'80-#240-# 8026

ASSESSMENT GEOLOGICAL REPORT

ON

MAC CLAIM GROUP

NTS 92I/9E

Lat. 50°42'N Long. 120°06'

KAMLOOPS MINING DIVISION

BRITISH COLUMBIA

May 16, 1980

OWNER: JOHN KRUZICK

OPERATOR: MIDNAPORE OIL COMPANY LTD.

Grant Crooker
Westridge Enterprises Ltd.
Coquitlam, B.C.

MINERAL RESOURCES BRANCH
ASSESSMENT REPORT
8026
NO.

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VLF-EM REPORT BY PETER WALCOTT
- INTERPRETATION

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2 Claim Geology, 1:5,000.....[In Pocket]

3 Detailed Geology, 1:1,200.....[In Pocket]

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SUMMARY AND RECOMMENDATIONS

The MAC Claim covers six units in the Kamloops Mining Division. The property is under option to Midnapore Oil Company Ltd.

Mineralization on the property consists of veins and stringers of quartz and calcite within a wide shear zone. The shear zone has been traced on surface for approximately 240 metres by means of trenches, a shaft and an adit. Width of the shear zone is approximately 50 meters.

Ministry of Mines Reports mention several shipments of ore from the property. These shipments include 3 tons of 0.5 oz gold/ton, and "2 carloads of sorted and shipped ore assaying 0.37 oz gold/ton and 3 oz silver/ton."

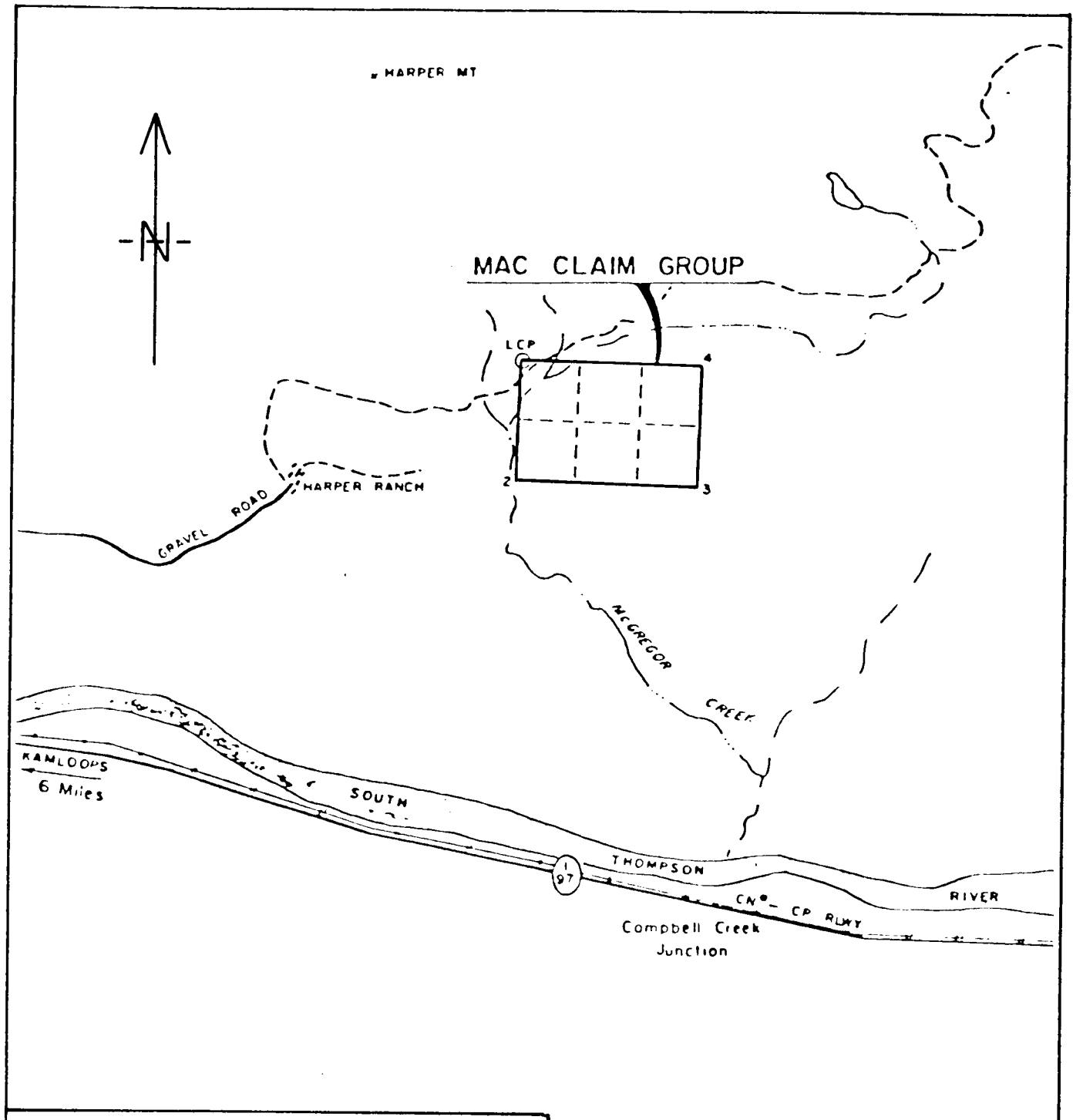
Higher grade mineralization would appear to be spotty, but the large structure has the possibility of developing a significant tonnage of a lower grade material.

