GEOPHYSICAL SURVEY

by

GARY C. LEE, P.Eng.

February, 2000

094177

MEX and ICO Quartz Claims

Whitehorse Mining Division

Grant Nos: MEX 1-4: YB46669-YB46672
MEX 5-7: YB46677-YB46679

Map 105 D/8
Latitude 60° 22', Longitude 134° 04'

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Owner:	Wilson Creek Placers	

Map 105 D/8
Latitude 60° 22', Longitude 134° 04'

Date submitted: _____

This report has been examined by
the Geological Evaluation Unit
and Section 59 (4) Yukon Quartz
Mining Act and is allowed as
exploration work in the amount
of $ 2100.00.

M. Burke

for Assistant Deputy Minister, Exploration and
Geological Services for Commissioner
of Yukon Territory.

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MAGNETOMETER MAP (WITH VLF CONDUCTOR AXIS)	Pocket

INTRODUCTION

General

In August 1999 a two-man exploration crew (the author and Marvin Sherman, both of the City of Whitehorse) completed a VLF and magnetometer survey on the MEX and ICO claim group.

This claim group consists of seven quartz claims (MEX 1-4, YB46669-YB46672 and MEX 5-7, YB46677-YB46679 owned by Wilson Creek Placers.

Approximately five km of lines were compassed, chained and flagged in. Most of this grid was located between 4100E to 5000E. Previously there were only two reconnaissance lines in this area.

Location and Access

The claims are south of the Alaska Highway 80 km southeast of Whitehorse and approximately 5 km northwest of Jakes Corner. The general location map (page 2) and the 1:50,000 grid and claim map (page 3) show the claim group location. The group is located at 60°22' north latitude and 134°04' west longitude. There is a cat trail running southwest through the MEX claims.

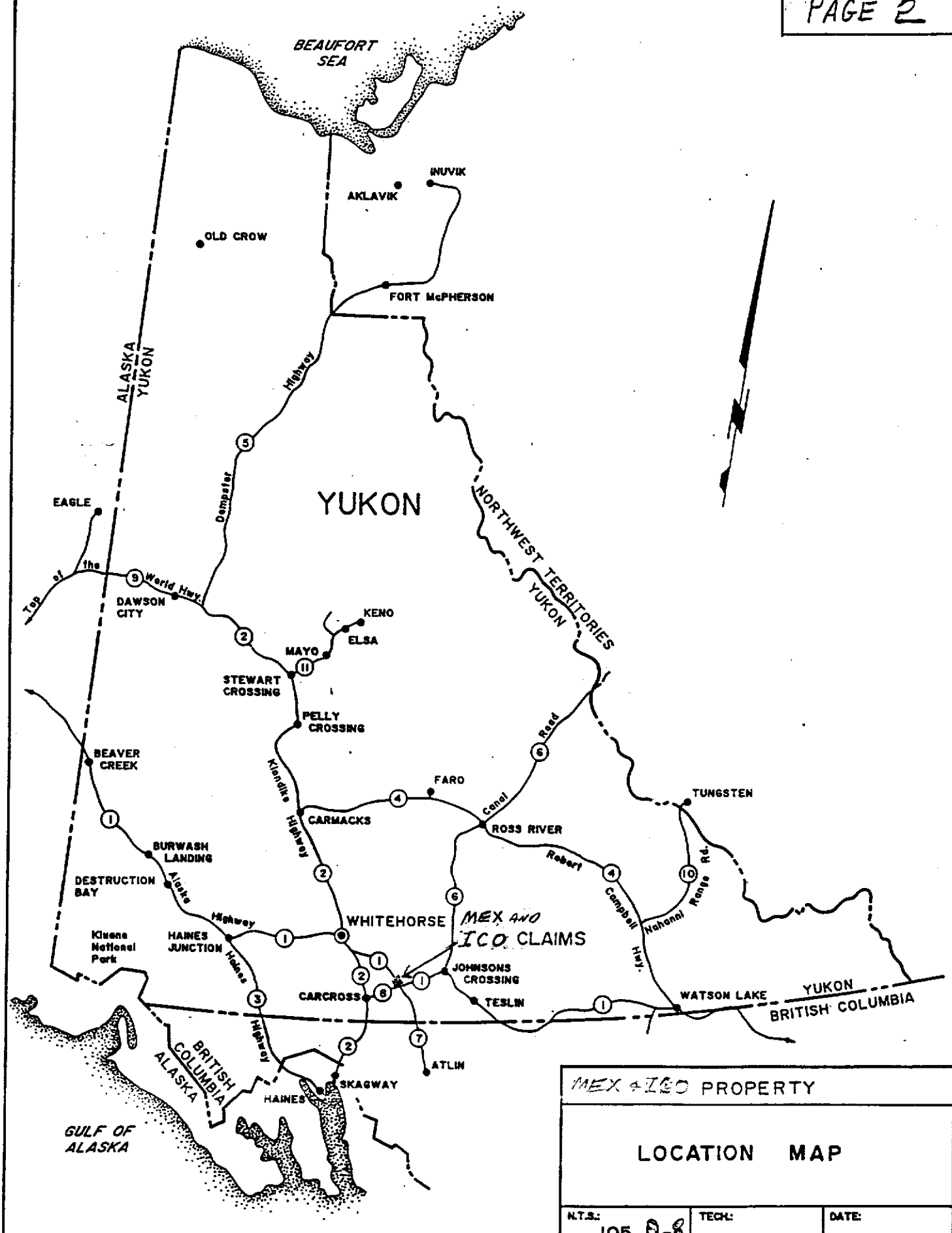
History

In the 1990 "Assessment Report on the NLC Claims" by Graham Davidson for L. Lebedoff, the following is outlined:

