



GEOCHEMICAL AND GEOPHYSICAL  
REPORT ON THE  
STAR CLAIMS



WATSON LAKE MINING DISTRICT  
YUKON TERRITORY

Location

N.T.S.: 105 - B - 1 W  
Latitude: 60° 00' 40" N  
Longitude: 130° 20' 30" W

For

Dynamite Oil & Gas Inc.  
200 - 321 Water Street  
Vancouver, British Columbia V6B 1B8

Prepared By

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July 15, 1984

091599

This report has been examined by  
the Geological Evaluation Unit  
under Section 53 (4) Yukon Quartz  
Mining Act and is allowed as  
representation work in the amount  
of \$ 4,121.00 .

*DAEmond*

*for*

Regional Manager, Exploration and  
Geological Services for Commissioner  
of Yukon Territory.

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## SUMMARY

The Star 1 to 32 mineral claims owned by Dynamite Oil & Gas Inc. are situated on the Tootsee River Road near Rancheria, Yukon Territory. The claims are on the eastern flank of the Cassiar batholith with the granitic body in contact with sedimentary rocks of Cambrian to Upper Devonian age. Shale-hosted, vein, replacement, and skarn prospects containing silver, zinc, lead, gold molybdenum, tungsten and tin occur near the granitic contact on adjacent and nearby properties. Sylvester Group rocks which contain shale-hosted deposits on the "Midway" property outcrop on the Star 7 and 8 claims. After completion of the 1983 drill program on the adjoining Midway property, Regional Resources and partners reported estimated geological reserves at 4.3 million tons grading 10.5 ounces of silver per ton, 12.2% zinc, and 5.5% lead for the Midway deposits. Large exploration programs are presently in progress on the Midway silver-zinc-lead deposits about 5 kilometers to the south and on the YP prospect about 3 kilometers to the north.

This report summarizes an initial geophysical and geochemical investigation of the Star property. A total of 192 soil and silt samples were collected and analysed for silver, copper and zinc with 23 anomalous silver values obtained. A total of 7.8 line kilometers were surveyed with VLF-EM and magnetometer. Several VLF-EM anomalies were detected with over 400 gammas of magnetic relief. Anomalous results was generally concentrated within 1,500 meter of the B.C. - Yukon border.

Considering the proximity and similar geological setting of the Star claim area to the Midway deposits, and the encouraging results of the initial surveys, a basic (Stage I) exploration program of grid geological mapping, silt and soil geochemistry, VLF-EM and magnetics is highly recommended and a follow-up (Stage II) geophysical and trenching program should be considered. The Stage I program is estimated to cost \$20,000 and the Stage II program is estimated to cost \$25,000.

## INTRODUCTION

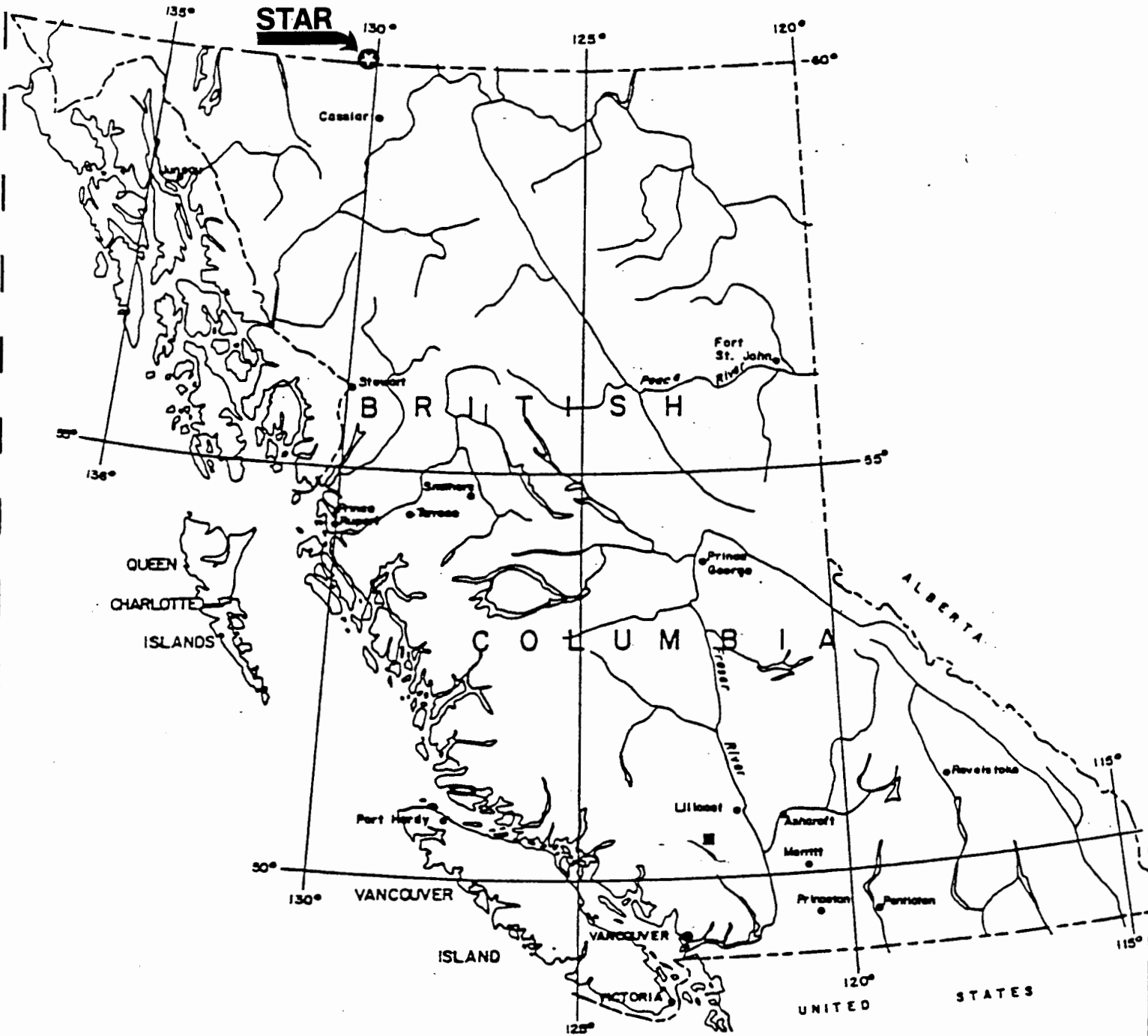
The Star property consisting of the Star 1 through Star 32 mineral claims is situated adjacent to the British Columbia-Yukon Territory boundary in the Watson Lake Mining District, Y.T. Peter Christopher & Associates Inc. was retained by Dynamite Oil & Gas Inc. to prepare a geological report on the property and to conduct a preliminary geochemical and geophysical program on the claims. Field examinations of the Star claim area were conducted on August 16th and September 1st, 1983, and field work for the preliminary geochemical and geophysical exploration program was conducted by the writer and Mr. W. G. Batycki on June 21st and 22nd, 1984 and by Mr. W.G. Batycki and Mr. G. Hayne on June 30, 1984. Peter A. Christopher, Ph.D., P.Eng. and Gary Medford, Ph.D. supervised the exploration program.

The claim area is of interest because it occupies a similar geological setting to the nearby "Midway" silver-zinc-lead deposits and barite deposits of Regional Resources Ltd. (Canamax-Procan) and the YP silver-lead-zinc-gold prospect of Butler Mountain Minerals Corp. Silver-lead-zinc veins occur in granitic rocks on the nearby Klondike Silver property and several molybdenum, tungsten and tin prospects occur in the area (see Figures 1a and 3).

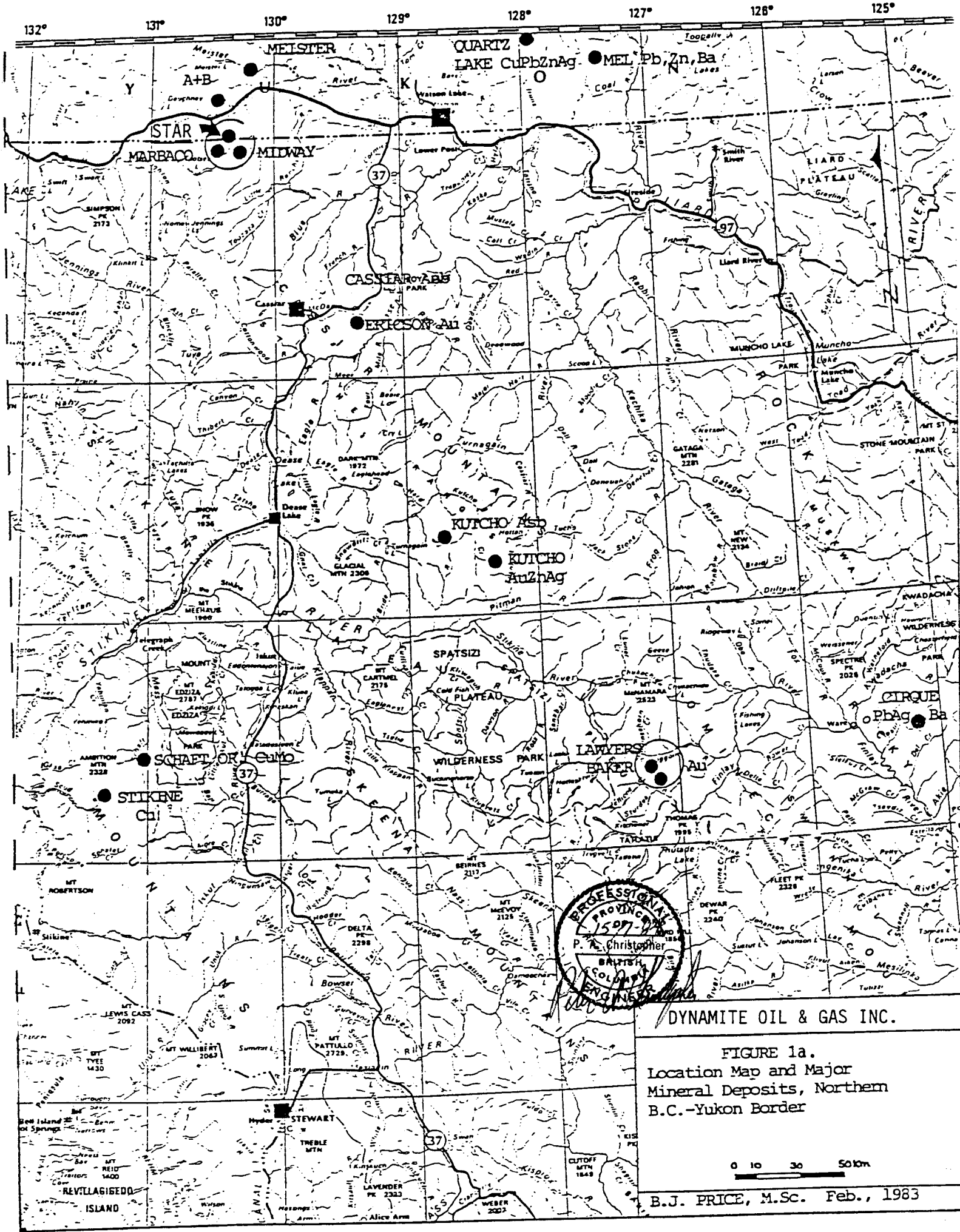
The writer has based this report on a review of government and company reports on the area, on field examinations conducted on August 16th and September 1st, 1983, on programs or examinations conducted or supervised by the writer on several adjacent or nearby properties, and on the results of the geochemical and geophysical program conducted on the property between June 21st and 30th, 1984. This report summarizes the results of the geochemical and geophysical survey. A staged exploration program with cost estimates has been outlined for further exploration of the mineral potential of the Star claims.