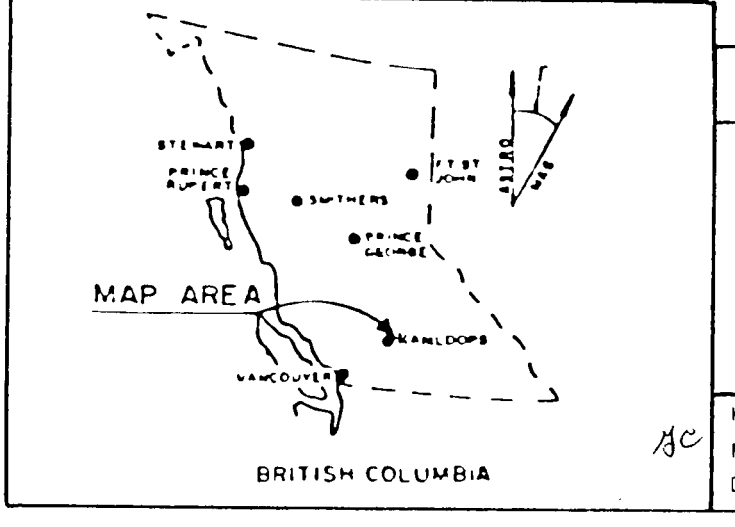
INTRODUCTION

Field work on the property was conducted by Grant Crooker, Geologist, from April 15 to April 30, 1980.

The MAC Claim was geologically mapped at a scale of 1:5,000. The immediate area of the shear zone was mapped at a scale of 1:1,200, and some sampling was carried out along the mineralized zone.

An orientation VLF-EM survey was also carried out over the claim.





MIDNAPORE OIL CO. LTD.

LOCATION MAP
MAC CLAIM GROUP

0 100 200 300 METRES

KAMLOOPS M.D., B.C.
N.T.S. 92I/9W
DRAWN BY G. CROOKER

DATE: APRIL 1980
FIGURE Nº. 1

WESTRIDGE ENTERPRISES LTD.

Location and Access

The property is located 17 kilometers east of Kamloops and 4 kilometers north of the South Thompson River [Figure 1] in the Kamloops Mining Division [92I/9W].

Elevation of the property ranges from 1,800 feet to 2,800 feet above sea level.

Access is from Highway #5, east along a good gravel road on the north side of the South Thompson River to the Harper Ranch. From the Harper Ranch a dry weather road to Pinanton Lake leads to the property [Figure 1].

Physiography and climate

The topography of the claim area consists of rolling hills. Bunchgrass, Sagebrush and a few Pine trees cover the hills. Several streams and a number of dry gullies cut across the claim.

The climate in the area is semi-arid with hot, dry summers and moderately cold winters.

Property and Claim Status

The property consists of one mineral claim of six units. The claim was staked on June 21, 1975.

Claim	Record No.	Expiry Date
MAC	66[7]	July, 1981

The property is held under option-to-purchase by Midnapore Oil Company Ltd.

History and Previous Work

The claim area was originally known as the Kamloops Goldfields property.

Ministry of Mines Reports for 1913, 1914, and 1932 mention small shipments of ore sent to the smelter.

A 3-ton shipment of ore made to the smelter in 1913 averaged approximately 0.50 ounces gold per ton.

A few tons of ore shipped during 1932 averaged 0.84 ounces gold and 4.60 ounces silver per ton.

G.S.C. Memoir #249 by W.E. Cockfield describes the claim area in more detail. He states that:

> " In 1936 it was prospected by D.B. Sterritt of Kamloops, and associates, and about 3 tons of ore running 0.5 ounces of gold a ton was shipped to the Trail Smelter. The property was worked under lease by Gordon E. Dickson of Kamloops during the winter of 1940-41 and about two carloads of ore were sorted and shipped which assayed 0.37 ounces gold and 3.0 ounces silver. "

More recent work includes geological mapping of the mineralized area by McLeod Copper in 1975, and a reconnaissance geochemical survey by West Provident Resources in 1978.

Exploration Procedure

The field program consisted of mapping the claim at a scale of 1:5,000, mapping the mineralized zone at a scale of 1:500 and 1:50 and rock sampling in several trenches.

A grid was placed over the mineralized zone with an east-west baseline. The lines were 30 meters apart in the immediate showing area, and 60 meters apart away from the showing, with stations every 10 meters along the lines. An orientation VLF-Electromagnetic Survey was carried out over the established grid.

The samples were analyzed by Min-En Laboratories Ltd. of North Vancouver, B.C.

GEOLOGY

Regional Geology

The claim area, according to GSC Map #88A [Nicola] is underlain by the Cache Creek group of Paleozoic age. This group consists of argillite, quartzite, breccia, greenstone and limestone.

