5896

# GEOCHEMICAL, GEOPHYSICAL REPORT

on the

## SOUTH VEGA CREEK PROPERTY

BEG Claims 102, 103, 104

BEG claim 102 - 15 units
BEG claim 103 - 20 units
BEG claim 104 - 6 units

Owned and Operated by

BP MINERALS LIMITED

Thane Creek Area

Omineca Mining Division

NTS 94C/3

Located 3 kilometres west of Uslika Lake, B.C.

56°04' Lat 125°17' Long

By: D.K. Mustard, P.Eng

April 30, 1976

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## INTRODUCTION

The South Vega Creek property comprises three claims, BEG 102 (15 units), BEG 103 (20 units) and BEG 104 (6 units).

The claims were staked on March 27, 28 and 29, 1975.

During late April, early May, a contract low-level airborne magnetic survey was flown over the property area as part of a larger airborne survey.

During the 1975 field season line-cutting, ground magnetometer and geochemical sampling surveys were conducted over the BEG claims by BP Minerals Limited.

Claim credits of 15 years have been applied to BEG 102 for 1 year's credit on each unit and 20 years have been applied to BEG 103 for 1 year's credit on each unit. Mineral claims BEG 102 and BEG 103 have been "grouped" together. Claim credits of 6 years have been applied to BEG 104 for 1 year's credit on each unit.

Airborne and ground magnetic surveys and overburden geochemical sampling surveys were used to define possible zones of interest in an area that is severely masked by glacial deposits.

The South Vega Creek property claims adjoin the Central and North Vega Creek property claims which are owned and operated by BP Minerals Limited.

## LOCATION AND ACCESS (see Figures 1 and 2)

The BEG 102, 103,104 mineral claims are situated in the Omineca Mining Division, astride Thane Creek and 3 kilometres west of Uslika Lake, B.C.

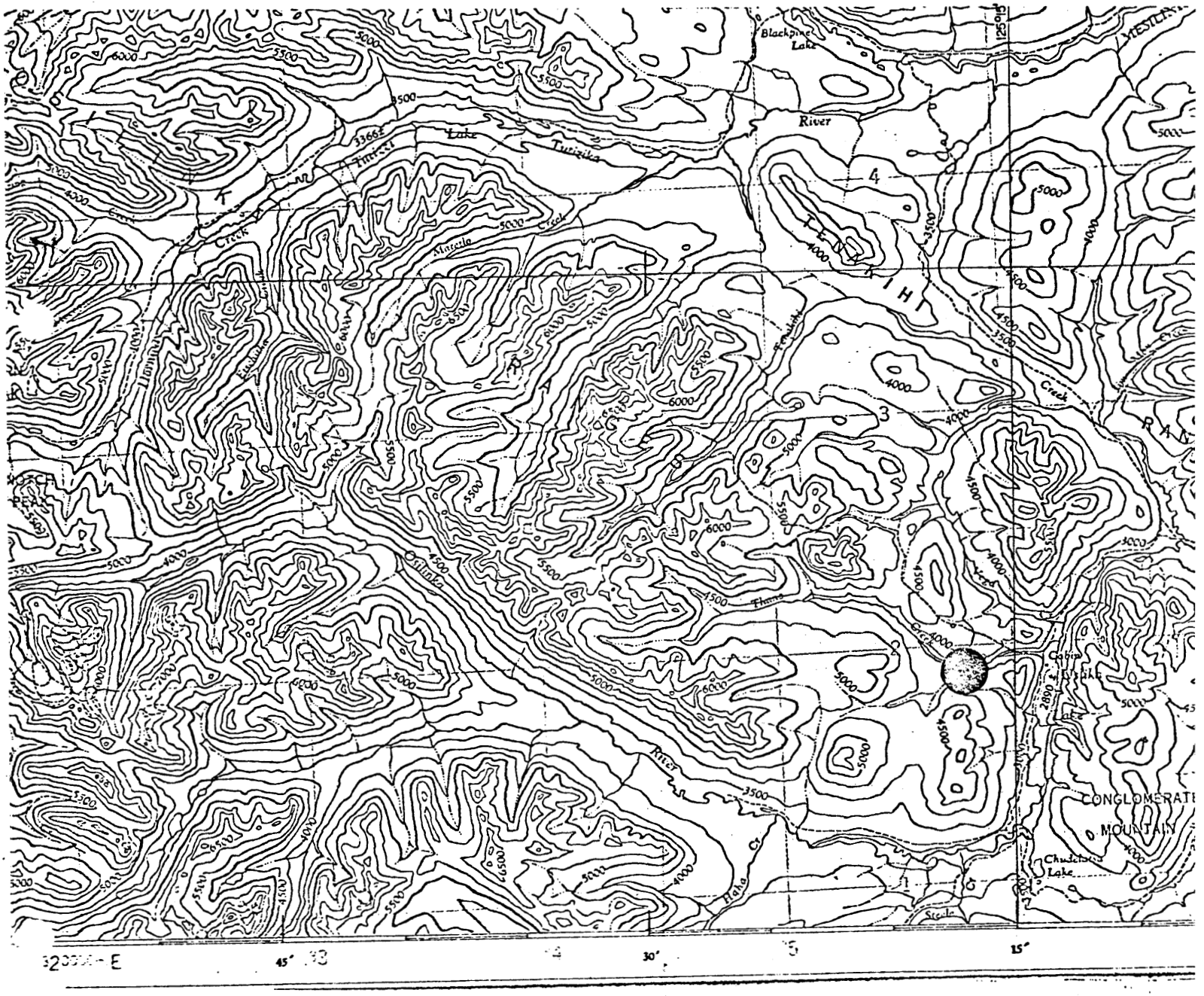
Figure 1

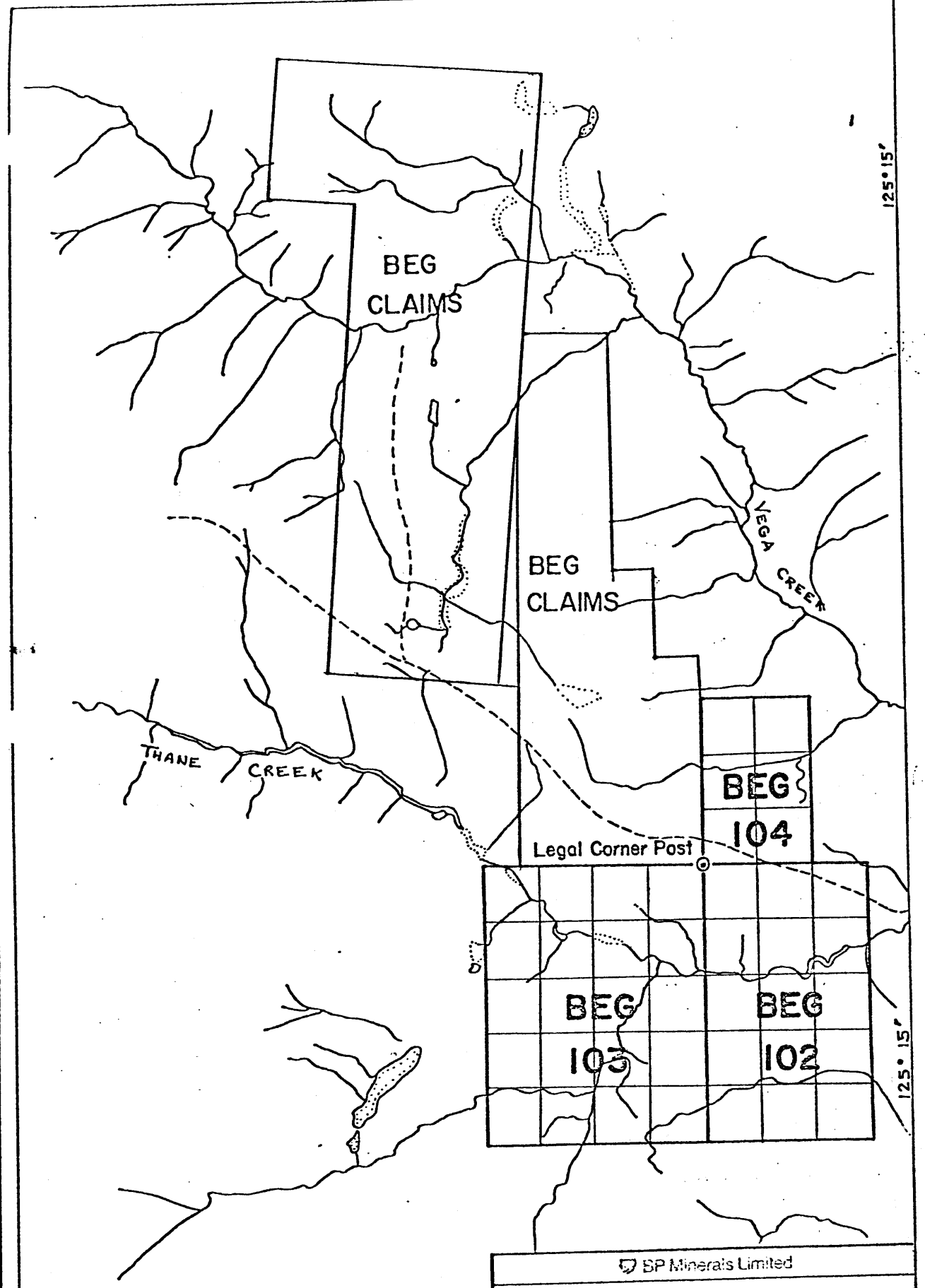
Location Map

SOUTH VEGA CREEK PROPERTY

BEG 102, 103, 104 Claims

Scale: 1" = 4 miles (1:253,440)






Scale - Miles

0 1 2

MINERAL CLAIM MAP
Section of 94·C3·W

BP Minerals Limited

BEG CLAIMS

| | | | |
|---|---|---|---|
| SCALE 1:50,000(?) | | NTS 94·C3 | FIG 2 |
| DRAWN | PLOTTED | DATE | |
| TO ACCOMPANY REPORT | | | |

Access to the claims area is by helicopter from Uslika Lake which is located on the Omineca highway from Fort St.James.

FIELD WORK

i) Airborne Magnetic Survey (Appendix 1)

During the period April 25 to May 5, 1975, a low-level helicopter-borne aeromagnetic survey was flown in the Osilinka River and Tutizzi Lake area of northern B.C. The survey was flown by Morrison and DePaoli, geophysical consultants, on behalf of BP Minerals Limited. The report in Appendix 1 outlines the instrumentation, field procedure and results obtained from one segment of the total survey related to the South Vega Creek property claims. Of the 1244.5 line-kilometres of geophysical coverage attained over the total survey area some 120.75 line-kilometres have been applied to the BEG 102, 103, 104 claims.

ii) Grid Preparation (see Figure 3)

During the period June 14 - June 17 14 line-kilometres of line-cutting was conducted over the BEG 102, 103, 104 mineral claims.

The base-line was surveyed with transit and chain and was continued into the South Vega Creek property from an established base-line on the adjoining North and Central Vega Creek properties. The east-west cross-lines, which were surveyed with compass and tape, were established at 800 feet intervals along the base-line. Station intervals along the cross-lines were

established every 400 feet. The line-cutting survey, consisting of a 4 man-crew, was contracted to D.K. Bragg of Vancouver - an exploration service contractor.

Additional ground control was also established by BP personnel using compass and biodegradeable "Topofil" thread.

iii) Orthophotography (see Figure 3)

An orthophotograph was prepared for the South Vega Creek property area by McElhanney Surveying and Engineering Limited. This was done by obtaining additional coverage to an earlier orthophotograph which covered the adjoining Central Vega Creek property and most of the North Vega Creek property.

The orthophotograph is an aerial photo. mosaic which has been corrected for horizontal scale distortions, with superimposed contour intervals(contour interval 50 feet) and a scale of one inch equals 1000 feet. The orthophoto. was used as an additional control for geochemical, geophysical and line-cutting surveys.

iv) Ground Magnetometer Surveys (see Figures 4 and 5)

A total of 3 man days were spent conducting a ground magnetic survey over the established grid system on the BEG 102, 103, 104 mineral claims. Readings were taken every 100 feet along the base-line and cross-lines. A rented Scintrex MF-2 fluxgate magnetometer was used for the survey.

v) Geochemical Surveys (see Figures 6 and 7)

A geochemist, two geologists and a sampler spent 10 man days sampling various overburden sample types from the BEG

102, 103, 104 claims. Samples were collected at each station interval on the established grid system.

A total of two man-days were spent, by a field technician, in preparing samples (drying and sieving) and making pH measurements using an Orion model 410 pH meter.

A total of 204 samples were collected and submitted for AAS analysis by Vangeochem Lab Ltd. of North Vancouver, B.C. The samples were analyzed for copper, lead, zinc and molybdenum.

## GEOCHEMISTRY

### Overburden sampling

Samples were collected over most of the property at 400-foot intervals along Topofil or cut grid lines spaced 800 feet apart. Soil samples were taken from the top of the 'B' horizon at 10 to 20 cm depths. Stream and seepage sediment was also collected when channelways were crossed by traverse lines. All sample sites were marked by plastic flagging tape. Approximately 0.5 kg of stream, seepage sediment or soil was collected at each station, avoiding large pebbles, and placed in a numbered wet strength, 8 by 24 cm Kraft paper envelope.

Samples were returned to base camp and dried in a field oven, sorted according to sampler and sample number, disaggregated by pounding with a rubber mallet, and sieved at 10 to 80 mesh. The +10 mesh fraction was used to prepare pebble cards according to a procedure reported by Hoffman (1974) in the "Journal of Geochemical Exploration". The -80 mesh fraction was submitted to Vangeochem Lab Ltd. for chemical analysis of trace metals.

### Trace metal determination

The following report by Vangeochem Lab Ltd. outlines the procedure used to determine acid soluble Mo, Cu, Pb and Zn in geochemical samples.

VANGEOCHEM LAB LTD. 1521 PEMBERTON AVE., NORTH VANCOUVER, B.C., CANADA

TO: B. P. Minerals Ltd.,
# 405 - 1199 West Pender Street,
Vancouver, B. C.

FROM: Mr. Conway Chun,
Vangeochem Lab Ltd.,
1521 Pemberton Avenue,
North Vancouver, B. C.

SUBJECT: Analytical procedure used to determine acid soluble Mo, Pb, Zn, Cu, Ag in geochemical samples.

1. Sample Preparation

(a) Soil and silt samples analyzed as received.

(b) Rock chip samples first crushed and then pulverized to 100 mesh by using Siebtechnik Disc mill.

2. Methods of Digestion

(a) 0.50 gram of the minus 80-mesh samples was used. Samples were weighed out by using a top-loading balance.

(b) Samples were heated in a sand bath with nitric and perchloric acids (15% to 85% by volume of the concentrated acids respectively).

(c) The digested samples were diluted with demineralized water to a fixed volume and shaken.

3. Method of Analysis

Mo, Pb, Zn, Cu and Ag analyses were determined by using a Techtron Atomic Absorption Spectrophotometer Model AA4 or Model AA5 with their respective hollow cathode lamp. The digested samples were aspirated directly into an air and acetylene

Continued.....

flame. Mo analyses were aspirated into nitrous oxide and acetylene flame. The results, in parts per million, were calculated by comparing a set of standards to calibrate the atomic absorption unit.

4. The analyses were supervised or determined by Mr. Conway Chun, and the laboratory staff.

Conway Chun
VANGEOCHEM LAB LTD.