## LOCATION AND ACCESS (Figures 1, 2 and 3)

The Star claims are situated 5 miles (8 kilometers) south of mile post 701 on the Alaska Highway and about 70 miles (112 kilometers) west of Watson Lake, Yukon Territory. Geographic coordinates of the property are 60° 00' 40" N latitude and 130°



|                         |          |                          |             |
|-------------------------|----------|--------------------------|-------------|
| DYNAMITE OIL & GAS INC. |          |                          |             |
| FIGURE 1.               |          |                          |             |
| PROPERTY LOCATION MAP   |          |                          |             |
|                         |          |                          |             |
| Prepared by:            | Date:    | NIS MAP AREA<br>105-B-1W | DRAWING No. |
| Drewn by:               | Revised: |                          |             |



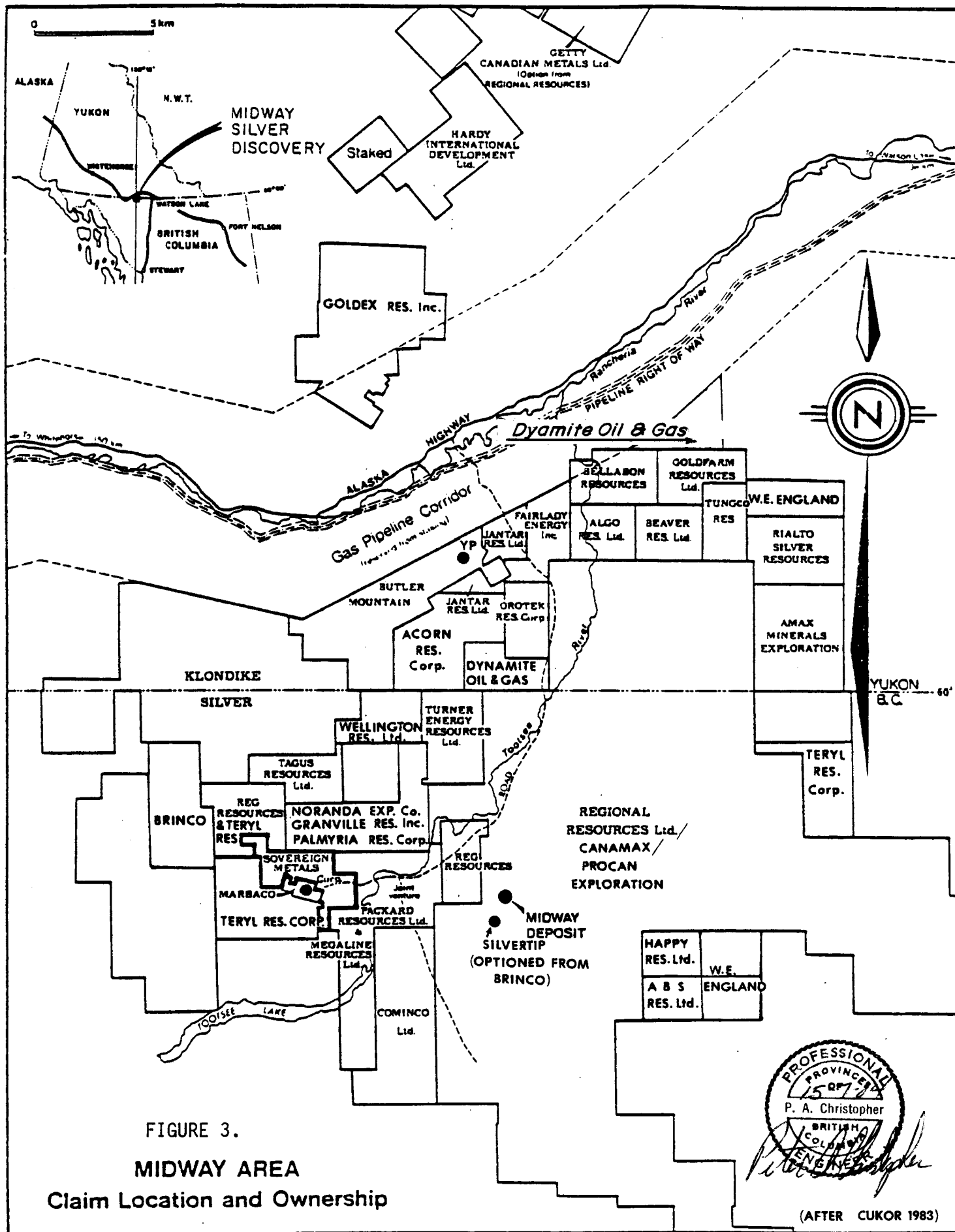
DYNAMITE OIL & GAS INC.

FIGURE 1a.  
Location Map and Major  
Mineral Deposits, Northern  
B.C. - Yukon Border

0 10 30 50 km

B.J. PRICE, M.Sc. Feb., 1983





This map does not guarantee claim location or ownership

● Mineral deposit or occurrence

20' 30" W longitude with the B.C.-Yukon border or 60° 00' N latitude forming the southern boundary of the property. The claims extend 3.7 kilometers westward from the Tootsee River.

Access to the eastern margin of the claim area is via the Tootsee River road with a bridge crossing of the Rancheria River at mile 706 or a ford at mile 701. The B.C. - Yukon border is marked by a 3 meter cut line which provides easy walking access and would make an excellent baseline.

Gas, food and lodging can be obtained at Rancheria about 11 kilometers northwest of the property. Watson Lake and Whitehorse, the main supply centres are serviced by daily CPA flights from Vancouver, British Columbia and Edmonton or Calgary, Alberta.

#### **PROPERTY DEFINITION**

The Star Property, consisting of 32 two post mineral claims was staked in February 1983. The writer has examined location posts for claims 5 through 14, 23 and 24. Identification tags were placed between the time of my initial examination on August 16, 1983 and a second examination conducted on September 1, 1983. Figure II and Plate 1 shows the approximate location of the claim block. The initial post for Star 7 and 8 are situated with the final posts of Moon 27 and 28, and are located south of the creek shown on the claim map. The Star Property has a maximum possible area of 1653 acres (669 hectares) which is reduced by less than maximum possible post spacing and by overlap on adjacent claims. The southern boundary is established by a cut and surveyed line along the British Columbia-Yukon Territory boundary. Pertinent claim data is summarized in Table I.

**Table 1. Pertinent Claim Data**

| <b><u>Claim Names</u></b> | <b><u>Record Number</u></b> | <b><u>Date Recorded</u></b> | <b><u>Word Due</u></b> | <b><u>Staker</u></b> |
|---------------------------|-----------------------------|-----------------------------|------------------------|----------------------|
| Star 1 to 8               | YA69704 - 709               | Feb. 15, 1983               | 1985                   | Archie Lang          |
| Star 15 to 22             | YA69710 - 717               | Feb. 15, 1983               | 1985                   | Brent Nixon          |
| Star 23 to 24             | YA69718 - 719               | Feb. 15, 1983               | 1985                   | Archie Lang          |
| Star 25 to 32             | YA69720 - 727               | Feb. 15, 1983               | 1985                   | Mike Oledo           |
| Star 7 to 14              | YA69688 - 695               | Feb. 15, 1983               | 1985                   | Ruth Melynychuk      |

## HISTORY

The Star Property was staked in February 1983 and sold to W.E. England Drilling Company Ltd. of Richmond, British Columbia. Dynamite Oil & Gas acquired the property in August 1983. Title to the property was maintained by paying cash in lieu of work.

Early discoveries in the Tootsee River Area (Gem (Marbaco, Amy or Rancheria Mine), Klondike Silver, YP) followed improved access resulting from construction of the Alaska Highway in the 1940s. Government prospector grubstakes were used in 1955 by the discoverers of the Silvertip prospect. Several major and junior mining companies including Conwest, Canex and Bralorne worked on the Silvertip prospect but were unable to develop an economic mineral deposit. Cassiar (now Brinco) acquired ground near the Silvertip prospect because of anomalous stream sediment results reported by the government in 1979. Regional Resources Ltd. selected the area as a prospecting target because the geological setting was favourable for shale-hosted mineral deposits. The location of barite in a shale environment was recognized in 1980 and follow-up prospecting of silt geochemical anomalies located surface indications of the Midway shale-hosted deposits. The shale-hosted model restricted exploration to the Sylvester Group sedimentary rocks and the early stakers rushed to cover this unit. The Star claim area is partly underlain by the favourable rock type and was staked in 1983 to test Sylvester Group sedimentary rocks for 'Midway' type deposits.

At the completion of the 1983 exploration program, Regional Resources and partners estimated geological reserves for the Midway deposits at 4.3 million tons grading 10.5 ounces of silver per ton, 12.2% zinc and 5.5% lead. Butler Mountain Minerals Corp. has reported 1983 drill intersections with gold in a breccia as well as silver-zinc-lead replacement bodies at the YP prospect.

## WORK PROGRAM

The field program was conducted on June 21st and 22nd, 1984 by Peter A. Christopher and W.G. Batycki with the border used as a baseline and stations chained and flagged at 50 meter intervals to the most westerly claim line at 2,750 m west. Soil samples

were collected along lines at 365W, 580W, 960W, 1875W (Line 9) and 2750W (Line 10) at 50 meter intervals. Samples were shipped to Chemex Labs Ltd. in North Vancouver, British Columbia for analysis for silver, lead and zinc by atomic absorption. Results are plotted on Plate 2 with sample site shown on Plate 1. About 7.8 kilometers of VLM-EM and Magnetometer readings were collected along the baseline and line 9 and 10. A Sintrex MP 2 proton precession magnetometer was used for obtaining magnetic field intensity reading. Instrument readings less 58,000 gammas are plotted on Plate 3. VLF-EM readings were collected using a Geonics EM-16 with stations in Hawaii, Cutler Maine, and Seattle used for signals. VLF-EM anomalies are shown on Plate 3, and dip angle along lines are shown on Figure 5 in Appendix B. The cost statement for the geochemical and geophysical program is included as Appendix A.

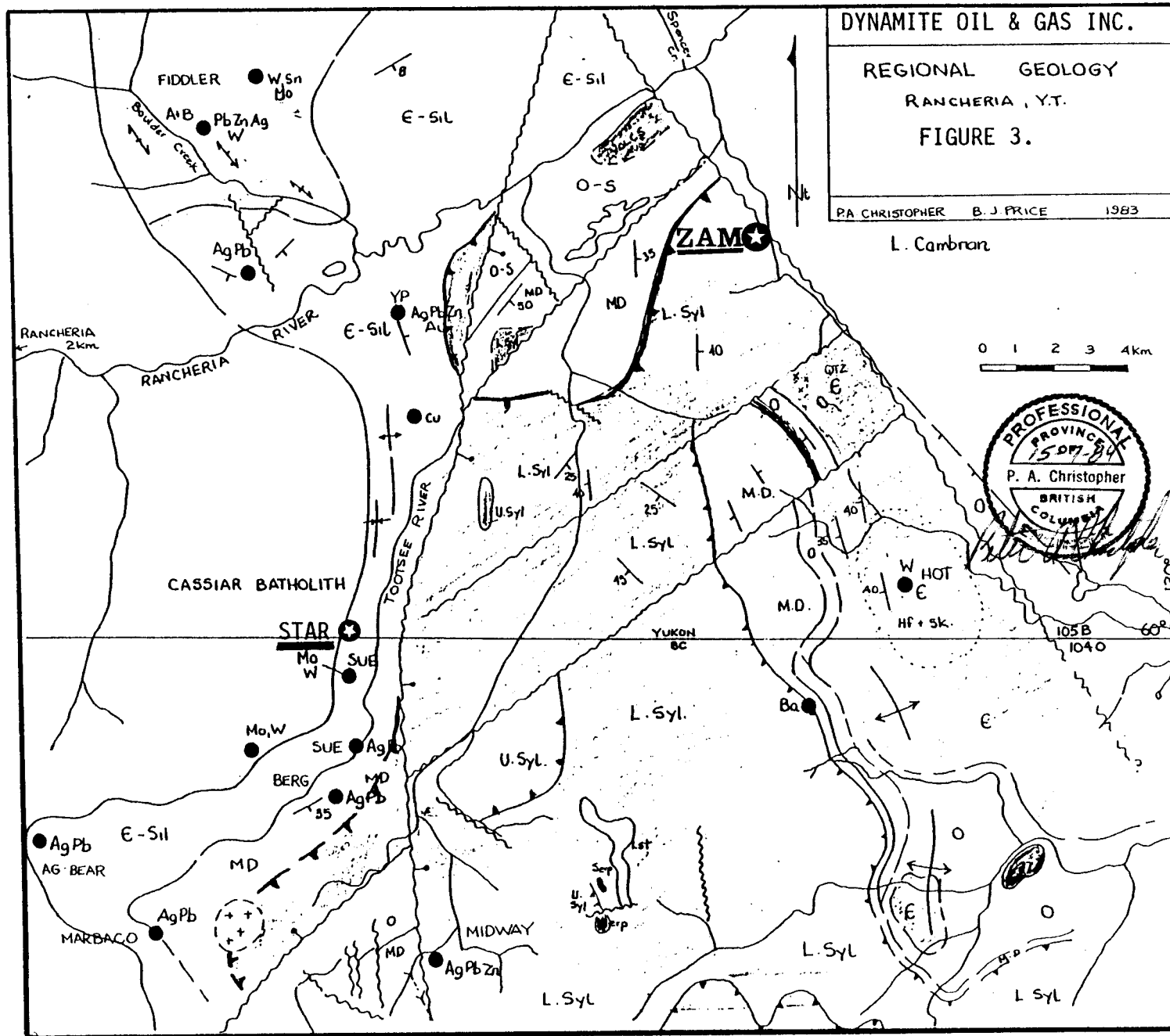
#### **REGIONAL GEOLOGY (Figure 4)**

The claim area is situated along the eastern flank of the Cassiar batholith which extends over 300 km southeasterly from the Wolf Lake map sheet in the Yukon to the Kechika map area in British Columbia. In the Jennings River, Cassiar-McDame and southern part of the Wolf Lake map area, the eastern flank is underlain by Paleozoic rocks from Cambrian to Carboniferous in age and separable into two or more contrasting assemblages, some of which have been deposited elsewhere and moved into place along flat lying faults.