> "Ultramafic rocks and quartz-carbonate alteration zones around Marsh Lake were first examined in the late 1890s by prospectors en route to Dawson. Several gold prospects at the northeast and southeast ends of the zone were investigated by adits, shafts and trenches but no records of production exist. Ultramafic rocks were examined in the 1960s and 1970s for potential asbestos mineralization. International Mine Services contracted an airborne magnetometer survey in 1967, covering a large area east of Marsh Lake, including the NLC [MEX and ICO] claim area."

Along-strike of the ICO claims and near the Alaska Highway are quartz-carbonate-pyrite alteration zones which are anomalous in gold values.

From the above-mentioned report sample #17929, a quartz-siderite vein 15 cm wide with pyrite, ran 572 ppb Au and sample #17930, a grey-green chert cut by carbonate and pyrite veins, ran 19 ppb Au.



MEX & ICO PROPERTY

LOCATION MAP

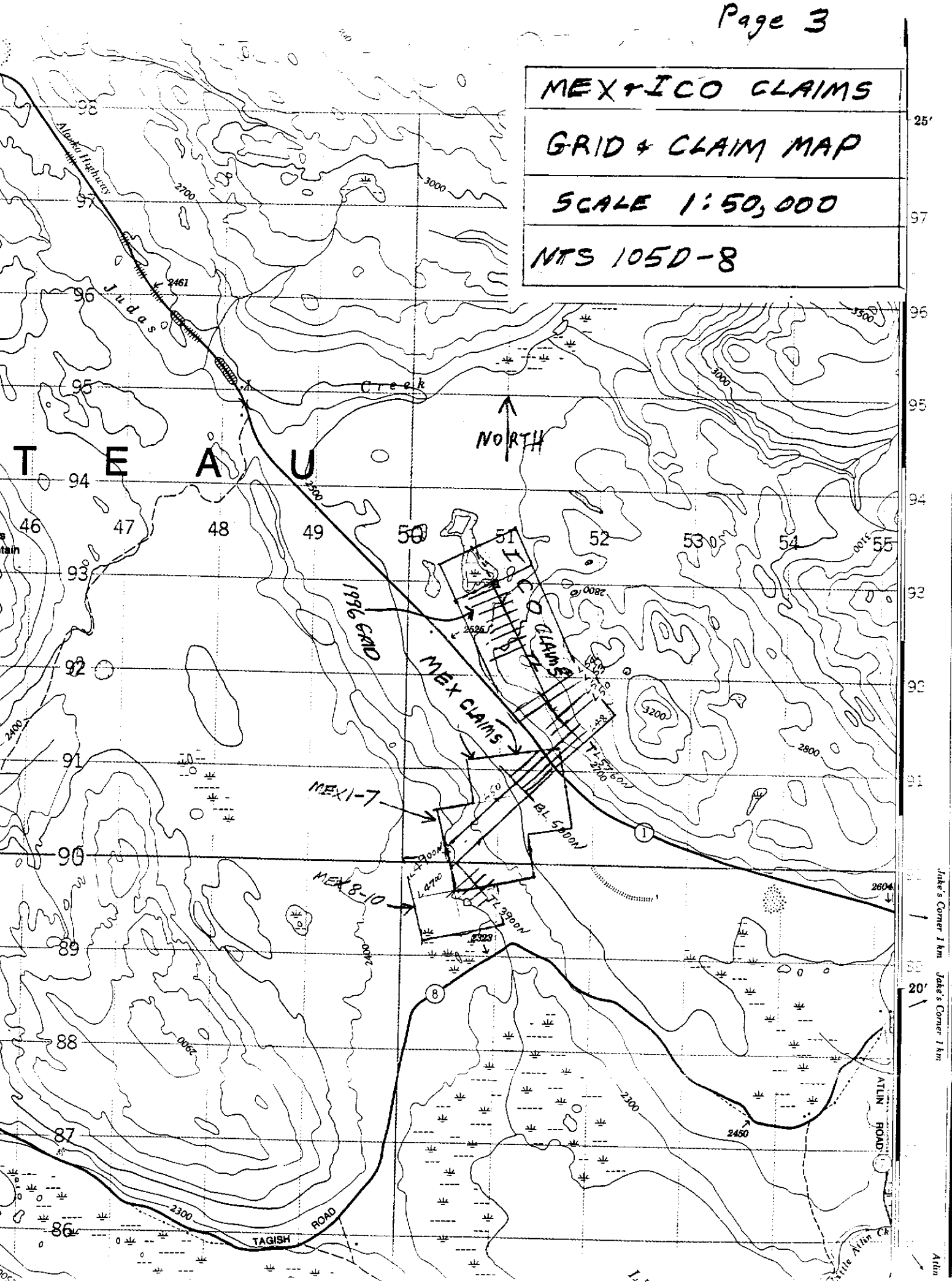
N.T.S.: 105 D-8	TECH:	DATE:
SCALE: 1" = 12.5 mi.	DRAFTING:	FIGURE: 1

MEXICO CLAIMS

GRID & CLAIM MAP

SCALE 1:50,000

NTS 105D-8



Topography

The MEX 1-7 claims range in elevation from 2350 to 2600 feet. Vegetation consists of spruce and jackpine with some patches of poplar and alder.