CC:smb

pH determination

pH was determined on the -10 +80 mesh sample splits by a procedure modified from that in current use at the Soil Science Department of the University of British Columbia. Approximately 16 gm of sample was placed in a 100 ml dixie cup to which 20 ml of deionized water was added. The suspension was stirred at 0, 15 and 30 minutes and allowed to stand 30 minutes prior to pH determination. pH measurements were made using a combination glass electrode and a calibrated Orion Model 401 pH meter. Calibration standards were included every 100 determinations to check on instrument drift. About two percent of the determinations were duplicated to check the precision of the technique.

Geochemical interpretation

i) Introduction

Trace metal levels in stream and seepage sediments, soils and talus samples were assumed to conform to a log normal distribution. Data were transformed to logarithmic values and the mean content, range (mean minus one standard deviation to mean plus one standard deviation, (M-1SD) to (M+1SD)) and threshold (mean plus two standard deviations, (M+2SD)) values were calculated (Table 1). Maps were plotted utilizing a symbol notation. Each symbol represents a range of trace metal concentrations and was chosen to indicate a statistical interval

TABLE 1 SUMMARY OF TRACE METAL IN DIFFERENT OVERBURDEN TYPES

| Overburden Type | | Mo-ppm | Cu-ppm | Pb-ppm | Zn-ppn | Ag-ppm | pH |
|---|---|---|---|---|---|---|---|
| Stream Sediments (10) | Threshold | 5.4 | 148 | | 134 | 2.3 | |
| | Mean | 2.7 | 68 | | 91 | 1.3 | |
| | Range | 1.9-3.8 | 46-100 | | 75-110 | 0.9-1.7 | |
| | No.of samples | 16 | 18 | | 18 | 18 | |
| Spring Sediments (20) | Threshold | 3.7 | 176 | | 151 | 1.7 | |
| | Mean | 2.4 | 77 | | 75 | 1.2 | |
| | Range | 1.9-2.9 | 51-116 | | 53-106 | 1.1-1.4 | |
| | No.of samples | 5 | 5 | | 5 | 5 | |
| Bogs (40) | Threshold | 6.2 | 209 | 25 | 198 | 1.1 | |
| | Mean | 3.1 | 59 | 14 | 28 | | |
| | Range | 2.2-4.4 | 31-110 | 10-19 | 10-74 | 1 | |
| | No.of samples | 12 | 12 | 11 | 12 | | |
| Soils (50) | Threshold | 7.4 | 135 | 34 | 182 | 2.2 | 6.1 |
| | Mean | 2.6 | 55 | 23 | 98 | 1.4 | 4.9 |
| | Range | 1.5-4.4 | 36-87 | 19-28 | 72-133 | 1.1-1.7 | 4.3-5.5 |
| | No.of samples | 889 | 902 | 261 | 902 | 643 | 1003 |
| Talus fines (60+61+62) | Threshold | 18 | 1070 | 35 | 261 | 2.2 | 6.3 |
| | Mean | 3.7 | 136 | 28 | 90 | 1.3 | 5.3 |
| | Range | 1.7-8.2 | 48-382 | 25-31 | 53-153 | 1.0-1.7 | 4.8-5.8 |
| | No.of samples | 35 | 35 | 10 | 35 | 24 | 35 |

Mean - determined after logarithmic transformation

Range - (mean - 1 standard deviation) to (mean + 1 standard deviation)
- represents 67% of sample data

Threshold - (mean + 2 standard deviations)
represents 2.5% of sample data

around the mean value. In order of size from smallest to largest they represent:

< mean (M) - 2 standard deviations (SD)
(M-2SD) to (M-1SD)
(M-1SD) to (M)
(M) to (M+1SD)
(M+1SD) to (M+2SD)
(M+2SD) to 2(M+2SD)
>2(M+2SD)

Actual concentration values for stream and seepage sediments, bogs, soils and talus fines are listed in Appendix 4, which also shows sample identification (ID) and grid coordinates.

ii) Results

The stream sediment and soil geochemical surveys over the southern BEG claims give similar results and only the soil survey is described. Mean and standard deviation intervals were calculated in 1974 for the property as a whole, and these are used to extend the 1974 survey southward.

Cu, Zn and Mo values fluctuate apparently randomly at levels near property averages. Slight Cu and Zn enrichment between L200N and L232N and 160E to 224E lies in an area of extensive glacial overburden. Soils containing anomalous metal concentrations are organic soils, gleysols or luvisols. Consequently, Cu and Zn accumulation probably reflects organic matter scavenging in boggy or water-saturated environments.

A second Cu anomaly at 144E/152N in the southwest consists of 2 soil and 1 stream sediment samples. Overburden

in the region appears to exceed 50 feet (estimated from overburden thickness along the canyon of Thane Creek), and contains numerous rounded granodiorite boulders. The Cu anomaly, with values up to 270 ppm (90-0395) cannot be explained by presence of bogs or other environmental factors. Consequently, source of the Cu enrichment remains unknown.

iii) Anomaly genesis

Genesis of Zn and/or Cu anomalies on the south BEG claims is obscure because of the poor exposure of bedrock. The Cu anomaly in the southwest is the more important of the two, but is probably reflecting mineralized boulders in the overburden.

# 1975 GEOPHYSICAL REPORT
# ON A LOW-LEVEL AEROMAGNETIC
# SURVEY OVER THE SOUTH VEGA CREEK PROPERTY
# NORTHERN BRITISH COLUMBIA

Date: July 4, 1975

Author: Garry M. DePaoli
Geophysicist, B.Sc.

# 1975 GEOPHYSICAL REPORT
# ON A LOW-LEVEL AEROMAGNETIC
# SURVEY OVER THE SOUTH VEGA CREEK PROPERTY

located in

NORTHERN BRITISH COLUMBIA

in the

OMINECA MINING DIVISION

approximately

29 miles North of Germansen Landing, B.C.

at coordinates

56°04' N lat.; 125°17' W long. NTS 94C/3

work for

BP MINERALS LIMITED

work by

MORRISON & DEPAOLI GEPHYISICAL CONSULTANTS

work period

April 29, 1975

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## ILLUSTRATIONS

## INTRODUCTION

During the period April 25 to May 5, 1975 a low-level helicopter borne aeromagnetic survey was flown in the Oslinka River and Tutizzi Lake area in Northern British Columbia. The survey was flown by Morrison & DePaoli Geophysical Consultants on behalf of BP Minerals Limited. The purpose of the survey was to reveal the magnetic character of a favourable geological environment suited to mineral exploration.

The following report outlines the instrumentation, field procedure and results obtained from one segment of the total survey related to the South Vega Creek Property. Within the total survey approximately 773 line miles of geophysical coverage was attained in two survey blocks.

### Location and Access

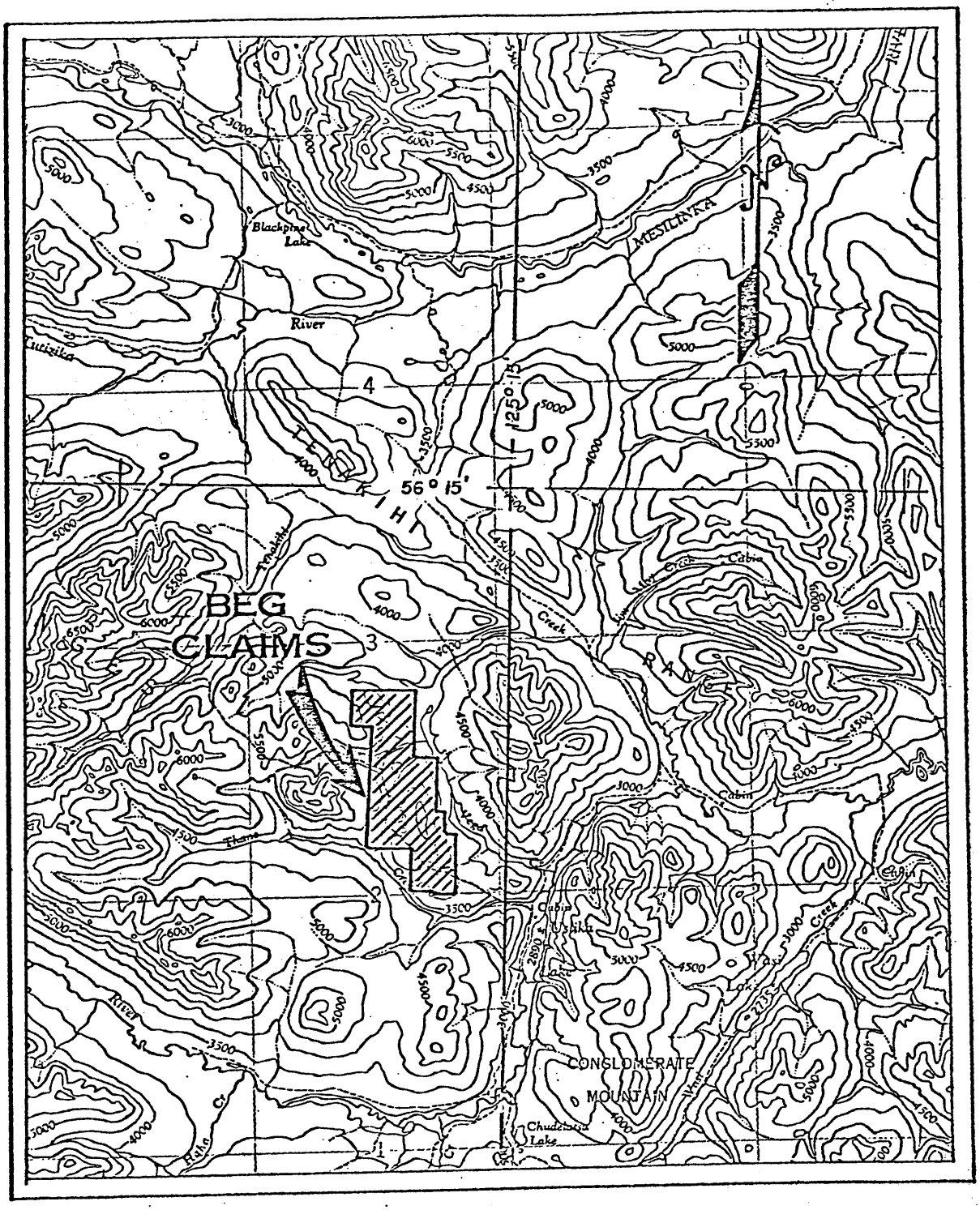
The South Vega Creek Property is located in northern B.C. approximately 29 air miles north of Germansen Landing or 2 miles west of the northern end of Uslika Lake. It lies within the Omineca Mining Division at 56°04' N lat.; 125° 17' W long. (NTS 94C/3).

Road access to within 2 miles of the property is provided by the Germansen Landing-Aiken Lake road. Final access is by helicopter.

## GENERAL GEOLOGY

Regional geologic mapping of the survey area is hampered by overburden cover. Most of the area is thought to be underlain by Takla volcanic rocks of Triassic Age in sequence with Lower Jurassic sediments. The Hogem Batholith occurs along the western margins of the survey and several Cretaceous intrusions have been mapped within the survey area.

Several mineral prospects containing copper, gold and silver are known near the southern portion of the survey. The most important of these is the Vega prospect near Uslika Lake.




# LOCATION MAP FIGURE 1
# SOUTH VEGA CREEK

SCALE: 1:250,000
DATE: JULY 1975

NTS 94 C 3
GMD

## AEROMAGNETIC SURVEY

### Method

A Scintrex Map-2 total intensity nuclear resonance magnetometer was utilized on the survey. This unit was installed, together with a Bonzer radio altimeter, a Vinton 16mm positioning camera and a Scintrex 1A-2 intervalometer, in a Jet Ranger (206) helicopter on charter from Northern Vancouver Island Helicopters. The installation of equipment took place at Smithers while Germansen Landing was used as a local base for execution of the survey.

The survey traverses were flown at a line spacing of ¼ mile. The flight direction was eastwest for the Oslinka River sheet. Flight navigation and flight path recovery were based on photomosaics on a scale of 1"=1320'. The magnetometer sensor was flown 75 feet below the helicopter and mean terrain clearance for the aircraft was 350 feet. Magnetic and radio altimeter data was recorded on a multichannel analogue recorder.

The total magnetic field within the survey area is approximately 58,000 gammas and the inclination of the field is 76° N.

### Instrumentation

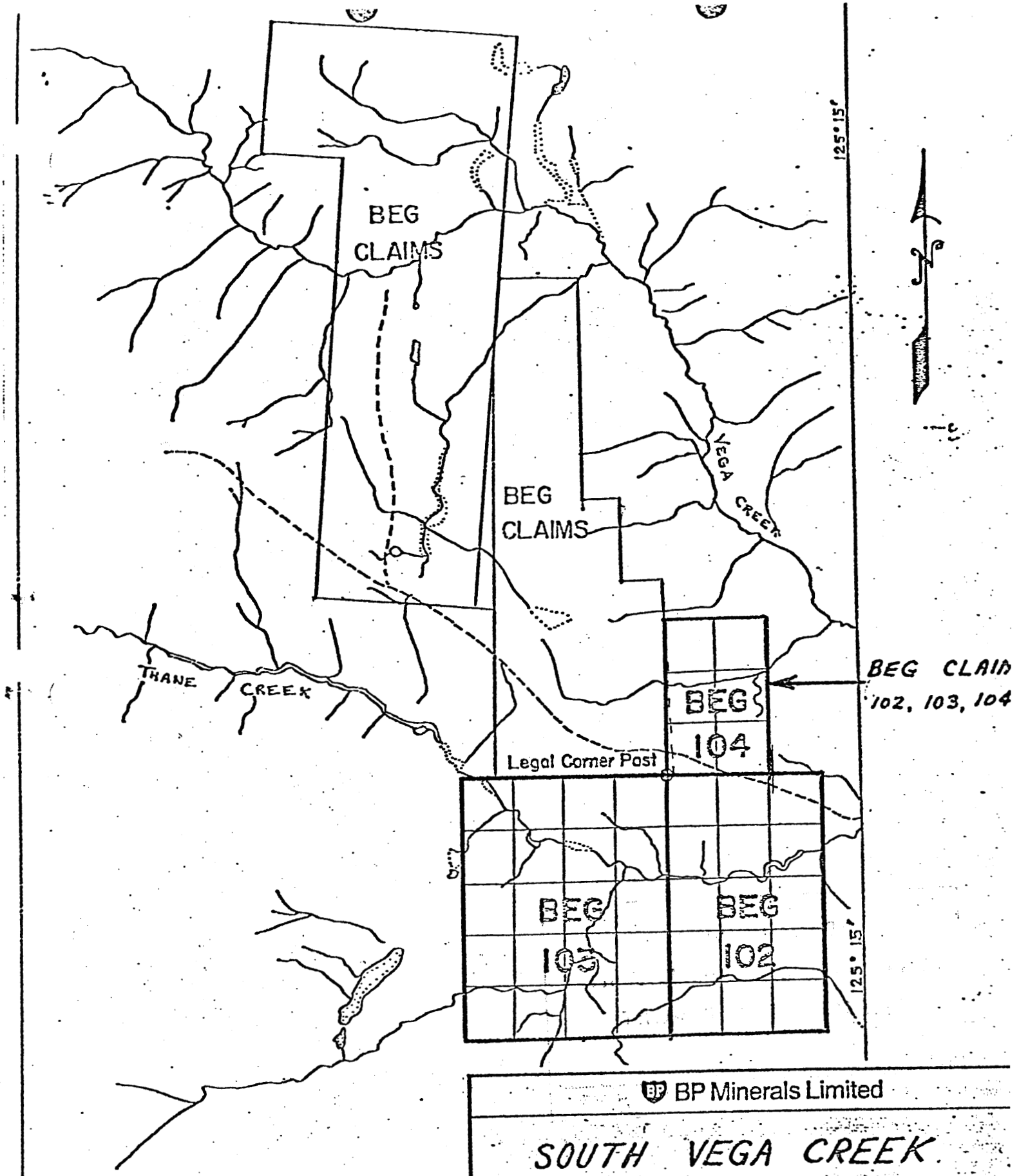
#### Magnetometer Map-2

The Map-2 is a lightweight, one gamma airborne proton precession magnetometer with a range of 20,000 to 100,000 gammas and an automatic five digit visual display.