Rocks are described by Poole (G.S.C. Map 10-1960) and by Gabrielse (G.S.C. Paper 68-55, 1968). A synthesis of the regional geology is given in Figure 4 along with locations of several prospects in the area.

#### **PROPERTY GEOLOGY**

Field examinations of the Star claims located outcrops of Sylvester group shales on the Star 7 and 8 claims. Trenches along the Tootsee River Road indicate a similar rock unit near the eastern claim boundary. At least the eastern part of the claim area appears to be underlain by Sylvester Group rocks. Mapping on adjacent claims indicates that a northerly trending contact between granitic and sedimentary rocks



occurs west of the Star claims in the valley area on the east side of the Ace property. Strong northeast and north-northeast fault structures are shown on government maps to occur near the eastern part of the property. Faults are needed to localize mineralizing solutions.

A sample of altered shale float with carbonate veinlets was collected at station 580W and 850N, but rock geochemical results indicated low base and precious metal values (see Plate 2).

### **MINERAL DEPOSITS IN THE AREA**

The most significant development in mineral exploration in the southern Yukon and northern B. C. within the last few years has been the discovery of stratiform silver-lead-zinc mineralization within "exhalite" massive sulphide and silica/barite horizons in the lower portion of the Mississippian-Devonian Sylvester group.

The discovery by Regional Resources Ltd. and partners Amax of Canada and Procan Exploration Ltd. has resulted in an extensive staking program and re-evaluation of geological data concerning mineral showings adjacent to the "Midway" property.

Several other silver-lead-zinc deposits not as yet of economic size or grade occur in close proximity, in Cambrian to Middle Devonian strata, and also in high grade veins (Klondike Silver) within the Cassiar Batholith. A few of these deposits are described briefly, following a description of the Midway property. Vein mineralization occurring at the Silver Tip showing is discussed under a separate heading.

Locations of prospects and mines within the region is given in Figures 1A, 3 and 4.

#### **Midway Deposit:**

The "Midway" deposit, staked by Regional Resources in 1980 and drilled from 1981 to 1983 was discovered as a result of careful exploration of the previously explored Silverknife (Silver Tip) silver-lead-zinc showing following investigation of strongly anomalous silt sample results in a 1980 regional geochemical survey.

Six drill holes in 1981 totalling 853 meters indicated the presence of 3 mineralized zones dipping southeasterly at about 30 degrees. The lowermost zone observed only in drill core overlies the McDame limestone and varies from 1 to 1.5 meters thick. It contains from 2.65 to 23.39% combined lead-zinc and from 1.24 to 22.59 oz/ton silver. This zone is locally absent and may grade laterally into siliceous, pyritic exhalite. Four of the 6 holes encountered a "dry cavernous opening 15 cm to 150 cm wide" near the McDame-Sylvester contact.

The lower zone consists of weakly bedded to brecciated pyrite, galena, sphalerite and carbonate fragments in an argillaceous matrix.

The middle, or "Discovery" zone, found in outcrop, occurs about 70 meters stratigraphically above the lower zone, within argillites and sandstones.

This zone varies from 0.5m to 11.2 meters in thickness and ranges in grade from 4.56 to 13.36 percent combined Pb-Zn and 1.26 to 5.03 oz/ton silver.

The Upper Zone, about 10 - 20 meters above the Discovery zone, ranges in thickness from 0.40m to 3.17m in thickness and has combined lead-zinc grades ranging from 2.62% to 13.15% and silver grades.

Drilling of 18 additional holes in 1982 and fill-in drilling in 1983 suggested the presence of at least 2.78 million tonnes (3.05 M. tons) averaging 13.3 oz/tonne silver, 12% zinc and 6.1% lead with minor but possibly economic quantities of tin, bismuth, gold and copper. (Richardson, Greenshields, Canada Ltd. - research report). Composite samples from core from 8 holes averaged 0.023 oz/ton gold, 0.35% copper, and 0.14% tin. The deposit is now known to exist in an area 2,000 feet (600 m) square through a geological section of 100 ft. (30 m). Definition of the deposit is not complete.

The exhalite horizons can be traced for at least 14 km along strike on the southwest part of the property and similar horizons are seen 10 km to the northeast. On the northeast side of the property a barite exhalite 4 m-thick has been traced for 5 km in float and outcrop.

The mineralized horizons are believed to represent sulfide-rich exhalations deposited on the floor of a rift-controlled basin up to 14 km wide and replacements at clastic-carbonate transitions.

The showings respond well to standard geochemical soil and silt sampling techniques. The Discovery showing has a broad coincident Pb-Zn-Ag-Ba anomaly, and seven additional areas have coincident Pb-Zn-Ag anomalies. Airborne EM and magnetometer surveys were flown and ground EM and gravity surveys were done. Two pulse EM anomalies and one vector EM anomaly were verified by drilling.

#### **Amy (Fosco) Showings:**

The Amy deposit is situated approximately 27 km south of Blue claims and 3 km northwest of the north end of Tootsee Lake. The showings were discovered in 1948 and staked by Hudson Bay Exploration as the Gem Group. In 1949, 8 diamond drill holes were completed totalling 2935 feet. Seven deep trenches traced the mineralized zone for 550 feet with maximum width 7 feet in DDH - 2. The mineralization (galena, tetrahedrite, sphalerite, pyrrhotite and ankerite) occurs as a replacement zone in limestone along a limestone-argillite contact and near the surface trace of the granite contact. The zone occupies a shear zone striking north 55-65 degrees west and dipping 60 degrees southwest.

Further work on the property in 1964 by Rancheria Mining Company consisted of soil surveys, magnetometer surveys and underground development.

In the underground workings, the vein in a 66 foot section averaged 5.9 feet wide and assayed 27.4 oz/ton silver, 7.5% zinc and 7.5% lead. Further drifting along the vein in 1965 disclosed a vein length of at least 419 feet. Additional bulldozer trenching on other geochemical anomalies disclosed other veins. Diamond drilling to test continuity consisted of 24 holes totalling 7500 feet.

The claims lapsed in 1969 and in 1970 the property was restaked by Fosco Mining Limited. Further underground work and drilling was done and a feasibility study was done by Dolmage, Campbell and Associates who concluded that the deposit contained the following tonnages (diluted):

| <u>Category</u>       | <u>Tons</u>    | <u>Ag(oz/t)</u> | <u>Pb%</u>        | <u>Zn%</u> |
|-----------------------|----------------|-----------------|-------------------|------------|
| Measured              | 11,400         | 17.10           | 3.74              | 6.26       |
| Drill indicated       | 31,100         | 6.31            | 1.78              | 6.80       |
| Geologically inferred | <u>68,400</u>  |                 | no grade assigned |            |
| TOTAL:                | <u>110,900</u> |                 |                   |            |

The consultants further stated that "A comparison between the grade of drill intercepts near the underground workings and assays from channel samples taken from the drift suggests that the estimated grade in the drill indicated category is probably low by an unknown but significant amount. The reserve estimate outlined in this report should not be considered as limiting the ultimate potential of the deposit".

Bench scale mill tests produced a concentrate acceptable to custom smelters. A detailed underground exploration program was recommended but immediate production was not recommended at that time because of the weak price for silver (\$1.29 to \$2.57 per ounce).

In 1973, additional surface work was done confirming sampling completed on the 4450 level and a 1400 foot crosscut and 220 feet of drifting was done on the 4200 feet level.

A second estimate of ore reserves was done by Chapman Wood and Griswold in 1974, who concluded that total ore reserves now were + 140000 tons as follows:

| <u>Category</u> | <u>Tons</u>    | <u>Grade Ag(oz/t)</u> | <u>Pb%</u>        | <u>Zn%</u>  |
|-----------------|----------------|-----------------------|-------------------|-------------|
| Measured        | 18,122         | 13.88                 | 3.27              | 7.29        |
| Drill indicated | <u>61,727</u>  | <u>9.76</u>           | <u>2.70</u>       | <u>5.63</u> |
| Total           | 79,849         | 10.70                 | 2.84              | 6.03        |
| Inferred        | <u>59,326</u>  |                       | no grade assigned |             |
| TOTAL:          | <u>140,000</u> |                       |                   |             |

The claims were acquired by Marbaco Mines Ltd. in 1980 along with adjacent claims owned by D. Schellenberg. Marbaco performed geochemical surveys and trenching which indicated additional zones could be present.

Some similarities exist between the Amy deposit and the lowermost "exhalite" zone at the Midway deposit:

- 1) Both deposits occur near limestone - phyllite contacts.
- 2) Solution caves are found adjacent to both deposits.
- 3) Mineralogy and reserve grades are similar.
- 4) Mineralization is parallel with bedding in both deposits.

The Amy deposit is described in most reports as a strike fault system with characteristics of quartz-siderite-sulphide replacement of limestone in a shear zone. However, the possibility exists that the deposit represents a remobilized stratiform exhalite deposit with potential for augmentation of reserves along strike and dip.

#### **Silver Tip Showing (Midway Property)**

The Silver Tip showing, a vein or replacement deposit, is situated three miles northeast of Tootsee Lake. Extensive work was done on the property from 1956 to 1968 by several large companies including Conwest, Canex, Noranda, Bralorne Mines and Peerless Oil and Gas. It now forms part of the Midway property of Regional Resources and partners.

The area is underlain by thick-bedded McDame limestone of Devonian age overlain by Mississippian-Devonian Sylvester Group phyllites. Gossan zones and galena float are found in several zones trending north-easterly. The largest gossan zone, No. 2, ranges from 15 to 65 feet wide and is 700 feet long and was reported to average 5.7 oz/ton silver, 6.2% lead and 2.9% zinc. Individual pieces of galena from the zone assay about 150 oz/ton silver and 70% lead (BCMM Ann. Report 1968, p. 25-33). The same zone

intersected in several drill holes consisted of "frozen mineralized gossan". No. 4 zone intersected in the upper adit was sampled over 38 feet by taking muck from 175 cars. The average was 13.84 oz/ton silver, and 15.4% lead. The average of the channel samples along 40 feet in the west drift was over five feet 0.02 oz/ton gold, 12.0 oz/ton silver, and 14.5% lead. The same zone, intersected in the lower adit approximately 650 feet down the dip of the fault zone, is almost completely oxidized and resembles "soft brown sugar". This almost completely leached material assays 0.2 oz/ton silver, 0.1% lead and 4.5% zinc.

Mineralized zones such as the above are localized on strong faults and fractures in the McDame limestone along the crest of an anticline and appear to be almost completely oxidized to depths exceeding 600 feet from the surface. Apart from the gossan zones, considerable pyrite with minor sphalerite and galena occurs in the holes drilled in the phyllite (presumably Sylvester Group) and minor galena and sphalerite occur in quartz and calcite veins and in limestone. Fresh vein material from which the gossans developed has not been seen on the property.

These vein-replacement deposits currently being drilled by Regional Resources have strong similarities to the Amy deposit of Marbaco Resources. Mineralogy and grades are similar and probable origin by replacement in limy horizons along fault zones is likely. Considering the presence of mineralization over a vertical range of over 650 feet and 5 foot mining width the eventual development of economic reserves on this portion of the property seems certain.

#### YP Property:

The YP property, adjacent to the Flo and Lydia claims, is situated 4 km south of mile 701 on the Alaska Highway and is owned by Flame Petro Minerals Ltd. It is currently being explored by Butler Mountain Resources Ltd. and has several oxidized vein or replacement zones in limestone of unknown but probable Cambrian age. Some solid galena was hand-cobbed and shipped from the property in the 1960's. Several large gossan zones with residual argentiferous galena are thought to represent oxidized replacement zones of galena-tetrahedrite-sphalerite and other sulphides in siderite gangue comparable with zones present on the Silver Tip showing of the Midway property. Geochemical surveys, geologic mapping, trenching and drilling were

recommended by B. Price, M.Sc., F.G.A.C., in 1980. The property was reviewed in 1982 by Glen E. White, P.Eng., who suggested pulse EM surveys in addition to geology and geochemistry. A 2-stage program with \$40,000 expenditure in Stage 1 and \$110,000 in Stage II (drilling) was recommended.

