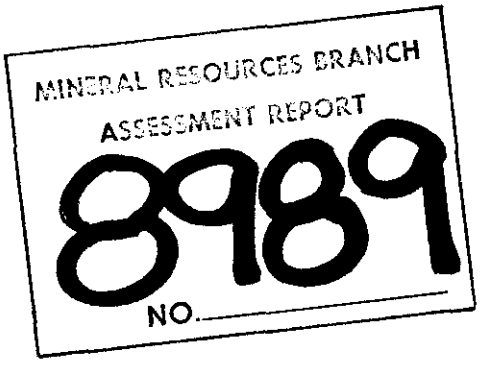
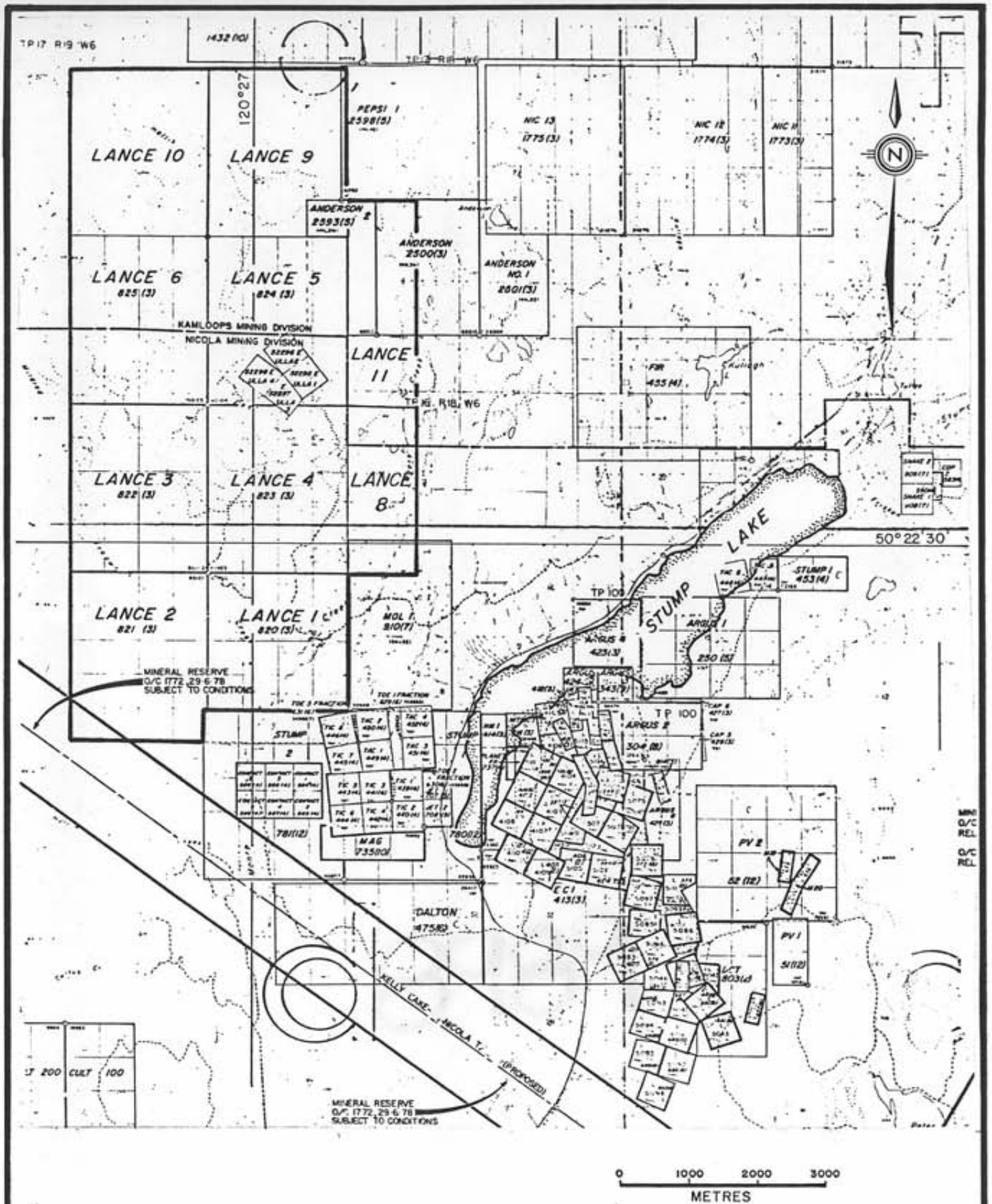
'81-#185-# 8989

GEOPHYSICAL REPORT
on an
Induced Polarization Survey
on behalf of
Dynamic Oil Ltd.