Grid and Field Procedure

All lines were flagged with orange and blue flagging at 20 metre stations. An existing baseline (5000E) bearing 315° runs along the pipeline corridor. Lines, for the most part, were run in at 100 metre intervals. The grid layout can be seen on the maps contained in the pocket.

A Geonics EM-16 was employed for the VLF survey, with readings being taken at either 10 or 20 metre intervals. Both the in-phase and quadrature were read. All stations were read by facing the direction of the transmitting station and thence turning clockwise 90° before taking the readings. All lines were read on Seattle, Washington.

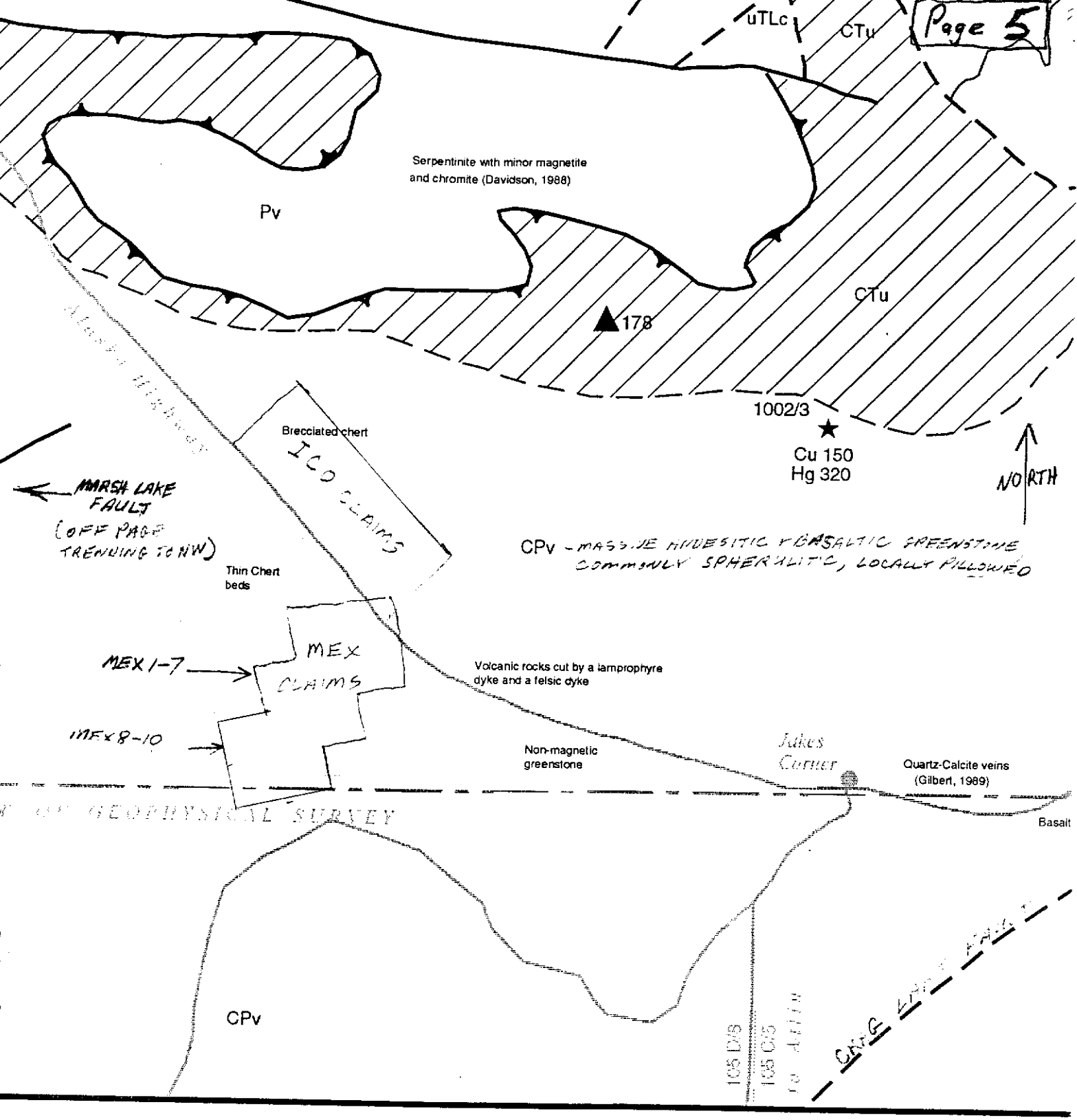
Magnetometer readings were taken at 10 metre intervals with a GEM GSM-19 proton precision magnetometer. The instrument reads the total component of the earth's magnetic field.

