



42A11NE0013 63.4173 TULLY

010

REPORT OF WORK CARRIED OUT ON
TULLY TOWNSHIP PROPERTY
DURING 1982

Submitted in partial fulfillment of requirements of
OMEP grant application; OM 82-5-JV-70

LACANA MINING CORPORATION
April 6, 1983

Patrick Chance
Toronto, Ontario



42A11NE0013 63.4173 TULLY

010C

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SUMMARY

Between January 11 and April 19, 1982, an exploration program comprising ground magnetic and electromagnetic (Max-Min) surveys and four diamond drill holes totalling 2,455 feet were carried out on Lacana's Tully Township property (Figure 1, Table 1). The objective of this work was to locate possible sources of anomalous gold concentrations in glacial overburden detected in an overburden sampling program carried out (and submitted for assessment credit) during 1981.

Although magnetic surveys failed to locate features similar to those in the vicinity of the Nickel Offsets' deposit, the ground surveys generally permitted extrapolation of the contacts between ultramafic and mafic volcanics. However, variability in overburden depth, precludes rigorous interpretation of magnetic data. Max-Min electromagnetic surveys were used to confirm the location of previously detected ground anomalies.

Ground geophysical targets were drilled in two of three areas followed up. In one of these areas, due to unexpectedly deep overburden, the drill hole apparently passed over the conductive zone and intersected footwall ultramafic volcanics. In the last area, two drill holes intersected a wide zone of barren Mg-carbonate-bearing mafic and ultramafic volcanics.

RECOMMENDATION

Pending re-evaluation of available data, a single area requires additional ground geophysical surveys and perhaps follow up drilling.

TABLE I

SUMMARY OF SURVEY STATISTICS AND WORK COMPLETED

Area	Line cut (feet)	Readings	Magnetometer survey			Stations made	Max-Min II, EM survey			Diamond drilling Hole number	drilling Feet drilled
			Stations made	Station interval (feet)	Replicate readings		Station interval (feet)	Cable length (feet)	Frequencies		
West	29,300	734	729	50	5	218	100	600	444 H _Z 1777 H _Z	T82-15	284
North	34,400	809	796	50	13	238	100	600	444 H _Z 1777 H _Z		
East	32,580	765	746	50	19	191	100	800	444 H _Z 1777 H _Z	T82-15A	624
South East	nil	147	147	50	nil	nil	-	-		T82-16	540
										T82-17	1,007
TOTAL	96,280	2,455	2,418	-	37	647					2,455

Line cutters: Henry Gonzalez,
David Gonzalez,
Paul Ottereyes,
Billy Ottereyes,
Jimmy Wabanonic,
- all of Timmins, Ontario

Magnetometer operator: Patrick Chance,
Whitby, Ontario

Max-Min operators: Yvan Gaudreau,
Lac a la Tortue, Quebec

George Murphy,
New Glasgow, Nova Scotia

Diamond drilling: Norex Drilling,
South Porcupine, Ontario

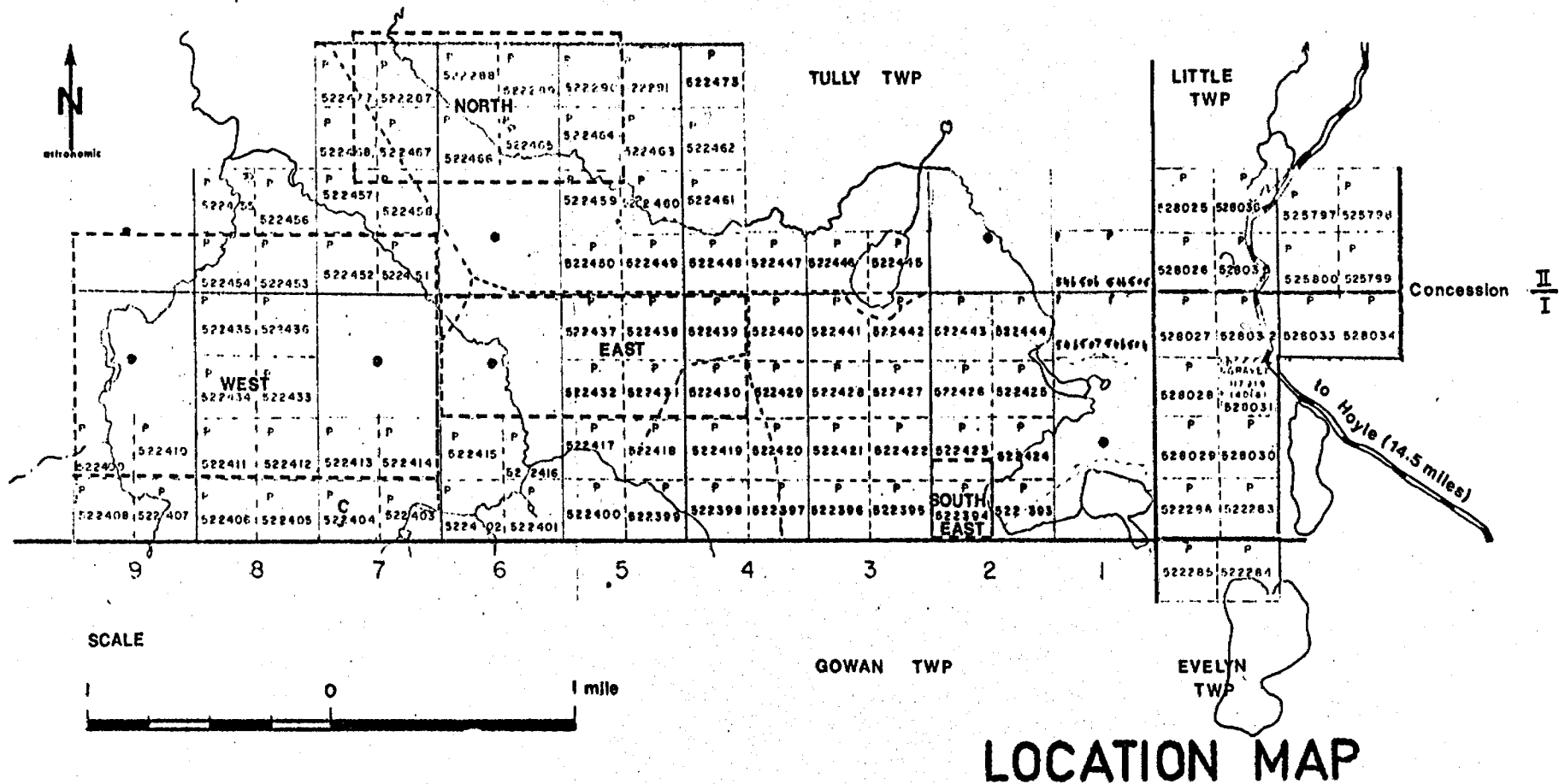


Figure 1 - Claim map showing location of 1982 work

INTRODUCTION

The exploration work described below was designed to test potential bedrock sources of gold contained in samples of glaciofluvial overburden collected during the 1981 reverse circulation drilling program. Work was carried out in four areas respectively designated West, North, East and South-East areas (Figure 1).

This is a comprehensive report describing ground geophysical surveys (magnetometer and Max-Min EM) and diamond drilling in each of the three areas.

A financial report is submitted as Appendix A.

LOCATION AND ACCESS

The Tully property is the South and East parts of Tully Township (Lots 1 to 9; Concessions I and II) and in adjacent parts of Little and Evelyn Townships (Figure 1). The Tully property lies about 32 km NNE of Timmins, in northeastern Ontario, within the Porcupine Mining Division.

The property is most easily reached from Highway 101 (24 km east of Timmins) by travelling 5.2 km northeastwards along Highway 610 to Dugwal, thence northwards for about 15 km along the Ice Chest Lake gravel access road. The latter road passes through the eastern part of the property.

Numerous disused winter logging roads provide easy access to most areas of the property.

OWNERSHIP

Lacana Mining Corporation (P. O. Box 354, Suite 3701, Royal Trust Tower, Toronto-Dominion Centre, Toronto, Ontario M5K 1K7) is the recorded holder of 107 contiguous claims which currently comprise the property. The claim numbers are listed below:

522283 to 522291 incl.	--	9 claims
522393 to 522468 incl.	--	76 claims
522473	--	1 claim
522477	--	1 claim
525797 to 525800 incl.	--	4 claims
528025 to 528036 incl.	--	12 claims
546504 to 546507 incl.	--	<u>4</u> claims
<u>TOTAL</u>		<u>107 claims</u>

LOCATION OF 1982 WORK

During 1982, work was carried out on parts of the following claims:

WEST AREA

P522410 to 413
P522433 to 436
P522453 to 454

NORTH AREA

P522459
P522463 to 468
P522287 to 291
P522477

EAST AREA

P522417 to 418
P522430 to 432
P522437 to 439

SOUTH-EAST AREA

P522394
P522423

GEOLOGIC SETTING

Tully Township lies in the northern part of the Abitibi greenstone belt, about 22 km north of the Porcupine-Destor fault (Figure 2). The Tully property is overlain by 80 to 270 feet of glacial overburden and lies near the southern extremity of the northeastern Ontario clay belt.

Drill data indicate that the property is largely underlain by ultramafic-locally spinefex-textured-and mafic flows. EM data indicate that the trend of volcanic stratigraphy is EW in the south and southwest of the property and NW-SE in the northwest.

The areas in which work was carried out are each centred on W to WNW striking ultramafic to mafic flow contacts which are intermittantly marked by interflow sediments which are locally graphitic and thus conductive.

PREVIOUS EXPLORATION ACTIVITY

Previous exploration data are compiled on Ontario Geological Survey Preliminary Map P699 (Rev. 1980, Timmins data series). Due the thick cover of glacial overburden, little exploration was done prior to the discovery of the Kidd Creek base-metal sulphide deposit in the mid-'60's. Although subsequent exploration activity concentrated initially on base metals, gold deposits were discovered at Nickel Offsets' (McIntyre), Texmont and Frankfield in the west and northwest parts of Tully Township, respectively.

The present property was assembled by Rosario Resources Canada Limited in late 1978. That company conducted airborne

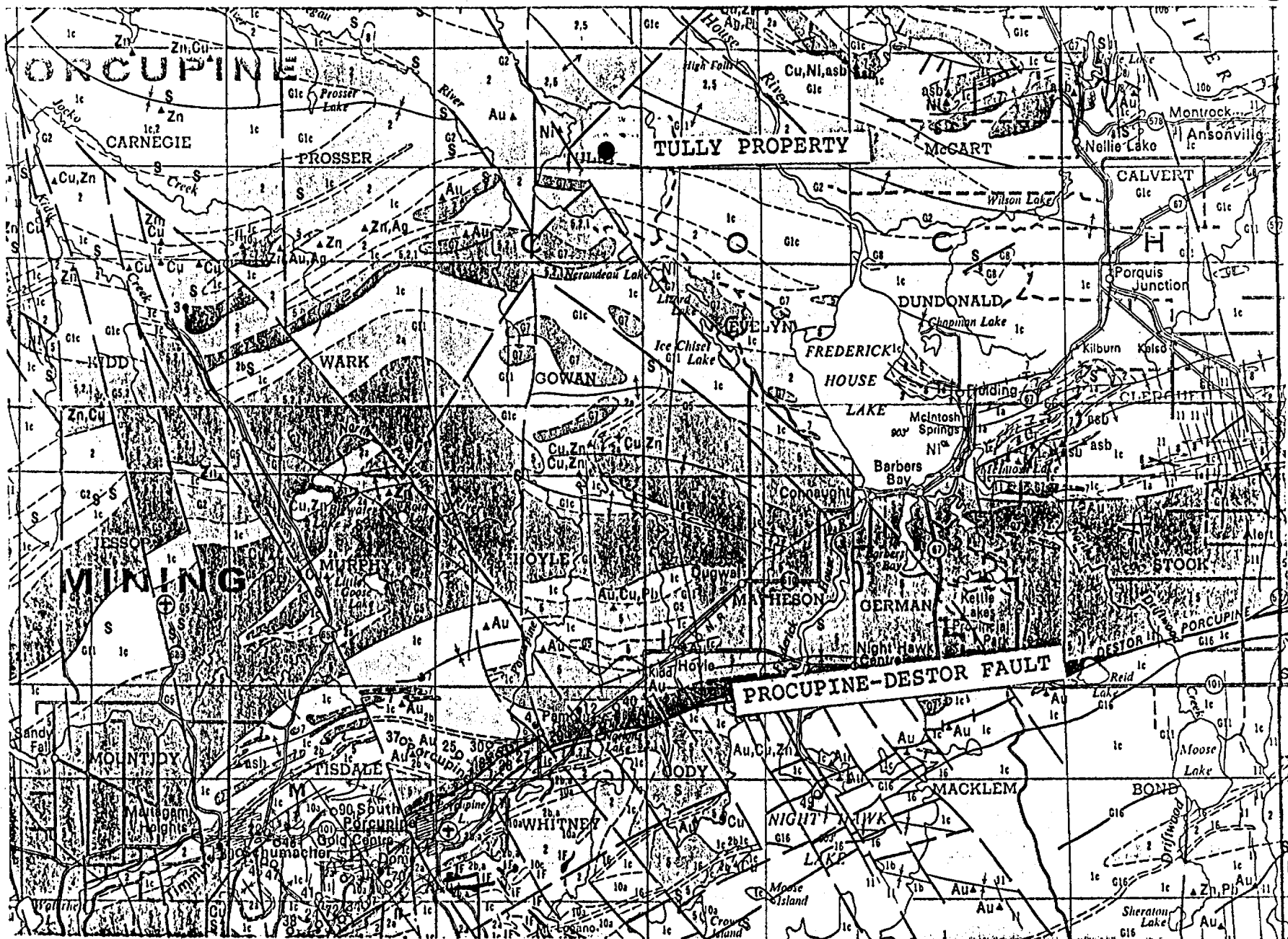


Figure 2 - Regional Geology (from OGS Map 2205, 1"=4 miles)

(INPUT and high resolution magnetometer) and ground EM (Max-Min II and III) geophysical surveys. In 1980, 14 diamond drill holes were completed.

In late 1980, the property was optioned by Lacana Mining Corporation. During the following spring, an overburden sampling program (reverse circulation drilling method) was carried out. The above work (1979-1981) has previously been filed for assessment credits.

SURVEY METHODS

Magnetic Survey

The survey was carried out using an EDA PPM 300 proton precession magnetometer with a staff (3 m high) mounted sensor. Diurnal variations were tracked with a PPM 400 automatic base station magnetometer with a tripod mounted sensor situated about 3 m above the ground surface. Specification sheets are attached.

The base station was initially located 10 m north of Nickel Offsets' winterized cabin (situated on claim P57468 where the magnetic field datum was 59357.1 gammas. The base station was subsequently moved to 40 north 1 west where the reference magnetic field was 59325 gammas.

At the beginning of the survey, internal base station and survey instrument clocks were synchronized (± 1 second or better) and were checked daily and maintained thereafter. Base station readings were taken at 15 second intervals.

Grid lines were run loop fashion with intermediate, 'spot' readings being taken between lines where position could

be established with reasonable certainty by pace and sighting. Base and tie lines were run to provide replicate readings which indicate that stations could be repeated to better than ± 2 gammas in areas of low to moderate magnetic relief and/or during magnetically quiet periods and to ± 10 gammas or better in areas of high magnetic relief and/or magnetically high periods.

Diurnal corrections were made automatically by linear interpolation between successive base station readings. In addition, a constant correction (59,000 gammas) was applied to each value to yield a 3 or 4 digit number.

Max-Min

The survey was carried out using the instrument in the Horizontal Loop mode. Instrument separations of 600 feet and 800 feet were used. Readings were taken at 100 foot intervals on cut and chained, picketed lines.

WEST AREA

Overburden sampling results show high gold contents ($\approx 2,000$ ppb in 'heavies' in clastics immediately overlying bedrock in holes 2 and 3) (see 1981 overburden drilling report) and up to 14,260 ppb Au in a bouldery till about 80 feet above bedrock in hole 5. The 1982 program was designed to locate potential local sources of the overburden anomalies.

Results, MaxMin EM

A weak HLEM (horizontal loop EM conductor trends across the grid at about 290° azimuth (Figures 3b and 3c in rear pocket)).

Magnetics

Magnetic features are generally weak, but suggest an E-W to NW-SE trend across the grid (Figure 3c). In view of the great variation in bedrock depth over the grid (143 to 268 feet (see 1981 report on overburden drilling)), it is difficult to interpret the data rigorously. A strong linear magnetic high was detected at the north end of lines 28W to 40W.

Magnetic and EM surveys have failed to outline new drill targets.

Recommendation

Max-Min-HLEM and magnetic surveys should be run on gridlines cut over and perpendicular to the axis of the magnetic high situated near the north ends of lines 28 and to 40 W.

NORTH AREA

Elevated gold values ($\sim 2,000$ ppb Au in heavies) were detected in locally developed till-like material (~ 110 feet below surface) in overburden hole LBT16 (see 1981 overburden drilling report). Conductive (graphitic) material lying between mafic volcanoclastics to the north and ultramafic flows and flow breccias to the south was cut by diamond drill hole T80-11 whose collar was situated near L8E, 90+50N.

1982 Results, Magnetics

A well defined magnetic high occupies the south and southwest parts of the grid (Figure 4a). The magnetic field in the areas to the north and east is of lower intensity, but is punctuated by short narrow magnetic highs.

MaxMin EM

A HLEM conductor lies north and parallel to the north margins of the magnetic high. It suggests that the contact between relatively magnetic ultramafic flows and less magnetic

mafic volcanoclastics coincides with the 59,410 gamma magnetic contour.

Diamond Drilling

Diamond drill hole, T82-15, was designed to test the mafic/ultramafic contact opposite the most highly magnetic part of the foot wall. T82-15 reached 284 feet in overburden and was abandoned. A second hole, T82-15A, reached bedrock 211 feet below surface (Figure 7b) and continued in ultramafic rocks, indicating that it passed over the bedrock conductor.

EAST AREA

Anomalous amounts of gold were reported in two diamond drill holes (T80-9, 1,425 ppb Au; T80-13, 795 ppb Au) which tested a discontinuous EW trending EM conductor which lies near 40N. Two other holes, T80-5 and T80-12, drilled near L40E, 40N apparently straddled the conductor. Three overburden holes drilled down-ice from the conductor returned a single slightly anomalous sample (672 ppb Au) from a section dominated by lacustrine clays and silts.

1982 Results, Magnetics

Magnetic results show a strong positive magnetic situated at the south margin of the 1982 grid (Figure 5a). Ovoid magnetic highs occur in the northeast corner and at the west edge of the grid.

MaxMin EM

An EM anomaly, stronger at the west end, weakens and bifurcates in the east part of the grid (Figures 5b and 5c).

