIP -50° Collar | DATE COMPLETED August 22, 1985 | 97.5m | -50° | | |
| CLAIM NO. JERI-3 | CO-ORDINATES. 10015.5 N | LENGTH 98.14 m | DRILLED BY E. Caron | | | | |
| GRID NO. | 9953.9 E | COLLAR ELEV. 1107.0 | LOGGED BY D. C. Miller | | | | |

| METRES | | SECTION | DESCRIPTION | ASSAYS | | | | |
|--------|-------|---------|--|------------|-------|-------|--------|--------|
| FROM | TO | | | SAMPLE NO. | FROM | TO | LENGTH | % Zinc |
| | | | B.Q. Core | | | | | |
| 0 | 2.43 | | OBJECTIVES :- Casing, no core | | | | | |
| 2.43 | 4.40 | | DOLOMITIZED-SILICIFIED MINERALIZED LIMESTONE Grey to rusty brown, leached, pitted, broken core with box-work structures in cavities with smithsonite mineralization, good zinc zap reaction, some pyrolusite on fracture surfaces, approx. 80% core recovery. 4.10 - 2 cm gouge, weak 80° banding. | 23501 | 2.43 | 4.40 | 1.97 | 21.80 |
| 4.40 | 5.80 | | DOLOMITIZED-SILICIFIED LIMESTONE Similar to preceding, but mineralization is restricted to a network of fine fractures at all angles. Fracture surfaces have dendritic pyrolusite. Good zinc reaction along fractures, 90% core recovery. | 23502 | 4.40 | 5.80 | 1.40 | 0.87 |
| | | | | Average | 2.43 | 5.80 | 3.37 | 13.11 |
| 5.80 | 11.28 | | DOLOMITIZED-SILICIFIED LIMESTONE Similar to preceding but decreasing zinc reaction. Core is cut by a number of white quartz veins up to 1 cm and generally at 10-20° to core axis, local brown calcite-siderite is associated with quartz veins as fillings along edges and as grains to 5 mm, some zinc reaction along fractures, 95-100% core recovery with broken core from (5.80-8.23) and then good core in pieces to 1/2 m. | 23503 | 5.80 | 8.50 | 2.70 | 0.09 |
| | | | | 23504 | 8.50 | 11.28 | 2.78 | 0.07 |
| | | | | Average | 5.80 | 11.28 | 5.48 | 0.08 |
| 11.28 | 15.80 | | SILICIFIED DOLOMITIZED LIMESTONE Pale grey to light brown, generally increased silica content, considerable fine (1 mm) oxidized, rusty pyrite and brown sphalerite ? in siliceous sections and as rusty veins up to 2 mm some brown calcite-siderite grains to 8 mm, local leached, vuggy core with rusty discoloration, good zinc zap reaction, good core, 99% recovery. | 23505 | 11.28 | 14.30 | 3.02 | 1.53 |
| | | | | 23506 | 14.30 | 15.00 | 0.70 | 2.08 |
| | | | | Average | 11.28 | 15.00 | 3.72 | 1.63 |

| METRES | | SECTION | DESCRIPTION | | | | | ASSAYS | | | | | |
|--------|-------|---------|--|------------|-------|-------|--------|--------|--|--|------|--|--|
| FROM | TO | | | SAMPLE NO. | FROM | TO | LENGTH | % Zinc | | | | | |
| 15.80 | 20.33 | | DOLOMITIZED LIMESTONE Pale brown to light grey, some rusty discoloration along fractures, about 10% quartz as white veins and blobs up to 5 cm, minor rusty pyrite and siderite as fine fracture filling material associated with quartz, some zinc reaction, good core, 99% recovery. | 23507 | 15.00 | 18.00 | 3.00 | | | | 0.09 | | |
| | | | | 23508 | 18.00 | 20.33 | 2.33 | | | | 0.08 | | |
| 20.33 | 24.30 | | DOLOMITIZED LIMESTONE Similar to preceding, good zinc reaction at (20.33-21.30) and (23.47-24.30). Minor brown calcite-siderite in grains to 2 cm and along fractures. Some HCL reaction in groundmass and along fine veinlets, 99% core recovery. | 23509 | 20.33 | 21.80 | 1.47 | | | | 0.30 | | |
| | | | | 23510 | 21.80 | 24.80 | 3.00 | | | | 0.12 | | |
| 24.30 | 28.87 | | SILICIFIED LIMESTONE Pale grey, hard, minor dolomite, minor zinc reaction, pervasive grey silica is cut by a network of fine (up to 2 mm) quartz-carbonate veinlets minor brown calcite-siderite, some HCL reaction along hair-thin veinlets. | 23511 | 24.80 | 27.80 | 3.00 | | | | 0.04 | | |
| 28.87 | 33.90 | | DOLOMITIZED LIMESTONE Pale grey to pale brown, local short siliceous sections, minor calcite-siderite in brown grains to 2 cm associated with irregular white quartz veins & masses, fair local zinc reaction, good core - 99% recovery, weak 60° banding @ 32 m, minor HCL reaction in groundmass & fine veinlets. | 23512 | 27.80 | 30.40 | 2.60 | | | | 0.08 | | |
| | | | | 23513 | 30.40 | 33.40 | 3.00 | | | | 0.03 | | |
| 33.90 | 40.03 | | SILICIFIED LIMESTONE Medium to pale grey, minor brown, cut by a network of very fine quartz-dolomite-calcite veins, some zinc zap reaction at (34.50-36.42) minor brown calcite-siderite as fine veinlet healing mineralization, good core, core breaks @ 30-90°, prominent 30° fracture at 36.40 m, core recovery about 99% (36.00) - Minor fine oxidized pyrite and reddish sphalerite ? (39.63-40.03) - Striped texture, white dolomite-quartz, 2 mm stripes on grey groundmass, 30-50° banding, some 3 mm vugs. | 23514 | 33.40 | 36.40 | 3.00 | | | | 0.02 | | |
| | | | | 23515 | 36.40 | 39.40 | 3.00 | | | | 0.01 | | |
| | | | | 23516 | 39.40 | 42.40 | 3.00 | | | | 0.01 | | |
| | | | | 23517 | 42.40 | 45.40 | 3.00 | | | | 0.01 | | |