The Map-2 tracks automatically over its full 80,000 gamma range. This advantage is particularly significant in surveys flown at low terrain clearances in areas of high magnetic relief, conditions which are common in mineral prospecting.

The instrument is of compact modular design and has both digital and analogue outputs. The analogue outputs are either 100 or 1000 gammas full scale, with automatic stepping.

The measuring sequence can either be sequentially triggered internally through its own programmer or initiated by a suitable command pulse.




BP Minerals Limited

# SOUTH VEGA CREEK
# CLAIM MAP

1a - Miles

0 1 2

MINERAL CLAIM MAP
Section of 94-C3-W

| | | | |
|---|---|---|---|
| SCALE 1 : 50,000 | | NTS 94 C/3 | FIG. |
| DRAWN G.M.D. | DATE JULY /75 | PROJ. | |

1975 GEOPHYSICAL REPORT ON LOW

In addition while on internal triggering, the instrument provides an external output command pulse enabling other instrumentation to be synchronized with the magnetometer.

Altimeter

A Bonzer, high frequency solid state radio altimeter was employed to continuously indicate the mean terrain clearance of the helicopter. The altimeter is installed in the aircraft so that the elevation of the sensing bird will be less by the usual vertical displacement of the bird below the aircraft.

The output of the Bonzer was expressed in analogue form on a suitable graphic recorder.

Positioning Camera

A Vinton mark III 16mm positioning camera was employed with a wide angle lens. Photographs of the ground were taken with sufficient frequency to five a complete record of the flight path of the helicopter. The frequency of exposure is controlled by the intervalometer referred to below.

Intervalometer

A Scintrex IA-2 intervalometer provided regularly spaced timing pulses which drive the positioning camera exposure mechanism and produces synchronous fiducial marks on the side pen of the geophysical graphic recorder. Because of the synchronization of the geophysical traces and the positioning camera it is then possible to relate the geophysical events of interest to their proper ground location. The timing pulse frequency may be adjusted in accordance with the ground speed of the aircraft so that an adequate flight path record is obtained.

Ground Base Station

During flight periods a ground magnetometer base station was set up at Germansen Landing to monitor the diurnal variation of the Earth's Field. The instrument employed was a Scintrex MF-2 flungate magnetometer and readings were recorded on a EPR-2T Poly-recorder manufactured by TOA Electronics.

All survey flying was completed between April 29 and May 2, 1975. During flight periods diurnal variations of less than 5 gammas were observed.

## DATA PRESENTATION

The results of a portion of the survey are presented in contour form in Figure 3 on a scale of 1"=1320'. Flight lines, fiducial points and pertinent topographic features are shown. The contour interval is 20 gammas where magnetic intensities will allow.

An interpretation of the magnetic features is presented in Figure 4. Magnetic boundaries, possible faults and labelled anomalies are displayed.

## RESULTS AND INTERPRETATION

The predominant magnetic trend is northwest. Northeast faulting provides a structural intersection to this trend and is associated with several mineral showings.

Within this segment of the survey two magnetic anomalies were labelled as favourable sites for more detailed mineral exploration.

Anomaly labelled #2 is a discreet low to intermediate susceptibility anomaly with no direct topographic correlation. It lies within a northwest trend of magnetic features which encompass the Vega Property to the north.

Anomaly labelled #3 displays an intermediate susceptibility with no topographic correlation. Its linear appearance suggests that it may be associated with northwest faulting.

## CONCLUSIONS AND RECOMMENDATIONS

Both of the interpreted magnetic anomalies are considered second priority exploration targets. Anomaly #2 is of slightly higher interest because of its southern strike alignment with the Vega Property. The shape and susceptibility of anomaly #3 is often characteristic of magnetic basaltic flows.

These anomalies should be screened and also priority rated from a geological viewpoint. Those anomalies still of interest should be thoroughly prospected and more accurately defined with ground magnetic profiles. More information can be obtained over portions of the anomalies which are drift covered through geochemical soil sampling profiles and reconnaissance induced polarization traverses.

Respectfully submitted,

Garry DePaoli

Garry M. DePaoli
Geophysicist, B.Sc.

Vancouver, B.C.
July 4, 1975

## ASSESSMENT DETAILS

### Work Summary

75 miles of aeromagnetic surveying conducted on April 29, 1975.

### Personnel

G.M. DePaoli — Geophysicist, B.Sc.
5305 East Georgia Street, Burnaby, B.C. V5B 1V3

I. Fuentes — Operator-Engineer
Scintrex Surveys Limited,
222 Snidercroft Road, Concord, Ontario.

J. King — Pilot
Vancouver Island Helicopters Ltd.
Victoria, B.C.

### Cost Statement

Cost per line mile as deduced on a prorated basis from attached Morrison & DePaoli and Vancouver Island Helicopters Ltd. billings.

... - Deduced cost per mile $23.35

| | | |
|---|---|---|
| Applied survey costs 75 ($23.35) | = | $1,751.25 |
| Report preparation and drafting | = | 200.00 |
| Total cost to be applied for assessment | | $1,951.25 |

CERTIFICATION

I, Garry M. DePaoli, of the City of Burnaby, in the Province of British Columbia, HEREBY CERTIFY AS FOLLOWS:

1. That I am a graduate of the University of British Columbia, Vancouver, B.C., with a Bachelor of Science Degree in Combined Honours Geophysics and Geology (1969).

2. That I have practiced my profession as a Geophysicist continuously for the past 6 years in Northern Ontario, Quebec, Manitoba, Western USA, Alaska, Yukon Territories and British Columbia.

3. That I am a member in good standing of the Society of Exploration Geophysicists, the Geological Association of Canada, the Canadian Institute of Mining and Metallurgy, and the B.C. Society of Exploration Geophysicists.

4. That I have no interest directly in the South Vega Creek Property nor do I expect to receive any.

5. That the information contained herein was compiled under my direction and supervision during the period April 25 to May 5, 1975.

Garry M. DePaoli
Geophysicist, B.Sc.

Vancouver, B.C.
July , 1975

# APPENDIX 1

## Airborne Magnetic Survey

# APPENDIX 2

## Statement of Costs

APPENDIX 2

Statement of Costs

Group 4 - BEG 102, BEG 103

BEG 102 - 15 units (record #6)

BEG 103 - 20 units (record #7)

1. Grid Preparation

Contractor: D.K. Bragg - 4 man-crew - 10 man-days
June 14,15,16 12.48 line-kilometres @ $215.49 line-mile

$1680.81

2. Geochemical Survey

| | |
|---|---|
| Geochemist - S. Hoffman/June 26,27,28, July 1<br>4 man days @ $91/day | $ 364.00 |
| Geologist - R. Wong/June 28/July 1<br>2 man days @ $60/day | 120.00 |
| Geologist - M. Bradley/July 1<br>1 man day @ $68/day | 68.00 |
| Sampler - B. McBride/June 27<br>1 man day @ $45/day | 45.00 |
| Technician - M. Wilson/June 30, July 2<br>2 man days @ $41/day | 82.00 |
| Consultant - Prof. K. Fletcher(UBC)/June 26<br>1 consulting day @ $150/day | 150.00 |
| | $829.00 |

3. Ground Magnetometer Survey

Geologist - D. Baker/June 18,19
2 man days @ $60/day $120.00

4. Aeromagnetic Survey (see Appendix 1)

Total line-kilometres claimed for total claim group
of 41 units = 120.75
BEG 102(15 units) and BEG 103(20 units) total 35 units
(BEG 104 totals 6 units)
therefore 6/7th claimed for BEG 102 and BEG 103
= 103.5 line-kilometres
Cost per 1.61 line-kilometres = $26.02 $1672.78

5. Orthophotography total cost $1180.00 (McElhanney Surveying & Engineering Ltd.)
75% of extension coverage for South Vega Creek property $885.00

(25% of extension coverage for North Vega Creek property)

6. Food and Accommodation

23 man days @ $15/man day $345.00

7. Sample Analysis (Vangeochem Lab Ltd.)

Total number of samples collected within BEG 102, BEG 103 = 162
162 samples @ $2.42/sample $392.04

8. Helicopter Support (Bell 206B)
Contractor: Vancouver Island Helicopters

(i) line-cutting crew (14-16 June)
3 days (6 trips @ .3/hrs/trip)
1.8 hrs @ $250/hr 450.00

(ii) geochemical crew (26-28 June, July 1)
4 days (8 trips @ .hrs/trip)
2.4 hrs @ $250/hr 600.00

(iii) ground magnetometer crew (18-19 June)
2 days (4 trips @ .3 hrs/trip)
1.2 hrs @ $250/hr 300.00

(iv) operating costs 5.4 hours @ $18/hr 97.20

($1447.20)

50% claimed towards assessment 723.60

9. Report Preparation

| | | |
|---|---|---|
| (i) | Keypunching & computing 162 samples @ $0.50 | $ 81.00 |
| (ii) | Drafting and printing | 85.70 |
| (iii) | Report compilation-S.Hoffman 2 days @ $91 | 182.00 |
| | -C. Bates 1 day @$103 | 103.00 |
| | | $451.70 |

10. Miscellaneous

(i) Magnetometer rental @ $8.60/day
2 days (Scintrex MF-2) $17.20
(ii) Topofil rental @ $4.00/day x 3 days 12.00

$29.20

TOTAL 1-10 $7,129.22

APPORTIONMENT

Group 4 - BEG 102, 103 Total $7,129.22

(1) Credit BEG 102 (of 15 units) for 15 years (1 year/unit) $3,000
(2) Credit BEG 103 (of 20 units) for 20 years (1 year/unit) $4,000

APPENDIX 2 (cont)

Statement of Costs

BEG 104 (6 units)

1. Grid Preparation

| | |
|---|---|
| Contractor - D.K. Bragg - 2 man-crew - 2 man days | |
| June 17 1.6 line-kilometres @ $215.49/line-mile | $215.49 |

2. Geochemical Survey

| | |
|---|---|
| Geologist - M. Bradley/ June 27 @ $68/day | $ 68.00 |
| Geologist - R. Wong / June 27 @ $60/day | 60.00 |
| | $128.00 |

3. Ground Magnetometer Survey

| | |
|---|---|
| Geologist - D. Baker / June 30 @ $60/day | $60.00 |

4. Aeromagnetic Survey (see Appendix 1)

| | |
|---|---|
| Total line-kilometres claimed for total claim group of 41 units = 120.75 | |
| BEG 104 (6 units) | |
| (BEG 102(15), BEG 103(20), totals 35 units) | |
| therefore 1/7th claimed for BEG 104 = 17.25 line-kilometres | |
| Cost per 1.61 line-kilometres = $26.02 | $278.38 |

5. Food and Accommodation

| | |
|---|---|
| 5 man days @ $15/day | $75.00 |

6. Sample Analysis (Vangeochem Lab Ltd.)

| | |
|---|---|
| Total number of samples collected within BEG 104 = 42 | |
| 42 samples @ $2.42/sample | $101.64 |

7. Helicopter Support (Bell 206B)
Contractor: Vancouver Island Helicopters

| | |
|---|---|
| (i) 3 days (6 trips @ .3 hrs/trip) 1.8 hrs @ $250/hr | $450.00 |
| (ii) operating costs 1.8 hrs @ $18/hr | 32.40 |
| | ($482.40) |
| 50% claimed towards assessment | $241.20 |

8. Report Preparation

| | | |
|---|---|---|
| (i) | Keypunching and computing/42 samples @ $0.50 | $ 21.00 |
| (ii) | Drafting and printing | 14.30 |
| (iii) | Report compilation - S. Hoffman/1 day @ $91/day | 91.00 |
| | | $126.30 |

9. Miscellaneous

| | | |
|---|---|---|
| (i) | Magnetometer rental 1 day @ $8.60/day (Scintrex MF-2) | $ 8.60 |
| (ii) | Topofil rental 1 day @ $4.00/day | 4.00 |
| | | $12.00 |

TOTAL 1-9 $1,223.61

APPORTIONMENT

Credit BEG 104 (6 units) for 6 years (1 year/unit) $1,200

D.K. Bragg

3567 West 27th Ave.,

Vancouver, B.C. V6S IP9

Phone 733 7260

July 7, I975.

IN ACCOUNT WITH:

B P Minerals Limited,

405, II99 West Pender Street,

Vancouver, B.C. V6E 2RI .

---

South Vega Project

To cutting out six drill sites with helipads and flight approach lanes.

| | |
|---|---|
| To leveling slash and cleaning slash out of creek | $ 3550.00 |
| To orienting to existing base lines, picking up transit hubs and recutting 700 feet of base line. To cutting and chaining 6800 feet of base line and cutting helipads along base line | $ I200.00 |
| To flagging, blazing and chaining 33,400 feet (6.33miles) of grid lines and to chaining 6000 feet of tie line | $ 696.30 |
| Total | $ 5446.30 |
| Less advance June 5th I975 | $ I000.00 |
| Balance | $ 4446.30 |

APPROVED FOR PAYMENT
CHARGE 80017
DATE JUL 8 1975 INITS

INVOICE

# McELHANNEY SURVEYING & ENGINEERING LTD.

Please remit to:

In account with:

B.P. Minerals Ltd.
#405 - 1195 West Pender Street
Vancouver, B.C.

Attention: Mr. C. Bates

Invoice No. 75-071

Date 30 May 1975

Your Order No.

Our Job No. 06041-4

FOR PROFESSIONAL SERVICES IN RESPECT TO:

| | |
|---|---|
| Orthophoto mapping extension in the vicinity of Vega Creek in accordance with our letter of 17 March 1975 | $1,180.00 75% to Acct to Beg 102, 103 |

B P Minerals Limited
RECEIVED
JUN 5 1975
Vancouver, B. C.

APPROVED FOR PAYMENT
CHARGE 80017
DATE JUN 10 1975 NTLS

RAB/b-at

Terms: Net 30 days. Interest at 1½% per month will be charged on overdue accounts.