Diamond Drilling

Diamond drill hole, T82-16, (Figures 8a and 8b) was designed to test the conductor which was apparently straddled by T80-5 and T80-12. From north to south, the hole intersected carbonated talcose ultramafic rocks and mafic tuffs containing a thin ultramafic flows and two feet of conductive graphitic material near the bottom of the hole. Due to unexpectedly deep overburden (220 feet vs 103 and 113 feet in the earlier holes at essentially the same location) this hole may also have passed over the conductor cut by T80-9 400 feet to the west.

T82-17 (Figure 8c) was designed to test the wide diffuse EM conductor mid-way between T80-13 and T82-16. A variety of altered (typically carbonated, but locally talcose) ultramafic rocks including a conductive graphitic section are contained between basaltic flows to the north and flows and a dioritic body to the south.

No significant gold assays were reported.

SOUTH-EAST AREA, Magnetics

A limited amount of magnetic surveying (Figure 6) was carried out over existing grids in order to determine the relationship between previously tested conductor (T80-1 and T80-2) and magnetic (foot wall?) rocks. The magnetic rocks were found to lie north of the conductor indicating therefore that the hole was drilled in the correct direction.

APPENDIX A

REPORT OF EXPENDITURES

APPENDIX B

DIAMOND DRILL LOGS, ASSAY REPORTS,
LOCATION MAPS AND SECTIONS

ASTRONOMIC

200 feet

P 522 287

P 522 288

LACANA

CONVENTURES LIMITED
MURPHY OIL COMPANY LTD
LACANA MINING CORPORATION

CANADIAN MINERALS JOINT VENTURE

DRILL HOLE LOCATION MAP

DOHS T 82-15 AND 15A

TULLY TWP (LOT 7, N $\frac{1}{2}$; CON II N $\frac{1}{4}$)

PREPARED BY	SCALE	DATE	SHEET NO.	FIGURE
PC	1" = 200'	25 August 81		7a

96N
T82-15
T82-15A

92N Baseline

L12W

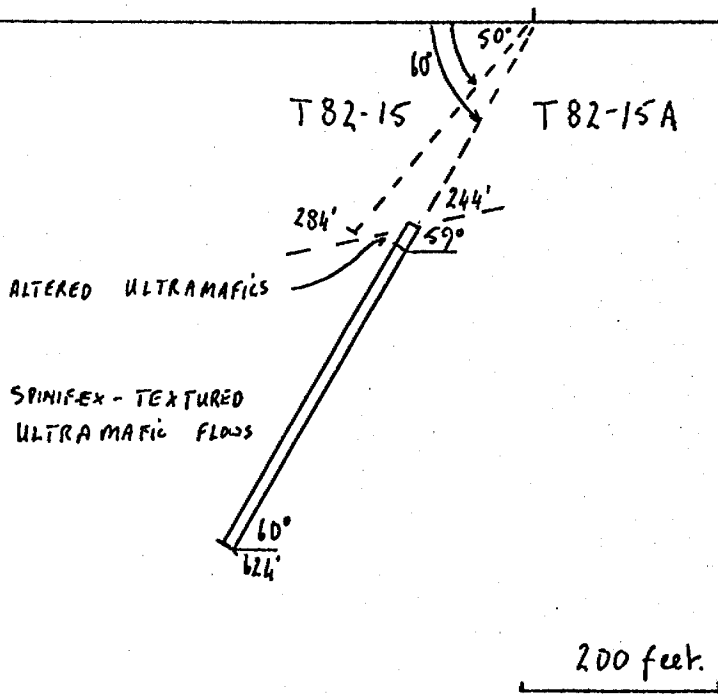
L8W

L4W

L0

T82-15 and 15A
 L0, 96N (1982 grid)

←
 Az = 210°



LACANA		CONVENTURES LIMITED MURPHY OIL COMPANY LTD LACANA MINING CORPORATION		
CANADIAN MINERALS JOINT VENTURE				
CROSS SECTION				
DDH - T82-15 AND 15A				
TULLY TWP (COR 7, N 1/2; CON II, NE 1/4)				
PREPARED BY	SCALE	DATE	WTS	FIGURE
PC	1":200'	25 August 88		76

DIAMOND DRILLING LOG

Start a new page for every new hole, but fill in top portion of form only on first page for each hole.

FILL IN ON EVERY PAGE

HOLE NO. T82-15	PAGE NO. 1 of 1
CLAIM NO. P522287	

DRILLING COMPANY Norex Drilling Limited		COLLAR ELEVATION 200	BEARING OF HOLE FROM TRUE NORTH 200	TOTAL FOOTAGE 284	DIP OF HOLE AT collar 50°	LOCATION OF HOLE IN RELATION TO A FIXED POINT ON THE CLAIM LO, 96N (1982 quad)	MAP REFERENCE NO.	LOCATION (Tp., Lot, Con. OR Lot, and Long.)
DATE HOLE STARTED 6 April 1982	DATE COMPLETED 15 April 1982	DATE LOGGED N/A	LOGGED BY Patrick Chance		ft		Tully (lot 7, N½; Con. II, SE ¼)	PROPERTY NAME Tully Township
EXPLORATION CO., OWNER OR OPTIONEE Iacana Mining Corporation		DATE SUBMITTED 25 August 1982	SUBMITTED BY (Signature) <i>Patrick Chance</i>		ft			
					ft			

FOOTAGE FROM TO		ROCK TYPE	DESCRIPTION Colour, grain size, texture, minerals, alteration, etc.	PLANAR FEATURE ANGLE	CORE SPECIMEN FOOTAGE	YOUR SAMPLE NUMBER	SAMPLE FOOTAGE FROM TO		SAMPLE LENGTH	ASSAYS +	
0	284	GLACIAL OVERBURDEN	- hole abandoned at 284 feet. Casing removed. Hole 'made' water below about 210 feet. <u>END OF HOLE</u>								

(Additional Information See Attachment No. 1)



THE MINING ACT - DEPARTMENT OF MINES
DIAMOND DRILLING LOG

Start a new page for every new hole, but fill in top portion of form only on first page for each hole.

FILL IN ON EVERY PAGE

HOLE NO. T82-15A PAGE NO. 1 of 3

DRILLING COMPANY NOREX DRILLING LIMITED		COLLAR ELEVATION 210	BEARING OF HOLE FROM TRUE NORTH 210	TOTAL FOOTAGE 624	DIP OF HOLE AT cellar -60	LOCATION OF HOLE IN RELATION TO A FIXED POINT ON THE CLAIM L O, 96 N (1982 grid)	MAP REFERENCE NO.	CLAIM NO. P522287	
DATE HOLE STARTED 15 April 1982	DATE COMPLETED 19 April 1982	DATE LOGGED 19 April 1982	LOGGED BY Patrick Chance		275 ft -59		LOCATION (T _p , Lot, Con. OR Lot. and Long.)	Tully (lot 7 N ₄ , Con. II SE ₄)	
EXPLORATION CO., OWNER OR OPTIONEE LACANA MINING CORPORATION		DATE SUBMITTED 25 August 1982	SUBMITTED BY (Signature) Nath. Uman.		624 ft -60		PROPERTY NAME Tully Township		
					ft				

FOOTAGE FROM	TO	ROCK TYPE	DESCRIPTION Colour, grain size, texture, minerals, alteration, etc.	PLANAR FEATURE ANGLE	CORE SPECIMEN FOOTAGE	YOUR SAMPLE NUMBER	SAMPLE FOOTAGE		SAMPLE LENGTH	Au ASSAYS	
							FROM	TO		oz./ton	
0	244	CASING	- glacial overburden. Hole 'made' water below 200 feet								
244	255	SERPENTINIZED ULTRAMAFIC ROCK	Dark grayish-blue, aphanitic, talcose ultramafic rock locally containing irregular patches of Mg-carbonate (alteration). Core is generally blocky (lengths <15 cm). Locally brecciated with talc-carbonate matrix (e.g. at 248'). Fractures tend to at obtuse angles to core axis; however, their surfaces are highly irregular.								
255	267	TALCOSE MUD	Plastic talcose mud containing comminuted talc-rock fragments interspersed with short (< 30 cm) blocky sections of talcose ultramafic rock similar in composition to 244 to 255 above.								
267	624	OLIVINE-PHYRIC ULTRAMAFIC FLOWS	<p>This unit comprises a succession of ultramafic flows defined by chilled/quenched margins. Large portions of these flows are autobrecciated (i.e. fractured <u>in situ</u>).</p> <p>Rock comprises pale olive-green aphanitic to dark-brownish 'bottle'-green olivine-phyric flows. Individual flows have quenched top containing skeletal olivine crystals in an aphanitic matrix.</p> <p>Chilled flow tops are 1 to 2 feet long and grade over several 5 cm to section containing euhedral olivine grains which locally form 'ear of wheat'-like aggregates. Some grains may be skeletal and lack cores. e.g. Bulk of flow unit (~90%) consists of generally dark 'bottle'-green rock containing medium grained olivine crystals set in a generally fine grained matrix. May also contain other mafic minerals (pyroxenes?).</p>								

* For features such as... for the top of the hole.

DIAMOND DRILLING LOG

 FILL IN ON EVERY PAGE HOLE NO. T82-15A PAGE NO. 2 of 3

FOOTAGE		ROCK TYPE	DESCRIPTION Colour, grain size, texture, minerals, alteration, etc.	PLANAR FEATURE ANGLE °	CORE SPECIMEN FOOTAGE +	YOUR SAMPLE NUMBER	SAMPLE FOOTAGE		SAMPLE LENGTH	Au oz./ton	ASSAYS +
FROM	TO						FROM	TO			
267	624	Continued	<p>Alteration not evident in chilled margins. In medium grained sections, olivine crystals may be cut by sinuous fractures. Locally white specks of Mg-carbonate are visible in matrix. Trace of v.f.g. Fe-sulphides (Py*Po) throughout core.</p> <p>Sinuous, highly irregular dark green-platy-talc-filled fractures cut rock. In parts of interval fractures sufficiently close to form <u>in situ</u> breccia.</p> <p><u>267-348</u> - 3 flows recognized</p> <p><u>A</u> <u>267-302</u> - 267-287 aphanitic to f.g. 287-301 m.g. 289-293 brecciated</p> <p><u>B</u> <u>302-326</u></p> <p>Interflow tuffs? 326-329 crudely banded fragmental-looking talc rock</p> <p><u>C</u> <u>329-348</u></p> <p><u>348-460</u> - flow units less easy to distinguish in part due to frequent brecciated sections which may include flow breccia between 408 and 439.</p> <p><u>444-460</u> - brecciated flow material</p> <p><u>460-462</u> - 16" wide v.c.g. (~5 cm) calcite vein Vein margins</p>								
				50°	466						

DIAMOND DRILLING LOG

FILL IN ON EVERY PAGE
 HOLE NO. T82-15A
 PAGE NO. 3 of 3

FOOTAGE FROM TO		ROCK TYPE	DESCRIPTION Colour, grain size, texture, minerals, alteration, etc.	PLANAR FEATURE ANGLE	CORE SPECIMEN FOOTAGE	YOUR SAMPLE NUMBER	SAMPLE FOOTAGE FROM TO		SAMPLE LENGTH	ASSAYS
										oz./ton
267	624	Continued	<p>Further identifiable flows</p> <p><u>462-485</u></p> <p><u>480-508</u></p> <p><u>508-548 - 542-8" of ribbony quartz carbonate vein</u></p> <p><u>548-(624)?</u></p> <p><u>END OF HOLE</u></p> <p><u>CORE STORED IN LACANA WAREHOUSE</u> <u>NIPISSING AVENUE, KIRKLAND LAKE</u></p> <p><u>SLUDGE ASSAYS ARE ATTACHED</u></p>							



BELL - WHITE ANALYTICAL LABORATORIES LTD.

P.O. BOX 187.

HAILEYBURY, ONTARIO

TEL: 672-3107

Certificate of Analysis

NO. 11182

DATE: April 20, 1982

SAMPLE(S) OF: Sludge(21)

RECEIVED: April 1982

SAMPLE(S) FROM: Mr. P. Chance, Lacana Mining Corporation

HOLE T82-15 A

<u>Footage</u>	<u>Oz. Gold</u>	<u>Footage</u>	<u>Oz. Gold</u>
240-250	Trace	350-360	Trace
250-260	0.002 *	360-370	0.002 *
260-270	0.002 *	370-380	0.002 *
270-280	0.002 *	380-390	0.002 *
280-290	Trace	390-400	Trace
290-300	Trace	400-410	0.002 *
300-310	Trace	410-420	0.002 *
310-320	Trace	420-430	0.002 *
320-330	Trace	430-440	0.002 *
330-340	Trace	440-450	0.002 *
340-350	Trace		

* Estimated.

IN ACCORDANCE WITH LONG-ESTABLISHED NORTH AMERICAN CUSTOM, UNLESS IT IS SPECIFICALLY STATED OTHERWISE GOLD AND SILVER VALUES REPORTED ON THESE SHEETS HAVE NOT BEEN ADJUSTED TO COMPENSATE FOR LOSSES AND GAINS INHERENT IN THE FIRE ASSAY PROCESS.

BELL-WHITE ANALYTICAL LABORATORIES LTD.

PER.



BELL - WHITE ANALYTICAL LABORATORIES LTD.

P.O. BOX 187.

HAILEYBURY, ONTARIO

TEL: 672-3107

Certificate of Analysis

NO. 11344

DATE: April 22, 1982

SAMPLE(S) OF: Sludge(17) Core(1)

RECEIVED: April 1982

SAMPLE(S) FROM: Mr. P. Chance, Lacana Mining Corporation

Hole T-82-15 A

Footage

Oz. Gold

450-460	0.002 *
460-470	0.002 *
470-480	0.002 *
480-490	0.002 *
490-500	Trace
500-510	0.012
510-520	0.002 *
520-530	Trace
530-540	Trace
540-550	Trace
560-570	Trace
570-580	Trace
580-590	Trace
590-600	Trace
600-610	0.002 *
610-620	Trace
620-624	Trace

Samp. No.

Oz. Gold

F19889	0.002 *
--------	---------

* Estimated.

IN ACCORDANCE WITH LONG ESTABLISHED NORTH AMERICAN CUSTOM, UNLESS IT IS SPECIFICALLY STATED OTHERWISE, GOLD AND SILVER VALUES REPORTED ON THESE SHEETS HAVE NOT BEEN ADJUSTED TO COMPENSATE FOR LOSSES AND GAINS INHERENT IN THE FIRE ASSAY PROCESS.

BELL-WHITE ANALYTICAL LABORATORIES LTD.

PER 

L40E

L44E

L48E

astronomic

L52E

P522437

P522438

T82-17 ← 118' →

OV = 228'

T82-16

42+50N

20'

OV = 184'

260'

T80-12

BASELINE (= 40M)

LRT 24

T80-5

540'

P522430

1007'

P522432

500 feet

LACANA

CONVENTURES LIMITED
MURPHY OIL COMPANY LTD
LACANA MINING CORPORATION

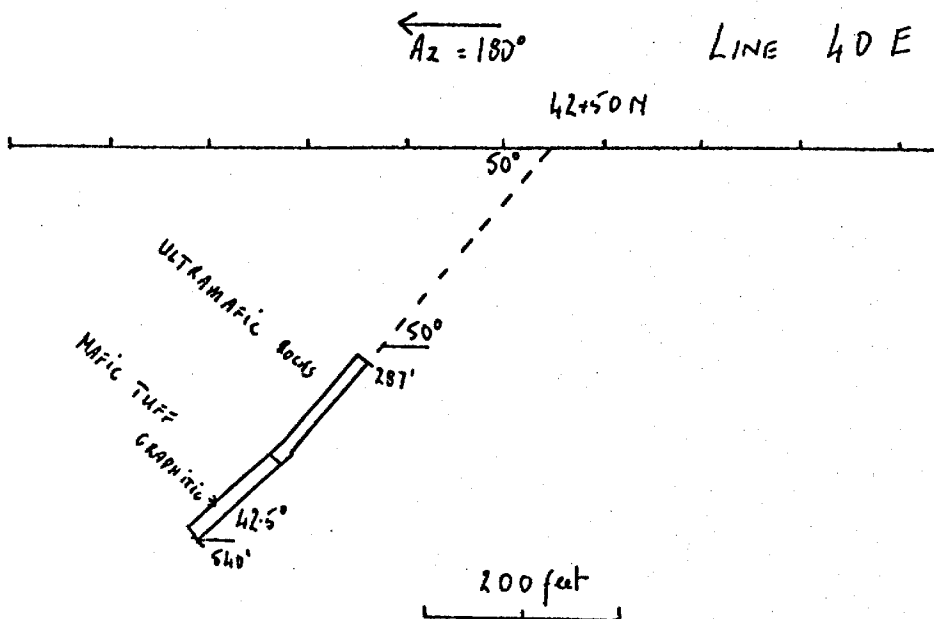
CANADIAN MINERALS JOINT VENTURE

DRILL HOLE LOCATION MAP

DDH T82-16 and 17

TULLY TWP (lot 5, N½; Con I, NE¼)

PREPARED BY	SCALE	DATE	N.T.S.	FIGURE
PL	1" = 200'	25 Aug '82		8a



LOCATION (1982 grid)
Line 40 E, 42+50 M.

LACANA		CONVENTURES LIMITED MURPHY OIL COMPANY LTD. LACANA MINING CORPORATION		
CANADIAN MINERALS JOINT VENTURE				
Cross SECTION				
PDH T 82-16				
TULLY TWP. (lot 5, N½; Con I, NE½)				
PREPARED BY	SCALE	DATE	NTS	FIGURE
PC	1" = 200'	25 Aug. 1984		86



THE MINING ACT - DEPARTMENT OF MINES
DIAMOND DRILLING LOG

Start a new page for every new hole, but fill in top portion of form only on first page for each hole.