Lance 1-6, 8-11 claims Stump Lake Area
Kamloops and Nicola Mining Divisions B.C.
Lat. 50°22'N Long. 120°27'W N.T.S. 92I8W

AUTHOR: Glen E. White, B.sc., P.Eng.
DATES OF WORK: March 29-April 16, 23-27
May 30-June 2, 6-17, 20-30
July 15-24, August 6-19/80





DYNAMIC OIL LIMITED

LANCE CLAIMS

KAMLOOPS & NICOLA M.D.-B.C.

LOCATION MAP

NTS 92-I-8 W

FIGURE 1

Glen E. White
geophysical consulting
services ltd.

C O N T E N T S

Illustrations

INTRODUCTION

During the months March to August 1980 a program of linecutting and reconnaissance induced polarization surveying was completed on the Lance Mineral claims by Glen E. White Geophysical Consulting & Services Ltd. on behalf of Dynamic Oil Ltd.

The purpose of the survey was to examine an area of granitic rocks which contained spotly showings of copper - molybdenum mineralization. The induced polarization method was used to try and locate any large chargeable source which could possibly relate to the spotly copper - molybdenum mineralization and a possible porphry copper - molybdenum deposit.

PROPERTY

The property consists of the Lance mineral claims listed as follows and illustrated on Figure 1.

CLAIM	RECORD #	# UNITS	RECORD DATE
Lance 1	820	20	March 26/80
Lance 2	821	20	March 26/80
Lance 3	822	20	March 26/80
Lance 4	823	20	March 26/80
Lance 5	824	20	March 26/80
Lance 6	825	20	March 26/80
Lance 8	926	10	August 8/80
Lance 9	2869	20	August 8/80
Lance 10	2870	20	August 8/80
Lance 11	943	12	August 26/80
	Total Units	182	

LOCATION AND ACCESS

The lance mineral claims are located some 5 km northwest of Stump Lake B.C. Lat. 50°22'N Long. 120°27'W N.T.S. 92I 8W.

Access into the claim area is by unimproved forestry access dirt roads from the western side of Stump Lake.

GENERAL GEOLOGY

The general geology of the area is illustrated on the Nicola map sheet, Map 886A, 92I east half. The claim blocks are shown as being underlain by the the Nicola Lake batholith of Jurassic age. Locally the granite batholith encompasses a small area of chlorite schist, quartz-mica schist and amphibolite, which can appear gneissic in composition. The mineral inventory map shows an old copper-molybdenum showing, known as the Brite Star which was located in claim Lance 11.

SURVEY GRID

The survey grid was laid out on a reconnaissance basis with lines spaced 250 m and 500 m apart. The lines are orientated in an east-west direction and controlled by a central north-south baseline. Some 112 km of survey grid was established.

INDUCED POLARIZATION SURVEY

A time domain Huntec MK 111 receiver and a Lopo transmitter were deployed in the Wenner array for this survey. The data was obtained with an "a" spacing and traverse interval of 100 m. 64 km of surveying was conducted.

The data recorded in the field consists of careful measurements of the current (I) in amperes flowing through electrodes C_1 and C_2, the primary voltage (V_p) appearing between electrodes P_1 and P_2 during the "current on" part of the cycle, and the secondary voltage ratios M_1, M_2, M_3 and M_4 appearing between electrodes P_1 and P_2 during the "current off" part of the cycle.

The apparent chargeability (CV) in milliseconds, is calculated by $T_p\ (M_1 + 2M_2 + 4M_3 + 8M_4) = CV$, where T_p is the basic integrating time in tenths of seconds. M_1, M_2, M_3 and M_4 are the chargeability effects at various times on the voltage decay curve during the "current on" time. By the use of these factors, one can gain an estimate of the decay curve in terms of chargeability for the given time T_p. This gives a quantitative value to the data measured.