A small outcrop of Coast Intrusive is shown to the northwest of the MAC Claim.

Claim Geology [Refer to Figure 2]

The MAC Claim is underlain by a grey to grey-green chert breccia [Figures 2, 3]. The breccia is composed of fragments of grey or green chert, argillite and quartzite in a fine grained siliceous matrix. The fragments are generally 2 to 50 millimeters in diameter, although larger

fragments are occasionally found. Occasionally small sections of argillite or chert are associated with the breccia.

is often found on the fractures and pyrite is occasionally found on the fractures or disseminated within the breccia.

One small outcrop of fine grained pink granite was found in the southwest corner of the claim. The outcrop is probably related to the Coast Intrusion to the north of the claim, but lack of outcrop prevents determination of the extent of the intrusive.

Mineralization [Refer to Figure 3]

Mineralization consists of quartz veins and quartz stringer zones within one or more shear zones. The quartz veins in general have an easterly strike and a moderate southerly dip.

Trench 'B' exposes a quartz vein which strikes east-west and dips between 40^{o} and 50^{o} to the south. The vein varies in width from 0.4 to 1.0 meter and is white with rusty staining. Disseminations of pyrite crystals are found on the surface, and these crystals occasionally weather out leaving vuggy cavities. Minor malachite and chalcopyrite were also found.

A 120 meter long cut has been made from trench 'B' to a shaft at the top of the hill. Several quartz veins and stringers outcrop along the cut. These generally strike east-west and dip at 45^{o} to 55^{o} to the south.

The shaft has been sunk on a shear zone containing veining and silicification. The shaft is not accessible at this time. However, a 30 cm wide hangingwall vein appears to strike east-west and dip at 70° to the south.

A 50 cm wide footwall vein appears to strike east-west and dip at 55° to the south.

To the southwest of the shaft a number of trenches and an adit have traced the shear zone.

At the adit several quartz veins strike ENE and dip at 45° to the south. Between the veins are a number of quartz stringers which form a stockwork-like structure. The stockwork occurs over 2 to 3 meters. The quartz and wall rock are rusty, with the veins containing some pyrite.

Trench M exposes a 40 cm wide white quartz vein striking NNE and dipping 45° to the south. This vein contains minor rust.

Trench N exposes a 1.2 m wide ENE trending zone of rusty, crushed quartz. The material is heavily fractured and contains some calcite and quartz vein material. A rusty quartz stringer zone is observed on the hanging wall side of the shear zone.

Most of the trenches are sloughed in at this time, and cannot be properly sampled or mapped.

GEOPHYSICS

A VLF-EM survey was carried out over the MAC Claim. A Geotronics Model G28 VLF-EM receiver was used, with Grant Crooker the operator. This receiver operated on 18.6 KH2, and station NPG Jim Creek, Washington was used for the source of the signal.

Mr. Peter Walcott, Professional Engineer, of Peter E. Walcott and Associates Ltd., has prepared an interpretation of this survey, which is included in the Appendix of this report.