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|---------------------|-------------------------|------------------------|-----------------------------------|---------------------|------|--|-------------------------|
| PROPERTY Mel | TP OR AREA | AZIMUTH 090° collar | DATE STARTED August 21, 1985 | CORRECTED DIP TESTS | | | LOCATION SKETCH OF HOLE |
| PROJECT 6520 | LOT & CONC. | DIP -48° | DATE COMPLETED August 24, 1985 | Depth | | | |
| CLAIM NO. JERI-3 | CO-ORDINATES 9947.2N | LENGTH 105.77 | DRILLED BY E. Caron | 51.8m | -47° | | |
| GRID NO. | 9925.9E | COLLAR ELEV. 1103.1 | LOGGED BY Miller & Ginn | 103.6m | -46° | | |
| | | | | | | | |

| METRES | | SECTION | DESCRIPTION | CORRECTED DIP TESTS | | | ASSAYS | | | |
|--------|-------|---------|---|---------------------|-------|-------|--------|-------|------|--|
| FROM | TO | | | SAMPLE NO. | FROM | TO | LENGTH | %Zinc | | |
| 0 | 1.83 | | OBJECTIVES:- Casing - Clay till | | | | | | | |
| 1.83 | 11.0 | | CALCAREOUS SHALE Banded dark grey and light brown, core angle 60° bands 2-8 mm thick cut by 3% white calcite veinlets of varying angles, 1-3mm thick. Core is broken into buttons about 5mm thick but very good recovery. The brown bands are calcareous with f.g. pyrite. The brown colour is likely due to surface oxidation. The dark bands are non-calcareous, lack pyrite. No zinc reaction. Fault gouge at 8.0m, about 4cms thick. | 23522 | 17.00 | 17.70 | 0.70 | | 0.13 | |
| 11.0 | 17.70 | | CALCAREOUS SHALE Silty, banded dark grey and light grey. From 16.4 to 17.0m, a breccia zone with 70% pale grey siliceous dolomite matrix, Zinc reaction locally from 17.0 to 17.7m | 23523 | 17.70 | 18.40 | 0.70 | | 2.15 | |
| 17.70 | 18.00 | | SILICIFIED ROCK (after Shale) Medium to dark grey, hard, very fine grained, fair zinc reaction along fine quartz-carbonate veins and near fine pit holes in core containing smithsonite, original rock probably shale, good core, 99% recovery. | 23524 | 18.40 | 21.40 | 3.00 | | 0.28 | |
| 18.00 | 20.40 | | SILICIFIED - DOLOMITIZED ROCK (after limestone) Pale grey, white, pale brown, cut by a network of fine fractures healed by quartz and minor calcite, large 4cm quartz vein (white) at 0-20° at (18.59-19.40), brecciated texture locally with a few dark fragments, possibly originally shale, fair zinc reaction at (18.00-18.30) and 19.50-20.30, good core, 99% recovery. | average | 17.00 | 21.40 | 4.40 | | 0.55 | |
| 20.40 | 25.93 | | SILICIFIED - DOLOMITIZED ROCK (after limestone) Similar to above but only minor local zinc reaction; light grey to pale brown dolomite are predominant over pale grey pervasive silica. | | | | | | | |

| METRES | | SECTION | DESCRIPTION | | | | | ASSAYS | |
|--------|-------|---------|--|------------|-------|-------|--------|--------|------------------|
| FROM | TO | | | SAMPLE NO. | FROM | TO | LENGTH | % Zinc | |
| 51.33 | 59.05 | | DOLOMITIZED ROCK (after limestone) Medium grey to brown matrix is cut 30% lighter coloured, irregular, carbonate - quartz veins, minor pervasive silica, good zinc reaction at (53.40-53.85), (54.30-54.80), (55.50-56.40) and (57.90-59.05) - mainly along fine fractures. -local breccia texture has developed from intense veining and replacement, good core, 99% recovery. | | | | | | |
| | | | | 23561 | 51.40 | 54.40 | 3.0 | | 0.33 |
| | | | | 23562 | 54.40 | 57.40 | 3.0 | | 0.48 |
| | | | | 23563 | 57.40 | 59.05 | 1.65 | | 0.99 |
| | | | | Average | 51.40 | 59.05 | 7.65 | | 0.53 |
| 59.05 | 61.26 | | MINERALIZED ZONE Dark grey green to medium grey, brecciated with dark grey green fragments (3 cm±) in a lighter grey-white matrix, generally siliceous with much fine-grained pyrite from (59.10-60.20) and fine-grained (1 MM) red-brown sphalerite peppered in dark breccia fragments from (60.44-61.00), good zinc reaction from (59.20-61.26). Generally good core with 99% recovery, local core angles at 70°. | | | | | | |
| | | | | 23564 | 59.05 | 60.44 | 1.39 | | 1.28 |
| | | | | 23565 | 60.44 | 61.50 | 1.06 | | 5.65 |
| | | | | Average | 59.05 | 61.50 | 2.45 | | 3.17 |
| 61.26 | 67.60 | | DOLOMITIZED-SILICIFIED ROCK (after limestone) Light to medium grey, some dark grey-green matrix rock cut by irregular pale colored carbonate-quartz veins (with quartz the inner part and carbonate the outer part), good core, 99% recovery. (67.10-67.30) Stylolites at 60° (61.26-64.00) Fair zinc reaction | | | | | | |
| | | | | 23566 | 61.50 | 64.50 | 3.0 | | 0.57 |
| | | | | 23567 | 64.50 | 67.50 | 3.0 | | 0.18 |
| 67.60 | 72.60 | | SILTY DOLOMITE (after limestone) Dark grey, local 65° banding, thin (2 mm) light colored bands and thicker (5 mm+) dark bands, reacts with HCL on scratched surface, veined by 10% fine quartz-carbonate veins mainly sub-parallel to banding, good core, 99% recovery. Local weak zinc reaction on veins. | | | | | | |
| | | | | 23568 | 67.50 | 70.50 | 3.0 | | <.01 |
| | | | | 23569 | 70.50 | 72.60 | 2.1 | | <=less than 0.01 |
| | | | | Average | 61.50 | 72.60 | 11.10 | | 0.20 |
| 72.60 | 77.18 | | MINERALIZED ZONE (after limestone) Dark grey to light grey siliceous host rock peppered by reddish brown sphalerite in 1 to 3 mm grains, 5% white quartz-carbonate veins at various angles, 10 cm of vuggy core at 72.60, | | | | | | |