ECONOMIC GEOLOGY

Rock types within the survey area are in the Cache Creek Group. These are grouped as (CPv) massive andesitic and basaltic greenstone, commonly spherulitic, and locally pillowed, as seen on the "Geology of the Jakes Corner Geophysical Survey Area" map on page 5. Volcanic rocks cut by a lamprophyre and a felsic dyke, thin chert beds and brecciated chert are some of the rock types to be found in or near the claim group.

Potential mineral deposit types, as outlined in "Geology of Jakes Corner Geophysical Survey Area, Southern Yukon" open file 1995-7(G) by J.A. Hunt, C.J.R. Hart and S.P. Gordey, are:

> "(1) ultramafic-associated nickel-copper sulphide deposits, (2) chromite deposits, (3) volcanogenic massive sulphide deposits, (4) gold in listwaenite-hosted quartz veins, (5) structurally controlled epithermal vein deposits, (6) asbestos deposits and (7) skarn/replacement deposits in limestone."



GEOLOGY OF THE

JAKES CORNER GEOPHYSICAL SURVEY AREA

(OPEN FILE 1995-7 (G) - HUNT, HART & GORDEY)

SCALE 1:50 000

Miles 1 0 1 2 3 Miles

Metres 1000 0 1000 2000 3000 4000 Metres

Many of the above may show up as a ground geophysical signature as a mag contrast on a contact; alternatively, they may be indirectly indicated by a conductor as a related fault or shear gouge, or directly as massive sulfides. With this in mind, the "Airborne EM and Mag Survey, Jakes Corner Prospect D.I.A.N.A. Open File 1994-10(G)" shows a couple of anomalies (conductors) located roughly on the MEX 6 claim. These were followed up on the ground with L4700N and TL3900E in the 1995 survey.

RESULTS

The VLF results are plotted as profiles on the plan view contained in a map in the pocket. The location of the VLF conductor axes have been transferred to the Magnetometer Plan contained in the pocket, in order to ease interpretation with regard to mag and VLF correlation.

It should be noted that the VLF map contained in the pocket also contains results from previous geophysical surveys completed by this author in 1995 and 1996.

INTERPRETATION AND CONCLUSIONS

The VLF conductor axes have been marked on the mag. map contained in the pocket. From this, it can be seen that there are two areas of interest - these are marked "D" and "E". Conductors A, B, C, F and G have previously been discussed in the 1995 and 1996 geophysical reports. Conductor D is less than 300 metres long; it makes an excellent exploration target since it corresponds to a mag. high. The conductors in area E are offset from each other, which may indicate northeast-southwest trending faults. There is also a conductor on L4700N located at 4520E which corresponds to a mag. high (dipole). Area E is also a good exploration target.

RECOMMENDATIONS

Geochem (soil sample) area D, lines 4900N to 5050N from 4980E to 5150E, and area E on lines 4500N to 4900N from 4450E to 4750E.

BIBLIOGRAPHY

Davidson, Graham: "Assessment Report on the NLC Claims", 1990.

Hunt, J.A., Hart, C.J.R., Gordey, S.P: "Geology of Jakes Corner Geophysical Survey Area, Southern Yukon", open file 1995-7(G).

Lee, Gary: "Geophysical Survey - Mex and Ico Quartz Claims", March-May 1995.

Lee, Gary: "Geophysical Survey - Mex and Ico Quartz Claims", May 1996.

STATEMENT OF QUALIFICATION

I, **GARY C. LEE**, of the City of Whitehorse, Yukon Territory, HEREBY CERTIFY that:

1. I am a self-employed Geological Engineer.

2. I am a graduate of the University of Toronto, Toronto, Ontario, with a degree in Applied Science - Geological Engineering (Mineral Exploration option).

3. I am a member of the Professional Engineering Associations of the Yukon, British Columbia, and Ontario.

4. I supervised and carried out the work described in this report.

Gary Lee

Gary C. Lee, P.Eng.

Date: Aug 28/00

MEX QUARTZ CLAIMS

WHITEHORSE MINING DIVISION

VALUE OF ASSESSMENT WORK

FIELD

Engineer: 3 days @ $350/day	$1,050.00
Assistant: 2 days @ $225/day	$ 450.00
Supplies	$ 35.00
Truck rental: 3 days @ $125/day	$ 375.00

REPORT

Amerok Geosciences Ltd: mag. rental, data processing and plotting (mag. only)	$ 334.38
VLF plotting, typing, report and reproduction	$ 500.00
	$2,744.38