The above programs have proceeded in 1983 with highly encouraging results. Pb-Zn-Ag mineralization in addition to gold mineralization associated with a rhyolite (quartz-eye porphyry) have been intersected in a zone dipping and thickening to the east.

### GEOPHYSICAL SURVEY

Magnetometer and VLF-EM readings were collected at 50 meter intervals along the baseline, line 9, line 10 and a short tie line at 2200N. A total of 7.8 kilometers of magnetometer and VLF-EM survey were completed. The Sintrex MP 2 magnetometer readings less 58,000 gammas are plotted on Plate 3. Dip angles for VLF-EM stations are presented graphically in Appendix B and anomalies are summarized on Plate 3.

Magnetic values plotted on Plate 3 vary from 497 at the Tootsee Lake Road to 931 at 2300W on the baseline. A zone of higher readings occurs along the baseline from 2100W to 2500W. Values started to increase at about 1600W which has a coincident VLF-EM crossover. A geological contact is interpreted to occur at about 1600W with a more magnetic unit to the west. The property has magnetic relief of over 400 gammas and further survey line may help in defining the property geology and in locating magnetic sulphide bodies.

Dip angle plots for VLF-EM readings and the anomaly summary shown on Plate 3 indicate that VLF-EM surveys can be used to define conductive zones on the Star Property. Closer spaced VLF-EM lines will be required to define conductive trends.

### GEOCHEMICAL RESULTS

Soil geochemical samples (192) were collected at 50 meter interval along lines at 365W, 580W, 735W, 960W, 1875W (Line 9) and 2750W (Line 10). Samples were collected from

the B horizon, placed in paper bags, dried and shipped to Chemex Labs Ltd. in North Vancouver for copper, zinc, and silver analyses. Sample locations and site numbers are plotted on Plate 1 and geochemical results plotted on Plate 2. Copies of assay certificates are presented in Appendix C. Values for background, moderately anomalous and anomalous results were assigned by the writer and based on other surveys in the area.

Silver geochemical values vary from 0.1 ppm to 2.8 ppm with value of 0.8 to 1.9 ppm considered anomalous and value over 1.9 ppm considered strongly anomalous. A total of 23 anomalous (12%) and 4 (2%) strongly anomalous samples were detected. Most of the anomalous silver values (17) occur in the eastern part of the claim area. Two strongly anomalous values on Line 10 are from a swamp that has moderately anomalous copper. The anomalous silver values also correspond to VLF-EM crossovers (see Plate 3). Checking of the anomalous results on Line 10 and in the eastern part of the claim area is warranted.

Copper results varies from 1 to 68 ppm with values over 40 ppm considered to be moderately anomalous and no anomalous values detected. Of the 8 moderately anomalous copper values, three of the samples had anomalous silver and two had moderately anomalous zinc. The correlation between silver and copper may indicate the presence of tetrahedrite.

Zinc results varied from 23 to 308 ppm with values over 200 ppm considered to be moderately anomalous and no anomalous values detected. Of the 10 moderately anomalous zinc values, two of the samples had anomalous silver.

Geochemical results for zinc and copper produced only moderately anomalous results but does indicate base metal association with stronger silver responses. Pulps from the samples collected should be analyzed for lead and molybdenum with anomalous molybdenum values checked for tungsten and gold. Arsenic and barium should be examined as possible pathfinder elements for precious metals.

## DISCUSSION OF THE STAR CLAIMS

The Star mineral claims are situated in an area of active base and precious metal exploration. Over thirty companies (Figure 3) are presently exploring for vein, replacement and exhalite deposits containing silver, lead, zinc and gold. Active exploration is also being carried out for skarn deposits with tungsten, tin and molybdenum. The Cassiar batholith contact is often found to be favourable prospecting area (eg., YP and Amy prospects) with anomalous silver values common in this zone. Mapping on adjacent properties suggests that a northerly trending granitic-sediment contact exists in the valley area in the western part of the Star claims. The contact zone generally responds well to normal geophysical and geochemical prospecting techniques. Geologically the setting of the Star claims is similar to the adjacent Midway property. Figure 4A is a geological section for the Midway property that applies to the Star claim area. Sylvester Group sediments which contain shale-hosted mineralization on the Midway property outcrop on the Star claims. McDame carbonates which underlie the Sylvester Group contain replacement massive sulphide deposits on the Midway property, should be exploration targets on the Star property. Strong north-northeast and northeast faults are shown on Figure 4 in the Star claim area. The presence of strong fault structures needed to channel mineral bearing solutions is an encouraging feature.

The basic geochemical and geophysical program conducted on the Star property has indicated areas of anomalous silver geochemistry and several VLF-EM conductors. The magnetic survey appears to be a useful aid for geological interpretation and for testing anomalous zones. Closer line spacing is needed for both geophysical and geochemical surveys. Soils should be analyzed for molybdenum and lead in addition to copper, zinc and silver. Anomalous geochemical samples should be analyzed for gold and tungsten.

## CONCLUSIONS AND RECOMMENDATIONS

An initial geochemical and geophysical program on the Star claims has been successful in indicating anomalous silver values in soils and several VLF-EM conductors. The initial surveys suggest that the most favourable geochemical and geophysical results is

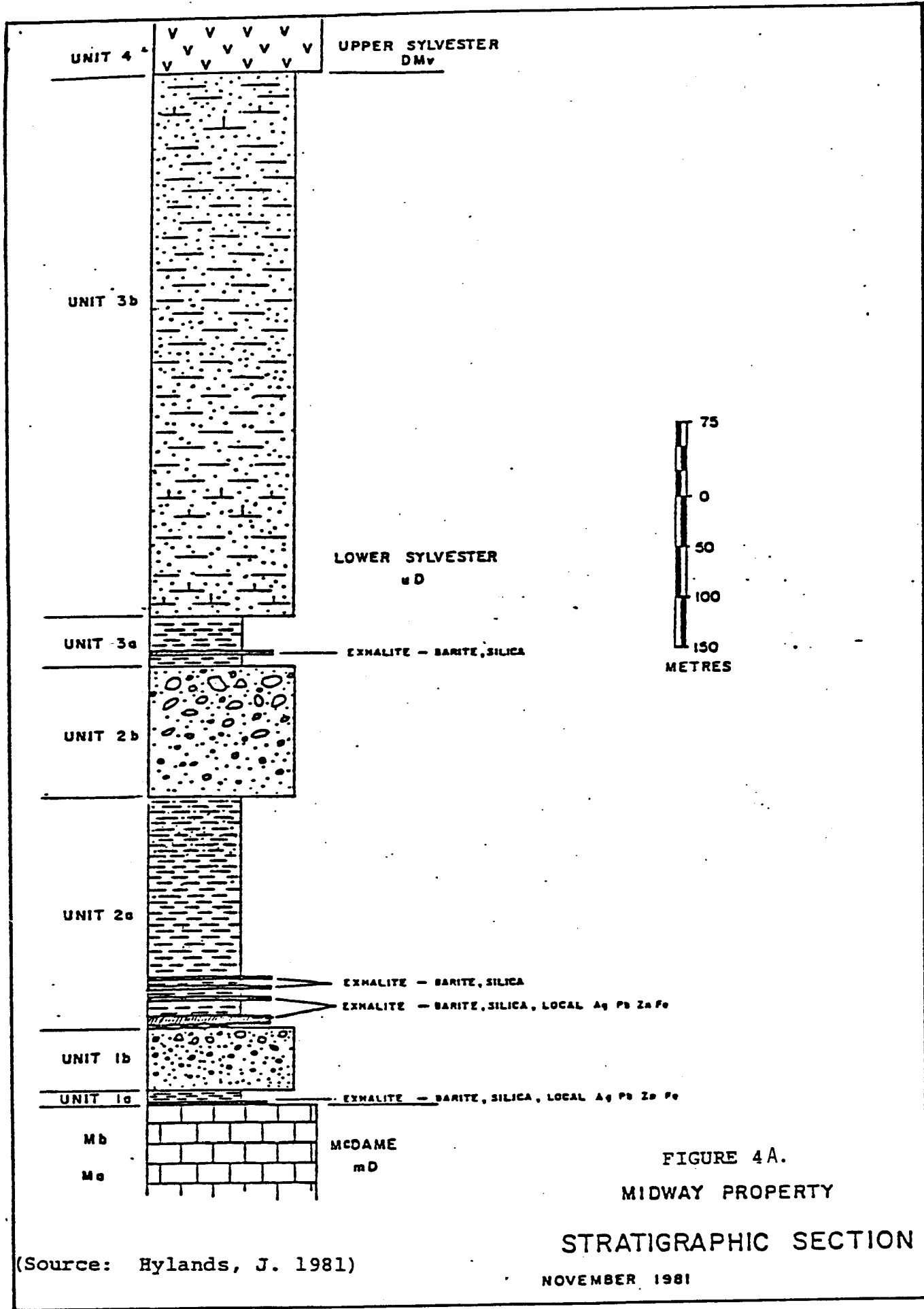


FIGURE 4A.  
MIDWAY PROPERTY

STRATIGRAPHIC SECTION

(Source: Hylands, J. 1981)

NOVEMBER 1981

within 1,500 meters of the border. Considering the proximity and similar geological setting of the Star claim area and the exciting recent "Midway" silver-zinc-lead and barite discoveries, a basic (Stage I) exploration program of geological mapping, silt and soil geochemistry, magnetometer and VLF-EM surveys is warranted for the Star claims. Additional survey lines should be run from the B.C.-Yukon border with 1,500 meter lines spaced at 200 meters. Mapping should be conducted at a scale of 1:5,000 and geochemical and geophysical stations should be at 50 meter intervals. Geochemical samples should be analyzed for copper, molybdenum, lead, zinc, and silver with anomalous samples checked for gold and tungsten. Pulps from previously analyzed samples should be run for lead and molybdenum.

Anomalous conditons detected during Stage I should be tested by a Stage II pulse or Max Min II electromagnetic survey and trenching if overburden conditions permit. If significant mineralization or anomalies are detected during Stages I and II, a Stage III 500 meter diamond drill tst will be warranted.

The basic Stage I program is estimated to cost \$20,000. A Stage II trenching and follow-up geophysical program is estimated to cost \$25,000. A contingent 500 meter (Stage III) drill test is estimated to cost \$100,000.

COST ESTIMATES

a) Stage I Geological, Geochemical, Geophysical

Personnel

|                      |                |          |
|----------------------|----------------|----------|
| Geologist/Manager    | 7 days @ \$300 | \$ 2,100 |
| Assistant/Prospector | 7 days @ \$150 | 1,050    |
| Helper/Sampler       | 7 days @ \$150 | 1,050    |
| Consultant           | 2 days @ \$350 | 700      |

Management 1,500

Transportation

|                              |                     |       |
|------------------------------|---------------------|-------|
| Mobilization/demob. (shared) |                     | 2,000 |
| Truck Rental                 | 9 days @ \$100 each | 900   |
| Shipping                     |                     | 150   |

Room & Board 23 man days @ \$50 each 1,150

Rentals (VLF-EM, etc.) 300

Geochemical Analyses

|  |  |       |
|--|--|-------|
| 400 samples @ \$10 each (Ag, Zn, Pb, Mo, As, ±Au, W) |  | 4,000 |
|--|--|-------|

Base Map Preparation 200

Report Preparation

|                                |           |              |
|--------------------------------|-----------|--------------|
| Report writing and consulting  | 5 @ \$350 | 1,750        |
| Drafting, typing, copies, etc. |           | <u>1,000</u> |

Total \$17,850

Contingency 2,150

STAGE I TOTAL \$20,000

b) Stage II Pulse Electromagnetic, Trenching

Geophysical Survey

10 kilometers @ \$1,000 each\* \$10,000  
(\*all inclusive: reporting & shared mob. etc.)