DISCUSSION OF RESULTS

The chargeability map Figure 2 shows a large anomaly in mineral claim Lance 5 which reaches a high of 30 milliseconds above a background of some 4 milliseconds. This anomaly trends north-south into the Lance 4 and 9 claims. It forms a halo around a chargeability low in the middle of Lance 5. Preliminary investigation shows that this low appears to be coincident with an alaskite stock. An old shaft and tunnel occur on the eastern edge of this anomaly near line 3000N at 2000 E and old trenches are situated near 3400N-1900E. Malachite stain and molybdenum were noted on fracture faces in both areas. Accessment work filed by Envoy Resources Ltd. on the Ulla claims shows a number of soil samples which gave between 200-1000 ppm copper.

The apparent resistivity data, Figure 3 shows variations from 50 to 10,000 ohm-meters across the property. The low values occur in areas covered with a clay bearing till and the high values in rugged areas of shallow overburden. Thus the induced polarization anomaly would appear to be largely overburden covered in claim Lance 4 and the south half of Lance 5. The higher apparent resistivity value in the north half of Lance 5 and claims Lance 6, 9 and 10 would indicate shallow overburden conditions. The geophysical crew reported that this area was difficult to survey due to the rugged topography and dense jackpine.

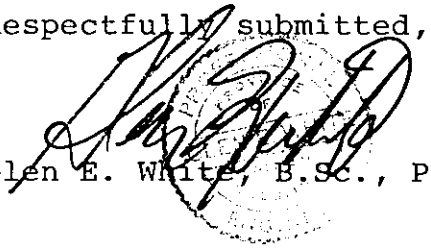
CONCLUSIONS

A reconnaissance induced polarization survey was conducted over the Lance mineral claims to try and detect any large chargeability anomalies which could be indicative of a porphyry copper-molybdenum deposit. The survey located a large horseshoe shaped zone of up to 30 milliseconds which appears to surround a small alaskite plug. Copper-molybdenum mineralization was noted on the east side of the horseshoe anomaly. The chargeability anomaly is open to the north where it appears to follow the contact between the Nicola batholith and the Nicola Volcanics. Thus the strong chargeability anomaly is likely due to a 5-10% increase in pyrite mineralization, with possibly associated copper-molybdenum minerals, in structure zones parallel to the contact which allowed the emplacement of the alaskite plug.

RECOMMENDATIONS

It is recommended that geological mapping and geochemical surveying be undertaken over the areas of high chargeability. The reconnaissance induced polarization surveying which outlined this feature, should be continued into claims Lance 9 and 10. Soil samples should also be taken coincident with the induced polarization work.

Respectfully submitted,



Glen E. White, B.Sc., P.Eng.

A P P E N D I X

Instrument Specifications

A. Induced Polarization Receiver

(1) Type - Huntec MK III time domain

(2) Sensitivity - $V_p = 10^{-7}$ to 10^{-6} volts 1% resolution

$V_p = 10^{-6}$ to 10 volts 0.1% resolution

(3) Range - 30×10^{-6} to 10 volts

(4) Self Potential - $\pm$ 1 volt

(5) M Factor - 0.1%

(6) Power - 0.7 ampere at 12 volts
Rechargeable batteries

(7) Size - 16" x 9" x 5 3/4"

B. Induced Polarization Transmitter

(1) Type - Huntec LOPO M-3

(2) Maximum Current - 1.5 D.C.

(3) Maximum Voltage - 1,800 V D.C.