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|---------------------|--------------------------|------------------------|-----------------------------------|---------------------|-----|--|-------------------------|
| PROPERTY MEL | TP OR AREA | AZIMUTH 090° | DATE STARTED August 24, 1985 | CORRECTED DIP TESTS | | | LOCATION SKETCH OF HOLE |
| PROJECT 6250 | LOT & CONC. | DIP -70° | DATE COMPLETED August 27, 1985 | 73.15 | 68° | | |
| CLAIM NO. JERI 3 | CO-ORDINATES. 9947.2N | LENGTH 148.44 | DRILLED BY E. Caron Ltd. | 146.30 | 69° | | |
| GRID NO. | 9925.9E | COLLAR ELEV. 1103.1 | LOGGED BY D.C. Miller | | | | |

| METRES | | SECTION | DESCRIPTION | ASSAYS | | | | |
|--------|-------|---------|---|------------|-------|-------|--------|-------|
| FROM | TO | | | SAMPLE NO. | FROM | TO | LENGTH | %Zinc |
| 0 | 1.22 | | BQ Core OBJECTIVES :- Casing | | | | | |
| 1.22 | 11.00 | | CALCAREOUS SHALE Consists of alternating pale grey to brown and darker grey beds from 1mm to 4cm thick. Lighter beds are calcareous and are commonly weathered pale brown because of oxidation. Beds are cut by about 2% carbonate-quartz veins at various angles. Bedding angle 40° at 7m, 30° at 10m. No zinc reaction. Good core recovery, about 95%, however core is broken to 9.75m. Broken core with brown clay at (2.5-2.7), (8.00-8.23) and (9.65-9.75). | | | | | |
| 11.00 | 15.30 | | DOLOMITIZED SHALE Similar to above but very minor brown limy bands. Core reacts with HLC on scratched surface. Bedding angles average 45° (to core axis). Good core, 95% recovery. 14.0 - 2cm gouge with fault at 50° (14.90-15.30) - alteration more intense, bedding destroyed. | | | | | |
| 15.30 | 16.33 | | MINERALIZED ZONE Grey and rusty brown silicified and dolomitized rock, probably originally shale, pitted and oxidized with good zinc reaction with smithsonite, intensely fractured and brecciated with fine quartz-carbonate veins healing fractures, 1cm of broken core at contacts. | 23576 | 15.30 | 16.33 | 1.33 | 3.84 |
| 16.33 | 22.79 | | DOLOMITIZED AND SILICIFIED ROCK (after shale?) Pale grey to pale brown comprising light colored dolomite and grey quartz which is veined and replaced by brownish dolomite healing a network | | | | | |

| METRES | | SECTION | DESCRIPTION | | | | | ASSAYS | | | | | |
|--------|-------|---------|--|------------|-------|-------|--------|--------|--|--|------|--|--|
| FROM | TO | | | SAMPLE NO. | FROM | TO | LENGTH | %Zinc | | | | | |
| 53.00 | 55.55 | | DOLOMITE (after limestone) Light to medium brown, soft, broken at (54.56-55.55). Drillers report fault at 54.56, good core recovery. A few oxidized pyrite crystals (4mm) at 53.90-54.20. Darker brown sections react with HLC. | | | | | | | | | | |
| 55.55 | 56.70 | | GREY SILICA (after limestone) Pervasive grey silica intricately veined and altered by brown dolomite, very weak zinc reaction. | 23578 | 55.55 | 56.70 | 1.15 | | | | 0.03 | | |
| 56.70 | 70.20 | | DOLOMITIZED LIMESTONE Pale grey to pale brown, cut by a network of fine fractures healed by quartz-carbonate mineralization, both fractures and groundmass react with HLC. Overall about 5% quartz mainly as late veins, good core, 99% recovery. (56.70-61.50) - Few blobs of brown mineral (1-3cm) which reacts strongly with HLC (calcite-siderite?) (58.61-52.90) - Pervasive grey silica. (62.40-62.50) - Brown mud. (62.50-62.70) - Broken core. (68.15-68.90) - Siliceous, rusty, broken minor zinc reaction, minor fine grained pyrite. (69.64-69.90) - Yellowish clay alteration, some zinc reaction. Very weak zinc reaction at (58.65-61.50) | 23579 | 58.65 | 61.65 | 3.0 | | | | 0.07 | | |
| | | | | 23580 | 68.00 | 71.00 | 3.0 | | | | 0.04 | | |
| 70.20 | 87.70 | | BRECCIATED DOLOMITIZED LIMESTONE Comprises alternating sections of medium grey dolomite brecciated and healed by white dolomite and pale brown altered dolomite, good core, 99% recovery. Some HLC reaction with rock groundmass particularly brown sections. Brecciated dolomite at (70.20-70.65) (70.50-76.20) and (84.43-85.10) - 40° Contact at 85.10. 70.57 - 2cm brown clay. Very weak zinc reaction at (70.20-77.00). 75.19 - minor malachite stain on fracture. (83.00-83.10) - Fault, brown clay. (85.10-85.50) - oxidized pyrite - breccia, healed by brown calcite. | 23581 | 71.00 | 74.00 | 3.0 | | | | 0.01 | | |
| | | | | 23582 | 74.00 | 77.00 | 3.0 | | | | 0.01 | | |