Trenching (Roads)

Bulldozer 5,000

Engineering, Sampling

4,000

Management

2,000

Total \$21,000


Contingency 4,000

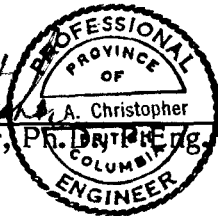
STAGE II TOTAL \$25,000

c) Stage III Diamond Drilling (Contingent)

|  |                          |                  |
|--|--------------------------|------------------|
| Road construction and site preparation |                          | \$ 5,000         |
| Diamond drilling                       | 500 meters @ \$150 each* | 75,000           |
| all inclusive                          |                          |                  |
| Supervision, Consulting, Reporting     |                          | <u>5,000</u>     |
| Total                                  |                          | \$85,000         |
| Contingency                            |                          | <u>15,000</u>    |
| STAGE III TOTAL                        |                          | <u>\$100,000</u> |

|                           |                   |              |
|---------------------------|-------------------|--------------|
| STAGE I                   | \$ 20,000         |              |
| STAGE II                  | \$ 25,000         | (Contingent) |
| STAGE III                 | <u>\$ 100,000</u> | (Contingent) |
| TOTAL STAGES I, II, & III | <u>\$ 145,000</u> |              |

  
Peter A. Christopher, P. Eng.  
July 15, 1984



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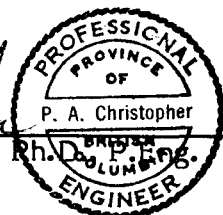
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CERTIFICATE

I, Peter A. Christopher, with business address at 3707 West 34th Avenue, Vancouver, British Columbia, do hereby certify that:

- 1) I am a consulting geological engineer registered with the Association of Professional Engineers of British Columbia since 1976.
- 2) I am a Fellow of the Geological Association of Canada and a member of the Society of Economic Geologists.
- 3) I hold a B.Sc. (1966) from the State University of New York at Fredonia, a M.A. (1968) from Dartmouth College and a Ph.D. (1973) from The University of British Columbia.
- 4) I have been practising my profession as a Geologist for over 15 years.
- 5) I have no direct or indirect interest, nor do I expect to receive any interest directly or indirectly in the property or securities of Dynamite Oil & Gas Inc.
- 6) I have based this report on available geological data on the property and adjacent mineral properties, on August 16 and September 1, 1983 field examinations and on a field program conducted between June 21st and June 30th, 1984.
- 7) I consent to the use of the report by Dynamite Oil & Gas Inc. in any Filing Statement, Statement of Material Facts or Prospectus to be issued by Dynamite Oil & Gas Inc.

  
PETER A. CHRISTOPHER, Ph.D., P. Eng.  
July 15, 1984



APPENDIX A

COST STATEMENT

PERSONNEL

|   |                                     |        |
|---|-------------------------------------|--------|
| P.A. Christopher, P.Eng.  | June 21st, 22nd/84 @ \$350 ea.      | \$ 700 |
| W.G. Bytycki<br>#4 - 1776 Francis Street<br>Vancouver, B.C.           | June 21st, 22nd, 30th/84<br>@ \$150 | 450    |
| Gerry Hayne, B.Sc.<br>20891 - 44th Avenue<br>Langley, B.C.<br>V3A 5A8 | June 30th/84 @ \$150                | 150    |
| Gary A. Medford, Ph.D.<br>3582 West 14th Avenue<br>Vancouver, B.C.    | June 30th/84 (supervision)          | 100    |

TRANSPORTATION

|                         |                    |           |
|-------------------------|--------------------|-----------|
| 4 x 4 Truck<br>Shipping | 3 Days @ \$100 ea. | 300<br>50 |
|-------------------------|--------------------|-----------|

|                |                       |     |
|----------------|-----------------------|-----|
| ROOM AND BOARD | 6 Man Days @ \$50 ea. | 300 |
|----------------|-----------------------|-----|

|                |  |     |
|----------------|--|-----|
| FIELD SUPPLIES |  | 107 |
|----------------|--|-----|

GEOCHEMICAL ANALYSES @ COST + 10%

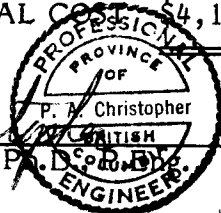
|                   |                 |     |
|-------------------|-----------------|-----|
| Rock Geochemistry | 1 @ \$ 11.30    |     |
| Silt & Soil       | 192 @ 865.30    |     |
|                   | <u>\$876.60</u> |     |
|                   | <u>87.66</u>    |     |
|                   | \$964.26        | 964 |

|                       |  |     |
|-----------------------|--|-----|
| MAP COPIES & DRAFTING |  | 200 |
|-----------------------|--|-----|

|                    |  |            |
|--------------------|--|------------|
| REPORT PREPARATION |  | <u>800</u> |
|--------------------|--|------------|

TOTAL COST \$4,121

Peter A. Christopher, P. Eng.  
July 15, 1984



## APPENDIX B

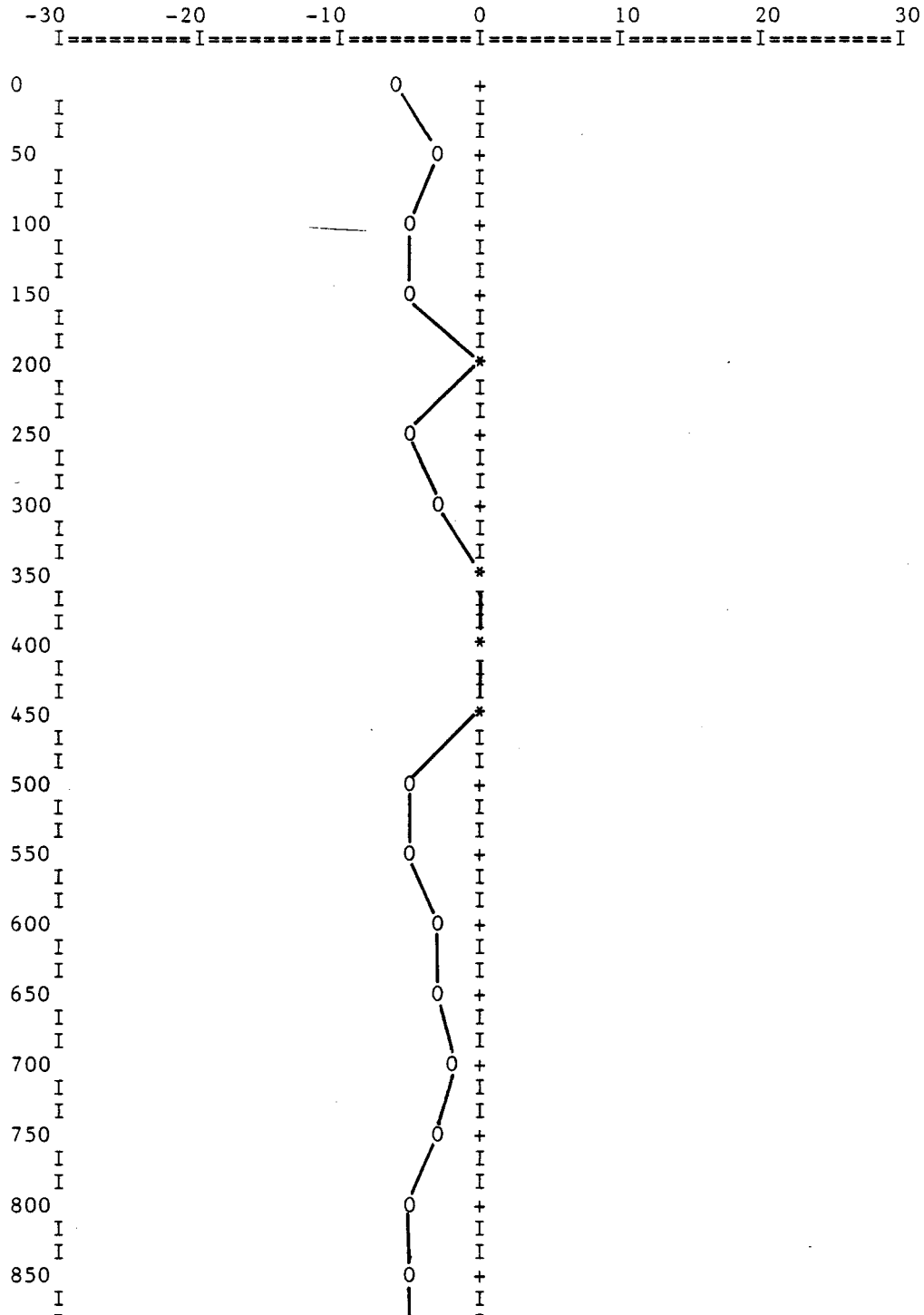
### VLF-EM PROFILES

|                         |                         |
|-------------------------|-------------------------|
| <b>BASELINE</b>         | <b>00 to 2750 W</b>     |
| <b>2200N</b>            | <b>2050 W to 2700 W</b> |
| <b>1875 W (Line 9)</b>  | <b>0 to 2200N</b>       |
| <b>2750 W (Line 10)</b> | <b>0 to 2200N</b>       |

301 REM STAR PROPERTY DYNAMITE OIL & GAS INC.  
302 REM STA 1 SEATTLE STA 2 NONE  
303 REM BASELINE 00(@ TOOTSEE LK RD) TO 2750W  
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590 DATA 2,0  
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700 DATA -6,0  
710 DATA -3,0  
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810 DATA -3,0  
820 DATA -1,0  
830 DATA -3,0  
840 DATA -3,0  
850 DATA -3,0

PROPERTY NAME : STAR  
 FOR CLIENT: DYNAMITE OIL & GAS INC.  
 DATE : JUNE 30/84  
 LINE NUMBER : BL 00 TO 2750W  
 RAPITAN VLF - EM PROFILE: DIP ANGLES IN DEGREES

STN 1 IS SEATTLE  
 STN 2 IS NONE







301 REM STAR PROPERTY DYNAMITE OIL & GAS  
 302 REM STAT 1 SEATTLE STAT 2 NONE  
 303 REM LINE 2200N 2700E TO 2100E  
 310 DATA -5,0  
 320 DATA -5,0  
 330 DATA -5,0  
 340 DATA -2,0  
 350 DATA -2,0  
 360 DATA -2,0  
 370 DATA -3,0  
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 390 DATA -7,0  
 400 DATA -5,0  
 410 DATA -3,0  
 420 DATA -3,0  
 430 DATA -5,0

PROPERTY NAME :STAR

FOR CLIENT:DYNAMITE OIL & GAS

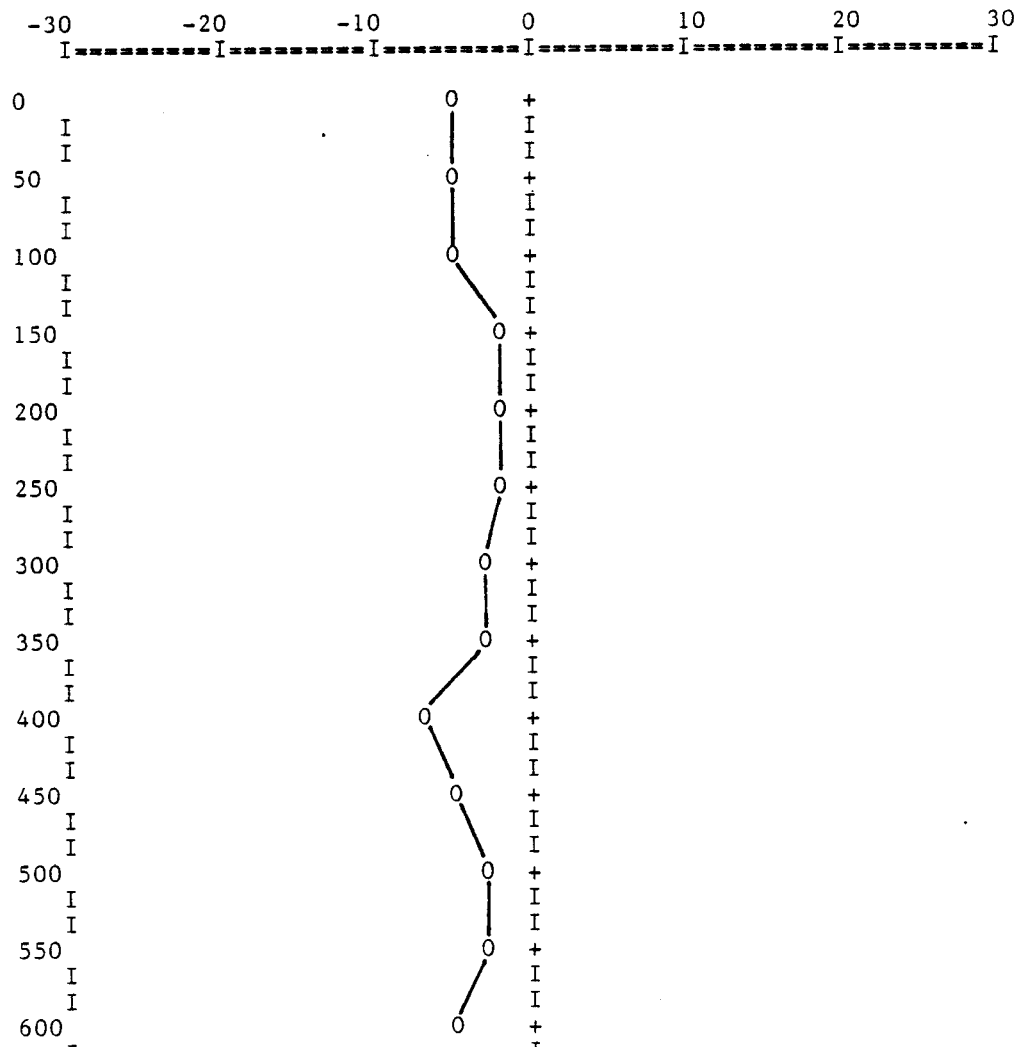
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LINE NUMBER :2200N 2700E TO 2100E