094177

VLF DATA MEX CLAIMS AUG/99

"Rite in the Rain" ALL-WEATHER WRITING PAPER

Name

Address

Phone

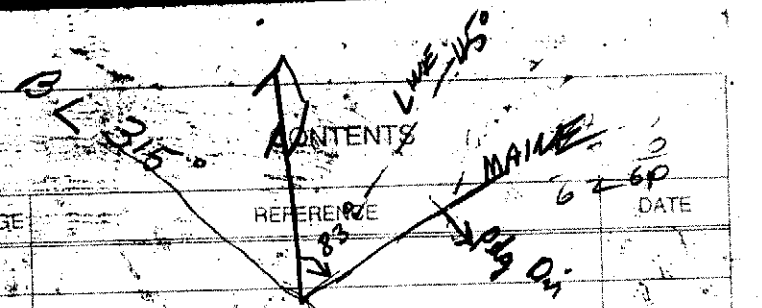
Project

Yellow Polyethylene Protective Slipcovers (Item #3) are available for this style notebook. Helps protect your notebook from wear & tear. Contact your dealer or the J. L. Darling Corporation.

MAG BASE (GEN Photos) 5400N 4960E
L47 ends at 3880E
L46 " " 3840E
L50 Fish Hook 4230E

CONTENTS

PAGE REFERENCE DATE



L1 Point 5780
1st " @ 6260

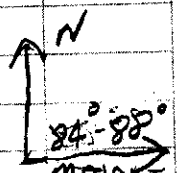
→ TO 5400N

TL (ICO) TL5760E 315° → 335°
BL (MEX) BL5000E (PIPELINE COR) 315°

CLP 4675 N 6752,53 #2
ECO 3,456 N 6754,55 #1
TL2 5740N

TL 6703N 46758 59 #1
5740 46756 57 #2
5763
↳ E end of Take ≈ 6730

ECO BL 335°
- 90
245
+ 180
165



WASH

	I	Q
BL 5000E	+2	+2
	+2	+1
5020E	+2	0
	+1	+1
5040	+1	0
	+2	−1
5060	+3	0
	+4	+1
5080	+5	+1
	+7	+2
5100E	+7	+3
	+5	+4
5120	+4	+3
	+1	+1
5140	OR C +2	
	−2	+1
5160	−5	+2
	−8	0
5180	−10	+3
	−12	−1
5200E	−14	+2
	−17	+2
5220E	−20	+2

5100N

HAWAII AUG 10/99

−4	0
−2	0
−4	0
−3	0
−2	+1
0	+1
0	+1
0	+2
+2	+4
+2	+2
+2	+3
+2	+3
+2	+2
+1	+2
+1	+2
+1	+2
+2	+3
−3	+2
−2	+2
−2	+1
−1	+2
−1	+3

Borders

LINE

WASH

4990	+4	0
4980E	+3	+2
	0	−1
4960	−1	−2
	0	−2
4940	0	−2
	−1	−3
4920	−3	−5
	−4	−4
4900E	−5	−4
4890E	−5	−5
4880	−6	−4
	−8	−7
4860	−8	−6
	−8	−7
4840	−6	−5
	−6	−6
4820E	−3	−5
	−4	−4
4800E	−4	−6
	−6	−8
4780	−QRC	−6
	+3	−3
4760	+7	−7
	+5	−4

5100N

SEATTLE WASH

Aug 10 1989

	IP	Q
4740	+5	−5
	+2	−8
4720	0	−9 OK
	0	−9
4700E	+2	−9
	0	−12
4680	+1	−12 OK
	0	−12
4660	0	−13
	−1	−12
4640	−3	−12
	−3	−12
4620	−5	−9
	−4	−10
4600E	−4	−10
	−7	−9
4580	−6	−6
	−10	−8
4560	−8	−8
	−10	−6
4540E	−9	−7
	−9	−8
4520	−14	−18
	−15	−11
4500E	−28	−12
	−40	−19

5100N

4600

60%

75%

WASH

	IP	Q
4980	−26	−12
	−17	−8
4960	−8	−3
	−5	0
4940E	OFF AIR	
4930		

5100N

4800N

LAKE

BL5000E	−5	+4
	−6	+3
4980	−6	+3
	−8	+2
4960	−12	−2
	−11	−2
4940	−10	0
	−8	0
4920	−7	0
	−6	+3
4900E	−6	+1
	−8	−1
4880	−7	−1
	−7	−2
4860	−9	−4
	−9	−5
4840	−10	−6
	−9	−6

Aug 7 '99 WASH

	IP	Q
4820E	-7	-6
	-6	-6
4800E	-6	-7
	-5	-8
4780	-5	-8
	-4	-8
4760	-3	-9
	-3	-10
4740	0 RC	-10
	+3	-9
4720	+8	-8
4700E	+10	-7
4680	+12	-8
		ROAD
4660	+10	-9
	+8	-10
4640	+5	-10
	+5	-11
4620	+4	-10
	+1	-10
4600E	-1	-11
	-4	-12
4580E	-5	-10
	-5	-11

MAINLINE Aug 10/99

	IP	Q
	-2	-4
	-1	-3
	-2	-6
	0 RC?	-4
	0 RC?	-8
	+3	-8
	+5	-4
	+5	-6
	+8	-4
	+8	-3
	+10	-4
	+10	-3
	+10	-4
	+8	-6
	+7	-4
	+6	-5
	+5	-4
	+5	-3
	+5	-4
	+2	-5
	+2	-3
	0	-4
	-1	-4
	-3	-4