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|---------------------|--------------------------|------------------------|-----------------------------------|---------------------------------|--|-------------------------|
| PROPERTY MEL | TP OR AREA | AZIMUTH 090° | DATE STARTED August 27, 1985 | CORRECTED DIP TESTS 48.8 50° | | LOCATION SKETCH OF HOLE |
| PROJECT 6250 | LOT & CONC. | DIP -49° collar | DATE COMPLETED August 28, 1985 | 97.5 50° | | |
| CLAIM NO. JERI-1 | CO-ORDINATES. 9897.5N | LENGTH 99.67 | DRILLED BY E. Caron Ltd. | | | |
| GRID NO. | 9925.3E | COLLAR ELEV. 1090.4 | LOGGED BY D.C. Miller | | | |

| METRES | | SECTION | DESCRIPTION | ASSAYS | | | | |
|--------|-------|---------|--|------------|-------|-------|--------|-------|
| FROM | TO | | | SAMPLE NO. | FROM | TO | LENGTH | %Zinc |
| | | | BQ core | | | | | |
| | | | OBJECTIVES:- | | | | | |
| 0 | 2.44 | | Casing - no core | | | | | |
| 2.44 | 3.05 | | CALCAREOUS SHALE | | | | | |
| | | | Grey and brown, 70° laminations broken core, no zinc reaction, 80% core recovery. | | | | | |
| 3.05 | 7.95 | | SILICIFIED DOLOMITIZED SHALE | 23583 | 3.05 | 6.05 | 3.0 | 0.05 |
| | | | Pale to medium grey, generally hard, broken core local weak zinc reaction, minor late dolomite quartz veins, several lmm calcite veins healing fine fractures, contact with following unit unclear and gradational, 80% core recovery. | | | | | |
| 7.95 | 23.46 | | DOLOMITIZED - SILICIFIED ROCK (after limestone) | | | | | |
| | | | Pale grey to brown consists of alternating pale pervasive silica and grey to brown dolomite. Both types are cut by late quartz-dolomite veins (1-2cm) and also fine calcite veins. Siliceous sections are veined and partly replaced by pale brown dolomite. | 23584 | 9.75 | 12.75 | 3.0 | 0.05 |
| | | | Zinc reaction at (9.75-15.85), (20.50-22.90) (generally weak). | 23585 | 12.75 | 15.85 | 3.1 | 0.44 |
| | | | Pervasive grey silica at (10.57-12.30), (19.40-22.10). | average | 9.75 | 15.85 | 6.1 | 0.25 |
| | | | Soft brown mud and leached brown core at (15.85-17.68) - 0.45m recovered | | | | | |
| | | | Drillers report cavern at 15.85 | 23586 | 20.30 | 23.30 | 3.0 | 0.02 |
| 23.46 | 59.65 | | DOLOMITE (after limestone) | | | | | |
| | | | Grey to brownish grey to pale brown, cut locally by branching, intersecting white dolomite-quartz veins, up to several cm wide, quartz is very subordinate. Also numerous very fine (lmm) calcite veins. Good core, 99% recovery, core breaks trend at 50-80°. | | | | | |
| | | | (23.46-27.00) - 5% dolomite-quartz veins. | | | | | |
| | | | (27.00-33.00) - 30% dolomite-quartz veins. | 23587 | 36.00 | 39.00 | 3.0 | 0.02 |
| | | | (33.00-36.50) - 10% dolomite-quartz veins. | 23588 | 39.00 | 42.00 | 3.0 | 0.01 |

| METRES | | SECTION | DESCRIPTION | | | | | ASSAYS | | | | |
|--------|-------|---------|---|------------------------------|-------|-------|--------|--------|------|-------|-------|---|
| FROM | TO | | | SAMPLE NO. | FROM | TO | LENGTH | Au | Ag | %Zinc | %LEAD | |
| 23.46 | 59.65 | | (36.50-42.00) - 40% dolomite-quartz veins | | | | | | | | | |
| | | | (23.46-44.20) - local weak zinc reaction on fractures, occasional blob of pyrite - possible sphalerite at (36.80-37.19) local blobs of brown calcite-siderite | | | | 02/T | 02/T | | | | |
| | | | (42.00-44.80) - 5% dolomite quartz veins | 23589 | 44.81 | 47.81 | 3.0 | | | 0.34 | | |
| | | | (44.30-50.90) - 50% dolomite quartz veins | 23590 | 47.81 | 50.81 | 3.0 | | | <.01 | | |
| | | | (50.90-57.90) - 10% dolomite quartz veins | 23591 | 50.81 | 53.81 | 3.0 | | | 0.04 | | |
| | | | (57.90-59.65) - 40% dolomite quartz veins | 23592 | 53.81 | 57.00 | 3.19 | | | 0.02 | | |
| | | | (45.60-45.90) - pyrite sphalerite-quartz mineralization. | 23593 | 57.00 | 59.65 | 2.65 | | | 0.08 | | |
| | | | (45.90-59.65) - weak zinc reaction on fractures. | Average | 44.81 | 59.65 | 14.84 | | | 0.10 | | |
| | | | (57.00-57.30) - pyrite mineralization plus minor sphalerite | | | | | | | | | |
| 59.65 | 61.80 | | MINERALIZED ZONE | | | | | | | | | |
| | | | Comprises about 15% honey coloured to reddish brown sphalerite in a dark grey siliceous matrix, cut by 10% late dolomite-quartz veins, good core, 99% recovery | 23594 | 59.65 | 60.70 | 1.05 | | | 16.7 | | |
| | | | (59.65-60.04) - leached and pitted - low grade | 23595 | 60.70 | 61.80 | 1.10 | | | 12.6 | | |
| | | | (60.04-60.60) - good grade | Average | 59.65 | 61.80 | 2.15 | <0.001 | 0.20 | 14.6 | | |
| | | | (60.60-60.75) - leached and pitted - low grade | * COMPOSITE OF 23594 & 23595 | | | | | | | <0.01 | * |
| | | | (60.75-61.00) - good grade | | | | | | | | | |
| | | | (61.00-61.80) - Brecciated - fair grade | | | | | | | | | |
| 61.80 | 75.29 | | DOLOMITE (after limestone) | | | | | | | | | |
| | | | Dark to medium grey, veined and altered by light dolomite and pale brownish alteration, good core, 99% recovery. Several fine calcite healed fractures. | 23596 | 61.80 | 64.80 | 3.0 | | | 0.16 | | |
| | | | (61.80-67.60) - 40% late white dolomite veining | | | | | | | | | |
| | | | (67.60-75.29) - 5% late white dolomite veining | | | | | | | | | |
| | | | (61.80-68.00) - Local weak zinc reaction on fractures. | | | | | | | | | |
| 75.29 | 99.67 | | DOLOMITIZED LIMESTONE | | | | | | | | | |
| | | | Light to medium grey, folded remnant banding at 0-30° at (81.30-83.30) - 1 to 3mm laminations, good core, 99% recovery. Several fine calcite healed fractures, some HCL reaction with ground-mass. Also banding at (77.20-77.90) at 5-50° - folded. | | | | | | | | | |
| | | | (75.29-80.80) - pale grey dolomite. | | | | | | | | | |
| | | | (80.80-99.67) - Light to medium grey dolomite. | | | | | | | | | |