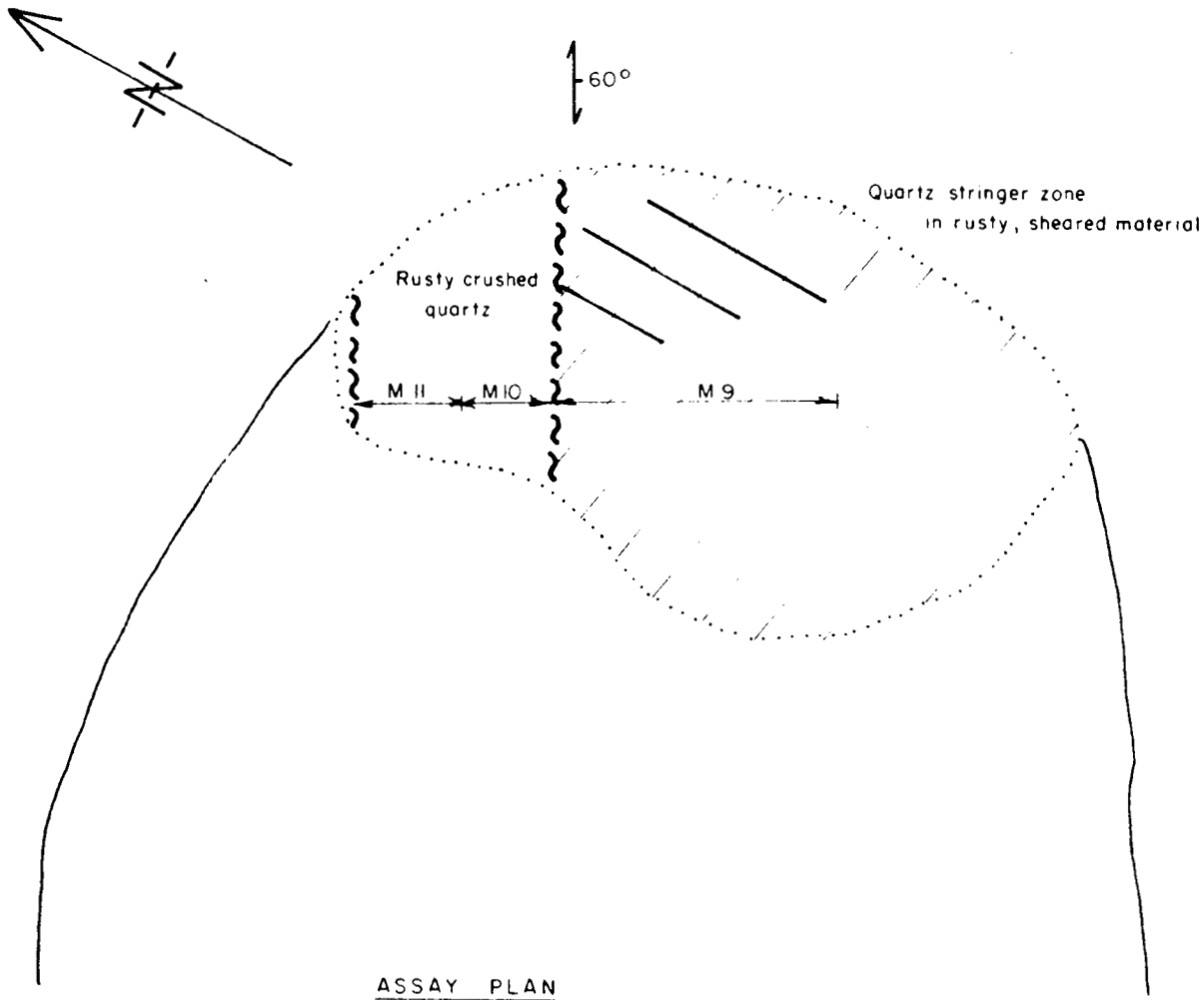
SAMPLING

[Refer to Figures 4 & 5]

A total of 11 rock samples were taken within the mineralized zone. Results of the sampling are as follows: [34 ppb = 0.001 oz/ton, 34 ppm = 0.1 oz/ton]

Sample No.	Description	Au [ppm]	Ag [ppm]	Cu [ppm]
M-2	.5 m chip, quartz	790	57.8	595
M-3	.4 m chip, quartz	1,075	40.2	142
M-4	1.7 m chip, shear	45	2.5	25
M-5	1.3 m chip, shear	35	1.7	19
M-6	.5 m chip, quartz	3,400	43.0	10
M-7	.4 m chip, quartz	1,650	7.1	8
M-8	Grab, shear	210	2.2	14
M-9	1.8 m chip, quartz shear	725	5.6	12
M-10	.6 m chip, crushed quartz	445	6.7	26
M-11	.6 m chip, crushed quartz	750	4.5	15
M-12	.4 m chip, quartz	510	2.6	4

Gold values varied from 35 to 3,400 ppb [0.001 to 0.10 oz/ton] while silver varied from 2.2 to 57.8 ppm [0.06 to 1.7 oz/ton]. Copper values were not significant. Four of the high rock geochemical values were checked by assaying, which are included in the Appendix of this report.



ASSAY PLAN

Sample#	Width,m	Ag,ppm	Au,ppb	Cu,ppm	Material
M 9	1.8	5.6	725	12	Quartz stringers & shear
M 10	0.6	6.7	445	26	Crushed quartz
M 11	0.6	4.5	750	15	Crushed quartz

LEGEND

- Rusty, sheared zone
- Quartz stringers
- Shear zone
- 60° Strike & dip of crushed zone
- Outcrop boundary

MIDNAPORE OIL CO. LTD.