4800N

WASH

	IP	Q
4560	-4	-9
	-5	-8 ROAD
4540	-6	-8
	-10	-10
4520	-12	-9
	-12	-9
4500E	-14	-10
	-13	-10
4480	-12	-10
	-9	-8
4460	-4	-6
4440	-2	0
4420	-1	0
4400E	0	-1
4380	0	-2
4360	-2	-2
4340	-2	-3
4320	-2	-2

MAINLINE Aug 10/99 27

	IP	Q
	-4	-4 ← ROAD
	-4	-4
	-5	-3
	-10	-3
	-10	-4
	-13	-3
	-15	-5
	-17	-9
	-18	-9
	-15	-11
	-15	-6
	-14	-6
	-9	-6
	-7	-2
	-5	-4
	-5	-2
	-3	-2
	-2	0
	-3	-1
	-5	0
	-3	0
	-2	-2
	-3	-2
	-4	-1
	-3	-1
	-4	-1

28 Aug 10 WASH
Aug 17 IP Q

L4800N

	IP	Q
4300E	−3	−2
4280	−3	−4
4260	−3	−3
4240	−3	−2
4220	−6	−3
4200E	−8	−2
4180	−7	−1
4160	−7	−2
4140	−7	−2
4120	+17	÷2
4100E	−7	−2
4080E	+4	+2
4060	−3	−3
	9.+4 NC	−2

MAINE Aug 10/99

IP	Q
−1	−1
+3	−2
−2	−1
−2	0
−2	−2
0	+2
−2	0
−3	−1
−5	−2
−3	+1
−4	−2
−3	−3
−3	−1
−2	−2
−2	−1
−2	0
−4	−1
−3	0
−3	0
−2	0
−3	0
−3	0
−2	0
−2	−1

POND

Aug 17/99 WASH

L5000N

IP	Q
−7	−1
−8	0
−7	0
−7	+1
−6	+1
−5	0
−6	0
−6	0
−6	−1
−9	−1
−12	−4
−10	−5
−10	−5
−10	−8
−10	−9
−9	−10
−2	−3

29 WASH

	IP	Q
	−1 RC	−8
4740	+1	−8
4720	+3	−10
4700	+8	−10
4680	+10	−11
4660	+7	−13
4640	+6	−13
4620	+2	−10
	+1	−10
4600	+1	−8
	+2	−6
4580	+1	−5
	+2	−6
4560	−6	−4
	−10	−6
4540	−12	−7
	−13	−7
4520	−14	−8

AUG 17/99

	WASH IP	WASH Q
4500E	-18	-10
4480	-17	-6
4460	-22	-7
4440	-17	-4
4420	-11	-2
4400	-10	0
4380	-6	-1
4360	-9	-4
4340	-5	-2
4320	0	-2
	+1	-2
4300E	+1	-2
	-2	-2
4280	-3	-2
	-4	-3

-30-20

5000N

	WASH IP	WASH Q
4260	-5	-2
4240	-7	-1
4220	-6	0
4200E	-3	+2
4180	-3	+2
4160	-3	+2
4140	-3	+2
4120	-6	-2
4100E	-5	-2
4080	-1	0
	RC	
4060	+4	0
	+4	0
4040	swamp	

FISH SHACK Road

4600N

AUG 17/99

	WASH IP	WASH Q
4900BL		
4880	-4	+2
4960	-9	0
4940	-10	0
4920	-12	-1
4900E	-6	+2
4880	-7	0
4860	-5	-1
4840	-5	-2
4820	-2	-3
4800E	-2	-5
4780	-1	-6
4760	0	-7

STA	WASH IP	WASH Q
4740		
4720		
4700E		
4680		
4660		
4640		
4620		
4600		
4580		
4560		
4540		
4520		
4500E		

AUG 17/99 WASH

STA	IP	Q
4740	-2	-3
	-2	-9
4720	-3	-8
4700E	-3	-8
4680	0 RC	-8
4660	+5	-2
4640	+6	-2
4620	+3	-4
4600E	-2	-6
4580	-6	-9
4560	-9	-10
4540	-13	-14
4520	-9	-8
4500E	-8	-6

WASH

STA	IP	Q
4480	-8	-3
	-7	-3
4460	-5	0
	-12	-7
4440	-12	-8
	-10	-7
4420	-8	-4
4400E	-5	-2
4380	-4	-1
4360	-6	-2
4340	-4	-2
4320	-7	-5
4300E	-5	-4
4280	-3	-3
4260	-1	-2
4240	0 RC	-1

4600N

AUG 17/99 WASH.