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|-----------------------|---------------------------|------------------------|-----------------------------------|---------------------|--|-------------------------|
| PROPERTY MEL | TP OR AREA | AZIMUTH 090° | DATE STARTED August 29, 1985 | CORRECTED DIP TESTS | | LOCATION SKETCH OF HOLE |
| PROJECT 6250 | LOT & CONC. | DIP -70° | DATE COMPLETED August 30, 1985 | 43 m 68° | | |
| CLAIM NO. JERI - 1 | CO-ORDINATES. 9897.5 N | LENGTH 90.53 | DRILLED BY E. Caron | 87 m 68° | | |
| GRID NO. | 9925.3 E | COLLAR ELEV. 1090.4 | LOGGED BY D.C. Miller | | | |
| | | | | | | |

| METRES | | SECTION | DESCRIPTION | ASSAYS | | | | |
|--------|-------|---------|---|------------|------|------|--------|--------|
| FROM | TO | | | SAMPLE NO. | FROM | TO | LENGTH | % Zinc |
| | | | OBJECTIVES :- | | | | | |
| 0 | 1.83 | | Casing, no core | | | | | |
| 1.83 | 3.66 | | <p>CALCAREOUS SHALE</p> <p>Laminated brown, light grey and dark grey, 45° laminations, fairly good core in pieces to 20 cm. Light colored and brown laminations react with HCL - laminations from a few mm to a few cm.</p> | | | | | |
| 3.66 | 6.80 | | <p>SILICIFIED-DOLOMITIZED ROCK (after shale/limestone)</p> <p>Pale brown to light grey, fractured with an intricate network of fine fractures healed by calcite and quartz; fairly good core with good (95%) recovery.</p> <p>(3.66-3.70) Fault gouge (brown) @ 90°</p> <p>(3.80-3.88) Fault gouge (grey) @ 85° approx.</p> <p>(3.88-4.00) Brownish discoloration.</p> <p>4.75 - 4 cm with zinc reaction.</p> | 23598 | 3.66 | 5.00 | 1.34 | 0.39 |
| 6.80 | 28.30 | | <p>DOLOMITIZED-SILICIFIED ROCK (after limestone)</p> <p>Pale brown to pale grey, dolomite very predominant, silica present as cherty grey pervasive alteration and as late white quartz veins. Dolomite is grey and altered brown by alteration along an extensive network of fine fractures, which react with HCL, generally very good core with 99% recovery.</p> <p>(6.80-11.00) Altered brown (calcite-siderite?) to rusty soft broken core, calcite rich, reacts well with HCL.</p> <p>7.20 - Fault @ 70° with 1 cm gouge (grey).</p> <p>(9.75-10.10) 30% white to grey quartz veins trending at 20-40°.</p> <p>10.20 - Fracture @ 30° with broken core & minor gouge over 1 cm.</p> <p>(12.80-13.00) Brown calcite-siderite altered with brecciation.</p> <p>(14.32-14.60) Brown calcite alteration.</p> <p>15.50 - 5 cm broken, brown soft core.</p> <p>(18.45-19.29), (25.30-26.30) and (27.00-27.60) Pervasive grey silica - cut by 20% late white quartz veins (2 cm widths).</p> <p>(10.10-23.40) Less than 5% white quartz veins except where</p> | | | | | |

| | | | | | | | |
|-----------------------|---------------------------|------------------------|-------------------------------------|----------------------------------|--|--|-------------------------|
| PROPERTY MEL | TP OR AREA | AZIMUTH 090° | DATE STARTED August 31, 1985 | CORRECTED DIP TESTS 119 m 48° | | | LOCATION SKETCH OF HOLE |
| PROJECT 6250 | LOT & CONC. | DIP -49° | DATE COMPLETED September 1, 1985 | | | | |
| CLAIM NO. JERI - 4 | CO-ORDINATES 10282.9 N | LENGTH 118.87 | DRILLED BY E. Caron | | | | |
| GRID NO. | 9931.2 E | COLLAR ELEV. 1098.9 | LOGGED BY D. C. Miller | | | | |

| METRES | | SECTION | DESCRIPTION | ASSAYS | | | | |
|--------|-------|---------|--|------------|-------|-------|--------|--------|
| FROM | TO | | | SAMPLE NO. | FROM | TO | LENGTH | % Zinc |
| 0 | 9.75 | | OBJECTIVES:- Casing, no core | | | | | |
| 9.75 | 14.32 | | DOLOMITE ALTERATION (after shale?) Buff brown with minor grey siliceous sections, intensely fractured, weathered, broken core, with some soft brown core. (13.80-14.32) Soft brown muddy core. | | | | | |
| 14.32 | 25.40 | | SILICIFIED DOLOMITIZED SHALE ? Various grey-green, browns, whites, local remnant shale laminations marked by alteration, laminations at 70-80°, generally hard with high silica content although some of core reacts with HCL both in groundmass and along a network of fine fractures, generally good core with 99% recovery. 10% late white quartz-carbonate veins at various angles. (17.70-17.90) Calcite crystals (1 cm) growing along mud coated fractures at 15%. (14.32-14.80) Brecciated. (14.80-14.90) Mud and broken core. (18.29-18.40) Mud and broken core. 22.86 - Drillers noted fault with cavity - (20.42-22.86) 64% core recovery. (25.20-25.40) Leached broken core (21.00-21.50) Siliceous with weak zinc reaction. | 23528 | 21.00 | 21.50 | 0.50 | 2.02 |
| 25.40 | 28.60 | | OXIDIZED ZONE Intense rusty brown alteration with high calcite content, reacts well with HCL, (specimen taken at 25.60), good core, no zinc reaction. (25.9-26.4) Siliceous (25.7-25.9) and (27.50-28.60) Buff colored dolomite - 60° contact at 28.60. | | | | | |
| 28.60 | 52.90 | | DOLOMITE ALTERATION (after limestone) Medium grey-green to light grey, cut by a network of 1 mm fractures | | | | | |