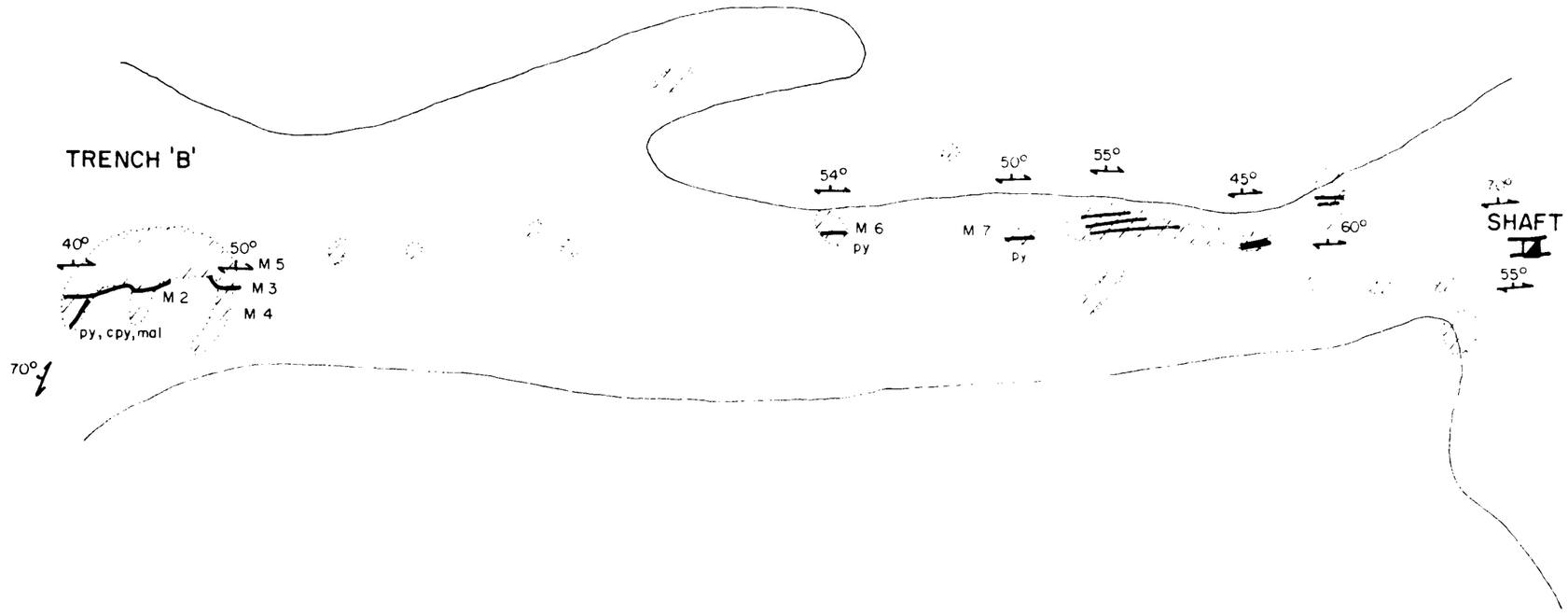
GEOLOGY & SAMPLE PLAN
TRENCH 'N'

0 1 2 3 METRES

KAMLOOPS M.D., B.C.
N.T.S. 92I/9W
DRAWN BY G. CROOKER

DATE APRIL 1980
FIGURE Nº. 5

WESTRIDGE ENTERPRISES LTD.



LEGEND

- Rusty, weathered sheared zone
- Quartz veining
- 55° Strike & dip of quartz vein
- Outcrop boundary
- py Pyrite
- cpy Chalcopyrite
- mal Malachite

ASSAY PLAN

Sample #	Width, m	Ag, ppm	Au, ppb	Cu, ppm	Material
M 2	0.5	57.8	700	595	Vein
M 3	0.4	40.2	1075	142	Vein
M 4	1.7	2.5	45	25	Shear
M 5	1.3	1.7	35	19	Shear
M 6	0.5	43.0	3400	10	Vein
M 7	0.4	7.1	1650	8	Vein

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MIDNAPORE OIL CO. LTD.

GEOLOGY & SAMPLE PLAN
TRENCH 'B'-SHAFT

0 10 20 30 METRES

KAMLOOPS M.D., B.C.
NTS 92 I / 9W
DRAWN BY G. CROOKER

DATE: APRIL 1980
FIGURE Nº. 4

WESTRIDGE ENTERPRISES LTD.

CONCLUSIONS & RECOMMENDATIONS

A shear zone with quartz veins and quartz stringer zones was shown to have a length of at least 240 meters and a width of 50 meters.

Results of sampling demonstrated that the chance of finding a high grade, low tonnage, gold-silver deposit are not great. However, due to the large size of the structure involved, the possibility exists to find a large tonnage, low grade gold-silver deposit.

Recommendations are as follows:

1] All existing sloughed trenches should be retrenched to expose bedrock.

2] Sample all quartz veins, quartz stringer zones and shear zones in detail. Samples should be taken every 1 or 2 meters.

3] If the results of Step 2 are favourable, then diamond drilling should be carried out along the structure.

Respectfully submitted,

Grant Crooker

Grant Crooker, B.Sc.
Geologist

April 30, 1930

REFERENCES

Cockfield, W.E. - Geology of the Nicola Map Area, Memoir #249, 1948.

Elwell, J.P. - Report on the MAC Claim, Kamloops Area, Kamloops Mining Division, B.C., for McLeod Copper Ltd., July 14th, 1975.

Elwell, J.P. - Geochemical Report on the MAC Claim, Kamloops Mining Division, B.C., for West Provident Resources Ltd., April 28, 1978, Assessment Report No. 6817.

CERTIFICATE OF QUALIFICATIONS

I, Grant F. Crooker, B.Sc., Geology, of Box 234, Keremeos, British Columbia, state as follows:

1] That I graduated from the University of British Columbia in 1972 with a Bachelor of Science degree in Geology.

2] That I have prospected and actively pursued geology prior to my graduation and have practiced my profession since 1972.

3] That I am a member of the Canadian Institute of Mining and Metallurgy.

4] That I am employed by Westridge Enterprises Ltd., 2000 Arbury Avenue, Coquitlam, B.C.

DATED at Vancouver, British Columbia this 30th day of April, 1980.