# APPENDIX 3

## Tabulation of Overburden Geochemical Results

SAMPLE

| Type | I.D. | East | North | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 50505D | 860007 | XX | 2620 | 40240 | 94C03 | 251119 | 56230 | 35PBF | | | 101 | 6 N | 5075505 | 860007 | 3 | 74 | 20 | 117 |
| 2 | 1075505D | 860004 | XX | 2860 | 41100 | 94C03 | 1 | 355 | 644 | | | | 5NE | 1075505 | 860004 | 4 | 82 | 45 | 97 |
| 3 | 1075505D | 860015 | XX | 9700 | 41100 | 94C03 | 1 | 356 | 644 | 2 | 225 | 1 | 10 E | 1075505 | 860015 | 2 | 76 | 19 | 98 |
| 4 | 1075505D | 870067 | XX | 20810 | 16680 | 94C03 | 0050053 | | 2721 | | 123 | 1 | 15NE | 1075505 | 870067 | 1 | 40 | 11 | 57 |
| 5 | 1075505D | 890013 | XX | 15200 | 43000 | 94C03 | 005 | 84 | 1441 | | 2 | 3 | 3NW38 | 505075505 | 890013 | 2 | 45 | 14 | 61 |
| 6 | 1075505D | 890016 | XX | 14600 | 42150 | 94C03 | 0010434 | | 263 | | | 3 | 05SW37 | 705075505 | 890016 | 1 | 56 | 14 | 70 |
| 7 | 1075505D | 890226 | XX | 23660 | 18820 | 94C03 | 1 | 90407364 | | | 122 | 2 | 10E | 5075505 | 890226 | 1 | 35 | | 68 |
| 8 | 1075505D | 900343 | XX | 7500 | 41600 | 94C03 | 0.5 | 3565624 | | | 225 | 2 | 5E | 5075505 | 900343 | 6 | 125 | | 95 |
| 9 | 1075505D | 900346 | XX | 7000 | 42020 | 94C03 | 0.3 | 1462444 | | | | 1 | 3SE | 2075505 | 900346 | 2 | 105 | | 72 |
| 10 | 1075505D | 900348 | XX | 8200 | 43200 | 94C03 | 1.5 | 6565444 | | | | 3 | 5SE | 1075505 | 900348 | 3 | 63 | | 90 |
| 11 | 1075505D | 900372 | XX | 9150 | 42400 | 94C03 | 1.0 | 5565644 | | | | 3 | 5S | 1075505 | 900372 | 3 | 85 | 18 | 71 |
| 12 | 1075505D | 900392 | XX | 14400 | 15050 | 94C03 | 0.3 | 24702401 | | | | 10YR21 | 1 | 1E | 5075505 | 900392 | 2 | 84 | 12 | 35 |
| 13 | 1075505D | 900397 | XX | 13200 | 15200 | 94C03 | 0.6 | 34652401 | | | | 10YR21 | 1 | 2N | 1075505 | 900397 | 2 | 150 | 20 | 95 |
| 14 | 1075505D | 900403 | XX | 14380 | 16000 | 94C03 | 0.5 | 45702441 | | | | BLACK | 2 | 3N | 1075505 | 900403 | 2 | 105 | 11 | 34 |
| 15 | 1075505D | 900406 | XX | 14400 | 16500 | 94C03 | 0.3 | 24652431 | | | | | 1 | 2NE | 1075505 | 900406 | 2 | 75 | 11 | 33 |
| 16 | 1075505D | 900408 | XX | 14750 | 16800 | 94C03 | 0.5 | 45701441 | | | | | 3 | 5NE | 1075505 | 900408 | 2 | 94 | 10 | 33 |
| 17 | 1075505D | 900413 | XX | 13450 | 16800 | 94C03 | 0.3 | 3568043 | | 2 | 225 | | 2 | 25N | 1075505 | 900413 | 1 | 102 | 17 | 84 |
| 18 | 1075505D | 950070 | 10 | 19550 | 20060 | 94C03 | .3 | 53651 | | | | | 1 | 10N | 1075505 | 950070 | 1 | 35 | | 76 |
| 19 | 1075505D | 950071 | 10 | 17240 | 20300 | 94C03 | .2 | 33702 | | | | | 1 | 35 W | 1075505 | 950071 | 0 | 83 | | 70 |
| 20 | 1075505D | 950073 | 10 | 16700 | 20800 | 94C03 | .5 | 54751 | | | | | 2 | 40 W | 1075505 | 950073 | 1 | 78 | | 55 |
| 21 | 1075505D | 950075 | 10 | 22400 | 20540 | 94C03 | .7 | 5470643 | | | 235 | | 2 | 35N | 1075505 | 950075 | 1 | 68 | | 88 |
| 22 | 1075505D | 950077 | 10 | 19690 | 20800 | 94C03 | .5 | 337046 | | 2 | 226 | | 1 | 30N | 1075505 | 950077 | 1 | 100 | | 78 |
| 23 | 1075505D | 950115 | 10 | 7500 | 44000 | 94C03 | .7 | 83 | 644 | | | | 1 | 10S | 1075505 | 950115 | 2 | 43 | | 83 |
| 24 | 2075505D | 900344 | XX | 7000 | 41800 | 94C03 | 0.9 | 1465474 | | | | | 1 | 3E | 1075505 | 900344 | 3 | 178 | | 65 |
| 25 | 2075505D | 900347 | XX | 8050 | 43200 | 94C03 | 0.2 | 1365842 | | | | R | 1 | 5SE | 2075505 | 900347 | 2 | 85 | | 102 |
| 26 | 2075505D | 900374 | XX | 9000 | 42400 | 94C03 | 0.5 | 25656421 | | | | L | 1 | 8SE | 2075505 | 900374 | 3 | 116 | 15 | 54 |
| 27 | 5075505D | 860002 | XX | 3260 | 41400 | 94C03 | 851116 | 53225 | 30PBF | | | | 15 | 8SE | 5075505 | 860002 | 3 | 49 | 20 | 188 |
| 28 | 5075505D | 860003 | XX | 3080 | 41250 | 94C03 | 851119 | 57235 | 40PBF | | | | 50 | 8SE | 5075505 | 860003 | 3 | 81 | 20 | 106 |
| 29 | 5075505D | 860005 | XX | 2770 | 40740 | 94C03 | 51119 | 54620 | 25PBF | | | | 40 | 10 N | 5075505 | 860005 | 4 | 100 | 20 | 95 |
| 30 | 5075505D | 860006 | XX | 2690 | 40480 | 94C03 | 251119 | 55230 | 35PBF | | | | 10110NW | | 5075505 | 860006 | 4 | 66 | 23 | 120 |
| 31 | 5075505D | 860008 | XX | 2690 | 39880 | 94C03 | 251116 | 56225 | 30PBF | | | | 201 | 5 E | 5075505 | 860008 | 3 | 70 | 18 | 113 |
| 32 | 5075505D | 860009 | XX | 2870 | 39600 | 94C03 | 251116 | 53230 | 35PBF | | | | 251 | 3SE | 5075505 | 860009 | 3 | 49 | 18 | 80 |
| 33 | 5075505D | 860010 | XX | 3010 | 39420 | 94C03 | 253119 | 60225 | 33PBF | | | | 201 | 3SE | 5075505 | 860010 | 2 | 50 | 15 | 85 |
| 34 | 5075505D | 860011 | XX | 3150 | 39300 | 94C03 | 351 | 16 | 55225 | 30BBF | | | 20135SE | | 5075505 | 860011 | 3 | 84 | 16 | 74 |
| 35 | 5075505D | 860012 | XX | 3300 | 39180 | 94C03 | 351 | 16 | 60230 | 35BBM | | | 20130SE | | 5075505 | 860012 | 3 | 72 | 18 | 75 |
| 36 | 5075505D | 860013 | XX | 3420 | 39050 | 94C03 | 351 | 16 | 66220 | 25BBM | | | 25120SE | | 5075505 | 860013 | 2 | 94 | 18 | 92 |
| 37 | 5075505D | 860016 | XX | 9200 | 42500 | 94C03 | 351119 | | 55220 | 25PBF | | | 35130 S | | 5075505 | 860016 | 4 | 89 | 18 | 115 |
| 38 | 5075505D | 860017 | XX | 9250 | 42800 | 94C03 | 751 | 19 | 220 | 25BBM | 226 | | 501 | | 5075505 | 860017 | 2 | 41 | 18 | 100 |
| 39 | 5075505D | 860018 | XX | 8800 | 43150 | 94C03 | 2511192 | | 2 | PBF | 225 | | 601 3 S | | 5075505 | 860018 | 4 | 67 | 26 | 116 |
| 40 | 5075505D | 860019 | XX | 8500 | 43500 | 94C03 | 251 | 192 | | BBM | | | 501 5 S | | 5075505 | 860019 | 2 | 37 | 18 | 123 |
| 41 | 5075505D | 860020 | XX | 8200 | 44200 | 94C03 | 151 | 19255 | | BBM | | | 501 3SW | | 5075505 | 860020 | 2 | 35 | 20 | 73 |
| 42 | 5075505D | 860021 | XX | 8100 | 44600 | 94C03 | 251119 | | 54220 | 25BBM | | | 601 5 S | | 5075505 | 860021 | 3 | 50 | 20 | 82 |
| 43 | 5075505D | 860022 | XX | 7900 | 45100 | 94C03 | 251119 | | 54220 | 25PBF | | | 70110SW | | 5075505 | 860022 | 4 | 37 | 20 | 78 |
| 44 | 5075505D | 860023 | XX | 7800 | 45700 | 94C03 | 351 | 19257 | 20 | 25BBM | 226 | | 50135 S | | 5075505 | 860023 | 3 | 50 | 29 | 145 |
| 45 | 5075505D | 860024 | XX | 7450 | 46000 | 94C03 | 351 | 19251 | 25 | 30BBM | 226 | | 25135 N | | 5075505 | 860024 | 3 | 52 | 24 | 68 |
| 46 | 5075505D | 860025 | XX | 8000 | 46100 | 94C03 | 351 | 19253 | 20 | 25 | 226 | | 28135 N | | 5075505 | 860025 | 3 | 43 | 21 | 52 |
| 47 | 5075505D | 860027 | XX | 8800 | 45650 | 94C03 | 351 | 19255 | 20 | 25BBM | 226 | | 10135NE | | 5075505 | 860027 | 3 | 65 | 25 | 48 |
| 48 | 5075505D | 860032 | XX | 10250 | 43500 | 94C03 | 251119 | 24 | 8215 | 20PBF | 226 | | 25120 E | | 5075505 | 860032 | 4 | 45 | 20 | 78 |
| 49 | 5075505D | 860033 | XX | 10200 | 43050 | 94C03 | 351 | 19260 | 210 | 15BBM | 226 | | 50125SE | | 5075505 | 860033 | 2 | 94 | 24 | 140 |
| 50 | 5075505D | 870056 | XX | 23700 | 17350 | 94C03 | 752 | 23 | 55325 | 30BBM | | | 65 0000 | | 5075505 | 870056 | 1 | 35 | 12 | 57 |
| 51 | 5075505D | 870057 | XX | 23900 | 17250 | 94C03 | 251422 | | 51320 | 30BBM | | | 25 05E | | 5075505 | 870057 | 2 | 47 | 13 | 72 |
| 52 | 5075505D | 870058 | XX | 23860 | 16800 | 94C03 | 251424 | | 52225 | 35BBM | | | 15 05E | | 5075505 | 870058 | 1 | 50 | 13 | 46 |
| 53 | 5075505D | 870059 | XX | 23800 | 16350 | 94C03 | 251121 | | 58325 | 35PBF | | | 55 10S | | 5075505 | 870059 | 1 | 58 | 16 | 146 |
| 54 | 5075505D | 870060 | XX | 23400 | 16400 | 94C03 | 252 | 21 | 54325 | 35BBM | | | 45 10E | | 5075505 | 870060 | 1 | 45 | 10 | 65 |

| | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 55 | 5075505D | 870061 | XX | 23010 | 16440 | 94C03 | 751 | 21 | 49325035PBF | | | 35 | 0000 | 5075505 | 870061 | 2 | 36 | 10 | 53 |
| 56 | 5075505D | 870062 | XX | 22610 | 16490 | 94C03 | 2521 | 5 | 68 50070BBM | | | 02 | 10E | 5075505 | 870062 | 2 | 96 | 17 | 76 |
| 57 | 5075505D | 870063 | XX | 22220 | 16520 | 94C03 | 252 | 21 | 60350070BBM | | | 05 | 10E | 5075505 | 870063 | 2 | 40 | 15 | 53 |
| 58 | 5075505D | 870064 | XX | 21820 | 16580 | 94C03 | 252 | 21 | 68350060BBM | | | 60 | 15NE | 5075505 | 870064 | 1 | 54 | 16 | 70 |
| 59 | 5075505D | 870065 | XX | 21400 | 16600 | 94C03 | 251321 | | 60345060BBM | | | 40 | 15NE | 5075505 | 870065 | 2 | 72 | 12 | 68 |
| 60 | 5075505D | 870066 | XX | 21010 | 16660 | 94C03 | 251421 | | 50315020BBM | | | 65 | 15NE | 5075505 | 870066 | 1 | 50 | 12 | 65 |
| 61 | 5075505D | 87006A | XX | 20600 | 16700 | 94C03 | 251 | 21 | 64350065BBM | | | 55 | 20NE | 5075505 | 870068 | 1 | 90 | 12 | 74 |
| 62 | 5075505D | 870069 | XX | 20600 | 16300 | 94C03 | 251121 | | 50320030BBM | | | 30 | 20E | 5075505 | 870069 | 1 | 50 | 10 | 65 |
| 63 | 5075505D | 870070 | XX | 20560 | 15900 | 94C03 | 251121 | | 50325040BBM | | | 65 | 20E | 5075505 | 870070 | 2 | 50 | 12 | 61 |
| 64 | 5075505D | 870071 | XX | 20950 | 15850 | 94C03 | 252121 | | 60340055BBM | | | 60 | 20E | 5075505 | 870071 | 1 | 50 | 10 | 43 |
| 65 | 5075505D | 870072 | XX | 21340 | 15800 | 94C03 | 251221 | | 61340050BBM | | | 15 | 20E | 5075505 | 870072 | 2 | 120 | 22 | 83 |
| 66 | 5075505D | 870073 | XX | 21750 | 15780 | 94C03 | 252321 | | 68355065LBT | | | 10 | 20E | 5075505 | 870073 | 2 | 145 | 20 | 84 |
| 67 | 5075505D | 870074 | XX | 22150 | 15720 | 94C03 | 251121 | | 67325035BBM | | | 05 | 10E | 5075505 | 870074 | 2 | 65 | 15 | 120 |
| 68 | 5075505D | 870075 | XX | 22550 | 15700 | 94C03 | 252321 | | 64365075BBM | | | 20 | 10E | 5075505 | 870075 | 2 | 65 | 12 | 71 |
| 69 | 5075505D | 870076 | XX | 22940 | 15640 | 94C03 | 751121 | | 54320030BBM | | | 30 | 0000 | 5075505 | 870076 | 1 | 105 | 13 | 95 |
| 70 | 5075505D | 870077 | XX | 23340 | 15600 | 94C03 | 251121 | | 61330040BBM | | | 25 | 15E | 5075505 | 870077 | 1 | 62 | 11 | 89 |
| 71 | 5075505D | 890001 | XX | 13100 | 41600 | 94C03 | 251 | 21 | 5520B015RBM | | RB | 35 | 08NE | 39305075505 | 890001 | 2 | 60 | 17 | 155 |
| 72 | 5075505D | 890002 | XX | 13600 | 42100 | 94C03 | 251 | 21 | 58510020BBM | | ORB | | | 39005075505 | 890002 | 4 | 60 | 15 | 86 |
| 73 | 5075505D | 890003 | XX | 13350 | 43000 | 94C03 | 733 | 21 | 65506012LBT | | | 40 | | 39405075505 | 890003 | 2 | 34 | 14 | 64 |
| 74 | 5075505D | 890004 | XX | 13200 | 43850 | 94C03 | 743 | 21 | 615050156BG | | GYBR | 40 | | 39805075505 | 890004 | 2 | 50 | 17 | 60 |
| 75 | 5075505D | 890005 | XX | 13200 | 44500 | 94C03 | 261 | 211 | 5450300628BF | | RB | | | 39705075505 | 890005 | 2 | 52 | 19 | 93 |
| 76 | 5075505D | 890006 | XX | 13000 | 45150 | 94C03 | 753521 | | 54510015GBG | | GYBR | 40 | 000039 | 905075505 | 890006 | 1 | 24 | 14 | 32 |
| 77 | 5075505D | 890007 | XX | 13000 | 45900 | 94C03 | 253521 | | 57509018GBG | | GYBR | | 10NE | 39605075505 | 890007 | 2 | 44 | 14 | 60 |
| 78 | 5075505D | 890008 | XX | 13700 | 45600 | 94C03 | 351 | 21 | 56510020BBM | | MBR | 80 | 25 E | 39305075505 | 890008 | 1 | 35 | 12 | 63 |
| 79 | 5075505D | 890009 | XX | 14300 | 45100 | 94C03 | 751 | 21 | 57303008BBF | | RDBR | | 000049 | 105075505 | 890009 | 2 | 44 | 15 | 65 |
| 80 | 5075505D | 890010 | XX | 14900 | 44800 | 94C03 | 851122 | | 57204010 | | RDBR | | 000038 | 205075505 | 890010 | 2 | 38 | 13 | 83 |
| 81 | 5075505D | 890011 | XX | 15500 | 44250 | 94C03 | 452 | 21 | 62510020LBT | | GYBR | 35 | 15NW | 38505075505 | 890011 | 2 | 55 | 15 | 62 |
| 82 | 5075505D | 890012 | XX | 15700 | 43550 | 94C03 | 451 | 21 | 56305015PBF | | RDBR | 45 | 15 W | 38505075505 | 890012 | 3 | 100 | 17 | 71 |
| 83 | 5075505D | 890014 | XX | 15000 | 42550 | 94C03 | 851 | 22 | 58706015BBM | | ORBR | 40 | 3NW | 38005075505 | 890014 | 3 | 94 | 20 | 103 |
| 84 | 5075505D | 890015 | XX | 14650 | 42250 | 94C03 | 351 | 22 | 59710015BBM | | ORBR | 40 | 25SE | 38005075505 | 890015 | 2 | 105 | 16 | 67 |
| 85 | 5075505D | 890213 | XX | 22150 | 19900 | 94C03 | 251 | 21 | 53315025RBF | | 75YR56 | 30 | 15E | 5075505 | 890213 | 2 | 26 | | 48 |
| 86 | 5075505D | 890214 | XX | 21780 | 19830 | 94C03 | 751 | 21 | 49315025PBF | | 05Y 65 | 25 | 0000 | 5075505 | 890214 | 1 | 47 | | 140 |
| 87 | 5075505D | 890215 | XX | 21360 | 19880 | 94C03 | 751 | 11 | 54315030PBF | | 75YR56 | 30 | 0000 | 5075505 | 890215 | 1 | 64 | | 96 |
| 88 | 5075505D | 890216 | XX | 20960 | 19910 | 94C03 | 252 | 21 | 53330040BBM | | 10YR44 | 25 | 05E | 5075505 | 890216 | 1 | 43 | | 98 |
| 89 | 5075505D | 890217 | XX | 20900 | 19570 | 94C03 | 752 | 21 | 45310020BBM | 122 | 10YR44 | 20 | 0000 | 5075505 | 890217 | 1 | 31 | | 65 |
| 90 | 5075505D | 890218 | XX | 20890 | 19110 | 94C03 | 251 | 1 | 55 35045PBF | 122 | 5YR56 | 30 | 10SE | 5075505 | 890218 | 1 | 38 | | 40 |
| 91 | 5075505D | 890219 | XX | 21280 | 19090 | 94C03 | 251 | 21 | 70 09015PBF | 122 | 5YR56 | | 0000 | 5075505 | 890219 | 1 | 55 | | 36 |
| 92 | 5075505D | 890220 | XX | 21680 | 19020 | 94C03 | 751 | 21 | 65220030PBF | 122 | 05YR56 | | 05 | 5075505 | 890220 | 1 | 23 | | 110 |
| 93 | 5075505D | 890221 | XX | 22060 | 19000 | 94C03 | 251 | 21 | 50315030BBM | 122 | 75YR44 | 40 | 05E | 5075505 | 890221 | 1 | 28 | | 82 |
| 94 | 5075505D | 890222 | XX | 22480 | 18960 | 94C03 | 751421 | | 55235045PBF | | 75YR44 | 30 | 0000 | 5075505 | 890222 | 1 | 40 | | 35 |
| 95 | 507505 D | 890223 | XX | 22880 | 18900 | 94C03 | 251 | 21 | 56225035BBM | | 75YR44 | 25 | 15S | 5075505 | 890223 | 2 | 30 | | 88 |
| 96 | 5075505D | 890224 | XX | 23250 | 18880 | 94C03 | 352321 | | 58320030LBT | | 10YR44 | 25 | 30S | 5075505 | 890224 | 1 | 52 | | 74 |
| 97 | 5075505D | 890225 | XX | 23660 | 18820 | 94C03 | 352321 | | 01440050LBT | | 10YR44 | 20 | 20N | 5075505 | 890225 | 1 | 30 | | 58 |
| 98 | 5075505D | 890227 | XX | 24090 | 18790 | 94C03 | 251 | 21 | 52320030BBM | | 75YR44 | 35 | 20N | 5075505 | 890227 | 2 | 30 | | 60 |
| 99 | 5075505D | 890228 | XX | 24080 | 18400 | 94C03 | 251 | 21 | 49325035BBM | | 75YR44 | 20 | 10E | 5075505 | 890228 | 1 | 30 | | 82 |
| 100 | 5075505D | 890229 | XX | 24030 | 17990 | 94C03 | 252521 | | 53330040GBG | | 10YR44 | 35 | 10E | 5075505 | 890229 | 1 | 30 | | 49 |
| 101 | 5075505D | 890230 | XX | 23610 | 18000 | 94C03 | 751 | 21 | 52320035PBF | | 75YR56 | 20 | 0000 | 5075505 | 890230 | 2 | 41 | | 55 |
| 102 | 5075505D | 890231 | XX | 23210 | 18040 | 94C03 | 751 | 21 | 53325035BBM | | 10YR44 | 25 | 0000 | 5075505 | 890231 | 2 | 56 | | 68 |
| 103 | 5075505D | 890232 | XX | 22820 | 18090 | 94C03 | 753321 | | 57325035GBG | | 10YR52 | 25 | 0000 | 5075505 | 890232 | 2 | 56 | | 69 |
| 104 | 5075505D | 890233 | XX | 22420 | 18110 | 94C03 | 751521 | | 60320030GBG | | 10YR54 | 20 | 0000 | 5075505 | 890233 | 2 | 26 | | 55 |
| 105 | 5075505D | 890234 | XX | 22020 | 18180 | 94C03 | 751 | 21 | 56320025BBM | | 10YR44 | 20 | | 5075505 | 890234 | 0 | 35 | | 83 |
| 106 | 5075505D | 890235 | XX | 21620 | 18200 | 94C03 | 253 | 21 | 350060GBG | | 10YR44 | 20 | 05N | 5075505 | 890235 | 2 | 62 | | 98 |
| 107 | 5075505D | 890236 | XX | 21220 | 18250 | 94C03 | 251 | 21 | 66330040BBM | | 10YR44 | 25 | 15N | 5075505 | 890236 | 2 | 35 | | 49 |
| 108 | 5075505D | 890237 | XX | 20800 | 18280 | 94C03 | 251 | 21 | 59 35045RBM | | 10YR44 | 25 | 20N | 5075505 | 890237 | 1 | 45 | | 40 |
| 109 | 5075505D | 890238 | XX | 20760 | 17910 | 94C03 | 351 | 21 | 44325035BBM | | 75YR44 | 40 | 30N | 5075505 | 890238 | 2 | 38 | | 110 |
| 110 | 5075505D | 890239 | XX | 20710 | 17510 | 94C03 | 251 | 21 | 44330040BBM | | 10YR44 | 40 | 15E | 5075505 | 890239 | 1 | 20 | | 45 |
| 111 | 5075505D | 890240 | XX | 21100 | 17520 | 94C03 | 252521 | | 62330040GBG | | 10YR44 | 25 | 15E | 5075505 | 890240 | 2 | 55 | | 93 |
| 112 | 5075505D | 890241 | XX | 21495 | 17530 | 94C03 | 251 | 21 | 47335045BBM | | 10YR44 | 25 | 20E | 5075505 | 890241 | 0 | 61 | | 105 |
| 113 | 5075505D | 890242 | XX | 21900 | 17540 | 94C03 | 753121 | | 59 40050GBG | | | 35 | 0000 | 5075505 | 890242 | 1 | 60 | | 67 |
| 114 | 5075505D | 890243 | XX | 22300 | 17550 | 94C03 | 251 | 21 | 44320030BBM | | 10YR44 | 60 | 05E | 5075505 | 890243 | 0 | 36 | | 65 |

| | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 115 | 5075505D | 890244 | XX | 22700 | 17560 | 94C03 | 251 | 21 | 47325035PBP | 75YR44 | 35 | 10W | 5075505 | 890244 | 2 | 56 | | 118 |
| 116 | 5075505D | 890339 | XX | 14400 | 23200 | 94C03 | 251 | 21 | 50315035BBM | 10YR44 | 35 | 5S | 5075505 | 890339 | 2 | 30 | 15 | 48 |
| 117 | 5075505D | 890340 | XX | 14800 | 23200 | 94C03 | 251 | 21 | 52310025BBM | 75YR44 | | 10S | 5075505 | 890340 | 2 | 43 | 16 | 70 |
| 118 | 5075505D | 890341 | XX | 15200 | 23200 | 94C03 | 252 | 21 | 61310025GBG | 10YR44 | 20 | 5S | 5075505 | 890341 | 1 | 38 | 15 | 26 |
| 119 | 5075505D | 890342 | XX | 15600 | 23200 | 94C03 | 251 | 1 | 61315030BBM | 10YR44 | 30 | 15E | 5075505 | 890342 | 1 | 40 | 15 | 138 |
| 120 | 5075505D | 890343 | XX | 16000 | 23200 | 94C03 | 251 | 21 | 50315035BBM | 10YR44 | 25 | 10S | 5075505 | 890343 | 2 | 40 | 21 | 210 |
| 121 | 5075505D | 890344 | XX | 16400 | 23200 | 94C03 | 251 | 21 | 52315030BBM | 10YR44 | 20 | 10S | 5075505 | 890344 | 1 | 25 | 16 | 155 |
| 122 | 5075505D | 890345 | XX | 16800 | 23200 | 94C03 | 351 | 21 | 52310020BBM | 10YR44 | | 20S | 5075505 | 890345 | 4 | 35 | 22 | 173 |
| 123 | 5075505D | 890346 | XX | 17200 | 23200 | 94C03 | 351 | 21 | 54310025BBM | 10YR44 | 25 | 20S | 5075505 | 890346 | 1 | 27 | 15 | 106 |
| 124 | 5075505D | 890347 | XX | 17600 | 23200 | 94C03 | 351 | 21 | 56310025BBM | 75YR44 | 25 | 20S | 5075505 | 890347 | 1 | 35 | 16 | 86 |
| 125 | 5075505D | 890348 | XX | 18000 | 23200 | 94C03 | 251 | 21 | 57320035BBM | 75YR44 | 15 | 10S | 5075505 | 890348 | 3 | 32 | 17 | 95 |
| 126 | 5075505D | 890349 | XX | 18400 | 23200 | 94C03 | 251 | 21 | 54315030BBM | 75YR44 | 20 | 5S | 5075505 | 890349 | 2 | 42 | 13 | 75 |
| 127 | 5075505D | 890350 | XX | 18800 | 23200 | 94C03 | 251 | 21 | 60310020BBM | 75YR44 | | 5S | 5075505 | 890350 | 2 | 132 | 21 | 115 |
| 128 | 5075505D | 890351 | XX | 19200 | 23200 | 94C03 | 251 | 21 | 67330045BBM | 10YR44 | 30 | 10S | 5075505 | 890351 | 1 | 70 | 17 | 74 |
| 129 | 5075505D | 890352 | XX | 19600 | 23200 | 94C03 | 251 | 21 | 59330045BBM | 10YR44 | 20 | 5S | 5075505 | 890352 | 1 | 32 | 15 | 80 |
| 130 | 5075505D | 890353 | XX | 20000 | 23200 | 94C03 | 251 | 21 | 50305030BBM | 10YR44 | 45 | 10S | 5075505 | 890353 | 1 | 34 | 14 | 90 |
| 131 | 5075505D | 890354 | XX | 20400 | 23200 | 94C03 | 252221 | | 72340055GBG | 10YR44 | 30 | 10SE | 5075505 | 890354 | 1 | 55 | 17 | 82 |
| 132 | 5075505D | 890355 | XX | 20400 | 24000 | 94C03 | 252221 | | 57340055BBM | 10YR44 | 30 | 05SE | 5075505 | 890355 | 2 | 60 | 15 | 100 |
| 133 | 5075505D | 890356 | XX | 20000 | 24000 | 94C03 | 751 | 21 | 48310025BBM | 10YR44 | 20 | 0000 | 5075505 | 890356 | 1 | 32 | 15 | 60 |
| 134 | 5075505D | 890357 | XX | 19600 | 24000 | 94C03 | 751 | 21 | 64325040BBM | 10YR44 | 25 | 0000 | 5075505 | 890357 | 2 | 45 | 14 | 143 |
| 135 | 5075505D | 890358 | XX | 19200 | 24000 | 94C03 | 752221 | | 67345060GBG | 10YR44 | 30 | 0000 | 5075505 | 890358 | 2 | 52 | 14 | 55 |
| 136 | 5075505D | 890359 | XX | 18800 | 24000 | 94C03 | 251 | 21 | 58320035BBM | 75YR44 | 25 | 05SE | 5075505 | 890359 | 2 | 68 | 17 | 90 |
| 137 | 5075505D | 890360 | XX | 18400 | 24000 | 94C03 | 251 | 21 | 63310020BBM | 75YR44 | 30 | 10E | 5075505 | 890360 | 1 | 46 | 12 | 85 |
| 138 | 5075505D | 890361 | XX | 18000 | 24000 | 94C03 | 251 | 21 | 51310020BBM | 10YR44 | 25 | 10E | 5075505 | 890361 | 1 | 50 | 15 | 83 |
| 139 | 5075505D | 890362 | XX | 17600 | 24000 | 94C03 | 251 | 21 | 48315025BBM | 10YR44 | 20 | 15E | 5075505 | 890362 | 2 | 30 | 12 | 83 |
| 140 | 5075505D | 890363 | XX | 17200 | 24000 | 94C03 | 251 | 21 | 51310030BBM | 10YR44 | 30 | 115S | 5075505 | 890363 | 3 | 44 | 16 | 150 |
| 141 | 5075505D | 890364 | XX | 16800 | 24000 | 94C03 | 351 | 21 | 53320035BBM | 75YR44 | 30 | 25E | 5075505 | 890364 | 3 | 32 | 16 | 108 |
| 142 | 5075505D | 890365 | XX | 16400 | 24000 | 94C03 | 51 | 21 | 48320030BBM | 10YR44 | 35 | 125E | 5075505 | 890365 | 2 | 23 | 12 | 85 |
| 143 | 5075505D | 890366 | XX | 16000 | 24000 | 94C03 | 251 | 21 | 55305015BBM | 10YR44 | 20 | 15SE | 5075505 | 890366 | 3 | 45 | 15 | 95 |
| 144 | 5075505D | 890367 | XX | 15600 | 24000 | 94C03 | 251 | 21 | 56310025BBM | 10YR44 | 25 | 10SE | 5075505 | 890367 | 4 | 46 | 13 | 105 |
| 145 | 5075505D | 890368 | XX | 15200 | 24000 | 94C03 | 251 | 21 | 55320030BBM | 10YR44 | 35 | 5SE | 5075505 | 890368 | 4 | 59 | 15 | 75 |
| 146 | 5075505D | 890369 | XX | 14800 | 24000 | 94C03 | 251 | 21 | 52315025BBM | 10YR44 | 25 | 5SW | 5075505 | 890369 | 4 | 39 | 12 | 77 |
| 147 | 5075505D | 890370 | XX | 14400 | 24000 | 94C03 | 242 | 21 | 60340055GBG | 10YR44 | 20 | 05SE | 5075505 | 890370 | 1 | 42 | 11 | 69 |
| 148 | 5075505D | 890371 | XX | 21200 | 20800 | 94C03 | 751 | 21 | 61325035BBM | 10YR44 | 35 | 10000 | 5075505 | 890371 | 2 | 43 | 12 | 81 |
| 149 | 5075505D | 890372 | XX | 21600 | 20800 | 94C03 | 251 | 21 | 50320035BBM | 10YR44 | 40 | 10E | 5075505 | 890372 | 2 | 36 | 15 | 120 |
| 150 | 5075505D | 890373 | XX | 22000 | 20800 | 94C03 | 751 | 21 | 58320030BBM | 10YR44 | 25 | 0000 | 5075505 | 890373 | 1 | 64 | 11 | 65 |
| 151 | 5075505D | 890374 | XX | 22400 | 20800 | 94C03 | 751 | 21 | 56315030BBM | 10YR44 | | 0000 | 5075505 | 890374 | 2 | 42 | 10 | 70 |
| 152 | 5075505D | 890375 | XX | 22400 | 20400 | 94C03 | 751 | 321 | 64330045LBT | 10YR44 | 25 | 0000 | 5075505 | 890375 | 3 | 157 | 20 | 190 |
| 153 | 5075505D | 890376 | XX | 22400 | 20000 | 94C03 | 793 | 215 | 63140060OBH | 10YR31 | 00 | 0000 | 5075505 | 890376 | 6 | 141 | 10 | 35 |
| 154 | 5075505D | 890377 | XX | 22000 | 20000 | 94C03 | 251 | 21 | 55330045BBM | 75YR44 | 25 | 10E | 5075505 | 890377 | 3 | 35 | 14 | 192 |
| 155 | 5075505D | 890378 | XX | 21600 | 20000 | 94C03 | 751 | 21 | 53340055BBM | 10YR44 | 30 | 0000 | 5075505 | 890378 | 2 | 43 | 15 | 73 |
| 156 | 5075505D | 890379 | XX | 21200 | 20000 | 94C03 | 751 | 21 | 54315030PBP | 5YR58 | 35 | 0000 | 5075505 | 890379 | 4 | 75 | 15 | 112 |
| 157 | 5075505D | 890380 | XX | 20800 | 20000 | 94C03 | 271 | 121 | 59330040PBH | 10YR32 | 15 | 5E | 5075505 | 890380 | 2 | 49 | 12 | 80 |
| 158 | 5075505D | 890381 | XX | 20400 | 20000 | 94C03 | 751 | 21 | 56310030BBM | 75YR44 | 35 | 0000 | 5075505 | 890381 | 2 | 56 | 15 | 75 |
| 159 | 5075505D | 890382 | XX | 20000 | 20000 | 94C03 | 251 | 21 | 52325040BBM | 10YR44 | 20 | 10E | 5075505 | 890382 | 1 | 21 | 7 | 55 |
| 160 | 5075505D | 890383 | XX | 29600 | 20000 | 94C03 | 751 | 21 | 58320035BBM | 10YR44 | 25 | 0000 | 5075505 | 890383 | 2 | 43 | 10 | 63 |
| 161 | 5075505D | 890384 | XX | 19400 | 20200 | 94C03 | 751 | 21 | 48315030BBM | 10YR44 | 20 | 0000 | 5075505 | 890384 | 2 | 22 | 12 | 55 |
| 162 | 5075505D | 890385 | XX | 19400 | 20600 | 94C03 | 51 | 21 | 52320035BBM | 10YR44 | 40 | 5E | 5075505 | 890385 | 2 | 42 | 13 | 107 |
| 163 | 5075505D | 890386 | XX | 19800 | 20800 | 94C03 | 251 | 21 | 54330045PBP | 75YR76 | 25 | 5E | 5075505 | 890386 | 2 | 57 | 11 | 89 |
| 164 | 5075505D | 890387 | XX | 20200 | 20800 | 94C03 | 242 | 215 | 641300500BH | 10YR32 | 00 | 5E | 5075505 | 890387 | 5 | 121 | 5 | 17 |
| 165 | 5075505D | 890388 | XX | 20600 | 20800 | 94C03 | 241 | 21 | 68325040BBM | 10YR44 | 40 | 5E | 5075505 | 890388 | 2 | 44 | 14 | 163 |
| 166 | 5075505D | 890389 | XX | 21000 | 20800 | 94C03 | 751 | 21 | 57325035PBP | 75YR56 | 35 | 0000 | 5075505 | 890389 | 2 | 68 | 13 | 158 |
| 167 | 5075505D | 890390 | XX | 22400 | 21200 | 94C03 | 752 | 21 | 67320030GBG | 10YR44 | 25 | 0000 | 5075505 | 890390 | 2 | 90 | 12 | 83 |
| 168 | 5075505D | 890391 | XX | 22400 | 21600 | 94C03 | 751 | 21 | 49320030PBP | 75YR56 | 30 | 0000 | 5075505 | 890391 | 2 | 37 | 8 | 73 |
| 169 | 5075505D | 890392 | XX | 22400 | 22000 | 94C03 | 751 | 21 | 59240055PBP | 75YR56 | 45 | 0000 | 5075505 | 890392 | 2 | 84 | 8 | 60 |
| 170 | 5075505D | 890393 | XX | 22400 | 22400 | 94C03 | 751 | 21 | 52310020BBM | 75YR44 | 25 | 0000 | 5075505 | 890393 | 1 | 32 | 12 | 83 |
| 171 | 5075505D | 890394 | XX | 22000 | 22400 | 94C03 | 351 | 21 | 51315025BBM | 10YR44 | 15 | 35N | 5075505 | 890394 | 1 | 60 | 15 | 84 |
| 172 | 5075505D | 890395 | XX | 21600 | 22400 | 94C03 | 751 | 21 | 54310025BBM | 75YR44 | 20 | 0000 | 5075505 | 890395 | 2 | 58 | 15 | 70 |
| 173 | 5075505D | 890396 | XX | 21200 | 22400 | 94C03 | 351 | 21 | 56330045BBM | 10YR44 | 25 | 45NE | 5075505 | 890396 | 1 | 48 | 15 | 84 |
| 174 | 5075505D | 890397 | XX | 20800 | 22400 | 94C03 | 251 | 21 | 53315025BBM | 10YR44 | 30 | 15NE | 5075505 | 890397 | 2 | 42 | 15 | 78 |

| | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 175 | 5075505D | 890398 | XX | 20400 | 22400 | 94C03 | 251 | 21 | 54315030BBM | | 75YR44 | 22 | 5NE | 5075505 | 890398 | 2 | 35 | 15 | 82 |
| 176 | 5075505D | 890399 | XX | 20000 | 22400 | 94C03 | 351 | 21 | 53310020BBM | | 10YR44 | 25 | 30NW | 5075505 | 890399 | 2 | 85 | 15 | 85 |
| 177 | 5075505D | 890400 | XX | 19600 | 22400 | 94C03 | 751 | 21 | 57105020PBP | | 75YR56 | 3510000 | | 5075505 | 890400 | 3 | 35 | 19 | 127 |
| 178 | 5075505D | 890401 | XX | 19800 | 22000 | 94C03 | 751 | 21 | 72340055GBG | | 10YR44 | 3510000 | | 5075505 | 890401 | 2 | 159 | 20 | 50 |
| 179 | 5075505D | 890402 | XX | 19800 | 21600 | 94C03 | 351 | 19 | 68335045OBH | | 10YR32 | 45135E | | 5075505 | 890402 | 3 | 125 | 30 | 78 |
| 180 | 5075505D | 890403 | XX | 20200 | 21600 | 94C03 | 751 | 21 | 55315030BBM | | 10YR44 | 20 | 0000 | 5075505 | 890403 | 2 | 59 | 15 | 80 |
| 181 | 5075505D | 890404 | XX | 20600 | 21600 | 94C03 | 292215 | | 71130045OBH | | 10YR32 | 00 | 10S | 5075505 | 890404 | 2 | 163 | 12 | 28 |
| 182 | 5075505D | 890405 | XX | 21000 | 21600 | 94C03 | 751 | 21 | 63330045BBM | | 10YR44 | 25 | 0000 | 5075505 | 890405 | 2 | 49 | 20 | 72 |
| 183 | 5075505D | 890406 | XX | 21400 | 21600 | 94C03 | 751 | 21 | 53310020BBM | | 75YR44 | 35 | 0000 | 5075505 | 890406 | 2 | 46 | 21 | 135 |
| 184 | 5075505D | 890407 | XX | 21800 | 21600 | 94C03 | 351 | 21 | 60315025BBM | | 10YR44 | | 25S | 5075505 | 890407 | 2 | 60 | 16 | 75 |
| 185 | 5075505D | 890408 | XX | 22000 | 21600 | 94C03 | 251 | 21 | 54310025BBM | | 75YR44 | 35 | 05E | 5075505 | 890408 | 10 | 38 | 16 | 58 |
| 186 | 5075505D | 900231 | XX | 20570 | 19950 | 94C03 | 271 | 22 | 62210 20BBM | | 10YR44 | 50 | 3NE | 5075505 | 900231 | 1 | 62 | | 74 |
| 187 | 5075505D | 900232 | XX | 20150 | 20000 | 94C03 | 271 | 22 | 70220 30CBM | | 10YR44 | 10 | 5NE | 5075505 | 900232 | 2 | 50 | | 79 |
| 188 | 5075505D | 900233 | XX | 19750 | 20050 | 94C03 | 271 | 22 | 51210 20BBM | | 10YR44 | 5 | 3N | 5075505 | 900233 | 2 | 35 | | 72 |
| 189 | 5075505D | 900234 | XX | 19350 | 20100 | 94C03 | 271 | 22 | 50210 20BBM | | 10YR44 | 10 | 3N | 5075505 | 900234 | 2 | 50 | | 85 |
| 190 | 5075505D | 900235 | XX | 18970 | 20120 | 94C03 | 251 | 22 | 49210 20PBP | | 75YR44 | 10 | 10N | 5075505 | 900235 | 1 | 48 | | 82 |
| 191 | 5075505D | 900236 | XX | 18570 | 20160 | 94C03 | 251 | 22 | 47210 20BBM | | 10YR44 | 25 | 8W | 5075505 | 900236 | 1 | 20 | | 55 |
| 192 | 5075505D | 900237 | XX | 18160 | 20210 | 94C03 | 251 | 22 | 55210 20BBM | | 10YR44 | 20 | 1W | 5075505 | 900237 | 2 | 60 | | 80 |
| 193 | 5075505D | 900238 | XX | 17790 | 20250 | 94C03 | 251 | 22 | 68220 30PBP | | 75YR32 | 10 | 10W | 5075505 | 900238 | 2 | 38 | | 103 |
| 194 | 5075505D | 900239 | XX | 17390 | 20300 | 94C03 | 371 | 22 | 56220 30BBM | | 10YR44 | 10 | 45 W | 5075505 | 900239 | 1 | 80 | | 44 |
| 195 | 5075505D | 900240 | XX | 16980 | 20340 | 94C03 | 251 | 22 | 58210 20PBP | | 75YR44 | 10 | 20W | 5075505 | 900240 | 2 | 65 | | 44 |
| 196 | 5075505D | 900241 | XX | 16610 | 20380 | 94C03 | 251 | 22 | 55210 20PBP | | 75YR44 | 25 | 20W | 5075505 | 900241 | 2 | 28 | | 40 |
| 197 | 5075505D | 900242 | XX | 16320 | 20400 | 94C03 | 451 | 18254215 | 25BBM112 | | 10YR32 | 40145W | | 5075505 | 900242 | 0 | 10 | | 35 |
| 198 | 5075505D | 900243 | XX | 16550 | 20700 | 94C03 | 451 | 18252215 | 25BBM112 | | 10YR44 | 50145W | | 5075505 | 900243 | 0 | 48 | | 47 |
| 199 | 5075505D | 900245 | XX | 22550 | 19760 | 94C03 | 251 | 22 | 56210 20BBM | | 10YR44 | 25 | 1NW | 5075505 | 900245 | 1 | 75 | | 74 |
| 200 | 5075505D | 900246 | XX | 22950 | 19700 | 94C03 | 252 | 22 | 58315 25GBG | | 10YR54 | 25 | 1W | 5075505 | 900246 | 0 | 20 | | 38 |
| 201 | 5075505D | 900247 | XX | 23340 | 19680 | 94C03 | 272 | 22 | 68315 25CBM | | 10YR44 | 40 | 2W | 5075505 | 900247 | 2 | 40 | | 64 |
| 202 | 5075505D | 900248 | XX | 23740 | 19620 | 94C03 | 251 | 22 | 53320 30PBP | | 75YR44 | 10 | 3S | 5075505 | 900248 | 2 | 33 | | 42 |
| 203 | 5075505D | 900249 | XX | 24120 | 19590 | 94C03 | 251 | 22 | 57310 20BBM | | 10YR54 | 1 | 5S | 5075505 | 900249 | 1 | 58 | | 64 |
| 204 | 5075505D | 900250 | XX | 24160 | 19980 | 94C03 | 272 | 22 | 48320 30BBM | | 10YR54 | 10 | 1S | 5075505 | 900250 | 2 | 57 | | 58 |
| 205 | 5075505D | 900251 | XX | 24200 | 20390 | 94C03 | 251 | 22 | 49210 20PBP | | 75YR44 | 10 | 3W | 5075505 | 900251 | 2 | 100 | | 72 |
| 206 | 5075505D | 900252 | XX | 23800 | 20420 | 94C03 | 251 | 22 | 50210 20BBM | | 10YR54 | 10 | 3NW | 5075505 | 900252 | 1 | 60 | | 70 |
| 207 | 5075505D | 900253 | XX | 23400 | 20450 | 94C03 | 251 | 22 | 52210 20PBP | | 75YR44 | 5 | 1N | 5075505 | 900253 | 1 | 38 | | 52 |
| 208 | 5075505D | 900254 | XX | 23010 | 20500 | 94C03 | 251 | 22 | 47210 20BBM | | 10YR44 | 20 | 15W | 5075505 | 900254 | 1 | 45 | | 65 |
| 209 | 5075505D | 900255 | XX | 22640 | 20520 | 94C03 | 351 | 22 | 52210 20PBP | | 75YR44 | 10 | 25N | 5075505 | 900255 | 1 | 85 | | 57 |
| 210 | 5075505D | 900256 | XX | 22250 | 20560 | 94C03 | 351 | 16 | 53215 25BBM | | 10YR44 | 10 | 35N | 5075505 | 900256 | 2 | 85 | | 78 |
| 211 | 5075505D | 900257 | XX | 21870 | 20600 | 94C03 | 251 | 22 | 47210 20BBM | | 10YR44 | 801 | 5N | 5075505 | 900257 | 1 | 38 | | 120 |
| 212 | 5075505D | 900258 | XX | 21470 | 20620 | 94C03 | 351 | 22 | 52210 20PBP | | 75YR44 | 10 | 25N | 5075505 | 900258 | 2 | 43 | | 70 |
| 213 | 5075505D | 900259 | XX | 21100 | 20670 | 94C03 | 371 | 11 | 57220 30BBM | | 10YR44 | 10 | 50N | 5075505 | 900259 | 3 | 68 | | 112 |
| 214 | 5075505D | 900260 | XX | 20700 | 20700 | 94C03 | 351 | 22 | 50210 20BBM | | 10YR44 | 20 | 25N | 5075505 | 900260 | 1 | 43 | | 58 |
| 215 | 5075505D | 900261 | XX | 20330 | 20740 | 94C03 | 371 | 22 | 48210 20PBP | | 50Y 32 | 50 | 30N | 5075505 | 900261 | 1 | 45 | | 85 |
| 216 | 5075505D | 900262 | XX | 19960 | 20780 | 94C03 | 351 | 22 | 47210 20PBP | | 75YR44 | 30 | 30N | 5075505 | 900262 | 1 | 55 | | 55 |
| 217 | 5075505D | 900263 | XX | 19570 | 20800 | 94C03 | 351 | 11 | 66315 25BBM226 | | 10YR32 | 5 | 30NE | 5075505 | 900263 | 1 | 90 | | 58 |
| 218 | 5075505D | 900264 | XX | 19200 | 20830 | 94C03 | 351 | 22 | 52310 20BBM | | 10YR44 | 20 | 20N | 5075505 | 900264 | 1 | 37 | | 87 |
| 219 | 5075505D | 900265 | XX | 18840 | 20880 | 94C03 | 271 | 21 | 65310 20BBM | | 10YR44 | 30 | 2N | 5075505 | 900265 | 1 | 40 | | 65 |
| 220 | 5075505D | 900266 | XX | 18490 | 20900 | 94C03 | 271 | 22 | 63210 20BBM | | 10YR44 | 10 | 5W | 5075505 | 900266 | 3 | 55 | | 62 |
| 221 | 5075505D | 900267 | XX | 18120 | 20950 | 94C03 | 251 | 22 | 52210 20PBP | | 5 Y 32 | 1 | 15W | 5075505 | 900267 | 2 | 35 | | 58 |
| 222 | 5075505D | 900268 | XX | 17730 | 20980 | 94C03 | 351 | 21 | 59320 30BBM | | 10YR32 | 1 | 50W | 5075505 | 900268 | 1 | 58 | | 54 |
| 223 | 5075505D | 900269 | XX | 17350 | 21010 | 94C03 | 271 | 22 | 56210 20PBP | | 75YR44 | 5 | 5W | 5075505 | 900269 | 2 | 40 | | 48 |
| 224 | 5075505D | 900270 | XX | 17000 | 21050 | 94C03 | 471 | 19276220 | 30BBM235 | | 10YR54 | 30140W | | 5075505 | 900270 | 1 | 90 | | 54 |
| 225 | 5075505D | 900271 | XX | 17000 | 21400 | 94C03 | 471 | 18277215 | 25BBM22564 | | 10YR54 | 40135W | | 5075505 | 900271 | 2 | 110 | | 60 |
| 226 | 5075505D | 900272 | XX | 17200 | 21800 | 94C03 | 471 | 22253210 | 20PBP | | 75YR44 | 30 | 45W | 5075505 | 900272 | 2 | 85 | | 35 |
| 227 | 5075505D | 900308 | XX | 8800 | 40000 | 94C03 | 251 | 19 | 54210 20PBP | | 75YR44 | 45115E | | 5075505 | 900308 | 3 | 63 | | 92 |
| 228 | 5075505D | 900309 | XX | 8600 | 40000 | 94C03 | 251 | 19 | 57210 20BBM | | 10YR44 | 40115E | | 5075505 | 900309 | 2 | 63 | | 79 |
| 229 | 5075505D | 900310 | XX | 8400 | 40000 | 94C03 | 251 | 11 | 59210 20BBM | | 10YR44 | 401 5E | | 5075505 | 900310 | 2 | 50 | | 85 |
| 230 | 5075505D | 900311 | XX | 8200 | 40000 | 94C03 | 251 | 11 | 52210 20BBM | | 10YR44 | 50110E | | 5075505 | 900311 | 2 | 35 | | 56 |
| 231 | 5075505D | 900312 | XX | 8000 | 40000 | 94C03 | 251 | 11 | 58210 20PBP | | 75YR44 | 501 5E | | 5075505 | 900312 | 4 | 65 | | 74 |
| 232 | 5075505D | 900313 | XX | 7400 | 40800 | 94C03 | 251 | 11 | 59210 20BBM | | 10YR44 | 251 5E | | 5075505 | 900313 | 10 | 63 | | 115 |
| 233 | 5075505D | 900314 | XX | 7600 | 40900 | 94C03 | 251 | 19 | 58210 20PBP | | 75YR44 | 401 5E | | 5075505 | 900314 | 4 | 70 | | 56 |
| 234 | 5075505D | 900315 | XX | 7800 | 40800 | 94C03 | 251 | 19 | 55210 20PBP | | 75YR44 | 401 5E | | 5075505 | 900315 | 5 | 53 | | 72 |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 235 | 5075505D | 900316 | XX | 8000 | 40800 | 94C03 | 251 | 22 | 58210 | 20PBF | | 75YR44 | 201 | 5NE | 5075505 | 900316 | 6 | 43 | | 67 |
| 236 | 5075505D | 900317 | XX | 8200 | 40800 | 94C03 | 251 | 12 | 57215 | 25BBM | | 10YR44 | 251 | 5NE | 5075505 | 900317 | 3 | 38 | | 55 |
| 237 | 5075505D | 900318 | XX | 8400 | 40800 | 94C03 | 351 | 12 | 53215 | 25BBM | | 10YR44 | 25120 | NE | 5075505 | 900318 | 3 | 45 | | 68 |
| 238 | 5075505D | 900319 | XX | 8600 | 40800 | 94C03 | 251 | 12 | 55210 | 20PBF | | 75YR44 | 35115 | NE | 5075505 | 900319 | 3 | 58 | | 99 |
| 239 | 5075505D | 900320 | XX | 8800 | 40800 | 94C03 | 351 | 12 | 51210 | 20PBF | | 50Y 44 | 20125 | NE | 5075505 | 900320 | 1 | 60 | | 56 |
| 240 | 5075505D | 900321 | XX | 8800 | 41600 | 94C03 | 251 | 12 | 49215 | 25BBM | | 10YR44 | 20115 | SE | 5075505 | 900321 | 1 | 125 | | 110 |
| 241 | 5075505D | 900322 | XX | 8600 | 41600 | 94C03 | 351 | 19 | 54215 | 25PBF | | 75YR32 | 40135 | SE | 5075505 | 900322 | 1 | 48 | | 150 |
| 242 | 5075505D | 900323 | XX | 8400 | 41600 | 94C03 | 351 | 19 | 55215 | 25PBF | | 75YR44 | 40135 | E | 5075505 | 900323 | 2 | 50 | | 78 |
| 243 | 5075505D | 900324 | XX | 8200 | 41600 | 94C03 | 351 | 19 | 59210 | 20BBM | | 10YR44 | 20140 | E | 5075505 | 900324 | 4 | 70 | | 115 |
| 244 | 5075505D | 900326 | XX | 7800 | 41600 | 94C03 | 351 | 19 | 259210 | 20PBF | 2255 | 75YR44 | 50135 | E | 5075505 | 900326 | 5 | 160 | | 280 |
| 245 | 5075505D | 900327 | XX | 7600 | 41600 | 94C03 | 251 | 16 | 65215 | 25BBM | 2255 | 10YR32 | 401 | 5E | 5075505 | 900327 | 10 | 85 | | 138 |
| 246 | 5075505D | 900328 | XX | 7400 | 41600 | 94C03 | 351 | 16 | 53215 | 25PBF | 5 | 75YR44 | 20125 | NE | 5075505 | 900328 | 7 | 58 | | 68 |
| 247 | 5075505D | 900329 | XX | 7200 | 41600 | 94C03 | 251 | 12 | 67215 | 25BBM | 5 | 10YR44 | 251 | 5E | 5075505 | 900329 | 6 | 83 | | 99 |
| 248 | 5075505D | 900330 | XX | 7000 | 41600 | 94C03 | 251 | 22 | 58210 | 20PBF | | 75YR44 | | 5E | 5075505 | 900330 | 10 | 73 | | 99 |
| 249 | 5075505D | 900331 | XX | 7000 | 41800 | 94C03 | 432 | 14 | 70720 | 30RC1 | | 10YR44 | 901 | 2E | 5075505 | 900331 | 3 | 98 | | 68 |
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| 260 | 5075505D | 900352 | XX | 6000 | 43200 | 94C03 | 251 | 16 | 210 | 20PBF | | 50Y 44 | 251 | 2S | 5075505 | 900352 | 14 | 140 | | 470 |
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| 266 | 5075505D | 900358 | XX | 8400 | 43200 | 94C03 | 251 | 12 | 269210 | 20BBM | 2265 | 10YR44 | 401 | 2SW | 5075505 | 900358 | 1 | 55 | 17 | 87 |
| 267 | 5075505D | 900359 | XX | 8800 | 43200 | 94C03 | 251 | 16 | 252210 | 20PBF | 2265 | 75YR44 | 101 | 5S | 5075505 | 900359 | 3 | 80 | 25 | 113 |
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| 270 | 5075505D | 900362 | XX | 10000 | 43200 | 94C03 | 271 | 19 | 249210 | 20BBM | 2255 | 10YR44 | 501 | 5SE | 5075505 | 900362 | 2 | 44 | 16 | 104 |
| 271 | 5075505D | 900363 | XX | 10000 | 42800 | 94C03 | 351 | 18 | 255210 | 20BBM | 2255 | 10YR44 | 50125 | S | 5075505 | 900363 | 2 | 65 | 17 | 80 |
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| 287 | 5075505D | 900383 | XX | 13800 | 13600 | 94C03 | 251 | 22 | 53210 | 20PBF | | 75YR44 | 80 | 1E | 5075505 | 900383 | 1 | 75 | 18 | 49 |
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DONE.
T=0.07 DR=0    $.03,   $2.55T
```

# APPENDIX 4

## List of Qualifications

## List of Qualifications - S.J. Hoffman

BSc 1969 - McGill University (Hons Geology and Chemistry)

MSc 1972 - The University of British Columbia (Geochemistry)

PhD est 1976 - The University of British Columbia(Geochemistry)

## List of Publications


1. Hoffman, S.J., 1972

   Geochemical dispersion in bedrock and glacial overburden around a copper property in south central British Columbia.
   MSc thesis, unpublished, U.B.C., 209 pp.

2. Hoffman, S.J. and Fletcher, W.K., 1972

   Distribution of copper at the Dansey-Rayfield River property, south central British Columbia.
   J. Geoch. Expl. 1, 163-180.

3. Hoffman, S.J. and Waskett-Myers, M.J., 1974

   Determination of molybdenum in soils and sediments with a modified zinc dithiol procedure.
   J. Geoch. Expl. 3, 61-66.

4. Hoffman, S.J., 1974

   Pebble Cards - A record of the coarse fraction of stream sediments for geochemical exploration.
   J. Geoch. Expl. 3, 387-388.

5. Hoffman, S.J. and Fletcher, W.K., 1976

   Reconnaissance lake sediment geochemistry over the Nechako Plateau, B.C.
   In press, J. Geoch. Expl.

6. Hoffman, S.J., 1976

   Talus fine sampling - an alternative to drainage surveys in mountainous terrain.
   In preparation, (presented at the GAC Symposium, Vancouver, February 1976).

7. Hoffman, S.J., Arnold, P.M. and Zink, E.W., 1976

   Rapid field determination of copper by anodic stripping voltammetry (ASV).
   In press, Encyclopedia of Earth Sciences

8. Hoffman, S.J., 1976

Lake sediment geochemistry.
In press, Encyclopedia of Earth Sciences.

9. Hoffman, S.J. and Fletcher, W.K., 1976

Detailed lake sediment sampling of anomalous lakes on the Nechako Plateau, central British Columbia - Comparison of trace metal distributions in Capoose and Fish Lakes.
In preparation.