FILL IN ON EVERY PAGE

HOLE NO. T82-16
PAGE NO. 1-3

DRILLING COMPANY NOREX DRILLING LIMITED		COLLAR ELEVATION 180		BEARING OF HOLE FROM TRUE NORTH 180		TOTAL FOOTAGE 540		DIP OF HOLE AT collar -50		LOCATION OF HOLE IN RELATION TO A FIXED POINT ON THE CLAIM L40E, 42+50 N (1982 grid)		MAP REFERENCE NO. P522437 & 438	
DATE HOLE STARTED 29 March 1982		DATE COMPLETED 2 April 1982		DATE LOGGED 3 April 1982		LOGGED BY Patrick Chance		260 ft -50		LOCATION (Tp., Lot, Con. OR Lot. and Long.) Tully (lot 5 N $\frac{1}{2}$, Con. I NE $\frac{1}{4}$)		CLAIM NO. P522437 & 438	
EXPLORATION CO., OWNER OR OPTIONEE LACANA MINING CORPORATION		DATE SUBMITTED 25 August 1982		SUBMITTED BY (Signature) <i>Patrick Chance</i>		540 ft -42.5		ft		PROPERTY NAME Tully Township			

FOOTAGE FROM TO		ROCK TYPE	DESCRIPTION Colour, grain size, texture, minerals, alteration, etc.	PLANAR FEATURE ANGLE °	BORE SPECIMEN FOOTAGE ±	YOUR SAMPLE NUMBER	SAMPLE FOOTAGE FROM TO		SAMPLE LENGTH	Au oz./ton	ASSAYS *
0	287	CASING	0-150 predominantly soft, water-saturated lacustrine clays 150-287 sands, gravels and boulder-bearing tills								
287	299	CARBONATE-BEARING TALC ROCK	Medium gray, generally fine grained, soft, soapy talcose rock containing perhaps 5-10% Mg - carbonate grains, visible as light patches and on cleavage faces in broken core. Primary structures not observed. Sulphides absent.								
299	425	CARBONATED ULTRA-MAFIC ROCK	Matrix is generally dark greenish gray and very fine grains. Identifiable minerals include sugar-like Mg-carbonate grains (grain size 0.01 mm to < 4 mm). Carbonate grains give cut surface a mottled appearance. Cross cutting features dominated by earlier irregular, sinuous veins and voids filled by v.c.g. milky white magnesium carbonate and locally containing massive talc 'cores'. From 321-327 talc is pale green, elsewhere it is v. dark bottle green. Later cross-cutting veins are thin (\approx 2 cm wide) planar quartz-carbonate veinlets which cut core at low angle to CA. Vein selvages are Mg-chlorite(?) coated. Carbonate alteration 'spots' are destroyed in wallrock adjacent to these veins (for up to \sim 0.5 cm). 334.5-339 - 60% irregular quartz veins and quartz-filled voids 337-2 feet of ground core 337-362 - early veins contain quartz-carbonate rather than talc cores 362-383 - v.c.g. carbonate with quartz bearing voids in early veins	35°	337	19880	334.5	339		Trace	

* For features such as inclusions, etc. see the log and the thickness of the core.

DIAMOND DRILLING LOG

 FILL IN ON EVERY PAGE HOLE NO. T82-16 PAGE NO. 3/3

FOOTAGE		ROCK TYPE	DESCRIPTION Colour, grain size, texture, minerals, alteration, etc.	PLANAR FEATURE ANGLE	CORE SPECIMEN FOOTAGE	YOUR SAMPLE NUMBER	SAMPLE FOOTAGE		SAMPLE LENGTH	Au ASSAYS	
FROM	TO						FROM	TO		Oz./ton	
474	500	<u>ULTRAMAFIC FLOW ROCK</u>	Greenish-gray fine to medium grained ultramafic rock cut by meandering dark gray aphanitic-mineral filled fractures. 486-488 - spinifex-type texture								
500	502	<u>BANDED GRAPHITIC AGGLOMERATE</u>	Generally angular dark gray aphanitic volcanic clasts set in a graphitic matrix. Clasts sand (crystal) to agglomerate size. Graphitic sections conductive ($R \approx 100 \Omega/\text{cm}$). Contains ~0.5 cm long grains (~5-7% of rock volume).	60-70°		19890	500	502		Trace	
502	540	<u>MAFIC TUFF</u>	Crudely banded, dark green granular (f-mg) mafic tuff. Appears to be poorly sorted but grain size relatively uniform. Contains occasional thin quartzose layers parallel to banding. May be cherty interbeds. Partings are chlorite coated. Irregular thin quartz bodies throughout. 522, 525, 527, 529, 537 and 540	67°		19887 19888	502 506	506 512		Trace "	
<u>END OF HOLE</u>											
CORE STORED AT LACANA WAREHOUSE, NIPISSING AVENUE, KIRKLAND LAKE.											
SLUDGE ASSAYS ATTACHED											



BELL - WHITE ANALYTICAL LABORATORIES LTD.

P.O. BOX 187.

HAILEYBURY, ONTARIO

TEL: 672-3107

Certificate of Analysis

NO. 9601

DATE: April 8, 1982

SAMPLE(S) OF: Sludge(22)

RECEIVED: April 1982

SAMPLE(S) FROM: Mr. P. Chance, Lacana Mining Corp.

TB2-16

<u>Footage</u>	<u>Oz. Gold</u>	<u>Footage</u>	<u>Oz. Gold</u>
300-310	0.002 *	420-430	0.005
310-320	0.002 *	430-440	0.002 *
320-330	0.002 *	440-450	Trace
330-340	Trace	450-460	Trace
340-350	0.002 *	460-470	0.002 *
350-360	0.002 *	470-480	0.004
360-370	Trace	480-490	Trace
380-390	Trace	490-500	0.002 *
390-400	0.006	500-510	0.002 *
400-410	0.014	510-520	Trace
410-420	0.002 *	520-530	0.002 *

* Estimated.

IN ACCORDANCE WITH LONG-ESTABLISHED NORTH AMERICAN CUSTOM, UNLESS IT IS SPECIFICALLY STATED OTHERWISE GOLD AND SILVER VALUES REPORTED ON THESE SHEETS HAVE NOT BEEN ADJUSTED TO COMPENSATE FOR LOSSES AND GAINS INHERENT IN THE FIRE ASSAY PROCESS.

BELL-WHITE ANALYTICAL LABORATORIES LTD.

PER

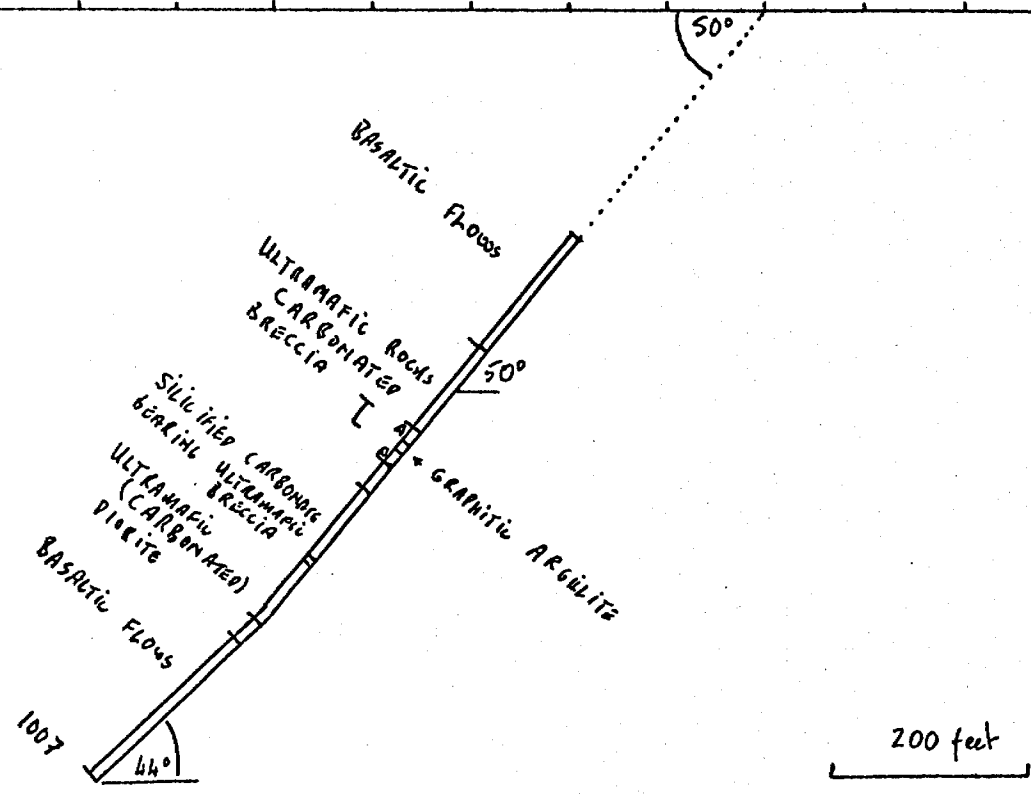
L52E

T82-17

Az = 180°
40N

35N

45N



LACANA		CONVENTURES LIMITED	
		MURPHY OIL COMPANY LTD.	
		LACANA MINING CORPORATION	
CANADIAN MINERALS JOINT VENTURE			
Cross Section			
DDH T 82-17			
Tully Tp (lot 5, N½; Con I, NE¼)			
PREPARED BY	SCALE	DATE	FIGURE
PC	1"=200'	25 August 1962	8c



THE MINING ACT - DEPARTMENT OF MINES
DIAMOND DRILLING LOG

Start a new page for every new hole, but fill in top portion of form only on first page for each hole.

FILL IN ON EVERY PAGE

HOLE NO. T82-17	PAGE NO. 1 of 5
CLAIM NO. P522438	
LOCATION (Twp., Lot, Con. OR Lat. and Long.) Tully (lot 5 N $\frac{1}{2}$ Conc. I NE $\frac{1}{4}$)	
PROPERTY NAME Tully Township	

DRILLING COMPANY NOREX DRILLING LIMITED		COLLAR ELEVATION	BEARING OF HOLE FROM TRUE NORTH 180°	TOTAL FOOTAGE 1,007	DIP OF HOLE AT COLLAR -50°	LOCATION OF HOLE IN RELATION TO A FIXED POINT ON THE CLAIM L 52 E , 45 N (1982 grid)
DATE HOLE STARTED 2 April 1982	DATE COMPLETED 8 April 1982	DATE LOGGED 9 April 1982	LOGGED BY Patrick Chance		500 ft 49°	
EXPLORATION CO., OWNER OR OPTIONEE LACANA MINING CORPORATION		DATE SUBMITTED 25 August 1982	SUBMITTED BY (Signature) <i>Patrick Chance</i>		100 ft 44°	
					ft	

FOOTAGE FROM	TO	ROCK TYPE	DESCRIPTION Colour, grain size, texture, minerals, alteration, etc.	PLANAR FEATURE ANGLE	CORE SPECIMEN FOOTAGE	YOUR SAMPLE NUMBER	SAMPLE FOOTAGE		SAMPLE LENGTH	AU	ASSAYS
							FROM	TO			
0	297	CASING	Glaciolacustrine overburden								
297	449	BASALTIC FLOW SUCCESSION	<p>Pale green, fine to coarse grained basaltic flow succession.</p> <p>Locally identifiable pale green feldspar (plagioclase) grains become slightly carbonated towards bottom of interval. Mafic minerals are fine grained, probably pyroxene but locally acicular (amphiboles).</p> <p>Pervasive pale green colour suggests sausalitization of calcic plagioclase. Mafic minerals in part replaced by chlorite.</p> <p>Cross cutting structures include calcite-filled and chlorite-lined irregular fillings of irregular auto breccia-like fractures.</p> <p>Planar features absent.</p>								
449	474	ULTRAMAFIC ROCK (CARBONATED)	<p>Grayish green, generally medium grained (with relatively uniform grain size) Mg-carbonated-bearing talcose ultramafic rock. Platy parting. Probably an ultramafic volcanoclastic.</p> <p>474-4 cm quartz vein perpendicular CW</p>	90°							
474	518	CARBONATED ULTRAMAFIC VOLCANICLASTIC	<p>Medium gray texturally variable granular-looking, fine to medium grained, locally banded, platy cleaved ultramafic tuff(?)</p> <p>In part granularity due to irregular grayish-white Mg-carbonate grains.</p>	70-85°							

* For features such as foliation, cleavage, etc., give the dip and the bearing of the line.

DIAMOND DRILLING LOG

FILL IN ON
EVERY PAGEHOLE NO.
T82-17PAGE NO.
2 of 5

FOOTAGE		ROCK TYPE	DESCRIPTION Colour, grain size, texture, minerals, alteration, etc.	PLANAR FEATURE ANGLE	CORE SPECIMEN FOOTAGE	YOUR SAMPLE NUMBER	SAMPLE FOOTAGE		SAMPLE LENGTH	Au ASSAYS	
FROM	TO						FROM	TO		OZ./TON	
474	518	Continued	Pervasive Mg-carbonate addition			19863	497	499		Trace	
			Rock cut by distinctive milky white, sutured or reticulated Mg-carbonate veins (≤ 0.8 cm wide) locally with talc. Veins	30-90°		19864	499	503		"	
518	557	<u>CARBONATED ULTRAMAFIC VOLCANICLASTIC</u>	As 474-518 above, but lacking carbonate-bearing veinlets. However, Mg-carbonate grains tend to be coarse grained. Banding.	70°		19858	537	540		.002	
			537.5-540 - quartz vein sub-parallel to CA containing small amounts of chlorite near margin.			19859	540	551		.002	
						19861	553	556			
557	577.5	<u>POLYMIC TIC VOLCANIC BRECCIA</u>	Polymictic volcanic breccia containing predominantly elongate mafic clasts with subordinate pale green, relatively hard aphanitic dacitic clasts and altered (chlorite plus carbonate) mafic clasts. Clasts tend to be 2 to 3 cm are elongate, sub-angular and are aligned 70° \wedge CA. Largest clast ~ 34 cm ϕ (at 557'). Proportion of clasts seems to increase down interval. Matrix is dark gray to black very fine grained slightly graphitic (R 200 μ /cm). Contains ($\approx 1\%$) large (≤ 0.5 cm ϕ) irregular pyrite aggregates.			19862	557	561		Trace	
						19865	561	567		"	
						19866	567	572		"	
						19867	572	577		"	
577.5	584	<u>BLACK PYRITIC ARGILLITE</u>	Dark gray to black delicately laminated graphitic argillite containing framboidal pyrite layers (≤ 2 mm thick) Bedding	75°		19868	577	581		"	
			Lacks identifiable alteration and veining			19869	581	584		"	
584	602	<u>VOLCANIC BRECCIA</u>	Elongate subangular aphanitic brownish green basaltic(?) clasts set in a pyrite-bearing graphitic matrix R $\geq 50 \mu$ /cm at 597' Clasts aligned 75°	75°		19870	584	588		"	
			Large irregular pyrite aggregates (1 to 5 mm diameter), constituting 3% of rock, occur in the matrix.			19871	588	591		"	
			Quartz (at 588, 592 and 594) seem to occupy irregular silicified zones sub-parallel to bedding. May be chert bands.			19872	591	596		"	
						19873	598	602		"	

DIAMOND DRILLING LOG

FILL IN ON
EVERY PAGE

HOLE NO.	PAGE NO.
T82-17	B 45

FOOTAGE		ROCK TYPE	DESCRIPTION Colour, grain size, texture, minerals, alteration, etc.	PLANAR FEATURE ANGLE	CORE SPECIMEN FOOTAGE	YOUR SAMPLE NUMBER	SAMPLE FOOTAGE		SAMPLE LENGTH	Au ASSAYS	
FROM	TO						FROM	TO		oz./ton	
602	632	<u>VOLCANICLASTIC</u> <u>(ULTRAMAFIC)</u>	Dark gray to greenish, fine grained, tuffaceous looking rock cut by irregular, diffuse Mg-carbonate-bearing fractures Irregular late quartz veins at 622' and 626 to 629' Gradational contact with next unit	5° 20°		19874	618	622		Trace	
632	688	<u>SILICIFIED</u> <u>CARBONATE-</u> <u>BEARING</u> <u>ULTRAMAFIC ROCK</u> <u>(STOCKWORK ?)</u>	Olive green to brown sugary Mg-carbonate-bearing ultramafic rock cut by barely discernible pale gray, diffuse-margined, quartzose bands Although quartz bodies tend to be aligned 55 to 75° CA, host rock has a brecciated appearance suggesting that unit is a silica-cemented stockwork.								
688	722	<u>SILICIFIED</u> <u>CARBONATED</u> <u>ULTRAMAFIC ROCK</u> <u>(STOCKWORK ?)</u>	Host rock is a dark greenish brown, slightly talcose, fine grained ultramafic rock containing large (< 0.4 cm) Mg-carbonate grains. Quartz bands more easily distinguished due to lighter tone. These veins are cut by thin (0.7 cm) generally planar quartz-carbonate filled veins. 705-706 - py aggregates up to 0.5 cm long in quartz carbonate veins.	20-70°							
722	732	<u>VOLCANIC</u> <u>BRECCIA</u>	Paler greenish gray, fine grained volcanic rock. Generally darker than ultramafic rock above. Lacks large carbonate grains. Locally brecciated sections contain lighter and darker clasts, of which lighter clasts tend to be more angular. Breccia matrix is quartz and calcite. Veining where present.	70°							
732	819	<u>CARBONATED</u> <u>ULTRAMAFIC ROCK</u>	Dark bluish gray to greenish-brown, fine grained, talcose ultramafic rock containing prominent generally equant Mg-carbonate grains. Cut by occasional thin (≤ 0.5 cm wide) quartz-calcite veins Contact gradational with unit below.	40-70°							

DIAMOND DRILLING LOG

FILL IN ON EVERY PAGE

HOLE NO. T82-17 PAGE NO. 8 of 5

FOOTAGE		ROCK TYPE	DESCRIPTION <small>Colour, grain size, texture, minerals, alteration, etc.</small>	PLANAR FEATURE ANGLE	CORE SPECIMEN FOOTAGE	YOUR SAMPLE NUMBER	SAMPLE FOOTAGE		SAMPLE LENGTH	Au ASSAYS	
FROM	TO						FROM	TO		oz./ton	
819	845	DIORITE <u>(INTRUSIVE)</u>	<p>Generally pale greenish, varies from aphanitic (819-832) to medium to coarse grained. Contains clayey white euhedral feldspar crystals (= 50%) with subordinate (5%) dark grains (?pyroxenes). Proportion of feldspar crystals increases towards bottom of section. Matrix palish green suggesting chloritization of mafic minerals. Small amount (< 5%) calcite in groundmass.</p> <p>Cut by quartz veins (≤ 1 cm wide) containing patches of pinkish feldspar (Ksp) and locally quartz Ca-carbonate cores. Veins may contain epidote.</p> <p><u>825-827</u> - complex meandering vein sub-parallel to core axis.</p> <p><u>835-838</u> - epidote-Kspar-quartz-calcite vein</p> <p><u>842</u> - 20 cm ultramafic xenolith Sharp contact with unit below</p>	25°							
845	1,007	MAFIC <u>(BASALTIC)</u> <u>FLOW</u> <u>SUCCESSION</u>	<p>Generally fine grained bluish-gray to green volcanic rock locally containing fine euhedral feldspar grains (plagioclase). Within interval massive flow sections, brecciated and chilled sections may be observed. Occasional thin weakly banded granular-looking sections appear to be interflow clastics.</p> <p><u>855-889</u> - fine grained basaltic flow unit</p> <p><u>889-892</u> - brecciated flow margin in dark possibly graphitic matrix ($R \geq 50,000 \Omega$)</p> <p><u>892-907</u> - flow unit to 897 f.g. chilled top to 907 grain size increases then decreases to f.g. within 2 feet of base</p>	35°							



BELL - WHITE ANALYTICAL LABORATORIES LTD.

P.O. BOX 187.