Grant Crooker

Grant Crooker, B.Sc.
Geologist

COST STATEMENT

1.	Salaries: Geologist - May 15 - May 30, 1980 12 days @ $200/day		$2,400.00
	VLF-EM Operator - May 20 - May 23, 1980 4 days @ $150/day		600.00
2.	Accommodation and Meals		421.64
3.	Transportation - Truck Rental & Fuel Air Fare	242.05 43.90	285.95
4.	Rock Geochemical Analysis and Assaying		206.25
5.	Equipment rental, supplies and freight		309.71
6.	Geophysicist's Opinion, Map compilation and drafting		300.00
7.	Engineering, report writing, maps, secretarial, reproduction, research, stationary supplies, etc.		1,178.26
	TOTAL		$5,701.81

MIN-EN Laboratories Ltd.

705 WEST 15th STREET,
NORTH VANCOUVER, B.C., CANADA V7M 1T2
TELEPHONE (604) 980-5814

ANALYTICAL REPORT

Project ..... Date of report May 8/80.

File No. 0-153R Date samples received May 2/80.

Samples submitted by: J. Kruzick

Company: Westridge Enterprises

Report on: ..... Geochem samples

..... 4 Assay samples

Copies sent to:

1. Westridge Enterprises, Coquitlam, B.C.
2. .....
3. .....

Samples: Sieved to mesh ..... Ground to mesh .....

Prepared samples stored ☐ discarded ☐

rejects stored ☐ discarded ☐

Methods of analysis: Acid digestion-chemical analysis.

Remarks: Samples run on geochem pulp.

MIN-EN Laboratories Ltd.

705 WEST 15th STREET,
NORTH VANCOUVER, B.C., CANADA V7M 1T2
TELEPHONE (604) 980-5814

ANALYTICAL REPORT

Project ..... Date of report April 30/80.

File No. 0-153 ..... Date samples received April 25/80.

Samples submitted by: John Kruzick

Company: Westridge Enterprises Ltd.

Report on: 11 rocks Geochem samples

Assay samples

Copies sent to:

1. Westridge Enterprises, Coquitlam, B.C.
2.
3.

Samples: Sieved to mesh ..... Ground to mesh -80

Prepared samples stored ☒ discarded ☐

rejects stored ☐ discarded ☒

Methods of analysis: Cu,Ag-nitric,perchloric digestion.A.A.Analysis.
Au-Aqua Regia. A.A.Analysis.

Remarks: Some of these samples should have been assayed.

COMPA Westridge Enterprises

PROJECT No.:

ATTENTION: John Kruzick

GEOCHEMICAL ANALYSIS DATA SHEET

MIN - EN Laboratories Ltd.
705 WEST 15th ST., NORTH VANCOUVER, B.C. V7M 1T2
PHONE (604) 980-5814

No. 0-153

DATE: Apr. 30, 1980.

Sample Number	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ni ppm	Co ppm	Ag ppm	Fe ppm	Hg ppb	As ppm	Mn ppm	Au ppb
M 2		595					*5.78					790
3		142					*4.02					1075
4		25					2.5					45
5		19					1.7					35
6		10					*4.30					3400
7		8					7.1					1650
8		14					2.2					210
9		12					5.6					725
10		26					6.7					445
11		15					4.5					750
M 12		4					2.6					510

*These samples should have been assayed.

MIN-EN LABORATORIES LTD.
705 WEST 15TH STREET
NORTH VANCOUVER, B.C.
Phone: 980-5814

Certificate of Assay

TO: Westridge Enterprises Ltd.,
2000 Arbury Ave.,
Coquitlam, B.C.

Attn: J. Kruzick
PROJECT No.
DATE May 8/80.
File No. 0-153R

SAMPLE No.	Ag oz/ton	Au oz/ton		
M2	1.39	.034		
M3	1.16	.027		
M6	1.17	.103		
M7	0.26	.019		
	N.B. Samples run on geochem pulp.			

MIN-EN Laboratories Ltd.
CERTIFIED BY

At the request of Mr. John Kruzick of Westridge Enterprises Ltd. the writer undertook to review the VLF E.M. data collected by Mr. G. Cooker of the same company using the Geotronics G-28 VLF E.M. unit operating at a frequency of 18.6 kiloherz.

Accordingly the writer, although unfamiliar with this instrument applied the Frazer filter to the dip angle results supplied to him and plotted the results.

As can be seen from this contour map of the data numerous conductors, indicated by positive contour closures, appear to underlie the area surveyed.

On correlation with the known geology, as per the maps supplied by Westridge, the nature of the causative source of three of these conductors is readily apparent as indicated on the E.M. map.

Moreover it would appear from the E.M. data that the mapped shear zone extends at least another 300 metres to the west, and although weaker in response possibly to the extremity of the survey area to the east.

No explanation for the remainder of the conductors is readily apparent from the limited geology available.

Thus the writer recommends that:

(1) Additional geological work be undertaken to investigate the interpreted extension of the mineralized shear zone - the source of the ore found to date on the property, and

(2) Geological investigation be carried out in an effort to ascertain the causative sources of the unexplained conductors.