STN 2 IS NONE

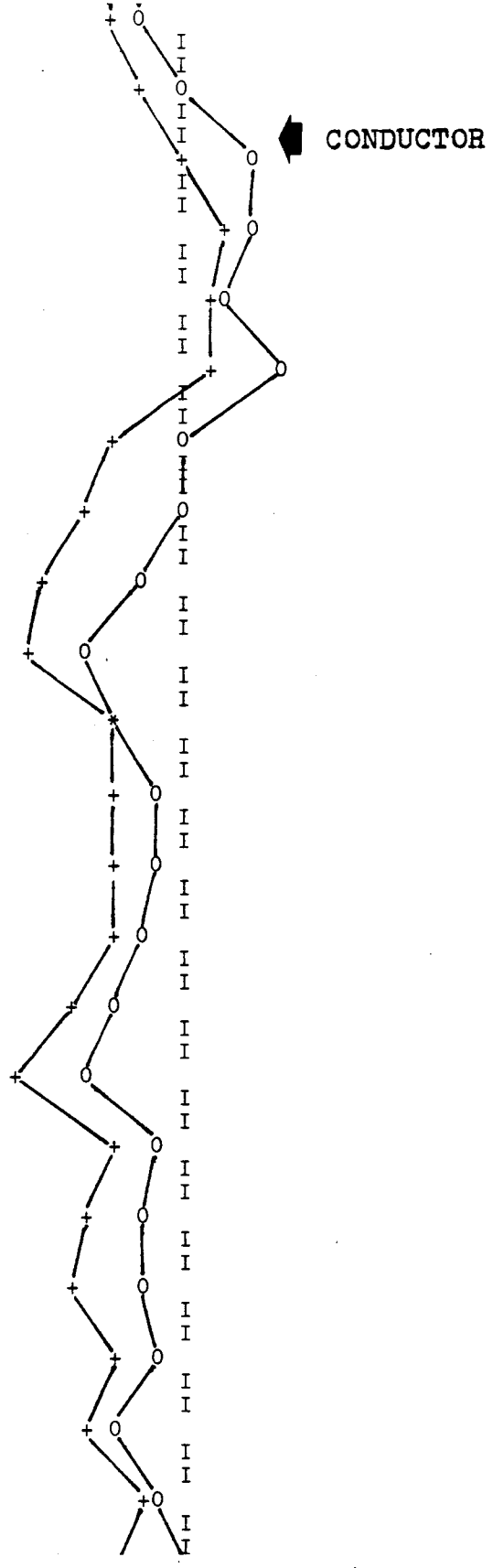
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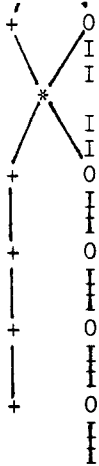
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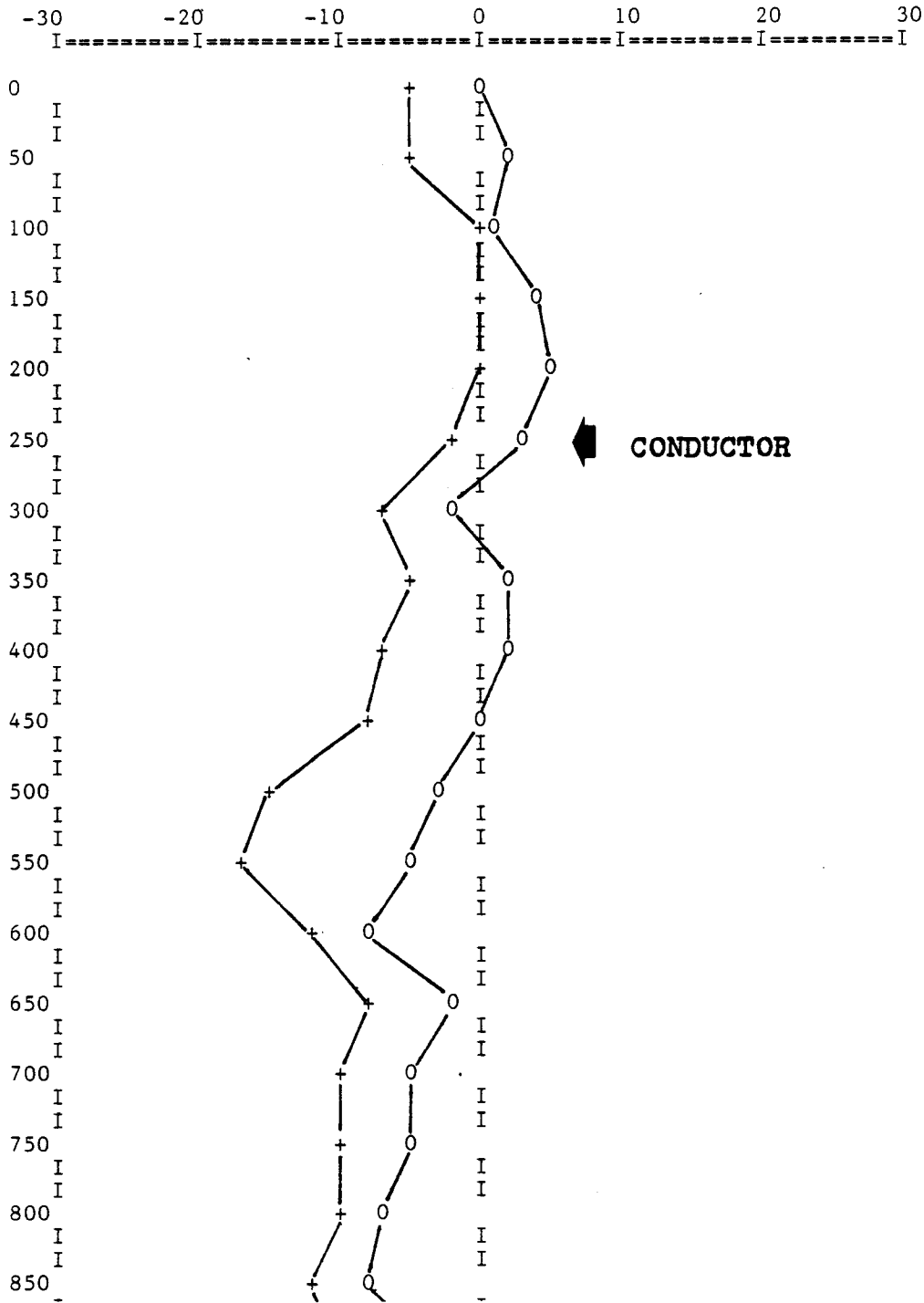
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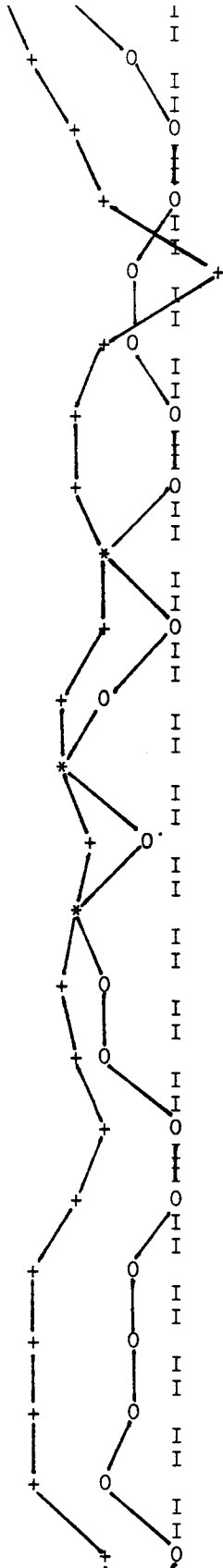
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720 DATA 2,-3  
730 DATA 2,-2  
740 DATA 3,0  
750 DATA 5,0

PROPERTY NAME :STAR  
FOR CLIENT:DYNAMITE OIL & GAS INC.  
DATE :JUNE 30/84  
LINE NUMBER :10 OOBL TO 2200N  
RAPITAN VLF - EM PROFILE: DIP ANGLES IN DEGREES

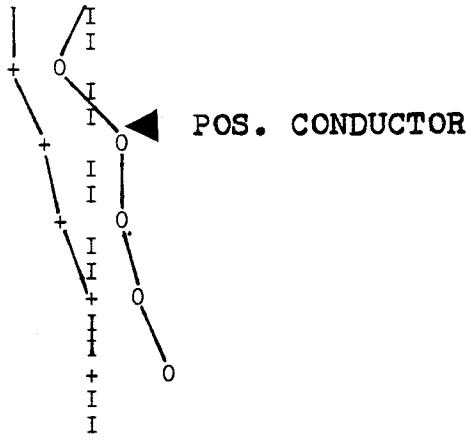
STN 1 IS CUTLER  
STN 2 IS HAWAII



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**APPENDIX C**

**ASSAY CERTIFICATES**



# CHEMEX LABS LTD.

212 BROOKSBANK AVE.  
NORTH VANCOUVER, B.C.  
CANADA V7J 2C1

• ANALYTICAL CHEMISTS

• GEOCHEMISTS

• REGISTERED ASSAYERS

TELEPHONE: (604) 984-0221  
TELEX: 043-52597

## CERTIFICATE OF ANALYSIS

TO : CHRISTOPHER, PETER & ASSOCIATES INC.

3707 WEST 34TH AVE.,  
VANCOUVER, B.C.  
V6N 2K9

CERT. # : A8412881-001-A  
INVOICE # : 18412881  
DATE : 4-JUL-84  
P.O. # : NONE  
STAR

| Sample description | Prep code | Cu ppm | Zn ppm | Ag ppm |    |    |    |
|--------------------|-----------|--------|--------|--------|----|----|----|
| SG884620-294       | 201       | 1      | 45     | 0.4    | -- | -- | -- |
| SG884620-295       | 201       | 1      | 32     | 0.4    | -- | -- | -- |
| SG884620-296       | 201       | 5      | 40     | 0.3    | -- | -- | -- |
| SG884620-297       | 201       | 19     | 110    | 0.6    | -- | -- | -- |
| SG884620-298       | 201       | 10     | 65     | 0.3    | -- | -- | -- |
| SG884620-299       | 203       | 26     | 115    | 1.2    | -- | -- | -- |
| SG884620-300       | 201       | 17     | 92     | 0.1    | -- | -- | -- |
| SG884620-301       | 201       | 4      | 31     | 0.2    | -- | -- | -- |
| SG884620-302       | 201       | 9      | 67     | 0.4    | -- | -- | -- |
| SG884620-303       | 201       | 8      | 32     | 0.4    | -- | -- | -- |
| SG884620-304       | 201       | 7      | 55     | 0.2    | -- | -- | -- |
| SG884620-305       | 201       | 7      | 45     | 0.4    | -- | -- | -- |
| SG884620-306       | 201       | 8      | 54     | 0.1    | -- | -- | -- |
| SG884620-307       | 201       | 14     | 60     | 0.4    | -- | -- | -- |
| SG884620-308       | 201       | 10     | 71     | 0.2    | -- | -- | -- |
| SG884620-309       | 201       | 4      | 50     | 0.4    | -- | -- | -- |
| SG884620-310       | 201       | 8      | 62     | 0.3    | -- | -- | -- |
| SG884620-311       | 201       | 9      | 72     | 0.3    | -- | -- | -- |
| SG884620-312       | 201       | 7      | 67     | 0.4    | -- | -- | -- |
| SG884620-313       | 201       | 6      | 50     | 0.3    | -- | -- | -- |
| SG884620-314       | 201       | 11     | 39     | 0.4    | -- | -- | -- |
| SG884620-315       | 201       | 6      | 92     | 0.2    | -- | -- | -- |
| SG884620-316       | 201       | 4      | 62     | 0.3    | -- | -- | -- |
| SG884620-317       | 201       | 11     | 83     | 0.2    | -- | -- | -- |
| SG884620-318       | 201       | 12     | 115    | 0.6    | -- | -- | -- |
| SG884620-319       | 201       | 5      | 65     | 0.3    | -- | -- | -- |
| SG884620-320       | 201       | 4      | 45     | 0.4    | -- | -- | -- |
| SG884620-321       | 201       | 8      | 79     | 0.4    | -- | -- | -- |
| SG884620-322       | 201       | 9      | 93     | 0.4    | -- | -- | -- |
| SG884620-323       | 201       | 4      | 52     | 0.3    | -- | -- | -- |
| SG884620-324       | 201       | 11     | 90     | 0.4    | -- | -- | -- |
| SG884620-325       | 201       | 11     | 150    | 0.2    | -- | -- | -- |
| SG884620-326       | 201       | 10     | 105    | 0.3    | -- | -- | -- |
| SG884620-327       | 201       | 14     | 130    | 0.5    | -- | -- | -- |
| SG884620-328       | 201       | 11     | 110    | 0.5    | -- | -- | -- |
| SG884620-329       | 201       | 14     | 148    | 0.5    | -- | -- | -- |
| SG884620-330       | 201       | 8      | 33     | 0.5    | -- | -- | -- |
| SG884620-331       | 201       | 8      | 75     | 0.3    | -- | -- | -- |
| SG884620-332       | 201       | 13     | 103    | 0.4    | -- | -- | -- |
| SG884620-333       | 201       | 16     | 160    | 0.5    | -- | -- | -- |



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TO : CHRISTOPHER, PETER & ASSOCIATES INC.