HAILEYBURY, ONTARIO

TEL: 672-3107

Certificate of Analysis

NO. 10485

DATE: April 15, 1982

SAMPLE(S) OF: Sludge(39)

RECEIVED: April 1982

SAMPLE(S) FROM: Lacana Mining Corporation

HOLE T82-17

<u>Footage</u>	<u>Oz. Gold</u>	<u>Footage</u>	<u>Oz. Gold</u>
337-347	Trace	540-550	Trace
347-357	0.002 *	550-560	Trace
357-367	0.002 *	560-570	0.002 *
367-377	0.002 *	570-580	Trace
377-387	0.002 *	580-590	0.002 *
387-397	0.002 *	590-600	Trace
397-407	0.002 *	600-610	Trace
407-420	0.002 *	610-620	0.002 *
420-430	0.002 *	629-639	0.002 *
430-440	0.002 *	637-647	0.002 *
440-450	0.002 *	649-659	Trace
450-460	0.002 *	657-667	0.002 *
460-470	0.002 *	667-677	Trace
470-480	Trace	677-687	Trace
480-490	0.002 *	687-697	Trace
490-500	0.002 *	697-770	Trace
500-510	0.002 *	707-717	Trace
510-520	Trace	730-740	0.002 *
520-530	Trace	Burnt Tag	Trace
530-540	Trace		

* Estimated.

IN ACCORDANCE WITH LONG-ESTABLISHED NORTH AMERICAN CUSTOM, UNLESS IT IS SPECIFICALLY STATED OTHERWISE GOLD AND SILVER VALUES REPORTED ON THESE SHEETS HAVE NOT BEEN ADJUSTED TO COMPENSATE FOR LOSSES AND GAINS INHERENT IN THE FIRE ASSAY PROCESS

BELL-WHITE ANALYTICAL LABORATORIES LTD.

PER _____

(TULLY)



42A11NE0013 63.4173 TULLY

900

Instructions

- Application must be accompanied by related spent on eligible exploration expenses.
 - Please type or print and submit related material.
- OMEPA
Room 4649, Whitney Block,
Queen's Park, Toronto, Ontario
M7A 1W3

Applicant's Identification and Location

Name Canadian Minerals Joint Venture 1980		
Address - Street Number and Name (Apt. No., R.R. No.) c/o Lacana Ex (1981) Inc., Box 354, T-D Centre, Royal Trust Twr.,		Telephone No. 416-367-0840
City, Town, Village Toronto	Province Ontario	Postal Code M5K 1K7

Head Office Location

Address - Street Number and Name As Above		Telephone No.
City, Town, Village	Province	Postal Code

Mailing Address (if different)

Address - Street Number and Name As Above		Telephone No.
City, Town, Village	Province	Postal Code

Source of Funding - Attach Agreement Copy

List Names and Addresses of principals and corporate data (where applicable) - attach list if space insufficient	
Lacana Ex (1981) Inc. - 33 1/3%	- As Above
Murphy Oil Company --- 33 1/3%	- 17th Floor, 800-6th Avenue, S.W. Calgary, Alberta T2P 3G3
Conventures Limited --- 33 1/3%	- Suite 402, The Bradie Building Calgary, Alberta T2P 0S8

Principal Business Activity

Mineral Exploration and Development	<input checked="" type="checkbox"/> Public <input type="checkbox"/> Private
--	--

Authorized and Issued Capital

Refer to previously filed data

Ontario Corporations Tax Branch Account Number Murphy Oil and Lacana Ex (1981) Inc., 484511, Conventures,	Fiscal Period Jan. 1-Dec. 31, 1982
---	--

Directors and Officers Attach list showing position title and name.	1269889 SEE PREVIOUSLY FILED DATA
--	--

Have you previously filed for grant or tax credit? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Is there any material, financial, or other difference since filing OMEPA Form 1? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
If "Yes" to either of the above two queries, explain on separate sheet and attach.	

Actual Commencement Date of Program Jan. 11, 1982	Actual Termination Date of Program Dec. 31, 1982
Signature of Applicant A Y Barker	Date of Application June 14, 1983

Statutory Declaration on Page 4 must be completed.

Program Expenditure Detail

Preliminary Exploration

If space insufficient, attach separate sheet

Budget

Actual

Preliminary Examination of Property and Associated Costs _____ hours/days @ \$ 250	\$ 1,500	\$ 924.39
Prospecting, Map Preparation and Associated Costs _____ hours/days @ \$ 250	1,500	1,694.00
Line Cutting, Chaining, Picketting, Grid Layout and Associated Costs _____ 17.7 miles @ \$ 358.13	11,200	6,339.00
Geophysical Surveys, Map and Report Preparation and Associated Costs (specify) Magnetics includes Supervision 22.9 miles @ \$ 449.26	8,000	10,288.04
(specify) Electromagnetics & Eqpt. Rental includes Supervision, 12.25 miles @ \$ 812.23	12,000	9,949.84
Geological Surveys, Map and Report Preparation and Associated Costs _____ miles @ \$ _____		
Geochemical Surveys, Map and Report Preparation and Associated Costs (specify) _____ miles @ \$ _____		
(specify) _____ miles @ \$ _____		
Drilling, Mobilization, Logging Core, Map and Report Preparation and Associated Costs _____ feet @ \$ _____	135,000	60,035.66
Dewatering, Rehabilitation, Sampling, Assaying, Map and Report Preparation and Associated Costs (specify) Assays	10,000	2,034.70
(specify) Supervision includes Travel & Camp Costs & Report Writing	11,250	4,496.11
(specify) Map and Report Preparation, Miscellaneous	2,250	887.06
Stripping, Trenching, Map and Report Preparation and Associated Costs _____ yards @ \$ _____		
_____ hours/days @ \$ _____		
Other Preliminary Exploration and Associated Costs Depreciation (attach detailed Schedules)		
(specify)		
(specify)		
Preliminary Exploration - Total		\$ 96,648.80

Advanced Exploration

Shaft Sinking, Drifting, Other Lateral Excavation and Associated Costs (25% of total eligible expenses allowed) \$ _____ per hour/day/feet/yards \$ _____		
\$ _____ per hour/day/feet/yards \$ _____		
Temporary Construction - Camp, Access Roads, Infrastructure, etc. (25% of total eligible expenses allowed)		
Other Advanced Exploration and Associated Costs Depreciation (attach detailed schedule)		
(specify)		
(specify)		
Advanced Exploration - Total		\$ _____

Total Eligible Exploration Expenditures	\$ _____	\$ 96,648.80
Less Proceeds from Mineral Resource Disposition (supply details)		
Net Eligible Exploration Expenditures		\$ _____
Grant and/or Tax Credit (25%)		\$ _____
Non-Eligible Program Expenditures (supply details) Overhead and Administration Charges	\$ 7,247.39	

Supplementary Information Subject to Geographic Confines of Local or Outside Area

Labour/Wages

Approximate figures acceptable

Type	No. of Men Employed		No. of Man Days Labour		Wages Paid	
	Local	Outside	Local	Outside	Local	Outside
Linecutters					\$	\$
General Labour	5					Contract
Prospectors						
Technicians						
Diamond Drillers		1				2,814.52
Geologists	8					Contract
Geophysicists		1				3,000.00
Geochemists		1			639.29	8,416.50
Supervisory & Consulting		1				
Other						2,000.00
Total					\$ 639.29	\$16,231.02

Goods / Services

	Local	Outside
Meals	\$ 1,800.00	\$
Camping Supplies, Equipment	1,091.51	
Accommodation	1,600.00	
Diamond Drilling - Contract	59,416.41	
Diamond Drilling - Other		
Overburden Testing	619.23	
Transportation - Air	813.44	813.44
- Vehicle Rentals		
Snowmachines		400.00
- Cost of Operating Vehicles	1,777.73	635.00
Maintenance to Trucks and Snowmobiles		
- Other	170.00	
Equipment Rentals - Trenching		
- Geophysical, etc.		
- Other		1,481.53
Assays	2,034.70	
Communication	436.50	350.00
Overhead		
Other		
Line Cutting Contractor	6,339.00	
Total	\$ 76,098.52	\$ 3,679.97
GRAND TOTAL - Labour/Wages + Goods/Services	\$ 76,737.81	\$19,910.99

The Ministry of Natural Resources may verify all statements related to and made herein this application.

STATUTORY DECLARATION

I, ALAN LEE BARKER
of the TOWN OF WHITBY
in the Province of ONTARIO

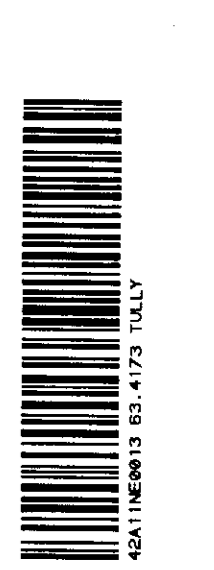
solemnly declare that:

1. I am the person or the representative of the person named in the application for a grant or tax credit under Section 3 of The Ontario Mineral Exploration Program Act 1980.
2. I have complied with all the requirements of the said Act and the regulations made thereunder.
3. I understand that it is an offence under the said Act to make a false or misleading statement and that all statements and all other information submitted in support of the said application are true and correct.
4. The person named in the said application is ordinarily resident in Canada.
5. I am not a person, nor am I a representative of a person, as the case may be, actively engaged in mineral production in Ontario.
6. I am not an associate of nor do I represent an affiliated corporation or an associate of any person actively engaged in mineral production in Ontario.
7. The proposed mineral exploration program that is the subject of the said application has not previously qualified for or received Federal Government or Ontario Government financial assistance.

And I make this solemn declaration conscientiously believing it to be true and knowing that it is of the same force and effect as if made under oath.

Declared before me at the City
of Whitby
this 14th day of June, 1983
A Commissioner, etc. [Signature]

Alan Lee Barker

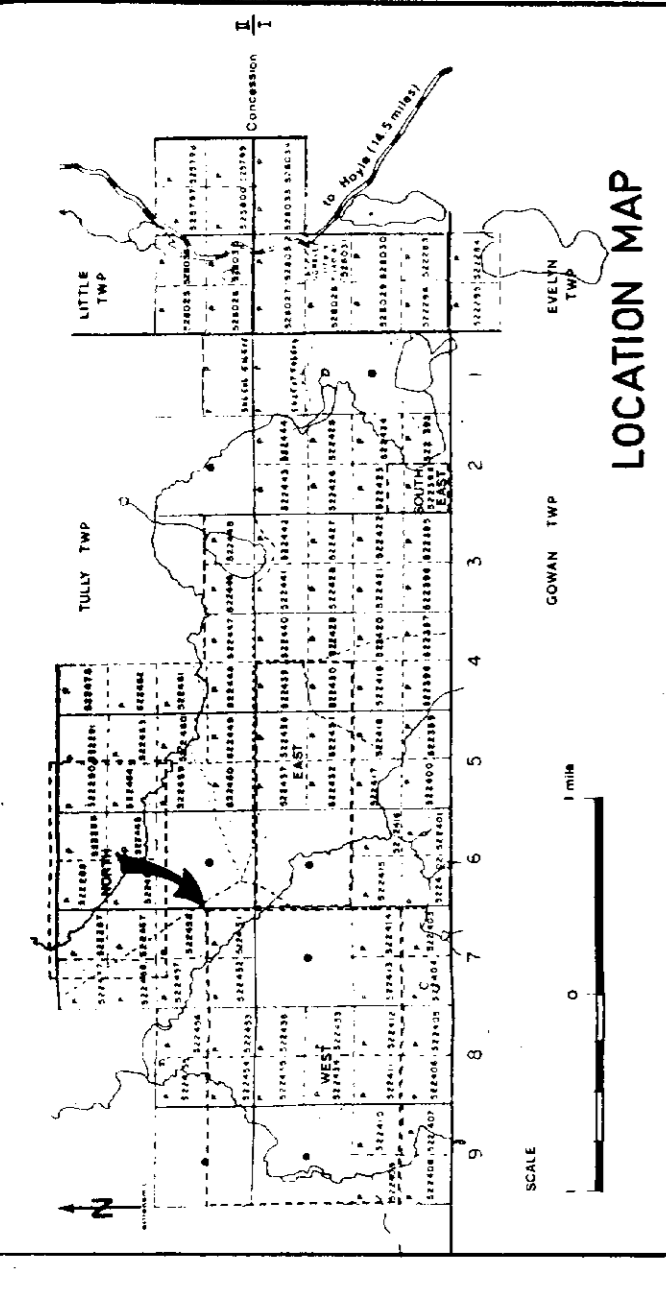
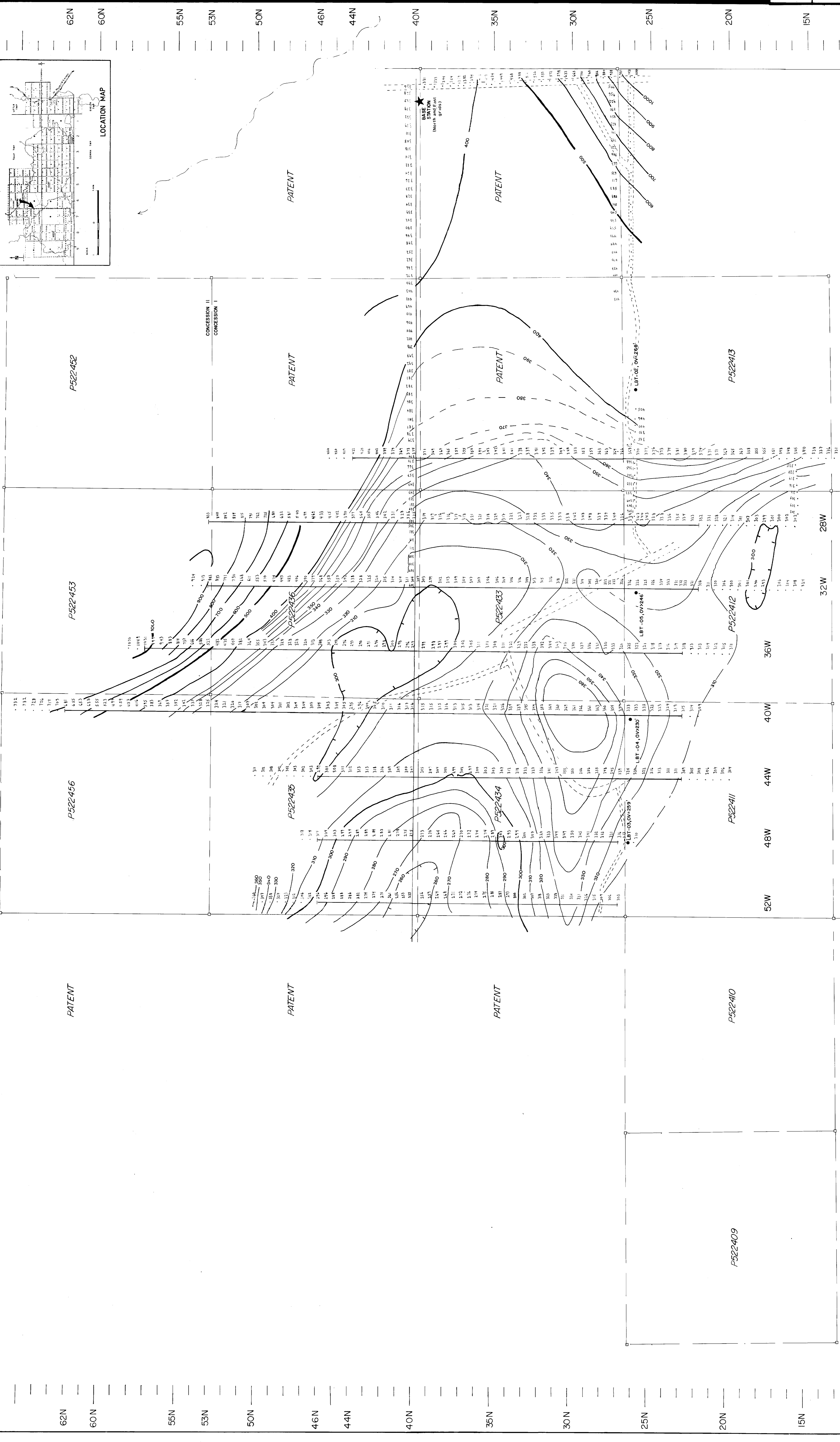


8000

62N 60N 55N 53N 50N 46N 44N 40N 35N 30N 25N 20N 15N 10N

LOT 9 LOT 8 LOT 7 LOT 6

24W 28W 32W 36W 40W 44W 48W 52W



LEGEND

- 500 f contour interval
- 100 f contour interval
- 50 f contour interval
- 10 f contour interval
- magnetic low
- overburden drill hole (1981) showing
- depth to bedrock
- diamond drill hole showing
- depth to bedrock
- claim post
- line (lot, concession)
- claim line

TECHNICAL DATA

Survey instrument - EDA model PPM 300 proton precession magnetometer with 3 m staff-mounted sensor

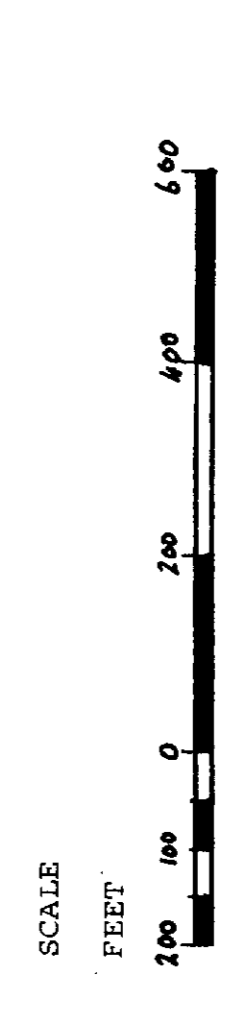
Base station - EDA model PPM 400 proton precession magnetometer situated 10 m North of Nickel Offsets*
 Utilized cabin where
 total field = 59377.1 γ
 Sampling interval: 15 seconds
 Data correction method: Linear interpolation
 Total field = value shown + 59,000.0 gammas

Operator: P. CHANCE **Dates of Survey:** 7 Feb. 1982 to 9 Feb. 1982

SPECIFICATIONS OF INSTRUMENTS

Dynamic range = 18,000 to 93,000 γ
 Processing sensitivity (total field) ± 0.02 γ
 Statistical error resolution 0.01
 Mathematical truncation error ± 0.02
 Display resolution (total field) 0.1 γ
 Absolute accuracy: ± 15 ppm over operating temperature range
 Operating temperature range: -40° C to +50° C
 Automatic tunings: ± 1% of last stored value

* NOTE: 1 gamma = 1 nanotesla (nT)