(4) Load Power - $\pm$ 160 watts @ 75% efficiency

(5) Load Current - Continuously adjustable

(6) Cycle time - 2, 4, 8 or 16 seconds

STATEMENT OF QUALIFICATIONS

NAME:	WHITE, Glen E., P.Eng.
PROFESSION:	Geophysicist
EDUCATION:	B.Sc. Geophysics - Geology University of British Columbia
PROFESSIONAL ASSOCIATIONS:	Registered Professional Engineer, Province of British Columbia
	Associate member of Society of Exploration Geophysicists.
	Past President of B.C. Society of Mining Geophysicists
EXPERIENCE:	Pre-Graduate experience in Geology - Geochemistry - Geophysics with Anaconda American Brass
	Two years Mining Geophysicist with Sulmac Exploration Ltd. and Airborne Geophysics with Spartan Air Services Ltd.
	One year Mining Geophysicist and Technical Sales Manager in the Pacific north-west for W. P. McGill and Associates
	Two years Mining Geophysicist and supervisor Airborne and Ground Geophysical Divisions with Geo-X Surveys Ltd.
	Two years Chief Geophysicist Tri-Con Exploration Surveys Ltd.
	Ten years Consulting Geophysicist
	Active experience in all Geologic provinces of Canada

COST BREAKDOWN

PERSONNAL	DATES WORKED	WAGES	TOTAL
Linecutting			
J. Muir	03/29/80-04/16,23-27/80	$145	$2,755
M. Smyth	03/29/80-04/16,23-27/80	$125	$2,375
Induced Polarization			
J. Muir	05/30/80-06/2,6-17,20-30/80	$145	$3,190
O. Aarskjhold	05/30/80-06/2,6-17,20-30/80	$125	$2,750
B. Kitchen	05/30/80-06/2,6-17,20-30/80	$110	$2,420
J. McMillan	05/30/80-06/2,6-17,20-30/80	$110	$2,420
Induced Polarization and Linecutting			
M. Gray	07/15-24/80 08/6-19/80	$145	$3,480
O. Aarskjhold	07/15-24/80 08/6-19/80	$125	$3,050
B. Kitchen	07/15-24/80 08/6-19/80	$110	$2,640
B. Husar	07/15-24/80 08/6-19/80	$110	$2,640
J. Behenna - Supervisor 10 days @		$175	$1,750
Meals & Accomodations 65 man days @ $35			$9,100
Vehicle lease 4X4 all inclusive			$4,225
Instrument lease			$4,080
Interpretation drafting & reports			$1,050
Total			$47,925.00

120° 27'

LANCE 10

LANCE 11

LANCE 6

LANCE 5

LANCE 11

LANCE 3

LANCE 4

LANCE 8

LANCE 2

LANCE 1

6000 N
5500 N
5000 N
4500 N
4250 N
4000 N
3750 N
3500 N
3250 N
3000 N
2750 N
2500 N
2250 N
2000 N
1750 N
1500N
1250 N
1000 N
750 N
500 N
0+00-
250 S
500 S
750 S
1000 S
1250 S
1500S
1750S
2000S
2250 S
2500S

20W 18W 16W 14W 12W 10W 8W 6W 4W 2W 00 2E 4E 6E 8E 10E 12E 14E 16E 18E 20E

120° 27'

50° 22' 30"

50° 22' 30"

TRUE NORTH

MAG. NORTH

22° 52'

To LAC LE JEUNE

TRENCH
Cpy & Mo

SHAFT & TUNNEL
Cpy & Mo

ULLA 1
ULLA 2
ULLA 3
ULLA 4

INSTRUMENT : LOPO M-3 WENNER ARRAY

a = 100 m

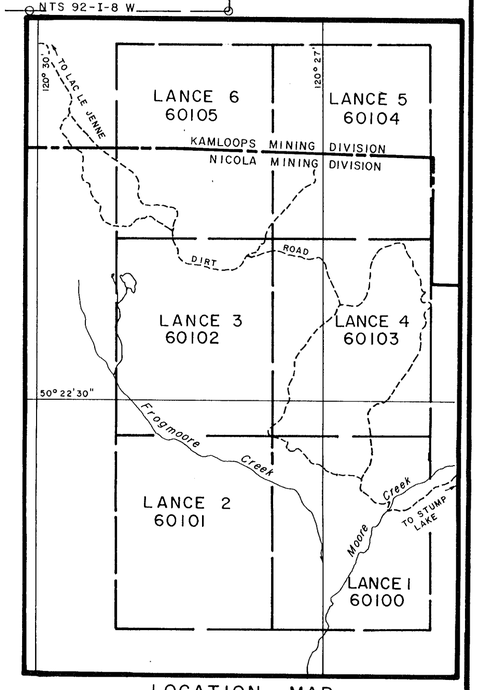
CHARGEABILITY KEY

Milliseconds
12
10
8
6

Gravel Road

NTS 92-I-8 W

LOCATION MAP
SCALE 1 : 50,000



0 100 200 300 400 500 600 700 800 900 1000 METRES
1 : 10,000

DYNAMIC OIL LIMITED

LANCE CLAIMS

NICOLA & KAMLOOPS MINING DIVISIONS - B.C.