Respectfully submitted,

Peter E. Walcott, P.Eng.,
Geophysicist

2500

ACCESS ROAD

DETAIL AREA
(See Fig. 3)

py
50°
Sheared zone
quartz veining

75°

py
py
py

S

S
py
56°

2000

2500

ROAD

MAC CLAIM BOUNDARY

LEGEND

- Grey, greygreen chert breccia
- Fine grained, pink granite
- py Pyrite
- Quartz vein
- S Quartz stringer zone
- 45° Strike & dip of quartz vein
- Sheared zone
- Outcrop boundary
- Trench
- Legal corner post
- Stream

Contour interval 100 feet

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MIDNAPORE OIL CO. LTD.

CLAIM GEOLOGY
MAC CLAIM

0 100 200 300 METRES

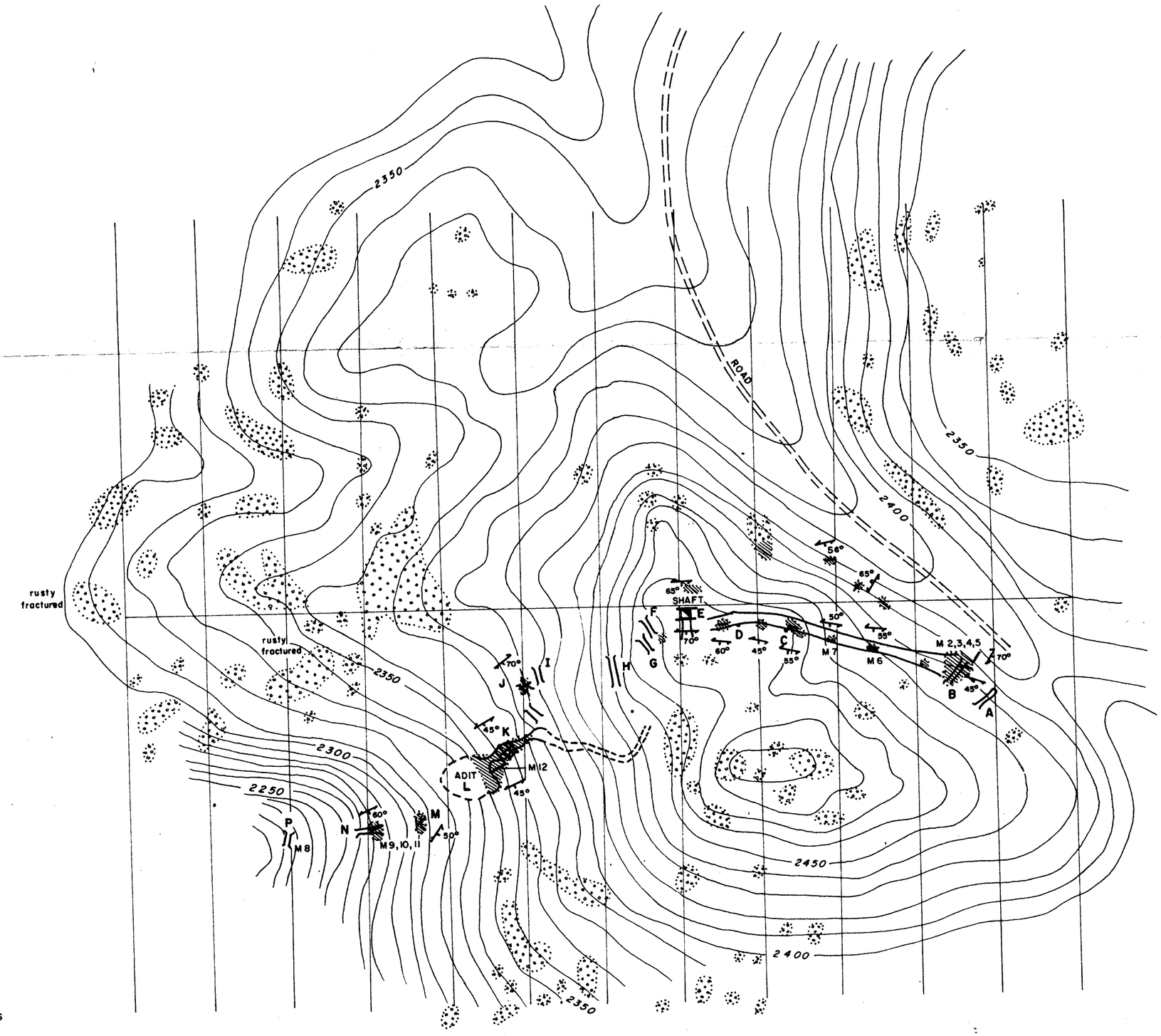
KAMLOOPS M.D., B.C.
N.T.S. 92I/9W
DRAWN BY G. CROOKER

DATE : APRIL 1980
FIGURE Nº. 2

WESTRIDGE ENTERPRISES LTD.

180W 120W 60W 00 60E 120E

150 N
100N
50 N
00
50S
100S
150S



LEGEND

- Grey, grey green chert breccia
- Rusty, weathered shear zone
- Quartz vein, stringers
- Quartz stockwork
- M 2 Rock assay location
- Trench
- 20 Strike & dip of quartz vein
- Outcrop boundary

M8 – 2.2 ppm Ag, 210 ppb Au, 14 ppm Cu
M12 – 2.6 ppm Ag, 510 ppb Au, 4 ppm Cu

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MIDNAPORE OIL CO. LTD.