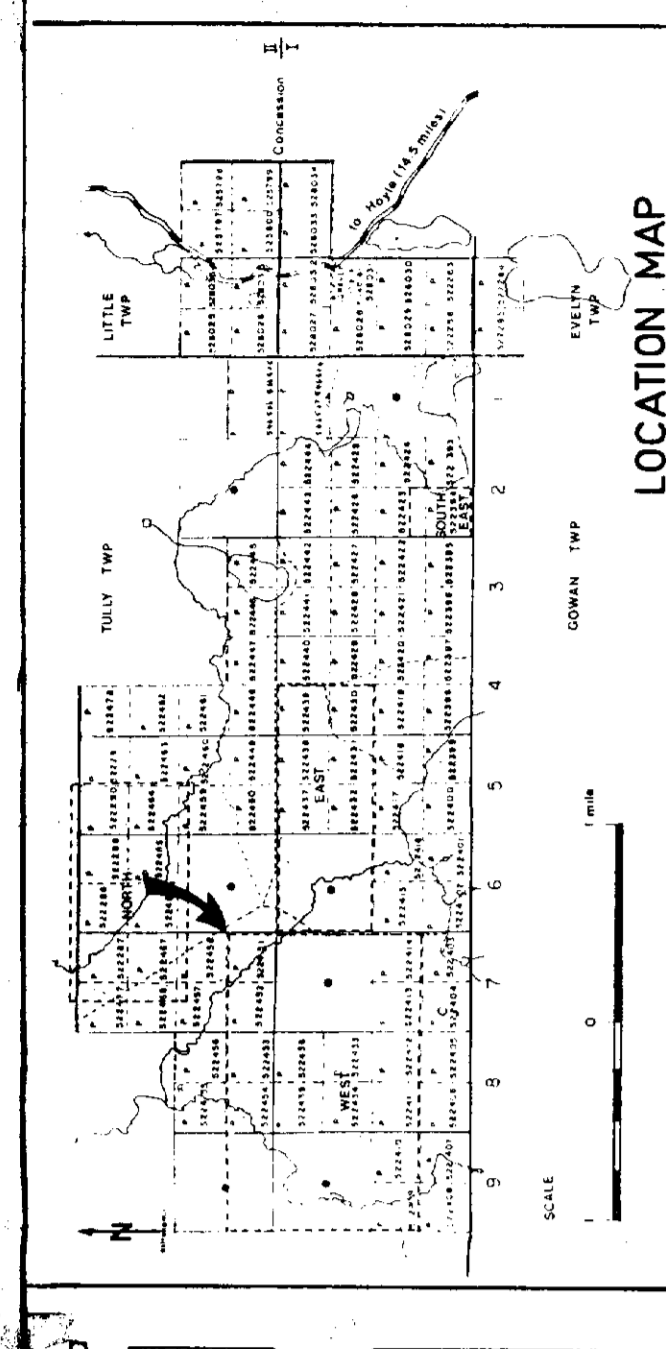
LACANA
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 CONVENTURES LTD
 LACANA MINING CORPORATION

CANADIAN MINERALS JOINT VENTURE

TULLY TOWNSHIP PROPERTY
 POLKUPIC MINE DISTRICT
 ONTARIO
 WEST GRID
 UTM/MAGNETIC FIELD

63-473

PREPARED BY: SCALE 1"=200' **DATE:** 6 OCT. 1982 **FIGURE:** 42 N/11 3a
 P. CHANCE 9 and 10

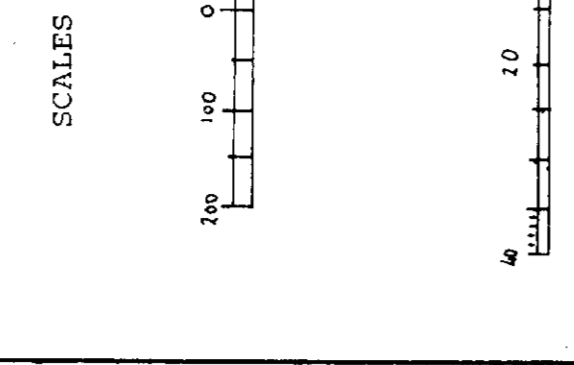


- LEGEND
- in-phase component
 - out-of-phase component
 - cut and chained line showing values of in-phase (to left) and out-of-phase components
 - Conductor axis (defined, possible)
 - Lacana overburden drill hole showing depth to bedrock
 - 1980 or 1982 diamond drill hole showing surface projection and vertical depth to bedrock
 - Claim post showing concession and lot lines (solid) and claim lines (dashed)
 - Ketchikan logging trails disused
 - Creek

TECHNICAL DATA

Instrument - Max-Min II horizontal loop EM
 Cable length - 600 feet
 Frequency - 444 Hz
 Operators - Yvon Gaudreau Plotted by - Y. G. George Murphy

Dates of survey - 7 to 9 February 1982



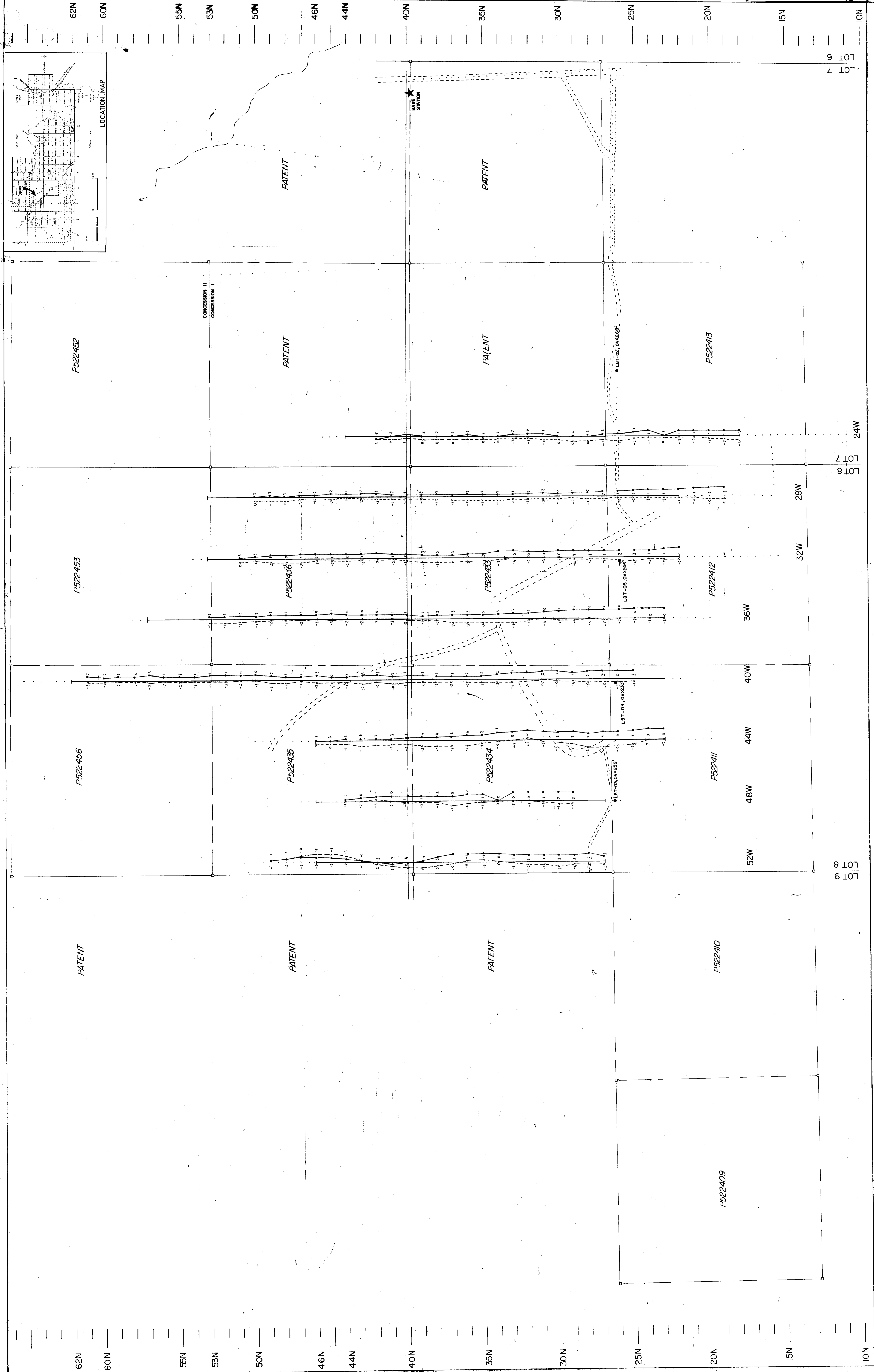
63.4173

LACANA
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 LACANA MINING CORPORATION

CANADIAN METALS STEEL SERVICE
 FIELD RESEARCH PROPERTY
 PROSPECTIVE AREA DIVISION
 KETCHIKAN DISTRICT
 YESSA CREEK

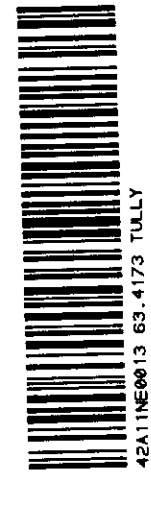
MAX-MIN II ELECTROMAGNETIC SURVEY
 FREQUENCY 444 Hz, 600 FOOT CABLE

PREPARED BY: P. CHANCE	SCALE: 1"=200'	DATE: 6 Oct. 1982	N.T.S. SHEET: 42 N/11 9 and 5	FIGURE: 3b
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LOT 9
 LOT 8
 LOT 7
 LOT 6

52W 48W 44W 40W 36W 32W 28W 24W



LOT 9
LOT 8
LOT 7
LOT 6

52W 48W 44W 40W 36W 32W 28W 24W

62N 60N 55N 53N 50N 46N 44N 40N 35N 30N 25N 20N 15N 10N

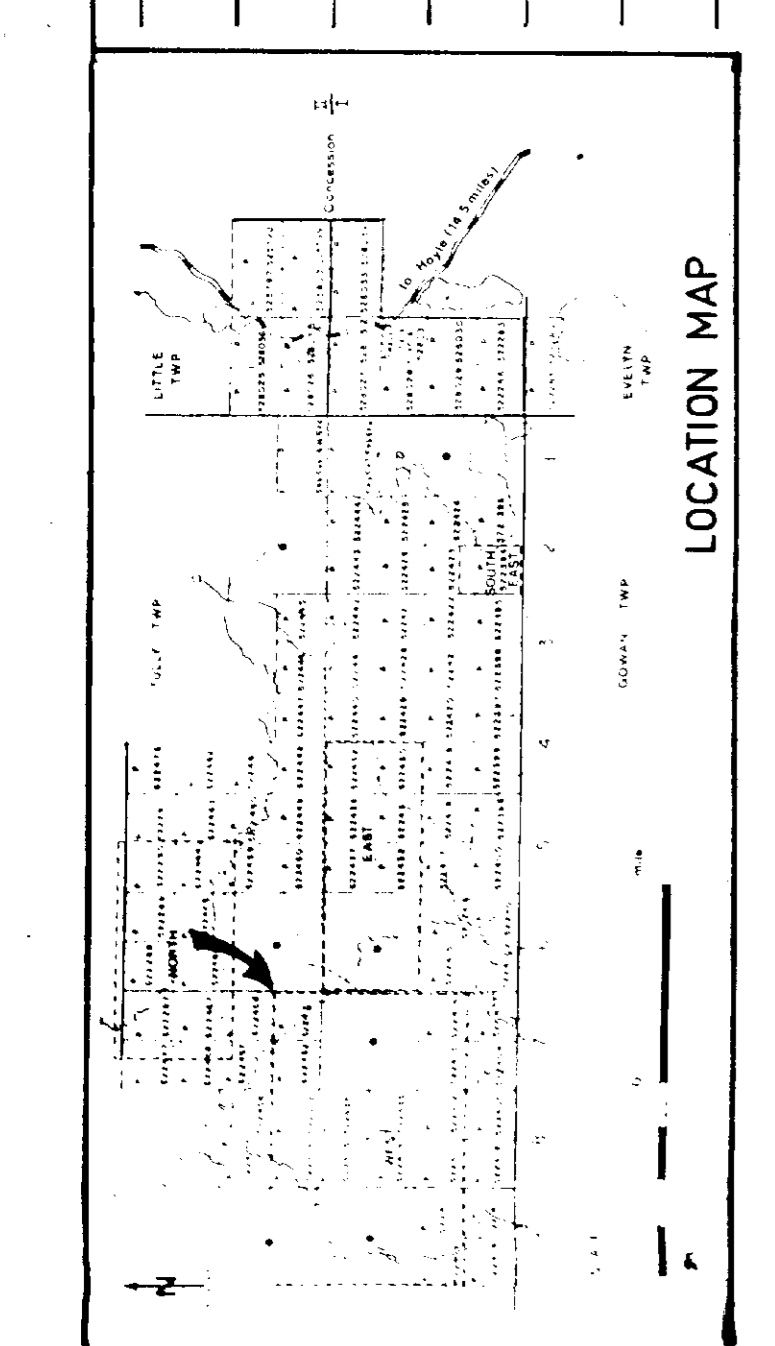
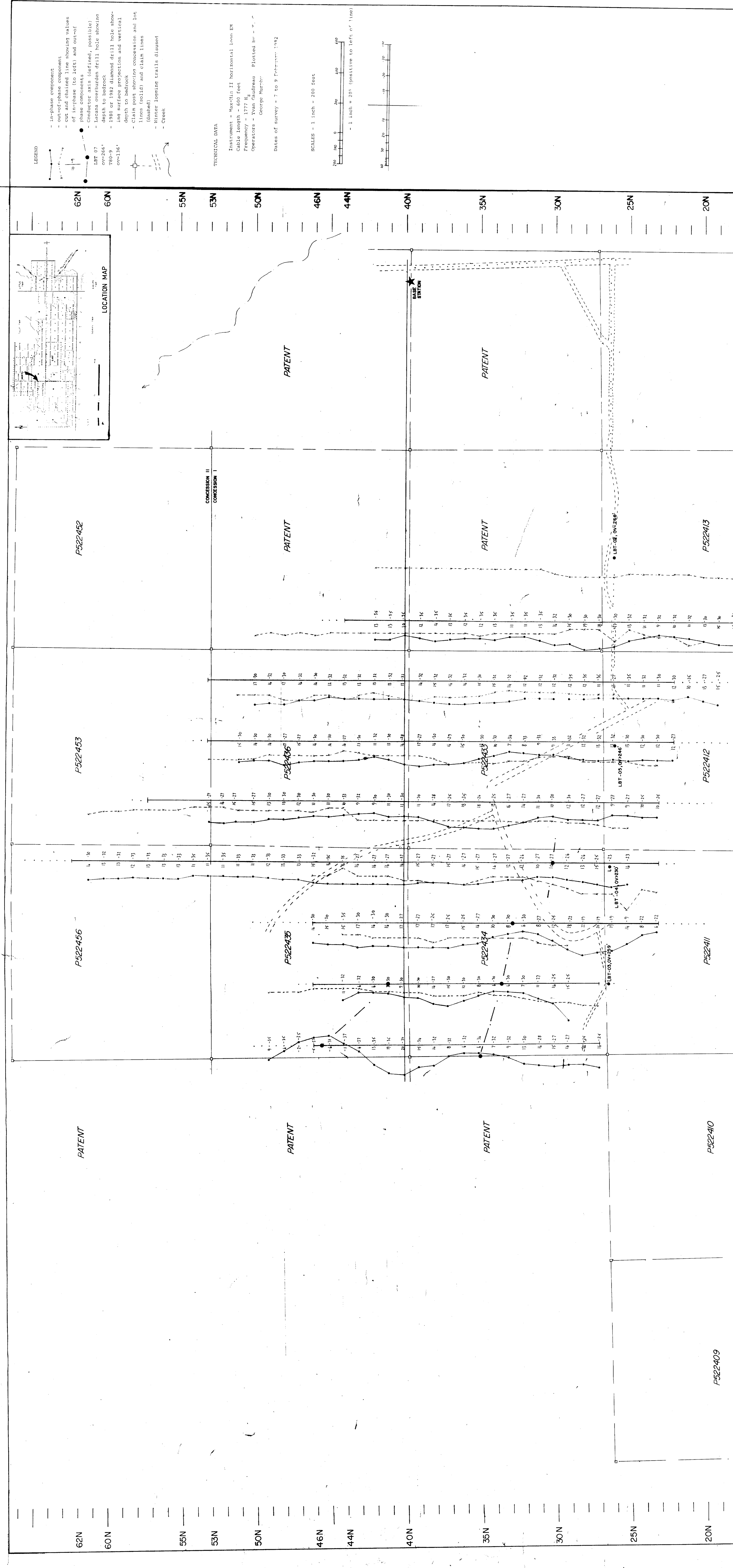
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MINING OIL COMPANY LTD
CONVENTURES LTD
LACANA MINING CORPORATION

63-4173

CANADIAN MINERAL RIGHTS REGISTRY
TELLUS PROSPECTOR PROPERTY
PROSPECTIVE RIGHTS DIVISION
SHEETS

MINING OIL COMPANY LTD
1000-1111 BROADVIEW AVENUE
TORONTO, ONTARIO M6H 3R7

DATE: 08/11/2009
SCALE: 1"=200'
FIGURE: 7



LEGEND

- In-phase component
- Out-of-phase component
- Out-of-phase (100' line showing values of in-phase (dotted) and out-of-phase components)
- Conductor axis (dashed, possible)
- LBT 07
- LBT 09
- 1980 or 1982 diamond drill hole showing surface projection and vertical depth to bedrock
- Claim post showing concession and lot lines (solid) and claim lines (dashed)
- Winter tomms trails diaused
- Creek

TECHNICAL DATA

Instrument - Maxchi II Horizontal Iron EM
Cable Length - 600 feet
Frequency - 177 Hz
Operators - Yvan Gaudreau Plotted by - v. r.
George March

Dates of survey - 7 to 9 February 1982

SCALES - 1 inch = 200 feet
- 1 inch = 20' (positive to left of line)

TECHNICAL DATA

Survey instrument - EDA model PPM 300 proton
 Procession magnetometer with 3 m
 staff-mounted sensor

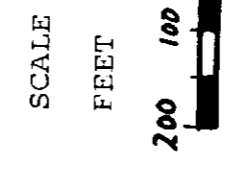
Base station - EDA model PPM 400 proton
 Procession magnetometer situated at
 1.40 N, 2 W where total field = 592477
 Sampling interval: 15 seconds
 Date correction method: Linear interpolation
 Total field = value shown + 59,000.0 gammas

Operator: P. CHANCE Dates of Survey: 10 Feb. 1982
 to 12 Feb. 1982

SPECIFICATIONS OF INSTRUMENTS

Dynamic range = 18,000 to 91,000 γ
 Processing sensitivity (total field) ± 0.02 γ
 Statistical error resolution 0.01
 Mathematical truncation error ± 0.02
 Display resolution (total field) 0.1 γ
 Absolute accuracy: ± 15 ppm at 23°C
 temperature range
 Operating temperature range: -40° to +50° C
 Automatic tuning: ± 15% of last stored value