| METRES | | SECTION | DESCRIPTION | | | | | ASSAYS | | |
|--------|--------|---------|--|------------|-------|-------|--------|------------|----------------------|--------|
| FROM | TO | | | SAMPLE NO. | FROM | TO | LENGTH | Au oz/T | Ag oz/T | % Zinc |
| 28.60 | 52.90 | | healed by brown carbonate which locally coalesce to form brownish patches; excellent core, 99% recovery, no zinc reaction. (28.60-39.15) Fairly uniform appearance. (39.15-44.80) Cut by a swarm of light grey dolomite veins (up to 20 cm wide) which partly replace grey-green dolomite. (44.80-52.43) Becomes pale grey, cut by a network of fine (1 mm) fractures healed by brown carbonate. (52.43-52.90) Clean white calcite vein with veins and patches of siderite-calcite. | | | | | | | |
| 52.90 | 62.20 | | DOLOMITE ALTERATION (after limestone) Pale brown (abrupt change at 52.90) highly fractured core healed by fine veins (1 mm) of brown carbonate, good core. (57.30-57.50) Broken with mud - 30° fracture. (58.10-58.40) 5° fracture healed with 3 mm of brown clay, lost water circulation (60.80-62.20) Stronger brown calcite-siderite alteration, strong HCL reaction. | | | | | | | |
| 62.20 | 64.30 | | DOLOMITE (after limestone) Grey and white, minor brown alteration, veined and replaced by 50% white dolomite, about 1% sulphide mineralization in widely spaced fine veins, very fine grained, black and silvery mineralization with pyrite, good core, 100% recovery. 64.00 - Traces of malachite and azurite with fine sulphides @ 45°, 1 cm vein network. | 23529 | 62.20 | 64.30 | 2.10 | <.001 | <.01 <= less than | 0.04 |
| 64.30 | 118.87 | | DOLOMITIC LIMESTONE Medium to light grey, locally intensely veined and replaced by white dolomite-calcite, occasional fine (1 mm) veins of very fine grained pyrite, generally good core, tends to be broken. 65.6 - Fault @ 60° with 1 cm gouge. (67.10-68.20) Brown calcite-siderite alteration associated with 40° fracture. (68.20-75.00) Strong veining and replacement by white dolomite-calcite with minor quartz, gives breccia texture, 75% vein material. (73 0-75.00) Vuggy - 1 cm vugs. (75.60-76.81) Border zone of veining. (76.81-85.50) 10% light colored dolomite veining. | | | | | | | |

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|---------------------|--------------------------|------------------------|-------------------------------------|---------------------|--|--|-------------------------|
| PROPERTY MEL | TP OR AREA | AZIMUTH 090° | DATE STARTED September 2, 1985 | CORRECTED DIP TESTS | | | LOCATION SKETCH OF HOLE |
| PROJECT 6250 | LOT & CONC. | DIP -47° collar | DATE COMPLETED September 3, 1985 | No Tests | | | |
| CLAIM NO. JERI 4 | CO-ORDINATES 10331.8N | LENGTH 89.0 | DRILLED BY E. Caron | | | | |
| GRID NO. | 9954.4E | COLLAR ELEV. 1093.1 | LOGGED BY D.C. Miller | | | | |

| METRES | | SECTION | DESCRIPTION | ASSAYS | | | |
|--------|-------|---------|--|------------|------|----|--------|
| FROM | TO | | | SAMPLE NO. | FROM | TO | LENGTH |
| | | | BQ Core | | | | |
| 0 | 3.66 | | OBJECTIVES:- Casing, no core. | | | | |
| 3.66 | 28.64 | | DOLOMITE (after limestone) Pale brownish grey to medium grey-green, cut by a number of very fine (1mm) or less fractures with quartz-carbonate mineralization, commonly pale grey to pale brown, generally good core. (4.20-4.30) - 2 cm quartz-carbonate veins with coarse (5mm) oxidized pyrite. (5.10-5.20) - Fractures at 50° with 2cm of mud (brown). (9.20-9.90) - Broken core with minor mud. (12.80-13.00) - 1cm quartz vein at 5° with 1cm blobs of brown calcite-siderite. Quartz is rimmed by pale dolomite. (18.65-19.95) - 25% pale grey to white quartz-dolomite veining (mainly white dolomite) with later brown siderite alteration. (20.10-24.00) - Green grey matrix is mottled by brown alteration spots to 2cm size both react with HLC to some extent. (23.47-23.90) - Broken core, 90° fractures, leached, water course. Similar leached broken core - 1cm @ 24.53, 2cm @ 24.67, 1cm @ 24.98, and 4cm @ 25.30. | | | | |
| 28.64 | 37.54 | | DOLOMITE (after limestone) Pale brownish grey with local intense white to pale brown dolomite quartz veining, minor very fine pyrite and coarse calcite-siderite associated with veining in some places, excellent core. (34.60-36.10) - alternating white and grey bands (4mm at 75-80°. White bands are dolomite veins. | | | | |

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|-----------------------|----------------------------|-------------------------|-------------------------------------|---------------------|------|--|-------------------------|
| PROPERTY MEL | TP OR AREA | AZIMUTH 090° | DATE STARTED September 3, 1985 | CORRECTED DIP TESTS | | | LOCATION SKETCH OF HOLE |
| PROJECT 6250 | LOT & CONC. | DIP -47° | DATE COMPLETED September 4, 1985 | 82 m | -43° | | |
| CLAIM NO. Jeri - 4 | CO-ORDINATES. 10413.1 N | LENGTH 85.95 | DRILLED BY E. Caron | | | | |
| GRID NO. | 9942.6 E | COLLAR ELEV. 1083.67 | LOGGED BY D. C. Miller | | | | |