STA	IP	Q
4220	0	0
4200E	-1	-1
4180	-4	-1
4160	-5	-2
4140	-5	-2
4120	-7	-4
4100E	-7	-3
4080	-7	-3
4060	-3	0
4040	0 RC +1	+1 +2
4020	+2 -1	+2 +2
4000E	-1 -3	0 0
3980	-5	0

WASH 33

STA	IP	Q
3960	-5	0
3940	-5	-1
3920	-2	0
3900E	-4	-1
3880	-6	-3
3860	-5	-4
3840	-3	-2

swamp

AUG 17 WASH

STA	IP	Q
4000	-5	-2
4020	-4	-2
	-2	-1
4040	-2	0
	-2	-2
4060	-3	-2
4080	-2	-1
4100E	-3	-1
4120	-4	-1
4140	-5	-2
4160	-3	-2
4180	-2	-2
4200E	+2	+2
4220	+3	+3
4240	-2 RC	-2

WASH

STA	IP	Q
4260	-6	-3
4280	-6	-4
4300E	-6	-5
4320	-6	-2
4340	-4	-2
4360	-6	-4
4380	-6	-6
4400E	-6	-4
4420	-8	-6
4440	-10	-6
4460	-11	-7
4480	-5 -5	-5 -7
4500E	-5	-8

CLAIM LINE

SOUTH

Aug 17/99 WASH

STA	IP	Q
4520E	-6	-9
4540	-8	-10
4560	-7	-9
4580	-5	-6
4600E	+2	-2
4620	+4	-1
4640	+4	-1
4660	0	-2
4680	+1	+4
4700E	+3	+4
4720	-7 RC	-5
4740	-7	-4
4760	-8	-5

4 POSTS

WASH

STA	IP	Q
4780	-7	-5
4800E	-6	-4
4820	-5	-4
4840	-6	-3
4860	-6	-2
4880	-7	-1
4900E	-9	-2
4920	-8	-1
4940	-6	0
4960	-2	+2
4980	-2	+2
5000BL	-2	+2

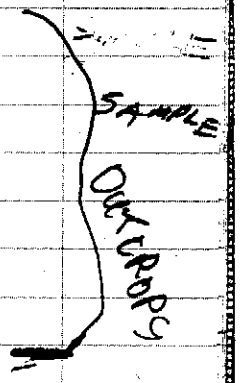
Aug 17/99 WASH

STA	IP	Q
	−11	+2
5000BL	−11	0
	−11	0
5020E	−9	0
	−6	0
5040	−4	0
	−2	−1
5060	0	0
	0	0
5080	+2	0
	+2	0
5100E	+3	0
	+4	+2
5120	+4	+2
5140	+5	+4
5160	+2	+6
	RC	
5180	−5	+5
	ROAD	
5200E	−10	+5
	Power Line	

Aug 17/99 WASH

	IP	Q
5220E	−20	+1
5200	−17	+1
5180	−11	0
5160	−7	+2
5140	0	+3
5120	+3	+2
	+4	+3
5100E	+6	+3
	+6	+3
5080	+7	+2
	+8	+3
5060	+7	+2
	+4	+2
5040	+1	+1
	−1	0
5020	−2	0
	−4	0
BL5000E	−4	−1
	−4	−1
4980E	−4	−1