* NOTE 1 gamma = 1 nanotesla (nT)



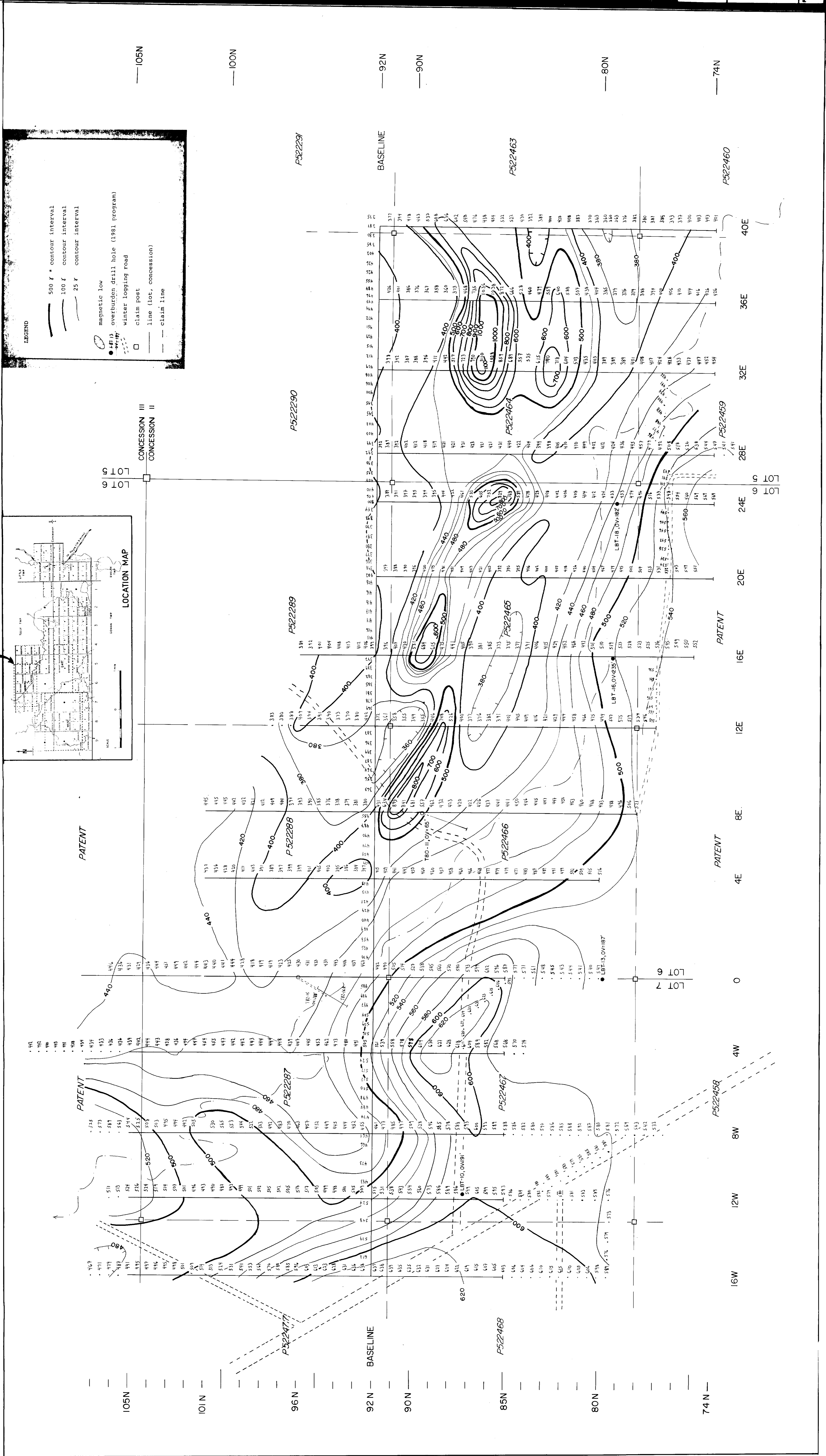
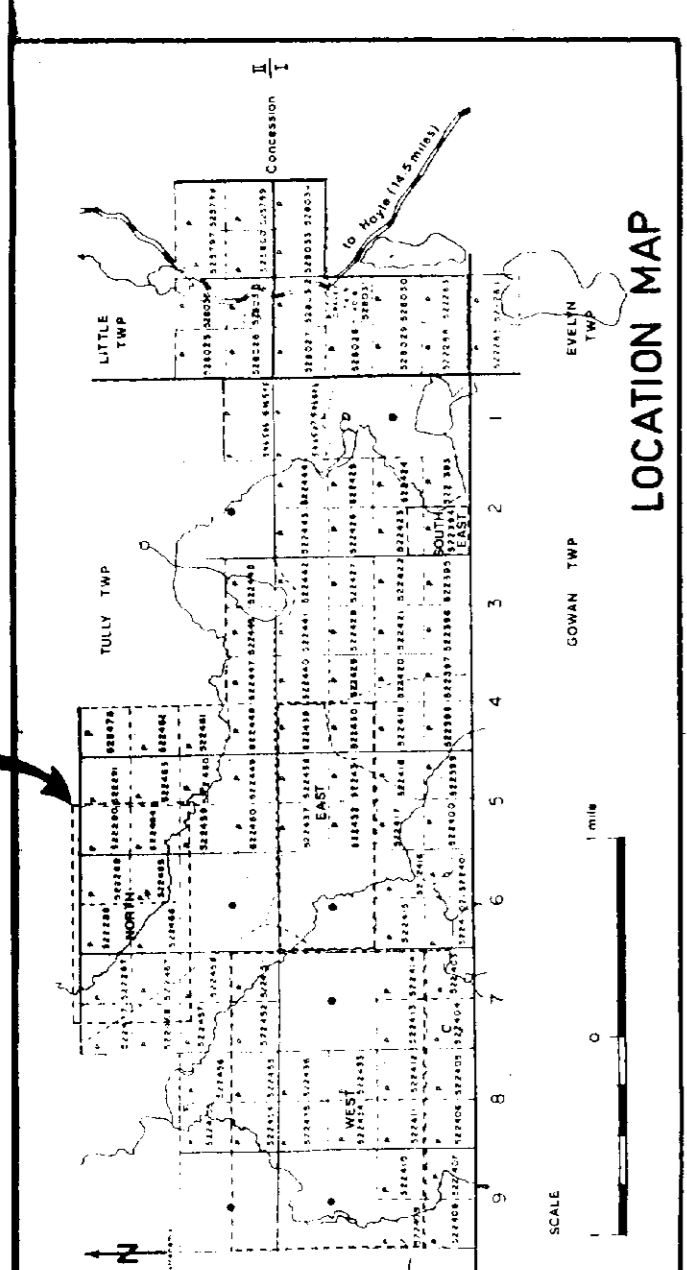
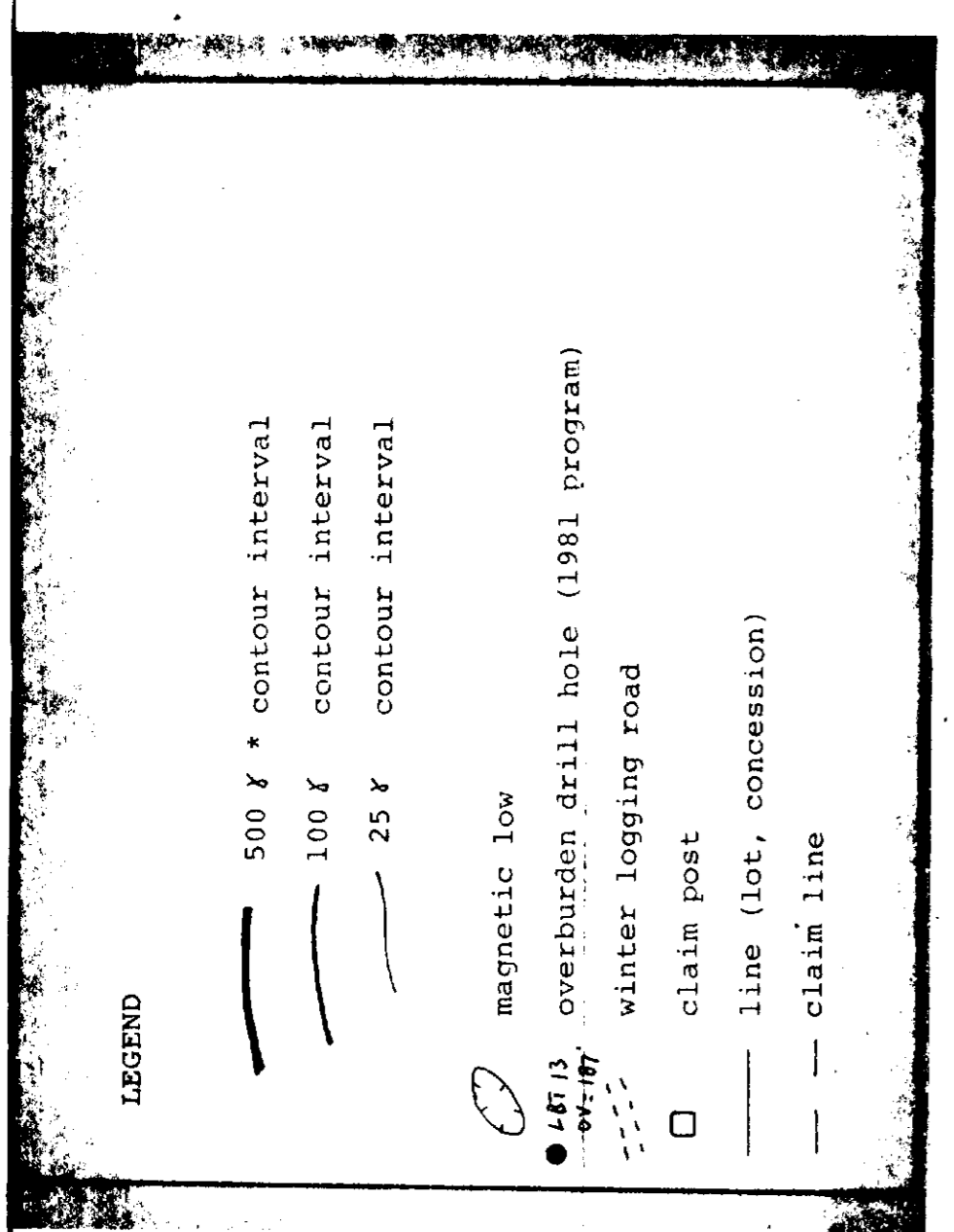
63-4173

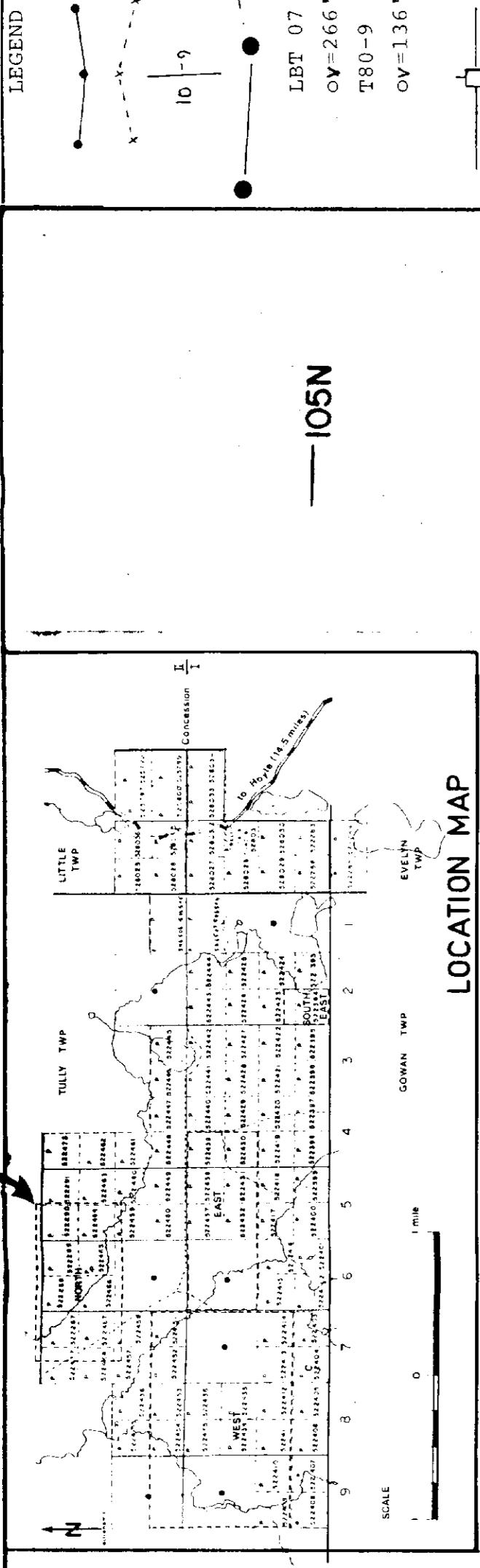
LACATA
 MURPHY OIL COMPANY LTD
 CONVENTURES LTD
 LACANA MINING CORPORATION

CANADIAN MINERALS JOINT VENTURE

TULLY TRUSTEED PROPERTY
 PORCUPINE MINING DIVISION
 ONTARIO
 SOUTH GRID
 TOTAL MAGNETIC FIELD

PREPARED BY: SCALE: 1"=200'
 P. CHANCE
 DATE: 6 Oct. 1982
 N.T.S. SHEET: 4B
 FIGURE: 4B



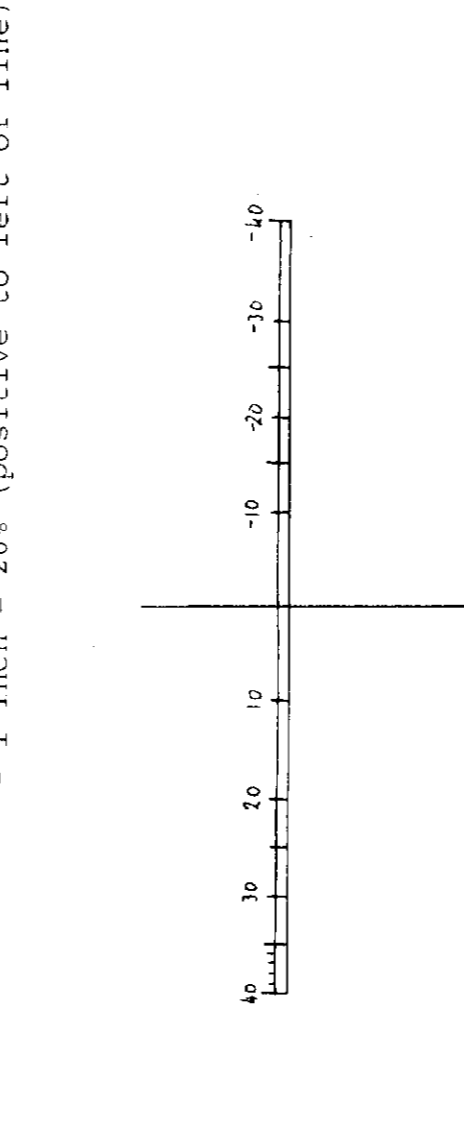
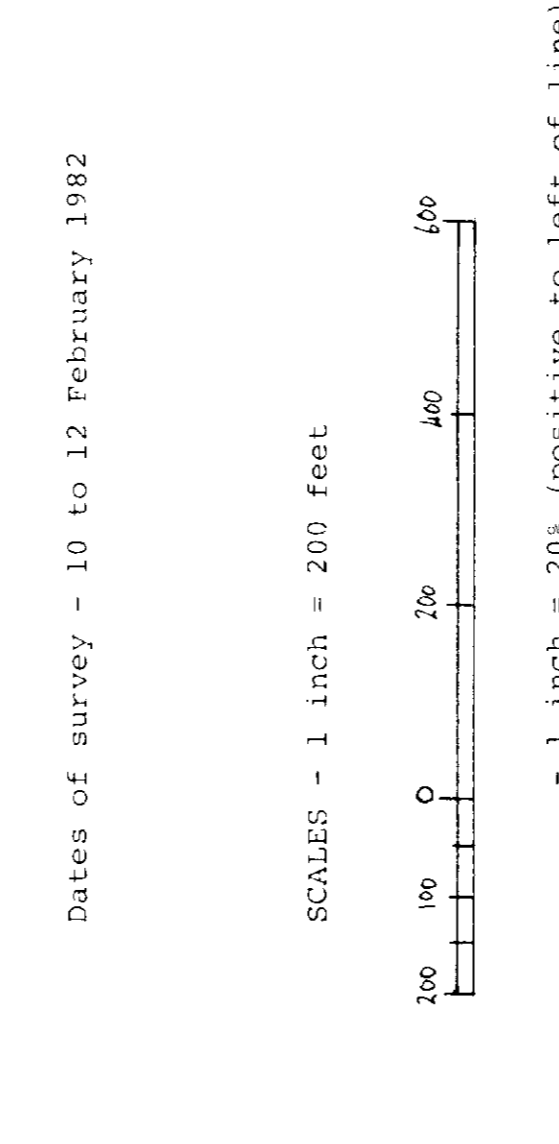


- LEGEND**
- In-phase component
 - out-of-phase component
 - cut and chained line showing values of in-phase (to left) and out-of-phase components
 - Conductor axis (defined, possible)
 - Lacana overburden drill hole showing depth to bedrock
 - 1980 or 1982 diamond drill hole showing surface projection and vertical depth to bedrock
 - Claim post showing concession and lot lines (solid) and claim lines (dashed)
 - Winter logging trails disused
 - Creek

TECHNICAL DATA

Instrument - Max-Min II horizontal loop EM
 Cable length - 600 feet
 Frequency - 444 Hz
 Operators - Yvan Gaudreau Plotted by - Y.G.
 George Murphy