| METRES | | SECTION | DESCRIPTION | ASSAYS | | | | |
|--------|-------|---------|---|------------|-------|-------|--------|--------|
| FROM | TO | | | SAMPLE NO. | FROM | TO | LENGTH | % Zinc |
| | | | BO CORE | | | | | |
| | | | OBJECTIVES:- | | | | | |
| | | | Casing, no core | | | | | |
| | | | DOLOMITE (After limestone) | | | | | |
| | | | Pale brownish grey, cut by a network of fine (less than 1 mm) fractures (1 per 5 mm) at various angles healed by brown carbonate. | | | | | |
| | | | Minor (less than 5%) white dolomite-quartz veining, generally good core with 99% recovery, core breaks generally @ 85-90°. | | | | | |
| | | | - 20 cm of broken core at collar. | | | | | |
| | | | 9.30] | | | | | |
| | | | 9.53] Fractures at 45° with brown mud coating. | | | | | |
| | | | 10.40] | | | | | |
| | | | (11.45-11.60) Soft broken core - some oxidized pyrite. | | | | | |
| | | | (14.40-14.50), (15.10-15.20) Broken core with brown mud coatings. | | | | | |
| | | | (15.30-15.50) Minor oxidized pyrite in grains to 5mm (anhedral). | | | | | |
| 20.20 | 21.95 | | DOLOMITE (after limestone) | | | | | |
| | | | Pale brown, similar to above but soft, weathered, oxidized and broken. | 23535 | 20.20 | 21.95 | 1.75 | 0.06 |
| | | | 20.73 - Quartz-malachite mineralization on 2 pieces of broken core, weak zinc reaction nearby for 20 cm. | | | | | |
| | | | (20.20-20.35) 2 cm anhedral pyrite veins and blobs. | | | | | |
| | | | (21.80-21.90) Brown mud. | | | | | |
| 21.95 | 38.20 | | DOLOMITE (after limestone) | | | | | |
| | | | Pale grey to brown, similar to preceding, cut by a network of fine hair line fractures healed by brown carbonate, generally good core with 99% recovery, less than 5% quartz-dolomite veining, core breaks at 70-90°. | | | | | |
| | | | (21.95-25.60) Brown color because of brown siderite-calcite alteration. | | | | | |
| | | | (22.80-24.80) Veined by 1-2 cm branching calcite-siderite veins at 0 - 10°. | | | | | |
| | | | (26.50-28.40) Brecciation with 15% pale dolomite-quartz veining at all angles. | | | | | |
| | | | (31.70-31.80), (34.95-35.10), (36.91-36.95) Broken core with minor mud. | | | | | |

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|-----------------------|---------------------------|------------------------|-------------------------------------|-----------------------------------|--|--|-------------------------|
| PROPERTY MEL | TP OR AREA | AZIMUTH 090° | DATE STARTED September 5, 1985 | CORRECTED DIP TESTS 102 m -46° | | | LOCATION SKETCH OF HOLE |
| PROJECT 6250 | LOT & CONC. | DIP -46° | DATE COMPLETED September 7, 1985 | | | | |
| CLAIM NO. JERI - 1 | CO-ORDINATES. 9795.9 N | LENGTH 105.77 | DRILLED BY E. Caron | | | | |
| GRID NO. | 9924.1 E | COLLAR ELEV. 1065.1 | LOGGED BY D. C. Miller | | | | |
| | | | | | | | |

| METRES | | SECTION | DESCRIPTION | ASSAYS | | | |
|--------|-------|---------|---|------------|------|----|--------|
| FROM | TO | | | SAMPLE NO. | FROM | TO | LENGTH |
| | | | BO CORE | | | | |
| 0 | 1.83 | | OBJECTIVES:- Casing, no core | | | | |
| 1.83 | 16.55 | | SILICIFIED AND DOLOMITIZED ROCK (after limestone) Brown to light grey with reddish tints, hard to very hard, particularly at (4.00-13.60). Broken and oxidized from (1.83-13.40), broken with mud at (4.50-4.60), (5.80-6.71), (7.50-7.70), (9.30-9.50) and (10.80-13.40), prominent fractures trend at 20-90°, no zinc reaction, occasional large anhedral grains (1 cm) of calcite-siderite. Numerous hair line fractures in an irregular pattern are healed by brown carbonate. (1.83-9.50) Rare white quartz vein (9.50-16.55) 5% late white quartz cutting older brown and grey dolomite gives a breccia texture. Irregular shaped white quartz masses to 5 cm. | | | | |
| 16.55 | 22.80 | | DOLOMITE (after limestone) Medium grey, cut by a number of fine fractures healed by brown carbonate which in turn are cut by late white quartz-dolomite veins (quartz generally later) with some blobs of brown calcite-siderite, good core - 99% recovery. (17.00-17.70) Brown dolomite alteration (Sometimes late white quartz dolomite veins are cut by later brown carbonate healed veinlets) | | | | |
| 22.80 | 35.20 | | SILICEOUS DOLOMITE (after limestone) Light grey to white and pale brown, minor dark grey, darker dolomite is intensely veined and replaced by lighter dolomite-quartz and all except late quartz-dolomite is veined by pale brown carbonate; approximately 10% late white quartz and 75% pervasive grey quartz; alteration has produced breccia and banded structures; local 85° banding near 34 m; good core, 99% recovery; no zinc reaction; occasional grain of oxidized pyrite. | | | | |

| METRES | | SECTION | DESCRIPTION | | | | | ASSAYS | | |
|--------|-------|---------|---|------------|-------|-------|--------|------------|------------|--------|
| FROM | TO | | | SAMPLE NO. | FROM | TO | LENGTH | Au oz/T | Ag oz/T | % Zinc |
| 35.20 | 44.30 | | <p>DOLomite (after limestone) Similar to preceding but less siliceous; some brown siderite-calcite veining; banding at 85° at (37.90-38.50); no zinc reaction; approx. 5% late white quartz veins.</p> | | | | | | | |
| 44.30 | 62.55 | | <p>SILICEOUS DOLomite (after limestone) As 22.80-35.20 preceding, approx. 15% late dolomite-quartz veining and 60% pervasive silica, generally good core. (59.80-60.04) Soft powdery core, broken. (56.10-56.70) Pervasive light grey silica.</p> | | | | | | | |
| 62.55 | 64.60 | | <p>MINERALIZED ZONE Medium grey, siliceous, leached, pitted, rusty broken core with some pyrite remnants; local weak zinc reaction; some core loss with 90% recovery.</p> | 23536 | 62.55 | 64.60 | 2.05 | <.001 | <.01 | 0.22 |
| 64.60 | 67.80 | | <p>DOLomite (after limestone) Medium grey, siliceous, hard, cut by 20% late white quartz-dolomite veins (branching and irregular and up to 5 cm thick), no mineralization.</p> | | | | | | | |
| 67.80 | 70.30 | | <p>MINERALIZED DOLomite Medium grey, whity pale brown, minor red brown sphalerite (1 mm grains) plus hydrozincite in fractures and possible minor smithsonite, core recovery 90%. (67.80-68.00) Unoxidized fresh. (68.00-70.30) Oxidized. (68.55-68.65) Soft, broken with black manganese stain. (69.10-70.30) Soft broken.</p> | 23537 | 67.80 | 70.30 | 2.50 | <.001 | <.01 | 1.95 |
| 70.30 | 72.23 | | <p>DOLomite (after limestone) As 64.60-67.80 preceding, 25% quartz-dolomite veining.</p> | | | | | | | |
| 72.23 | 88.20 | | <p>DOLomite (after limestone) Light to medium grey as (64.60-67.80) but less late white quartz-dolomite-calcite veining (approximately 5%); numerous very fine fractures are calcite healed. (72.80-72.90) Broken core with 0° fracture (74.80-75.13) White quartz-dolomite healed breccia, some broken core. (75.70-81.00) Short sections of broken core cut by low angle 0 - 30° fractures.</p> | | | | | | | |