3707 WEST 34TH AVE.,  
VANCOUVER, B.C.  
V6N 2K9

CERT. # : A8412831-002-A  
INVOICE # : I8412881  
DATE : 4-JUL-84  
P.O. # : NONE  
STAR

| Sample description | Prep code | Cu ppm | Zn ppm | Ag ppm |    |    |    |
|--------------------|-----------|--------|--------|--------|----|----|----|
| SGB84620-334       | 201       | 13     | 210    | 0.5    | -- | -- | -- |
| SGB84620-335       | 201       | 7      | 118    | 0.5    | -- | -- | -- |
| SGB84620-336       | 201       | 15     | 105    | 1.1    | -- | -- | -- |
| SGB84620-337       | 201       | 12     | 200    | 0.5    | -- | -- | -- |
| SGB84620-338       | 201       | 9      | 98     | 0.4    | -- | -- | -- |
| SGB84620-339       | 201       | 10     | 98     | 0.4    | -- | -- | -- |
| SGB84621-340       | 201       | 13     | 80     | 0.6    | -- | -- | -- |
| SGB84621-341       | 201       | 10     | 88     | 0.4    | -- | -- | -- |
| SGB84621-342       | 201       | 45     | 175    | 2.0    | -- | -- | -- |
| SGB84621-343       | 201       | 44     | 82     | 2.2    | -- | -- | -- |
| SGB84621-344       | 201       | 12     | 102    | 0.4    | -- | -- | -- |
| SGB84621-345       | 201       | 12     | 78     | 0.3    | -- | -- | -- |
| SGB84621-346       | 201       | 17     | 30     | 0.7    | -- | -- | -- |
| SGB84621-347       | 201       | 7      | 98     | 0.3    | -- | -- | -- |
| SGB84621-348       | 201       | 11     | 70     | 0.5    | -- | -- | -- |
| SGB84621-349       | 201       | 11     | 95     | 0.5    | -- | -- | -- |
| SGB84621-350       | 201       | 17     | 308    | 0.4    | -- | -- | -- |
| SGB84621-351       | 201       | 47     | 280    | 0.7    | -- | -- | -- |
| SGB84621-352       | 201       | 15     | 140    | 0.4    | -- | -- | -- |
| SGB84621-353       | 201       | 13     | 125    | 1.1    | -- | -- | -- |
| SGB84621-354       | 201       | 15     | 75     | 0.3    | -- | -- | -- |
| SGB84621-355       | 201       | 17     | 133    | 0.1    | -- | -- | -- |
| SGB84621-356       | 201       | 11     | 205    | 0.4    | -- | -- | -- |
| SGB84621-357       | 201       | 11     | 95     | 0.2    | -- | -- | -- |
| SGB84621-358       | 201       | 8      | 55     | 0.4    | -- | -- | -- |
| SGB84621-359       | 201       | 4      | 42     | 0.3    | -- | -- | -- |
| SGB84621-360       | 201       | 7      | 44     | 0.3    | -- | -- | -- |
| SGB84621-361       | 201       | 8      | 68     | 0.3    | -- | -- | -- |
| SGB84621-362       | 201       | 7      | 50     | 0.3    | -- | -- | -- |
| SGB84621-363       | 201       | 11     | 98     | 0.1    | -- | -- | -- |
| SGB84621-364       | 201       | 12     | 120    | 0.3    | -- | -- | -- |
| SGB84621-365       | 201       | 14     | 90     | 0.4    | -- | -- | -- |
| SGB84621-366       | 201       | 7      | 73     | 0.4    | -- | -- | -- |
| SGB84621-367       | 201       | 7      | 54     | 0.3    | -- | -- | -- |
| SGB84621-368       | 201       | 8      | 59     | 0.4    | -- | -- | -- |
| SGB84621-369       | 201       | 8      | 73     | 0.2    | -- | -- | -- |
| SGB84621-370       | 201       | 6      | 48     | 0.4    | -- | -- | -- |
| SGB84621-371       | 201       | 4      | 47     | 0.3    | -- | -- | -- |
| SGB84621-372       | 201       | 5      | 46     | 0.5    | -- | -- | -- |
| SGB84621-373       | 201       | 8      | 52     | 0.3    | -- | -- | -- |



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## CERTIFICATE OF ANALYSIS

TO : CHRISTOPHER, PETER & ASSOCIATES INC.

3707 WEST 34TH AVE.,  
VANCOUVER, B.C.  
V6N 2K9

CERT. # : A8412881-003-A  
INVOICE # : I8412881  
DATE : 4-JUL-84  
P.O. # : NONE  
STAR

| Sample description | Prep code | Cu ppm | Zn ppm | Ag ppm |    |    |    |
|--------------------|-----------|--------|--------|--------|----|----|----|
| SGB84621-374       | 201       | 8      | 73     | 0.3    | -- | -- | -- |
| SGB84621-375       | 201       | 7      | 52     | 0.4    | -- | -- | -- |
| SGB84621-376       | 201       | 8      | 50     | 0.3    | -- | -- | -- |
| SGB84621-377       | 201       | 4      | 44     | 0.3    | -- | -- | -- |
| SGB84621-378       | 201       | 5      | 55     | 0.4    | -- | -- | -- |
| SGB84621-379       | 201       | 15     | 23     | 0.2    | -- | -- | -- |
| SGB84621-380       | 201       | 8      | 58     | 0.2    | -- | -- | -- |
| SGB84621-381       | 201       | 8      | 52     | 0.5    | -- | -- | -- |
| SPC84620-001       | 201       | 20     | 145    | 0.3    | -- | -- | -- |
| SPC84620-002       | 201       | 12     | 88     | 0.4    | -- | -- | -- |
| SPC84620-003       | 201       | 10     | 150    | 0.3    | -- | -- | -- |
| SPC84620-004       | 201       | 17     | 74     | 0.8    | -- | -- | -- |
| SPC84620-005       | 201       | 8      | 140    | 0.3    | -- | -- | -- |
| SPC84620-006       | 201       | 14     | 240    | 0.4    | -- | -- | -- |
| SPC84620-007       | 201       | 18     | 135    | 0.3    | -- | -- | -- |
| SPC84620-008       | 201       | 12     | 115    | 0.5    | -- | -- | -- |
| SPC84620-009       | 201       | 16     | 140    | 0.6    | -- | -- | -- |
| SPC84620-010       | 201       | 23     | 108    | 0.5    | -- | -- | -- |
| SPC84620-011       | 201       | 19     | 112    | 0.6    | -- | -- | -- |
| SPC84620-012       | 201       | 21     | 130    | 0.6    | -- | -- | -- |
| SPC84620-013       | 201       | 25     | 180    | 0.5    | -- | -- | -- |
| SPC84620-014       | 201       | 26     | 140    | 0.9    | -- | -- | -- |
| SPC84620-015       | 201       | 24     | 180    | 1.1    | -- | -- | -- |
| SPC84620-016       | 201       | 49     | 150    | 0.4    | -- | -- | -- |
| SPC84620-017       | 201       | 17     | 243    | 0.5    | -- | -- | -- |
| SPC84620-018       | 201       | 25     | 87     | 0.8    | -- | -- | -- |
| SPC84620-019       | 201       | 39     | 100    | 0.5    | -- | -- | -- |
| SPC84620-020       | 201       | 31     | 85     | 0.4    | -- | -- | -- |
| SPC84620-021       | 201       | 68     | 95     | 0.4    | -- | -- | -- |
| SPC84620-022       | 201       | 36     | 100    | 0.4    | -- | -- | -- |
| SPC84620-023       | 201       | 18     | 70     | 0.5    | -- | -- | -- |
| SPC84620-024       | 201       | 30     | 115    | 1.3    | -- | -- | -- |
| SPC84620-025       | 201       | 32     | 98     | 1.0    | -- | -- | -- |
| SPC84620-026       | 201       | 25     | 50     | 1.5    | -- | -- | -- |
| SPC84620-027       | 201       | 37     | 133    | 0.9    | -- | -- | -- |
| SPC84620-028       | 201       | 29     | 100    | 1.0    | -- | -- | -- |
| SPC84620-029       | 201       | 16     | 70     | 0.4    | -- | -- | -- |
| SPC84620-030       | 201       | 29     | 85     | 0.3    | -- | -- | -- |
| SPC84620-031       | 201       | 14     | 56     | 1.0    | -- | -- | -- |
| SPC84620-032       | 201       | 14     | 78     | 0.8    | -- | -- | -- |



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3707 WEST 34TH AVE.,  
VANCOUVER, B.C.  
V6N 2K9

CERT. # : A8412881-004-A  
INVOICE # : I8412881  
DATE : 4-JUL-84  
P.O. # : NONE  
STAR

| Sample description | Prep code | Cu ppm | Zn ppm | Ag ppm |    |    |    |
|--------------------|-----------|--------|--------|--------|----|----|----|
| SPC84620-033       | 201       | 15     | 200    | 0.6    | -- | -- | -- |
| SPC84620-034       | 201       | 9      | 107    | 0.5    | -- | -- | -- |
| SPC84620-035       | 201       | 38     | 103    | 0.7    | -- | -- | -- |
| SPC84620-036       | 201       | 11     | 92     | 0.4    | -- | -- | -- |
| SPC84620-037       | 201       | 15     | 152    | 0.5    | -- | -- | -- |
| SPC84620-038       | 201       | 40     | 158    | 0.6    | -- | -- | -- |
| SPC84620-039       | 201       | 46     | 88     | 0.4    | -- | -- | -- |
| SPC84620-040       | 201       | 21     | 105    | 0.5    | -- | -- | -- |
| SPC84620-041       | 201       | 34     | 212    | 1.9    | -- | -- | -- |
| SPC84620-042       | 201       | 8      | 115    | 0.4    | -- | -- | -- |
| SPC84620-043       | 201       | 8      | 205    | 0.3    | -- | -- | -- |
| SPC84620-044       | 201       | 9      | 95     | 0.5    | -- | -- | -- |
| SPC84620-045       | 201       | 14     | 140    | 0.2    | -- | -- | -- |
| SPC84620-046       | 201       | 7      | 78     | 0.3    | -- | -- | -- |
| SPC84620-047       | 201       | 9      | 39     | 0.5    | -- | -- | -- |
| SPC84620-048       | 201       | 18     | 85     | 0.3    | -- | -- | -- |
| SPC84620-049       | 201       | 12     | 120    | 0.2    | -- | -- | -- |
| SPC84620-050       | 201       | 10     | 185    | 0.5    | -- | -- | -- |
| SPC84620-051       | 201       | 11     | 73     | 0.4    | -- | -- | -- |
| SPC84620-052       | 201       | 16     | 95     | 0.3    | -- | -- | -- |
| SPC84621-053       | 201       | 14     | 88     | 0.5    | -- | -- | -- |
| SPC84621-054       | 201       | 20     | 115    | 0.3    | -- | -- | -- |
| SPC84621-055       | 201       | 20     | 88     | 0.2    | -- | -- | -- |
| SPC84621-056       | 201       | 7      | 58     | 0.6    | -- | -- | -- |
| SPC84621-057       | 201       | 13     | 155    | 0.4    | -- | -- | -- |
| SPC84621-058       | 201       | 11     | 150    | 0.3    | -- | -- | -- |
| SPC84621-059       | 201       | 10     | 90     | 0.3    | -- | -- | -- |
| SPC84621-060       | 201       | 20     | 158    | 0.4    | -- | -- | -- |
| SPC84621-061       | 201       | 14     | 150    | 0.5    | -- | -- | -- |
| SPC84621-062       | 201       | 17     | 60     | 0.4    | -- | -- | -- |
| SPC84621-063       | 201       | 19     | 82     | 0.6    | -- | -- | -- |
| SPC84621-064       | 201       | 21     | 62     | 0.4    | -- | -- | -- |
| SPC84621-065       | 201       | 7      | 104    | 0.1    | -- | -- | -- |
| SPC84621-066       | 201       | 9      | 155    | 0.1    | -- | -- | -- |
| SPC84621-067       | 201       | 6      | 84     | 0.1    | -- | -- | -- |
| SPC84621-068       | 201       | 46     | 150    | 1.2    | -- | -- | -- |
| SPC84621-069       | 201       | 27     | 124    | 0.8    | -- | -- | -- |
| SPC84621-070       | 201       | 22     | 107    | 1.0    | -- | -- | -- |
| SPC84621-071       | 201       | 11     | 88     | 0.1    | -- | -- | -- |
| SPC84621-072       | 201       | 6      | 93     | 0.1    | -- | -- | -- |

*Hart Buchler*

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TO : CHRISTOPHER, PETER & ASSOCIATES INC.