Dates of survey - 10 to 12 February 1982



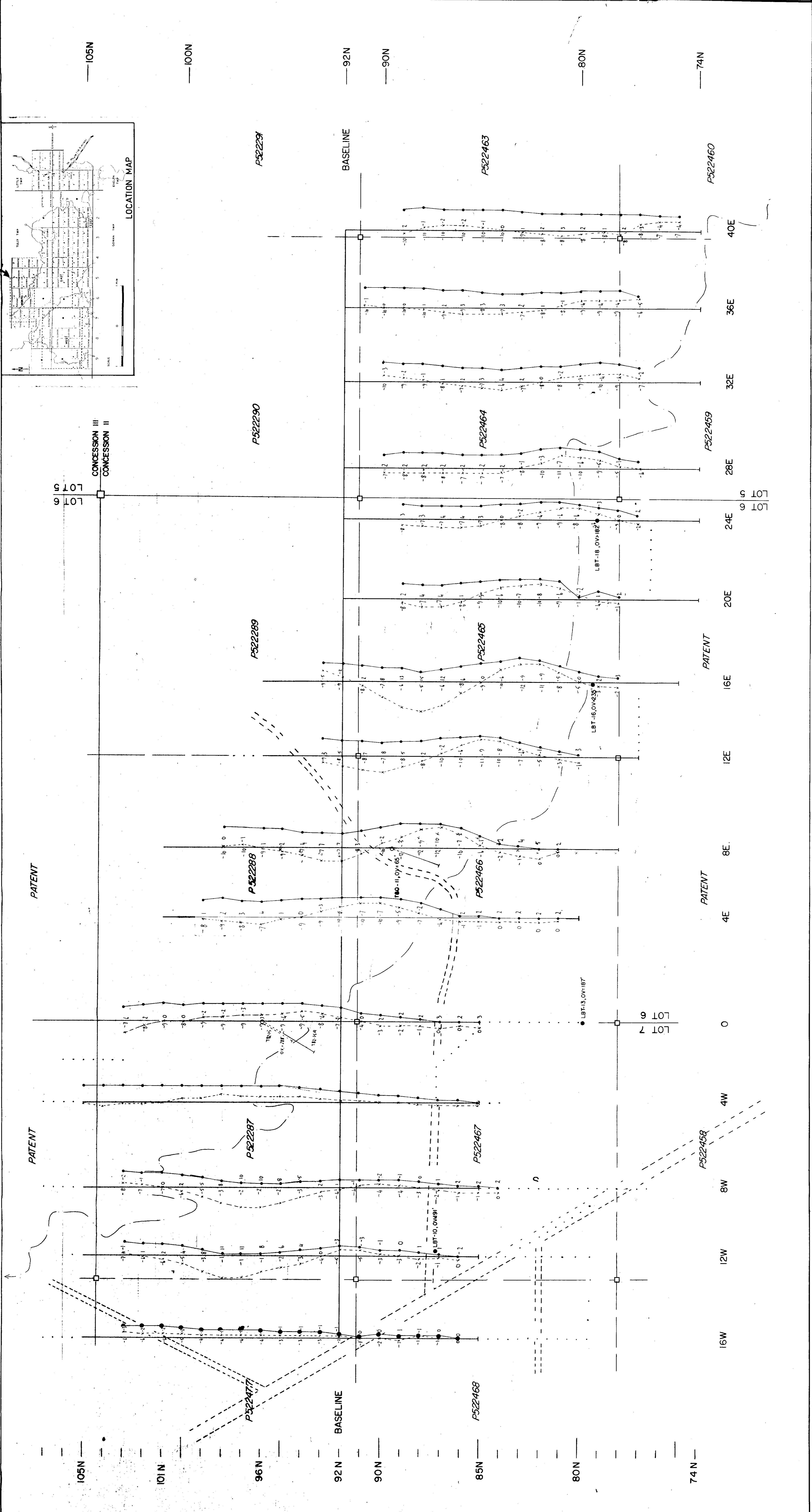
LACANA

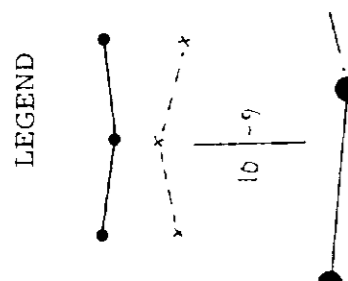
MURPHY OIL COMPANY LTD
 CONVENTURES LTD
 LACANA MINING CORPORATION

CANADIAN MINERALS JOINT VENTURE
 TULLY TOWNSHIP PROPERTY
 PARCELS 444 H. 1 TO 10
 ONTARIO
 NORTH 9210
 MAX-MIN II ELECTROMAGNETIC SURVEY
 FEBRUARY 1982 444 H. 1 600 FOOT CABLE

63-4173

PREPARED BY: P. CHANCE	SCALE: 1"=200'	DATE: 6 OCT. 1982	N.T.S. SHEET: 42 X/11 4 and 4	FIGURE: 4b
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- in-phase component
- out-of-phase component
- cut and chained line showing values of in-phase (to left) and out-of-phase components
- Conductor axis (defined, possible)
- Lacena overburden drill hole showing depth to bedrock
- 1980 or 1982 diamond drill hole showing surface projection and vertical depth to bedrock
- Claim post showing concession and lot lines (solid) and claim lines (dashed)
- Winter logging trails disused
- Creek

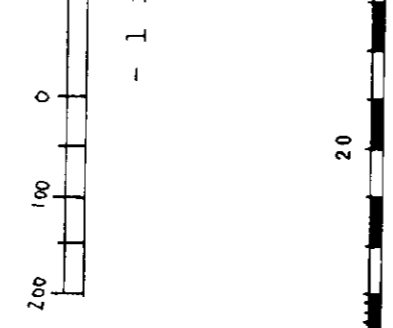
LBT 07
 ov=266'
 T80=9
 ov=136'

TECHNICAL DATA

Instrument - Max-Min II Horizontal Loop EM
 Cable length - 600 feet
 Frequency - 1777 Hz
 Operators - Yvan Gaudreau Plotted by - Y.G.
 George Murphy

Dates of survey - 10 to 12 February 1982

SCALES - 1 inch = 200 Feet



63-4173

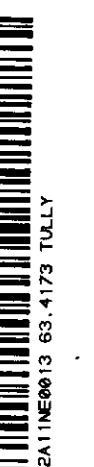
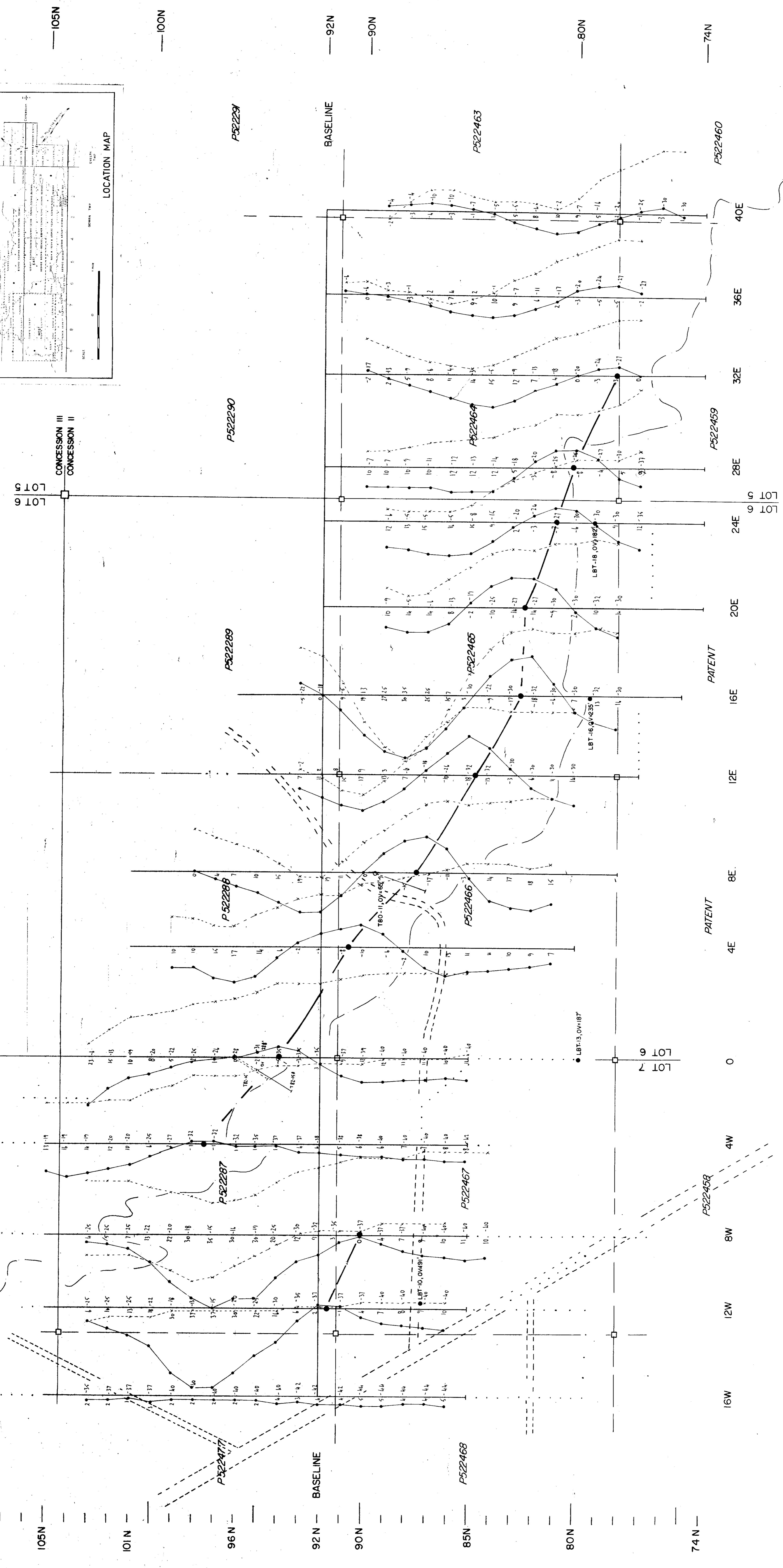
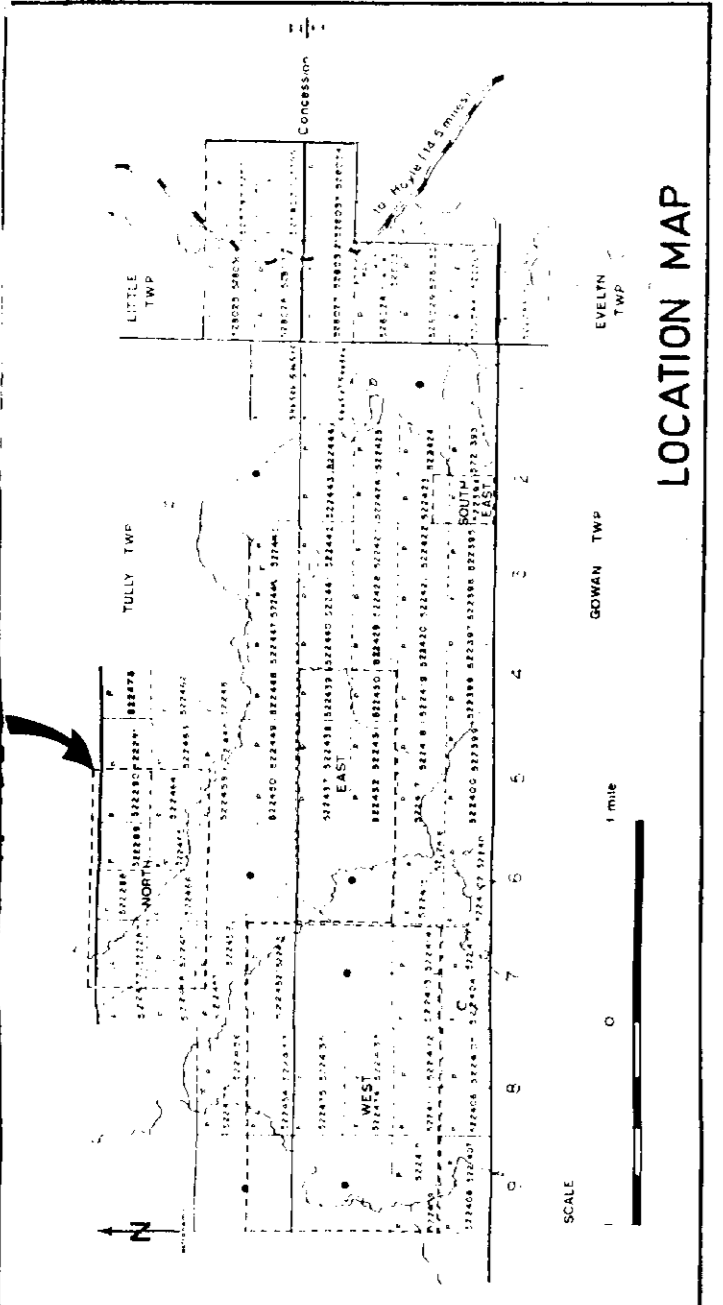


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 CONVENTURES LTD
 LACANA MINING CORPORATION

CANADIAN MINERALS JOINT VENTURE
 TULLY OWNERSHIP PROPERTY
 PONTIAC DIVISION
 ONTARIO

SOUTH 200
 MAX-MIN II ELECTROMAGNETIC SURVEY
 FREQUENCY 1777 Hz, 600 FOOT CABLE

PREPARED BY: SCALE P. GIBBANE 1"=200'	DATE: 4. Oct. 1982	N.T.S. SHEET: FIGURE: .42 N/11 a and b
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LEGEND

- 500 x * contour interval
- 100 x contour interval
- 25 x contour interval
- magnetic low
- overburden drill hole (1981 program) (showing depth to bedrock)
- LF-71
OV-138
- diamond drill hole (showing projection to bedrock depths)
- winter logging road
- claim post
- line (lot, concession)
- claim line

TECHNICAL DATA

Survey instrument - EDA model PPM 300 proton
 Precession magnetometer with 3 m
 staff-mounted sensor

Base station - EDA model PPM 400 proton
 Precession magnetometer situated at
 L 40 N, 2 W where total field = 593247 γ

Data correction methods: Linear interpolation
 Total field = value shown + 59,000.0 gammas

Operator: P. CHANCE Date of Survey: 18 Feb. 1982
 to 14 Feb. 1982



63.4173

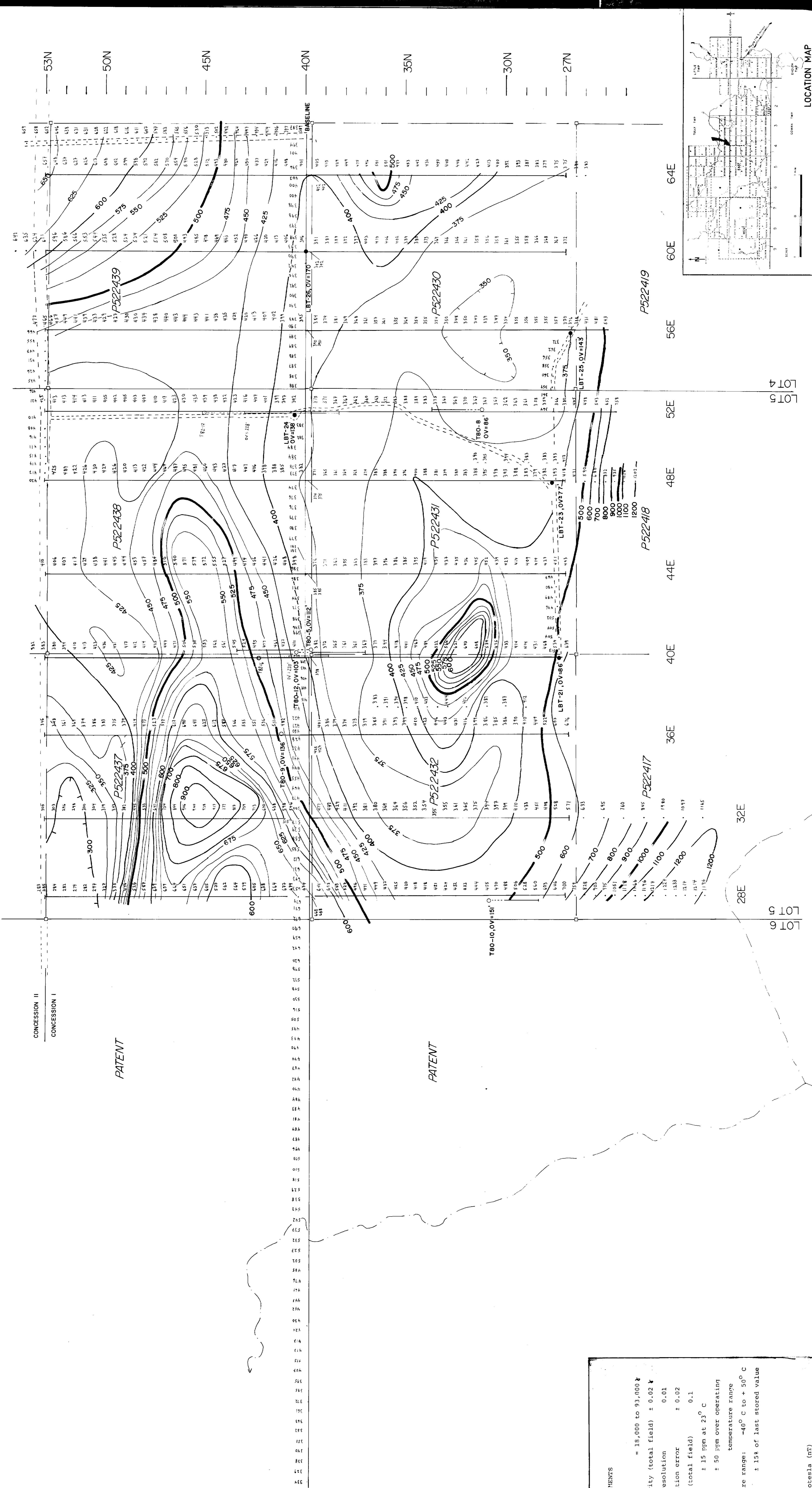


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 CONVENTURES LTD
 LACANA MINING CORPORATION

CANADIAN MINERALS JOINT VENTURE

TOLLY TOWNSHIP PROPERTY
 PORCUPINE METAL DIVISION
 ONTARIO
 EAST GRID
 TOTAL MAGNETIC INT'D

PREPARED BY:	SCALE:	DATE:	N.T.S. SHEET:	FIGURE:
P. CHANCE	1"=200'	6 Oct. 1982	A7 A/11	5a



SPECIFICATIONS OF INSTRUMENTS

- Dynamic range = 18,000 to 93,000 γ
- Processing sensitivity (total field) $\pm 0.02 \gamma$
- Statistical error resolution = 0.01
- Mathematical truncation error ± 0.02
- Display resolution (total field) = 0.1
- Absolute accuracy: $\pm 15 \text{ ppm at } 23^\circ \text{C}$
- Operating accuracy: $\pm 50 \text{ ppm over operating temperature range}$
- Operating temperature range: $-40^\circ \text{C to } +50^\circ \text{C}$
- Automatic tuning: $\pm 15\%$ of last stored value

* NOTE 1 gamma = 1 nanotesla (nT)



LEGEND

- in-phase component
- out-of-phase component
- cut and chained line showing values of in-phase (to left) and out-of-phase components
- Lacina overburden drill hole showing depth to bedrock
- 1980 or 1982 diamond drill hole showing surface projection and vertical depth to bedrock
- Claim post showing concession and lot lines (solid) and claim lines (dashed)
- Winter logging trails (dashed)
- Creek

LBT 07
or=266'
T80-9
or=136'