10. Hoffman, S.J. and Fletcher, W.K., 1976

Sequential extraction of copper, zinc, iron, manganese and molybdenum from lake sediments.
In preparation.

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Vancouver, B.C.

REFERENCE INV-#'S 3773,74,75,6601,02,03,04,05.

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| 1.3 HOURS V.I.H. Fuel @ $ 17.25 PER HR. | 22.43 |
| ____ HOURS V.I.H. FUEL @ $ ____ PER HR. | |
| MINIMUM CHARGES (IF APPLICABLE) | |
| CREW EXPENSES PILOT: HOTEL APR.27/75 | 14.70 |
| MEALS | 28.00 |
| ADDITIONAL CHARGES 109 GALS.JP4 | 75.21 |
| RECEIPTS ATTACHED | |
| APPROVED FOR PAYMENT | |
| CHARGE 80017 | |
| DATE MAY 20 1975 INITIAL CHARGES | $ 8,390.34 |

TERMS: 30 DAYS NET

*Interest at 1½% per month (18 per cent per annum) charged on overdue accounts.*

This company complies with the CODE OF ETHICS of the Helicopter Association of America.

GEOPHYSICAL CONTRACTORS & CONSULTANTS

5305 E. GEORGIA,
BURNABY 2, B.C.
V5B - 1V3

JULY 31, 1975.

BP MINERALS LIMITED,
1199 WEST PENDER STREET,
VANCOUVER, B.C.
V6E 2R1

ATTENTION: D.K. MUSTARD,
REGIONAL EXPLORATION MANAGER

RE: Airborne Magnetometer Survey
Near Oslinka River and Tutizzi
Lake.

As per Item 2 (e) of our Aeromagnetic Agreement dated March 14, 1975 the following items have been delivered to BP MINERALS at your Vancouver Office:

i) contoured isomagnetic maps on a scale of 1" = ½ mile with a 20 gamma contour interval showing all recovered flight paths.
ii) data maps with all magnetic values employed in plotting the isomagnetic maps shown in their respective position along recovered flight lines on a scale of 1" = ½ mile.
iii) all analogue and photographic records.
iv) an outline of data gathering and processing procedure incorporated into a report suitable for Government assessment filing.

As per item 6 of said contract the following payment is now due:

a) Rental of Scintrex MAP-2 Airborne Magnetometer System complete with Operator-Engineer @ $300.00 per day.
April 25,26,27,28,29,30,
May 1,2,3,4,5.
11 days ..... $3,300.00
b) Data Reduction by Al Trachsler
773 line miles @ $5.00 per mile... $3,865.00
c) Morrison & DePaoli navigation, supervision and consulting
21 days @ $150.00 per day..... $3,150.00

cont.

d) Living and Travelling expenses for 2 men.
6 days at $45.00 per day..... $270.00

e) Mobilization Charge for airborne geophysical equipment and operator from Toronto. ..... $1,100.00

TOTAL COST .... $11,685.00

LESS DEPOSIT UPON COMPLETION OF FLYING ..... $7,000.00

BALANCE OUTSTANDING AND PAYABLE ..... $4,685.00

We have enjoyed working on this project and it has been my pleasure to analyse and interpret the results of the survey in conjunction with BP Personnel.

We hope that we can be of service in the future.

Yours very truly,

MORRISON & DEPAOLI,

Gary DePaoli

G.M. DEPAOLI,
GEOPHYSICIST, B.Sc.

GMD/gmd.

APPROVED FOR PAYMENT
CHARGE 80017
DATE AUG 8 1975 INTLS

Department of Mines and Petroleum Resources
ASSESSMENT REPORT NO. 5896 MAP #3

B P MINERALS LTD.

VEGA CREEK

ORTHOPHOTO MAP

McElhanney Surveying & Engineering Ltd.
1200 West Pender Street Vancouver B.C. Canada

| | |
|---|---|
| Scale | 1" = 1000' |
| Contour Interval | 50 feet |
| Date | JUNE 1975 |
| Job No. | 06041-4 |
| Sheet No. | 2 of 2 |

FIG. 3

KEY MAP

5896 M-3

L 240 N

L 232 N

L 224 N

L 216 N

L 208 N

L 200 N

L 176 N

L 168 N

L 160 N

L 152 N

L 144 N

L 136 N

L 128 N

L 120 N

L 144 E

L 194 E

L 224 E

BEG CLAIMS

N

SCALE

0 500 1000 METERS

0 1000 2000 3000 FEET

Department of
Mines and Petroleum Resources
ASSESSMENT REPORT

NO. 5896 MAP #4

BP Minerals Limited

# GROUND MAGNETOMETER SURVEY

## BEG CLAIMS (south)

VEGA CREEK, OMINECA M.D., B.C.

| | | | |
|---|---|---|---|
| SCALE 1" = 1000' | | NTS 94 C-3 | FIG. 4 |
| DRAWN 76-22 | DATE MARCH, 1976 | PROJ. 505 | |

To accompany report:

L 232 N

L 216 N

L 200 N

L 144 E

L 194 E

L 224 E

L 168 N

L 152 N

L 136 N

L 120 N

BEG CLAIMS

**Department of**
**Mines and Petroleum Resources**
**ASSESSMENT REPORT**

NO. 5896 MAP #5

SCALE

0 500 1000 METERS

0 1000 2000 3000 FEET

BP Minerals Limited

# GROUND MAGNETOMETER SURVEY CONTOUR MAP

## BEG CLAIMS (south)

VEGA CREEK, OMINECA M.D., B.C.

| | | | |
|---|---|---|---|
| SCALE 1" = 1000' | | NTS 94 C-3 | FIG. 5 |
| DRAWN 76-23 | DATE MARCH, 1976 | PROJ. 505 | |
| To accompany report: | | | |

BP Minerals Limited

# STREAM-SEDIMENT LOCATION MAP

## BEG AND RON CLAIMS
## VEGA CREEK, OMINECA M.D., B.C.

| | | | |
|---|---|---|---|
| SCALE: 1" = 1000' | | NTS: 94 C 3 | FIG. 6 A |
| DRAWN | DATE: OCT. 23, 1975 | PROJ.: 505 | |

To accompany report: Geological - Geochemical - Geophysical Report on BEG Claims, Vega Creek, by D.K. Mustard, P Eng.

1000 0 1000 2000 3000

SCALE - FEET

**LEGEND**

Department of Mines and Petroleum Resources
ASSESSMENT REPORT
NO. 5896 MAP #6

1975 SAMPLING

1975 SAMPLING

L-168 N
L-152 N
L-136 N
L-240 N
L-232 N
L-224 N
L-216 N
L-208 N
L-200 N
L-384 N
L-368 N
L-352 N
L-336 N
L-328 N
L-296 N
L-264 N
L-448 N
L-440 N
L-432 N
L-424 N
L-144 E
L-160 E
L-176 E
L-192 E
L-208 E
L-224 E
140,000E
145,000E
150,000E
160,000 N
155,000 N
150,000 N
145,000 N
140,000 N
135,000 N
28°

BP Minerals Limited

# STREAM - SEDIMENT MOLYBDENUM

## BEG AND RON CLAIMS
## VEGA CREEK, OMINECA M.D., B.C.

| | | | |
|---|---|---|---|
| SCALE: 1"= 1000' | | NTS: 94 C 3 | FIG. 6 B. |
| DRAWN | DATE: OCT. 23, 1975 | PROJ.: 505 | |

To accompany report: Geological - Geochemical - Geophysical Report on BEG Claims, Vega Creek, by D.K. Mustard, P. Eng.

1000 0 1000 2000 3000

SCALE - FEET

Department of Mines and Petroleum Resources
ASSESSMENT REPORT
NO. 5896 MAP #7

1974
LEGEND

PPM Mo

| | |
|---|---|
| <1 | · |
| 1-2 | • |
| 2-3 | • |
| 3-4 | ⊕ |
| 4-5 | ⊗ |
| 5-6 | ⊗ |
| >6 | ⊗ |

1975
LEGEND

PPM Mo

| | |
|---|---|
| <1 | · |
| 1-2 | • |
| 2-3 | • |
| 3-4 | • |
| 4-5 | • |
| 5-6 | ⊗ |
| >6 | ⊗ |

1975 SAMPLING

L-448N L-440N L-432N L-424N L-400N L-384N L-368N L-352N L-336N L-328N L-296N L-264N L-240N L-232N L-224N L-216N L-208N L-200N L-168N L-152N L-136N

BL-100E L-116E L-144E L-160E L-176E L-192E L-208E L-224E

160,000N 155,000N 150,000N 145,000N 140,000N 135,000N 140,000E 145,000E 150,000E

28°

BP Minerals Limited

# STREAM-SEDIMENT COPPER

## BEG AND RON CLAIMS
## VEGA CREEK, OMINECA M.D., B.C.

| | | | |
|---|---|---|---|
| SCALE: 1"= 1000' | | NTS: 94 C 3 | FIG. 6 C |
| DRAWN | DATE: OCT. 23, 1975 | PROJ.: 505 | |

To accompany report: Geological - Geochemical - Geophysical Report on BEG Claims, Vega Creek, by D.K. Mustard, P. Eng.

1000 0 1000 2000 3000

SCALE - FEET

Department of Mines and Petroleum Resources
ASSESSMENT REPORT
NO. 5896 MAP #8

1974 LEGEND

| PPM Cu | |
|---|---|
| <31 | |
| 31-46 | • |
| 46-68 | ▪ |
| 68-100 | ⊕ |
| 100-148 | ⊛ |
| 148-296 | ✳ |
| >296 | ✺ |

1975 LEGEND

| PPM Cu | |
|---|---|
| <31 | |
| 31-46 | • |
| 46-68 | • |
| 68-100 | • |
| 100-148 | • |
| 148-296 | ⊛ |
| >296 | ⊛ |

1975 SAMPLING

1975 SAMPLING

L-448N L-440N L-432N L-424N L-400N L-384N L-368N L-352N L-336N L-328N L-296N L-264N L-240N L-232N L-224N L-216N L-208N L-200N L-168N L-152N L-136N

L-100E L-116E L-144E L-160E L-176E L-192E L-208E L-224E

160,000N 155,000N 150,000N 145,000N 140,000N 135,000N

140,000E 145,000E 150,000E

28°

BP Minerals Limited

# STREAM SEDIMENT ZINC

## BEG AND RON CLAIMS
## VEGA CREEK, OMINECA M.D., B.C.

| | | | |
|---|---|---|---|
| SCALE: 1"= 1000' | | NTS: 94 C 3 | FIG. 6D |
| DRAWN | DATE: OCT. 23, 1975 | PROJ.: 505 | |

To accompany report: Geological - Geochemical - Geophysical Report on BEG Claims, Vega Creek, by D.K. Mustard, P. Eng.

1000 0 1000 2000 3000

SCALE - FEET

Department of Mines and Petroleum Resources
ASSESSMENT REPORT
NO. 5896 MAP #9

1975 LEGEND

PPM Zn

| | |
|---|---|
| <62 | |
| 62-75 | |
| 75-91 | |
| 91-110 | |
| 110-134 | |
| 134-268 | |
| >268 | |

1974 LEGEND

PPM Zn

| | |
|---|---|
| <62 | |
| 62-75 | |
| 75-91 | |
| 91-110 | |
| 110-134 | |
| 134-268 | |
| >268 | |

1975 SAMPLING

1975 SAMPLING

L-448N L-440N L-432N L-424N L-400N L-384N L-368N L-352N L-336N L-328N L-296N L-264N L-240N L-232N L-224N L-216N L-208N L-200N L-168N L-152N L-136N

L-100E L-116E L-144E L-160E L-176E L-192E L-208E L-224E

160,000N 155,000N 150,000N 145,000N 140,000N 135,000N

160,000E 165,000E 170,000E 175,000E 180,000E 185,000E 190,000E 195,000E 200,000E 205,000E

28°

BP Minerals Limited

# SOIL LOCATION MAP

## BEG AND RON CLAIMS
## VEGA CREEK, OMINECA M.D., B.C.

| | | | |
|---|---|---|---|
| SCALE: 1"= 1000' | | NTS: 94 C 3 | FIG. 7 A. |
| DRAWN | DATE: OCT. 23, 1975 | PROJ.: 505 | |

To accompany report: Geological - Geochemical - Geophysical Report on BEG Claims, Vega Creek, by D.K. Mustard, P Eng.

1000 0 1000 2000 3000

SCALE - FEET

Department of
Mines and Petroleum Resources
ASSESSMENT REPORT
NO. 5896 MAP #10

LEGEND

1975 SAMPLING

L-448N L-440N L-432N L-424N L-416N L-400N L-384N L-368N L-352N L-336N L-328N L-296N L-264N L-240N L-232N L-224N L-216N L-208N L-200N L-168N L-152N L-136N

L-100E L-116E L-132E L-144E L-160E L-176E L-192E L-208E L-224E

160,000N 155,000N 150,000N 145,000N 140,000N 135,000N

140,000E 145,000E 150,000E

28°

BP Minerals Limited

# Mo IN SOILS

## BEG AND RON CLAIMS
## VEGA CREEK, OMINECA M.D., B.C.

| | | | |
|---|---|---|---|
| SCALE: 1"= 1000' | | NTS: 94 C 3 | FIG. 7 B |
| DRAWN | DATE: OCT. 23, 1975 | PROJ.: 505 | |

To accompany report: Geological - Geochemical - Geophysical Report on BEG Claims, Vega Creek, by D.K. Mustard, P. Eng.

1000 0 1000 2000 3000

SCALE - FEET

**Department of Mines and Petroleum Resources**
**ASSESSMENT REPORT**
NO. 5896 MAP #11

## LEGEND

(TYPE=50).PPM.Mo

| | |
|---|---|
| <1 | · |
| 1-2 | · |
| 2-3 | · |
| 3-4 | · |
| 4-5 | ⊛ |
| 5-7 | ⊛ |
| >7 | ⊛ |

L-448N L-440 L-432 L-424 L-416 N L-400N L-384N L-368 N L-352 N L-336 N L-328 N L-296 N L-264 N L-240 N L-232 N L-224 N L-216 N L-208 N L-200 N L-168 N L-152 N L-136 N

BL-100 E L-116 E L-132 E L-144 E L-160 E L-176 E L-192 E L-208 E L-224 E

140,000 E 145,000 E 150,000 E 135,000 N 150,000 N 155,000 N 160,000 N

28°

BP Minerals Limited

# Cu IN SOILS

## BEG AND RON CLAIMS
## VEGA CREEK, OMINECA M.D., B.C.

| | | | |
|---|---|---|---|
| SCALE: 1"= 1000' | | NTS: 94 C 3 | FIG. 7 C |
| DRAWN | DATE: OCT. 23, 1975 | PROJ.: 505 | |

To accompany report: Geological - Geochemical - Geophysical Report on BEG Claims, Vega Creek, by D.K. Mustard, P. Eng.

1000 0 1000 2000 3000

SCALE - FEET

**Department of**
**Mines and Petroleum Resources**
**ASSESSMENT REPORT**

NO. 5896 MAP #12

## LEGEND

(TYPE=50).PPM.CU

| | |
|---|---|
| <23 | · |
| 23-36 | • |
| 36-55 | • |
| 55-87 | • |
| 87-135 | ⊛ |
| 135-270 | ⊛ |
| >270 | ⊛ |

160,000 N
155,000 N
150,000 N
145,000 N
140,000 N
135,000 N

140,000 E
L-100 E
L-116 E
L-132 E
L-144 E
L-160 E
L-176 E
L-192 E
L-208 E
L-224 E

L-448N
L-440 N
L-432 N
L-424 N
L-416 N
L-400 N
L-384 N
L-368 N
L-352 N
L-336 N
L-328 N
L-296 N
L-264 N
L-240 N
L-232 N
L-224 N
L-216 N
L-208 N
L-200 N
L-168 N
L-152 N
L-136 N

28°

BP Minerals Limited

# Pb IN SOILS

## BEG AND RON CLAIMS
## VEGA CREEK, OMINECA M.D., B.C.

| | | | |
|---|---|---|---|
| SCALE: 1"= 1000' | | NTS: 94 C 3 | FIG. 7 D. |
| DRAWN | DATE: OCT. 23, 1975 | PROJ.: 505 | |

To accompany report: Geological - Geochemical - Geophysical Report on BEG Claims, Vega Creek, by D.K. Mustard, P. Eng.

1000 0 1000 2000 3000

SCALE - FEET

Department of
Mines and Petroleum Resources
ASSESSMENT REPORT
NO. 5896 MAP #13

## LEGEND

74505050PB

| | |
|---|---|
| <16 | |
| 16-19 | • |
| 19-23 | • |
| 23-28 | • |
| 28-34 | ⊛ |
| 34-68 | ⊛ |
| >68 | ⊛ |

L-448N L-440N L-432N L-424N L-416N L-400N L-384N L-368N L-352N L-336N L-328N L-296N L-264N L-240N L-232N L-224N L-216N L-208N L-200N L-168N L-152N L-136N

L-100E L-116E L-132E L-144E L-160E L-176E L-192E L-208E L-224E 140,000E 145,000E 150,000E

160,000N 155,000N 150,000N 145,000N 140,000N 135,000N 60,000N

28°

Pb

BP Minerals Limited

# Zn IN SOILS

## BEG AND RON CLAIMS
## VEGA CREEK, OMINECA M.D., B.C.

| | | | |
|---|---|---|---|
| SCALE: 1"= 1000' | | NTS: 94 C 3 | FIG. 7 E. |
| DRAWN | DATE: OCT. 23, 1975 | PROJ.: 505 | |

To accompany report: Geological - Geochemical - Geophysical Report on BEG Claims, Vega Creek, by D.K. Mustard, P. Eng.

1000 0 1000 2000 3000

SCALE - FEET

Department of
Mines and Petroleum Resources
ASSESSMENT REPORT
NO. 5896 MAP # 14

## LEGEND

74S05050ZN

| | |
|---|---|
| <53 | |
| 53-72 | · |
| 72-98 | • |
| 98-133 | • |
| 133-182 | ⊛ |
| 182-364 | ⊛ |
| >364 | ⊛ |

L-448N L-440N L-432N L-424N L-416N L-400N L-384N L-368N L-352N L-336N L-328N L-296N L-264N L-240N L-232N L-224N L-216N L-208N L-200N L-168N L-152N L-136N

L-100E L-116E L-132E L-144E L-160E L-176E L-192E L-208E L-224E

160,000N 155,000N 150,000N 145,000N 140,000N 135,000N

140,000E 145,000E 150,000E

N 28°

BP Minerals Limited

# pH IN SOILS

## BEG AND RON CLAIMS
## VEGA CREEK, OMINECA M.D., B.C.

| | | | |
|---|---|---|---|
| SCALE: 1"= 1000' | | NTS: 94 C 3 | FIG. 7 F |
| DRAWN | DATE: OCT. 23, 1975 | PROJ.: 505 | |

To accompany report: Geological - Geochemical - Geophysical Report on BEG Claims, Vega Creek, by D.K. Mustard, P. Eng.

1000 0 1000 2000 3000

SCALE - FEET

Department of
Mines and Petroleum Resources
ASSESSMENT REPORT
NO. 5896 MAP #15

LEGEND

(TYPE=50)&(PH>00).PH

| | |
|---|---|
| <38 | ⊛ |
| 38-44 | ⊗ |
| 44-49 | ● |
| 49-55 | • |
| 55-61 | • |
| 61-66 | • |
| >66 | |

N

28°

L-448N L-440N L-432N L-424N L-416N L-400N L-384N L-368N L-352N L-336N L-328N L-296N L-264N L-240N L-232N L-224N L-216N L-208N L-200N L-168N L-152N L-136N

BL-100E L-116E L-132E L-144E L-160E L-176E L-192E L-208E L-224E

140,000E 145,000E 150,000E

160,000N 155,000N 150,000N 145,000N 140,000N 135,000N