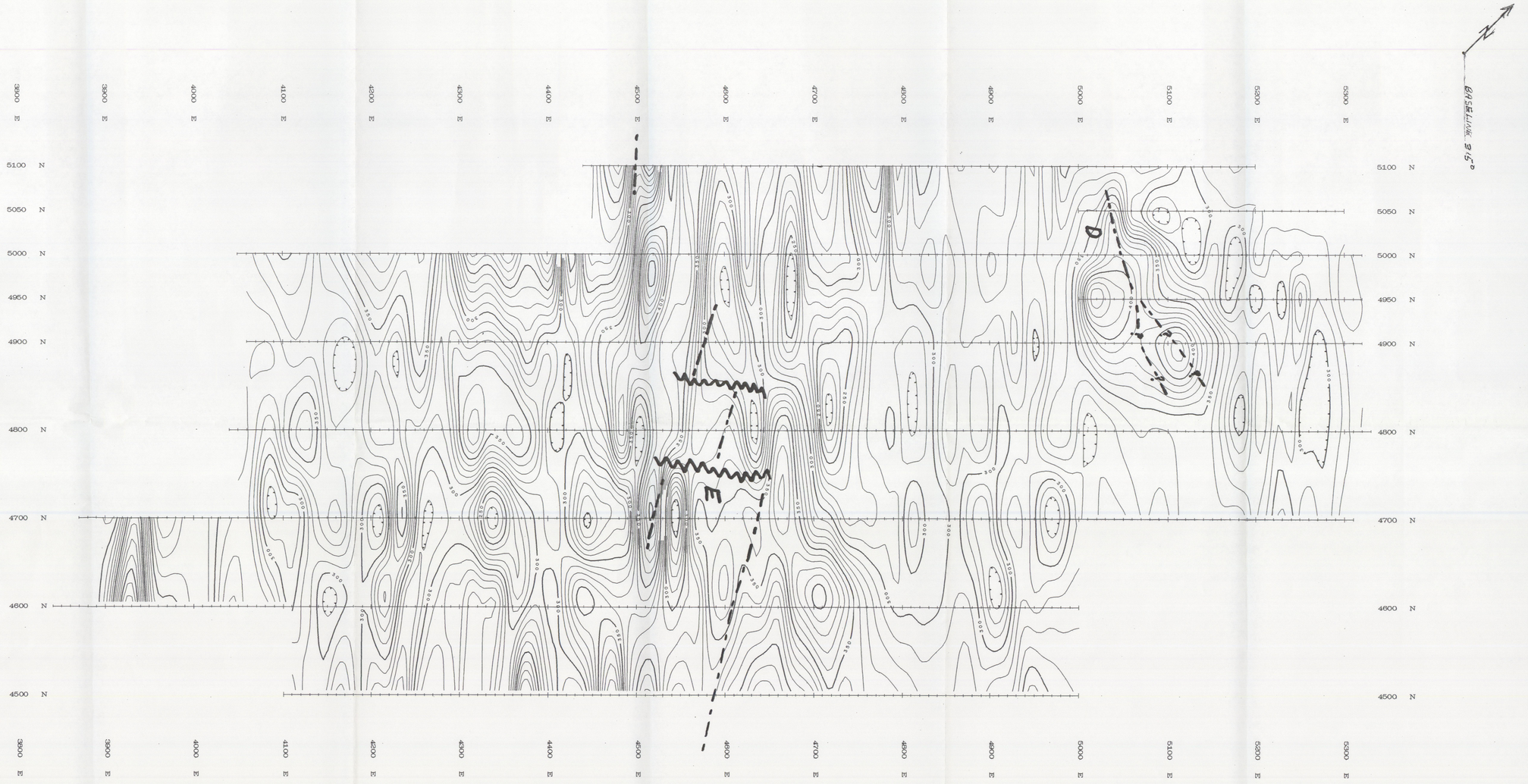
↑ POWER LINE



L5400N
L5300N
L5100N
L5000N
L4900N
L4800N
L4700N
L5200N
L5100N
L5000N
L4780N
L4700N
L5400N
L5300N
L5050
L4950
L4600N
L4500N
L4400N
L4300N
L4150N
L4000N
L4600N
L4500N
L4400N
L4300N
L4150N
L4000N
6000E
5900E
5800E
5700E
5600E
5500E
5400E
5300E
5100E
4900E
4800E
4700E
4600E
4500E
4400E
4300E
4200E
4100E
4000E
6100E
6000E
5900E
5800E
5760E
5700E
5600E
5500E
5400E
5300E
5200E
5100E
4900E
4800E
4700E
4600E
4500E
4400E
4300E
4200E
4100E
4000E
3900E
3800E
3700E
3600E
TL5760E
TL4600E
TL3900E
BRG 335°
BRG 315°
POND
A
B
C
D
E
F
G
5740E
5760E
5785E
5825E
5778E
5745E
5705E
5585E
5510E
5695E
4635E
4520E
3968E
3950E
3976E
3961E
CHAINAGE ERROR 5960E = 6980E
(POWER LINE)
ALASKA HIGHWAY
WHITEHORSE
JAKE'S CORNER 5KM
PIPELINE CORRIDOR ℄ BL 5000E
AREA OF 1999 SURVEY
AREA OF 1999 SURVEY
AREA OF 1999 SURVEY
AREA OF 1999 SURVEY
MEX 1
MEX 2
MEX 3
MEX 4
MEX 5
MEX 6
MEX 7
MEX 8
MEX 9 (YB57516)
MEX 10 (YB57517)
NORTH
MAG. NORTH
30°
SEATTLE WASH
HAWAII
MAG DIRECTION
LAKE
POND
SWAMP
FENCE
ROADS
CLAIM POSTS
CLAIM LINE
CLAIM BOUNDARY
(4950E)
4900E
LINES (FLAGGED AT 20m STATIONS WITH VLF RDGS TAKEN AT 10m INTERVALS
VLF
IN PHASE
QUAD.
-10% +10% +30%
(+ve TO RIGHT OF LINE)
STRONG OR SHARP
CONDUCTOR AXIS (VLF)
WEAK OR BROAD
POWER LINE
POSSIBLE FAULT
0 50 100
METRES
SCALE 1:2000

MEX & ICO CLAIM GROUP	CLAIM NOS: MEX 1-4 YB 46669-46672; MEX 5-7 YB 46677-46679; ICO 1-10 YB 46750-46759; MEX 8-10 YB 57515-57517
EM-16 V.L.F SURVEY	WHITEHORSE MINING DISTRICT
DATE: MAR-MAY 1995; REVISED FEB. 2000	MAP: 105 D 8
DRAWN BY: G.L.	INSTR - GEONICS EM-16

094177



---·---·--- VLF CONDUCTOR AXIS

~~~~ POSSIBLE FAULT (OFFSETTING VLF CONDUCTOR)

Total magnetic field (nT)

GRID CELL SIZE: 5 m

CONTOUR INTERVALS: 10, 50 nT

500,000E
6,600,000N + – UTM registration point

0 160
metres

Scale: 1:2,000

MARVIN SHERMAN

MEX PROPERTY

TOTAL MAGNETIC FIELD CONTOUR MAP

FIGURE 094177

NTS: 105D8	Datum: Local
Mining District: Whitehorse, YT	
Job: 99-23	Date: 14AUG99

AMEROK GEOSCIENCES LTD.
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