3707 WEST 34TH AVE.,  
VANCOUVER, B.C.  
V6N 2K9

CERT. # : A8412881-005-A  
INVOICE # : I8412881  
DATE : 4-JUL-84  
P.O. # : NONE  
STAR

| Sample description | Prep code | Cu ppm | Zn ppm | Ag ppm |    |    |    |
|--------------------|-----------|--------|--------|--------|----|----|----|
| SPC84621-073       | 201       | 41     | 255    | 2.8    | -- | -- | -- |
| SPC84621-074       | 201       | 14     | 100    | 0.1    | -- | -- | -- |
| SPC84621-075       | 201       | 25     | 83     | 0.2    | -- | -- | -- |
| SPC84621-076       | 201       | 19     | 68     | 0.1    | -- | -- | -- |
| SPC84621-077       | 201       | 12     | 50     | 0.1    | -- | -- | -- |
| SPC84621-078       | 201       | 9      | 83     | 0.1    | -- | -- | -- |
| SPC84621-079       | 201       | 35     | 92     | 0.9    | -- | -- | -- |
| SPC84621-080       | 201       | 23     | 85     | 0.5    | -- | -- | -- |
| SPC84621-081       | 201       | 12     | 70     | 0.1    | -- | -- | -- |
| SPC84621-082       | 201       | 13     | 195    | 0.4    | -- | -- | -- |
| SPC84621-083       | 201       | 12     | 88     | 0.1    | -- | -- | -- |
| SPC84621-084       | 201       | 15     | 132    | 0.1    | -- | -- | -- |
| SPC84621-085       | 201       | 11     | 155    | 0.1    | -- | -- | -- |
| SPC84621-086       | 201       | 9      | 95     | 0.1    | -- | -- | -- |
| SPC84621-087       | 201       | 6      | 210    | 0.1    | -- | -- | -- |
| SPC84621-088       | 201       | 6      | 90     | 0.1    | -- | -- | -- |
| SPC84621-089       | 201       | 8      | 130    | 0.1    | -- | -- | -- |
| SPC84621-090       | 201       | 7      | 133    | 0.1    | -- | -- | -- |
| SPC84621-091       | 201       | 8      | 97     | 0.1    | -- | -- | -- |
| SPC84621-092       | 201       | 15     | 118    | 0.4    | -- | -- | -- |
| SPC84621-093       | 201       | 11     | 92     | 0.1    | -- | -- | -- |
| SPC84621-094       | 201       | 25     | 275    | 0.1    | -- | -- | -- |
| SPC84621-095       | 201       | 16     | 82     | 0.1    | -- | -- | -- |
| SPC84621-096       | 201       | 9      | 110    | 0.1    | -- | -- | -- |
| SPC84621-097       | 201       | 26     | 108    | 0.2    | -- | -- | -- |
| SPC84621-098       | 201       | 14     | 98     | 0.1    | -- | -- | -- |
| SPC84621-099       | 201       | 11     | 75     | 0.1    | -- | -- | -- |
| SPC84621-100       | 201       | 13     | 80     | 0.3    | -- | -- | -- |
| SPC84621-101       | 201       | 40     | 78     | 1.0    | -- | -- | -- |
| SPC84621-102       | 201       | 22     | 93     | 0.5    | -- | -- | -- |
| SPC84621-103       | 201       | 26     | 128    | 0.1    | -- | -- | -- |
| SPC84621-104       | 201       | 12     | 78     | 0.1    | -- | -- | -- |



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To : CHRISTOPHER, PETER & ASSOCIATES INC.

Invoice # : 18412881

3707 WEST 34TH AVE.,  
VANCOUVER, B.C.  
V6N 2K9

Date : 4-JUL-84  
P.O. # : NONE  
Project STAR

Invoice for analytical work reported on certificate(s) A8412881-001 to -005

| Quantity | code     | description | unit | price | amount |
|----------|----------|-------------|------|-------|--------|
| 192      | 002 - Cu |             | ton  |       |        |
|          | 005 - Zn |             | ton  |       |        |
|          | 006 - Ag |             | ton  | 3.80  | 729.60 |

Sample preparation and other charges :

|     |                                |  |  |      |        |
|-----|--------------------------------|--|--|------|--------|
| 191 | 201 - soil + sediment -80 mesh |  |  | 0.70 | 133.70 |
| 1   | 203 - -35 mesh sieve + ring    |  |  | 2.00 | 2.00   |

TOTAL \$ 865.30

Please pay this amount ----> \$ 865.30  
=====

TERMS -- NET 30 DAYS

1.5 % per month (18 % per annum) charged on overdue accounts



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TELEPHONE: (604) 984-0221  
TELEX: 043-52597

• ANALYTICAL CHEMISTS

• GEOCHEMISTS

• REGISTERED ASSAYERS

## CERTIFICATE OF ANALYSIS

TO : CHRISTOPHER, PETER & ASSOCIATES INC.

3707 WEST 34TH AVE.,  
VANCOUVER, B.C.  
V6N 2K9

CERT. # : A8413011-001-A  
INVOICE # : I8413011  
DATE : 5-JUL-84  
P.C. # : NCNE  
STAR

| Sample description | Prep code | Pb ppm | Zn ppm | Ag ppm | AU-AA ppb |    |    |
|--------------------|-----------|--------|--------|--------|-----------|----|----|
| 69592              | 205       | 7      | 38     | 0.1    | <10       | -- | -- |



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TELEPHONE: (604) 984-0221  
TELEX: 043-52597

• ANALYTICAL CHEMISTS

• GEOCHEMISTS

• REGISTERED ASSAYERS

\*\*\* INVOICE \*\*\*

To : CHRISTOPHER, PETER & ASSOCIATES INC.

Invoice # : 18413011

3707 WEST 34TH AVE.,  
VANCOUVER, B.C.  
V6N 2K9

Date : 5-JUL-84  
P.C. # : NONE  
Project STAR

Invoice for analytical work reported on certificate(s) A8413011-001

| Quantity | code        | description | unit | price | amount |
|----------|-------------|-------------|------|-------|--------|
| 1        | 004 - Pb    |             | ppm  |       |        |
|          | 005 - Zn    |             | ppm  |       |        |
|          | 006 - Ag    |             | ppm  |       |        |
|          | 017 - AU-AA |             | ppb  | 8.80  | 8.80   |

Sample preparation and other charges :

|   |                           |  |  |      |      |
|---|---------------------------|--|--|------|------|
| 1 | 205 - Rock geochem - RING |  |  | 2.50 | 2.50 |
|---|---------------------------|--|--|------|------|

TOTAL \$ 11.30

Please pay this amount ----> \$ 11.30

ERMS -- NET 30 DAYS

.5 % per month (18 % per annum) charged on overdue accounts



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# Peter Christopher & Associates Inc.

GEOLOGICAL & EXPLORATION SERVICES

3707 West 34th Ave., Vancouver, B.C. V6N 2K9

Office/Res: 263-6152

Bus: 688-3363

Telex: 04-51313

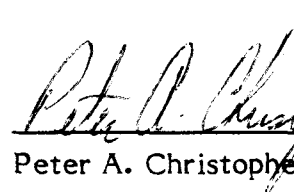
July 15, 1984

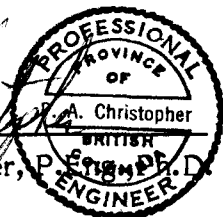
Dynamite Oil & Gas Inc.  
200 - 321 Water Street  
Vancouver, British Columbia  
V6B 1B8

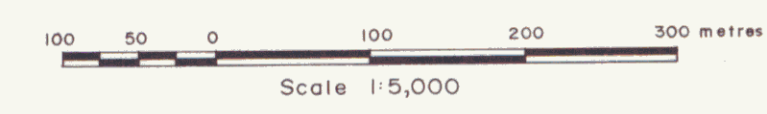
Dear Sirs,

I, Peter A. Christopher, Ph.D., P.Eng., hereby consent to the use of my report dated July 15, 1984 on the Star Property, Watson Lake Mining District, Yukon Territory, in any Filing Statement, Statement of Material Facts or Prospectus to be issued by Dynamite Oil & Gas Inc.

Dated at Vancouver, British Columbia, this 15th day of July, 1984.

  
Peter A. Christopher, P.Eng., Ph.D.





Dynamite Oil & Gas Inc.  
**Star Property**  
**SAMPLE NUMBERS**  
**091599**  
 DATE *July 14* PLATE 1

0289 }  
 0290 }  
 0291 } SAMPLED BUT  
 0292 } NOT ANALYZED  
 0293 }

STAR 31/32 FP

0  
 0  
 0  
 0381  
 0380  
 0379  
 0378  
 0377

STAR 31/32 IP  
 29/30 FP

0376  
 0375  
 0374  
 0373  
 0372  
 0371  
 0370  
 0369  
 0368

STAR 29/30 IP  
 27/28 FP

0367  
 0366  
 0365

CREEK

0364  
 0363  
 0362  
 0361  
 0360  
 0359  
 0358  
 0357

STAR 27/28 IP  
 25/26 FP

0356  
 0355  
 0354  
 0353  
 0352  
 0351  
 0350

STAR 25/26 IP  
 23/24 FP

0349  
 0348  
 0347  
 0346  
 0345  
 0344  
 0343  
 0342  
 0341

STAR 23/24 IP

0340

0294  
 0295  
 0296  
 0297  
 0298  
 0299  
 0300  
 0301  
 0302  
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 0332  
 0333  
 0334  
 0335  
 0336  
 0337  
 0338

CREEK

STAR 13/18 IP

STAR 7/8 IP  
 SPCB4620 026

SPCB4620 027

|     |     |     |    |    |    |     |
|-----|-----|-----|----|----|----|-----|
| 025 | 028 | 77  | 75 | 79 | 80 | 081 |
| 024 | 029 | 0   | 0  | 0  | 0  | 082 |
| 023 | 030 | 076 |    |    |    | 083 |
| 022 | 031 | 075 |    |    |    | 084 |
| 021 | 032 | 074 |    |    |    | 085 |
| 020 | 033 | 073 |    |    |    | 086 |
| 019 | 034 | 072 |    |    |    | 087 |
| 018 | 035 | 071 |    |    |    | 088 |
| 017 | 036 | 070 |    |    |    | 089 |

STAR 7/8 IP  
 9/10 IP

SPCB4620 037

|     |     |     |  |  |  |     |
|-----|-----|-----|--|--|--|-----|
| 016 | 038 | 069 |  |  |  | 090 |
| 015 | 039 | 068 |  |  |  | 091 |
| 014 | 040 | 067 |  |  |  | 092 |
| 013 | 041 | 066 |  |  |  | 093 |
| 012 | 042 | 065 |  |  |  | 094 |
| 011 | 043 | 064 |  |  |  | 095 |
| 010 | 044 | 063 |  |  |  | 096 |
| 009 | 045 | 062 |  |  |  | 097 |
| 008 | 046 | 061 |  |  |  | 098 |
| 007 | 047 | 060 |  |  |  | 099 |
| 006 | 048 | 059 |  |  |  | 100 |
| 005 | 049 | 058 |  |  |  | 101 |
| 004 | 050 | 057 |  |  |  | 102 |
| 003 | 051 | 056 |  |  |  | 103 |

STAR 9/10 IP  
 11/12 IP

SPCB4620 010

|     |     |     |  |  |  |     |
|-----|-----|-----|--|--|--|-----|
| 002 | 052 | 055 |  |  |  | 104 |
| 001 | 053 | 054 |  |  |  | 105 |

STAR 11/12 IP  
 SPCB4620 011

SPCB4620 051  
 SPCB4621 052  
 SPCB4622 053  
 S.P. POST

PPCB46210104

28W 27W 26W 25W 24W 23W 22W 21W 20W 19W 18W 17W 16W 15W 14W 13W 12W 11W 10W 9W 8W 7W 6W 5W 4W 3W 2W 1W

TOOTSEE L.C. 40.

TOOTSEE L.C. 41.