INDUCED POLARIZATION SURVEY
CHARGEABILITY

Glen E. White
geophysical consulting & services ltd.

INTERPRETED BY :	GE.W.
DRAWN BY :	r.w.r.
CHECKED BY :	
DATE :	July 16, 1980
FIG. No. :	2

To Accompany Geophysical Report on

Date _____

By GLEN E. WHITE - B.Sc. _____ GEOPHYSICIST

PROFESSIONAL ENGINEER
GLEN E. WHITE
BRITISH COLUMBIA

LANCE 10

LANCE 11

LANCE 6

LANCE 5

LANCE 3

LANCE 4

LANCE 2

LANCE 1

LANCE 8

TRUE NORTH

MAG. NORTH

22° 52'

TRENCH
Cpy & Mo

SHAFT & TUNNEL
Cpy & Mo

To LAC LE JEUNE

INSTRUMENT : LOPO M-3 WENNER ARRAY

a = 100 m

I
V
a a a

RESISTIVITY KEY

Ohm-meters
2000
1500
1000
500

Gravel Road

NTS 92-I-8 W

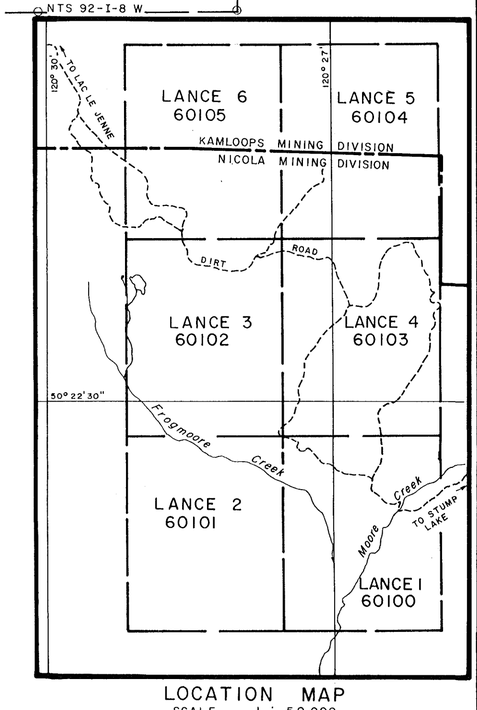
120° 27'

50° 22' 30"

6000 N
5500 N
5000 N
4500 N
4250 N
4000 N
3750 N
3500 N
3250 N
3000 N
2750 N
2500 N
2250 N
2000 N
1750 N
1500 N
1250 N
1000 N
750 N
500 N
250 N
0+00
250 S
500 S
750 S
1000 S
1250 S
1500S
1750S
2000S
2250 S
2500S

20W 18W 16W 14W 12W 10W 8W 6W 4W 2W 00 2E 4E 6E 8E 10E 12E 14E 16E 18E 20E

LOCATION MAP
SCALE 1 : 50,000



0 100 200 300 400 500 600 700 800 900 1000 METRES
1 : 10,000

DYNAMIC OIL LIMITED

LANCE CLAIMS

NICOLA & KAMLOOPS MINING DIVISIONS - B.C.

INDUCED POLARIZATION SURVEY
RESISTIVITY

Glen E. White
geophysical consulting
& services ltd.

INTERPRETED BY :	G.E.W.
DRAWN BY :	r.w.r.
CHECKED BY :	
DATE :	July 16, 1980
FIG. No. :	3

To Accompany Geophysical Report on

Date _____

By GLEN E. WHITE - B. Sc. _____ GEOPHYSICIST