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|----------------------|----------------------------------|-------------------------------|-------------------------------------|----------------------------------|--|-------------------------|
| PROPERTY MEL | TP OR AREA | AZIMUTH 090° | DATE STARTED September 7, 1985 | CORRECTED DIP TESTS 64 m -46° | | LOCATION SKETCH OF HOLE |
| PROJECT 6250 | LOT & CONC. | DIP -50° | DATE COMPLETED September 8, 1985 | | | |
| CLAIM NO. SIN - 1 | CO-ORDINATES. Geochem Anomaly | LENGTH 67.66 | DRILLED BY E. Caron | | | |
| GRID NO. | Line R 71N, 550W | COLLAR ELEV. Approx. 960 m | LOGGED BY D. C. Miller | | | |

| METRES | | SECTION | DESCRIPTION | | | | | ASSAYS | | |
|--------|-------|---------|--|------------|-------|-------|--------|---------------|------------|--------|
| FROM | TO | | | SAMPLE NO. | FROM | TO | LENGTH | Au oz/T | Ag oz/T | % Zinc |
| 0 | 1.22 | | OBJECTIVES:- Casing, no core. | | | | | | | |
| 1.22 | 9.75 | | WEATHERED DOLOMITE Light grey to light brown, soft, weathered, broken core, no zinc reaction, poor core recovery. Core recovery: (1.22-3.66) - 40% (3.66-6.10) - 50% (6.10-6.71) - 70% (6.71-9.75) - 99% | | | | | | | |
| 9.75 | 17.30 | | DOLOMITE Medium grey to light grey and brown, local striped texture due to alternating light and medium grey bands; grey dolomite is locally altered and replaced by brown, soft, earthy, siderite-calcite alteration and minor pervasive grey silica, about 90% core recovery, no zinc reaction. Brown altered at (11.00-11.55), (12.55-13.10), (13.65-13.90), (14.33-15.85) and (16.20-17.37) Pervasive grey silica at (15.85-16.20). | | | | | | | |
| 17.30 | 19.00 | | DOLOMITE BRECCIA Light grey to white and brown; brownish dolomite is veined and replaced by white calcite-dolomite veins which branch and join creating a brecciated texture, good core, no zinc reaction. | | | | | | | |
| 19.00 | 21.20 | | DOLOMITE-QUARTZ-PYRITE BRECCIA Dark and light grey, minor brown and red, consists of dark grey to greenish grey angular fragments of quartz in a pale grey matrix of calcite, dolomite and quartz, some red jasperoidal fragments, some leached, pitted and broken core; locally massive, fine muddy pyrite on blobs to 10 cm with some darker sulphide, possibly fine sphalerite, no zinc reaction, 90% core recovery. | 23538 | 19.00 | 21.20 | 2.20 | <.001 | <.01 | 0.30 |
| | | | | | | | | < = less than | | |

| METRES | | SECTION | DESCRIPTION | | | | | ASSAYS | | | | | |
|--------|-------|---------|---|------------|-------|-------|--------|--------|--|--|--|------|--|
| FROM | TO | | | SAMPLE NO. | FROM | TO | LENGTH | % Zinc | | | | | |
| 21.20 | 23.25 | | SILICEOUS DOLOMITE Light grey, very fine grained, fractured and healed by hair veins of calcite-dolomite and quartz, good core. | | | | | | | | | | |
| 23.25 | 23.55 | | JASPERIODAL QUARTZ Green, grey and red, minor very fine (less than 1%) pyrite, finely fractured core. | | | | | | | | | | |
| 23.55 | 55.47 | | DOLOMITE Medium grey and white, grey dolomite is veined and replaced by extensive (25%) light grey-white veins of quartz, dolomite and minor calcite, minor silicified and brown altered sections; brown calcite-siderite veining near 28.00 m; minor fine pyrite veining, core extensively fractured and healed by fine veinlets. 31.00 - Fracture at 30° with brown siderite alteration and 5 mm of calcite. (31.00-31.70) Broken core (33.80-34.20) Leached core (36.80-37.90) Brown alteration along fine fractures (40.00-40.60) Broken core (41.00-42.10) Brown altered, soft at (41.80-41.95) (43.80-44.70), (47.65-47.85) Broken core. (48.10-55.47) Siliceous and brecciated with minor very fine pyrite. (53.60-54.10) Broken core associated with 45° fractures. | | | | | | | | | | |
| 55.47 | 67.66 | | DOLOMITE | | | | | | | | | | |
| END OF | HOLE | | Mainly light grey, minor dark grey, similar to preceding but less brecciated, core has been intricately fractured and healed by whitish quartz-dolomite-calcite veins. (58.52-58.90) Pyrite vein with fine dark sulphide rimming pyrite - maybe sphalerite. (63.40-67.66) Minor pyrite veining, dark grey silica and brecciation. (65.10-66.14) Broken core. (65.60-65.90) 25% fine pyrite with possible dark sphalerite mixed. | 23539 | 58.52 | 58.90 | 0.38 | | | | | 0.18 | |
| | | | | 23540 | 65.60 | 65.90 | 0.30 | | | | | 0.05 | |