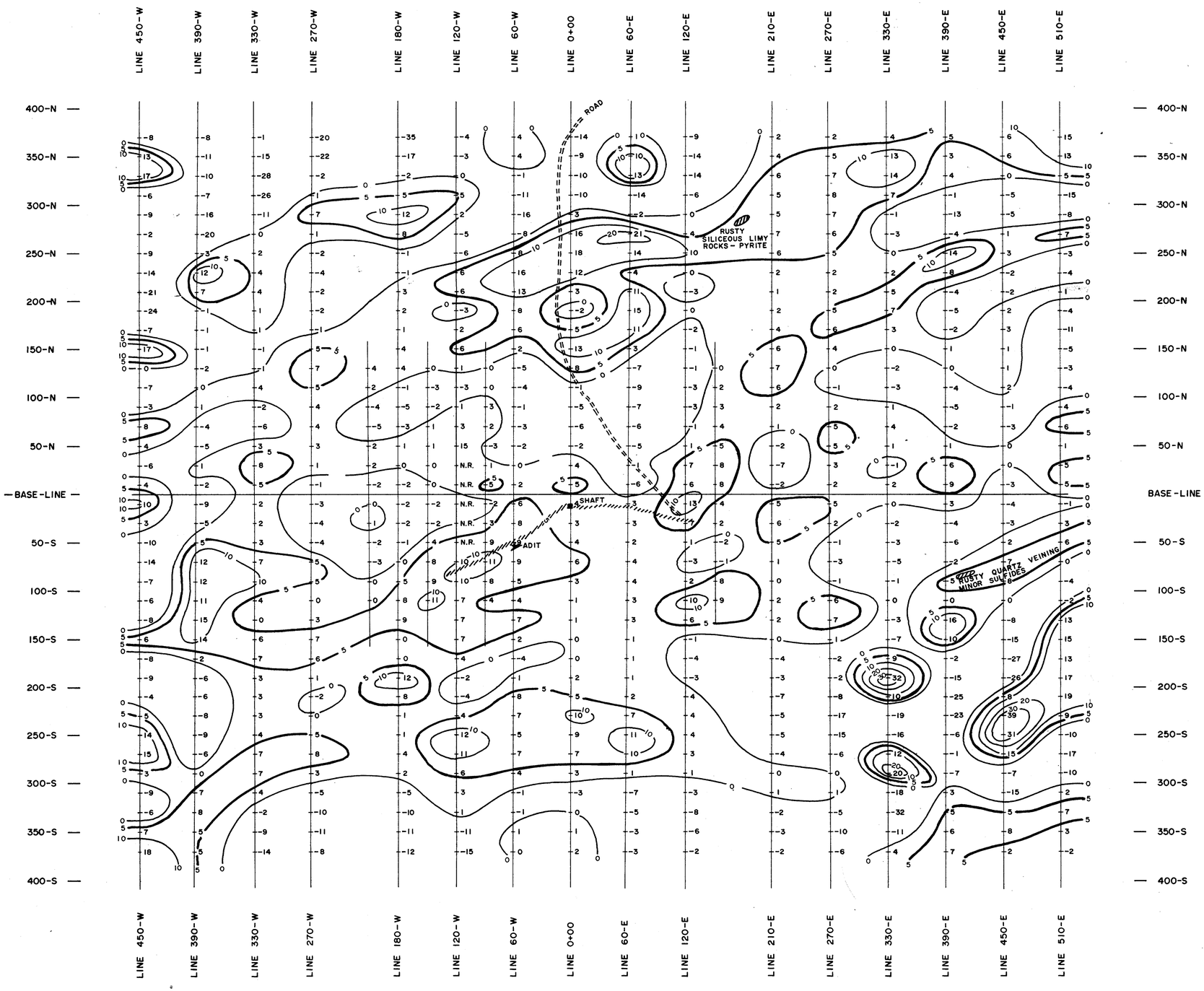
DETAIL GEOLOGY
MAC CLAIM

0 20 40 60 METRES

KAMLOOPS M.D., B.C.
N.T.S. 92 I/9W
DRAWN BY G. CROOKER

DATE : APRIL 1980
FIGURE Nº. 3

WESTRIDGE ENTERPRISES LTD.



MAPPED SHEAR ZONE CONTAINING MINERALIZATION

INSTRUMENT — GEOTRONICS G.28 V.L.F. E.M. UNIT

FREQUENCY — 18.6 K. HERZ.

MINERAL RESOURCES BRANCH
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NO.

MIDNAPORE OIL CO. LTD.

MAC CLAIM GROUP ; KAMLOOPS M.D., B.C.

GEOTRONICS V.L.F.

ELECTROMAGNETIC SURVEY

FRASER FILTERED DIP ANGLE CONTOURS

SCALE 1:2500

KAMLOOPS M.D.
NTS 92 I/9W

WESTRIDGE ENTERPRISES LTD.
MAY — 1980