TECHNICAL DATA

Instrument - Max-Min II horizontal loop EM
Cable length - 800 feet
Frequency - 444 Hz
Operators - Yvan Gauthier Plotted by - V. G. George Murphy
Dates of survey - 13 and 14 February 1982

SCALES - 1 inch = 200 feet

- 1 inch = 20' (positive to left of line)

63 4173



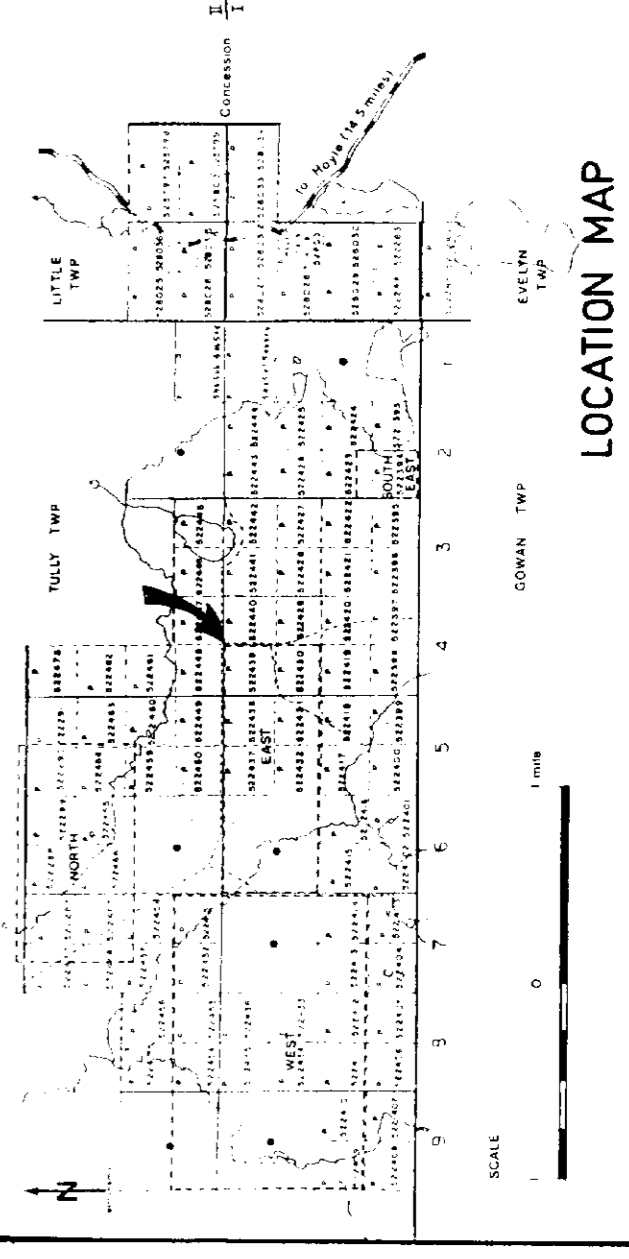
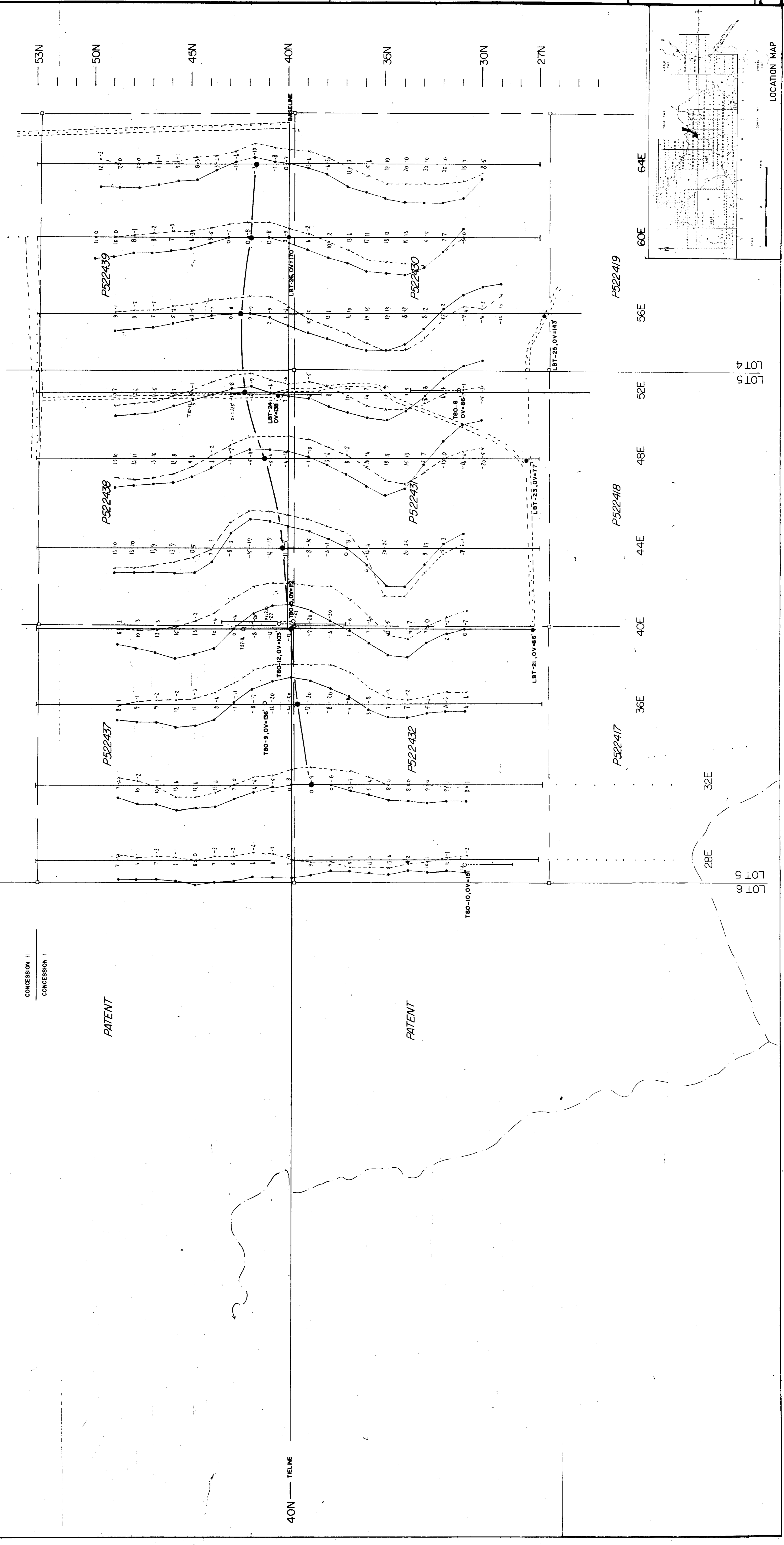
MURPHY OIL COMPANY LTD
CONVENTURES LTD
LACINA MINING CORPORATION

CANADIAN METROPOLITAN DISTRICT

TRICIA DOWNSHIP PROPERTY
PROPERTY UNIT 1, DISTRICT
OUTVALE

MAX-III II ELECTROMAGNETIC SURVEY
FREQUENCY 444 Hz, 800 FOOT CABLE

PREPARED BY:	SCALE:	DATE:	N.T.S. SHEET:	FIGURE:
P. CHANCE	1"=200'	1982	42	51



LEGEND

- in-phase component
- out-of-phase component
- cut and chained line showing values of in-phase (to left) and out-of-phase components
- Conductor axis (defined, possible)
- Lacana overburden drill hole showing depth to bedrock
- 1980 or 1982 diamond drill hole showing depth to bedrock
- Claim post showing concession and lot lines (solid) and claim lines (dashed)
- Winter logging trails disused
- Creek

LBT 07
or-266
180-9
or-1136

TECHNICAL DATA

Instrument - Max-Min II horizontal loop EM
Cable length - 800 feet
Frequency - 1777 Hz
Operators - Yves Gaudreau
George Murphy
Plotted by - Y. G.

Dates of survey - 13 and 14 February 1982

SCALES - 1 inch = 200 Feet

- 1 inch = 20% (positive to left line)

63-4173



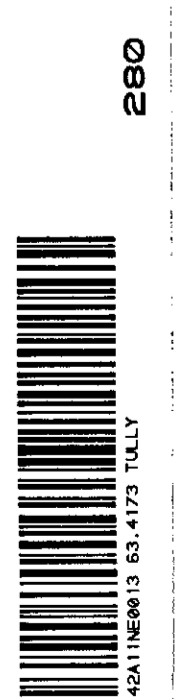
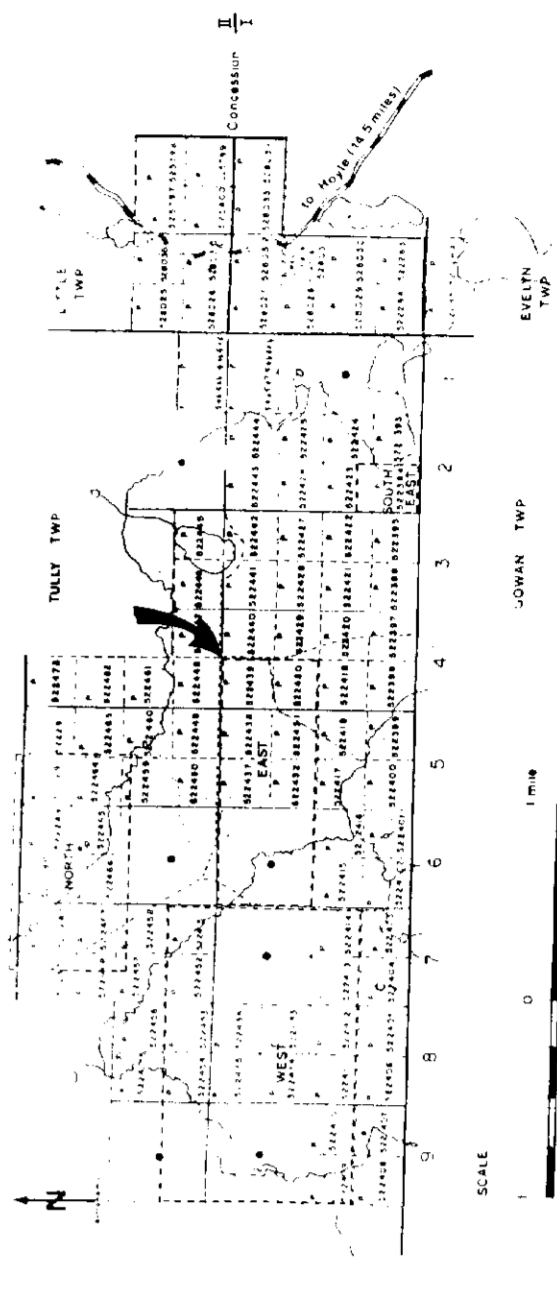
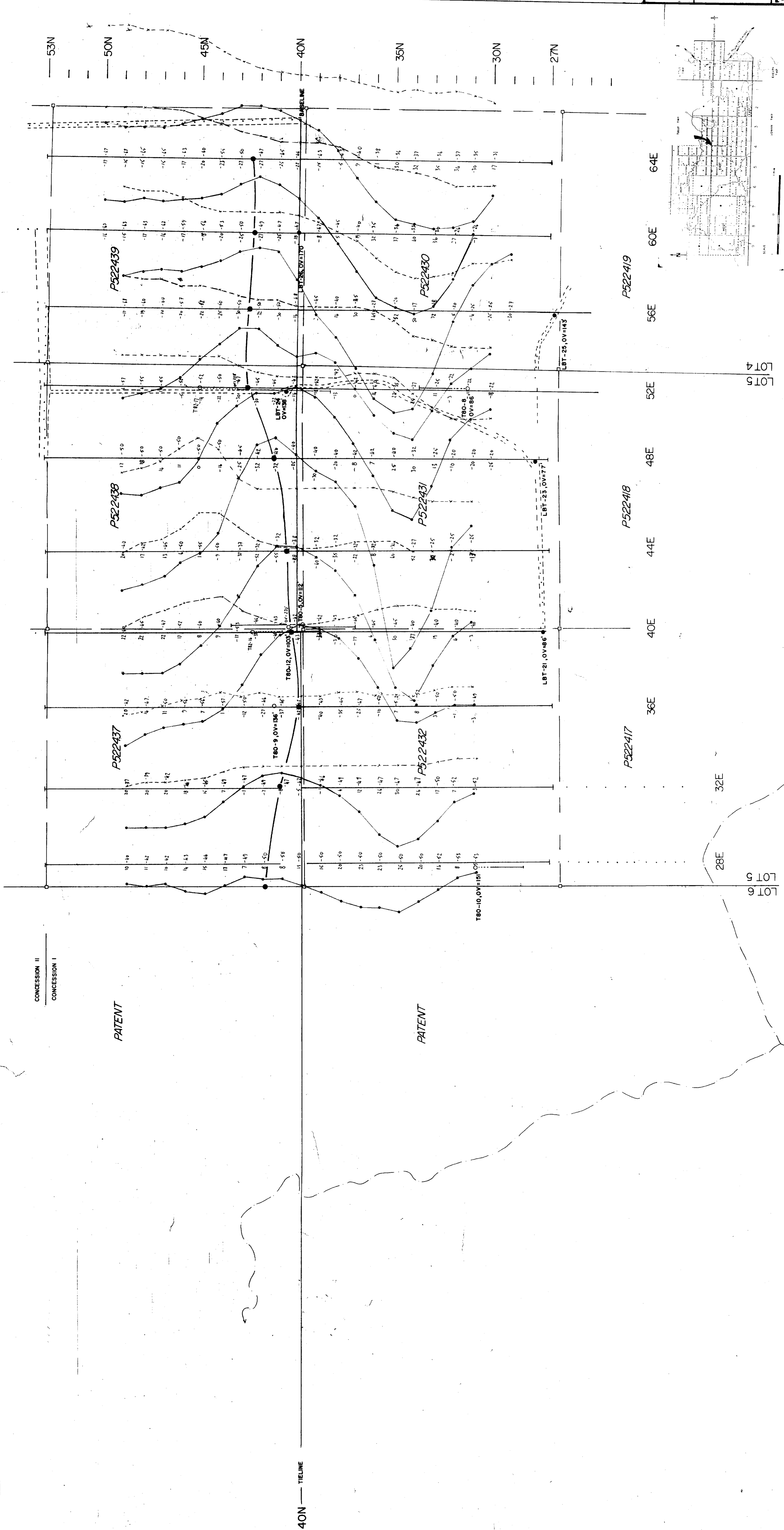
MURPHY OIL COMPANY LTD
CONVERTERS LTD
LACANA MINING CORPORATION

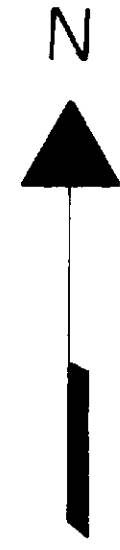
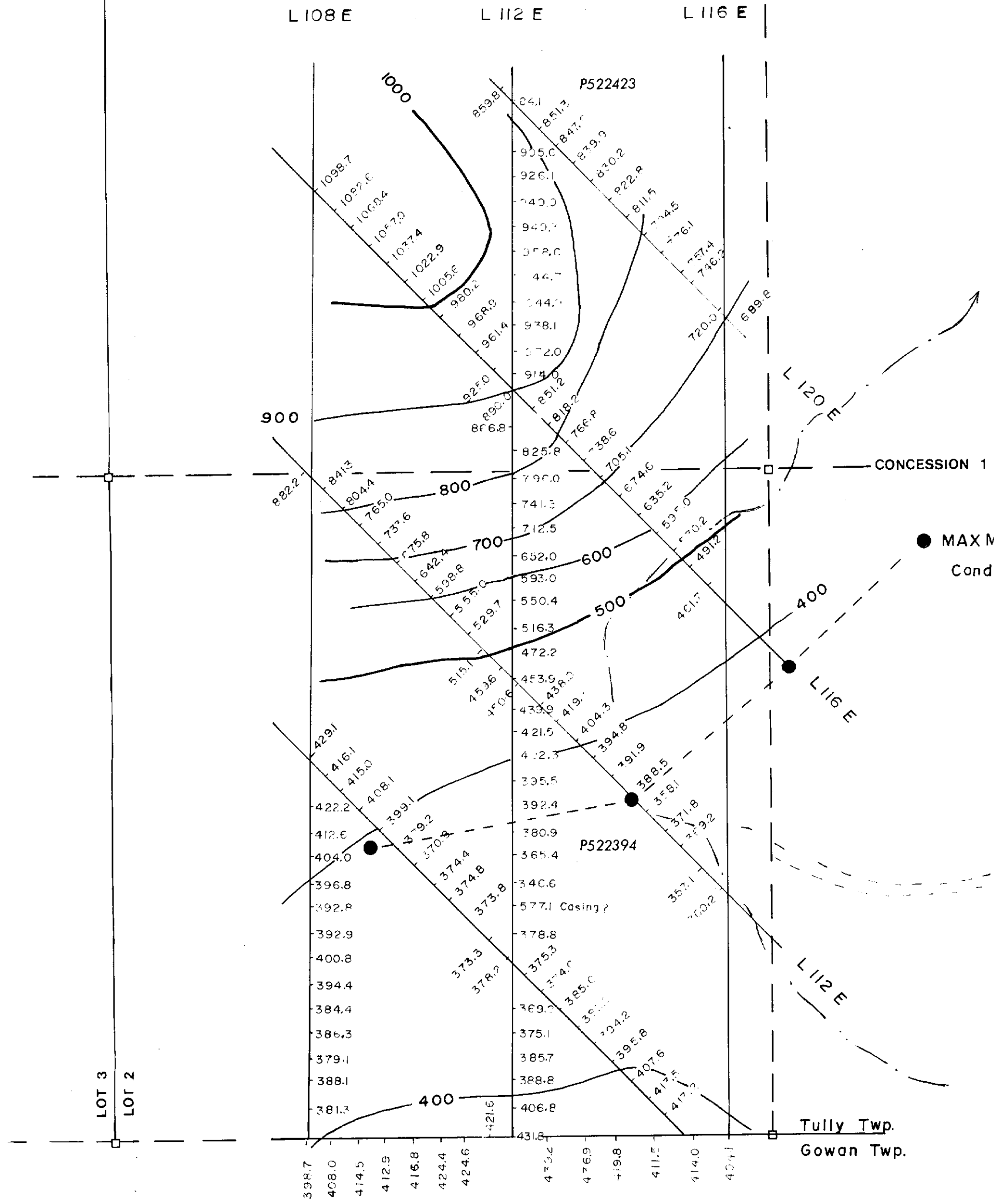
CANADIAN MINERALS JOINT VENTURE

TULLY TOWNSHIP PROPERTY
PACIFIC MINING DIVISION
ONTARIO

MAX-MIN II ELECTROMAGNETIC SURVEY
FREQUENCY 1777 Hz 800 FOOT CABLE

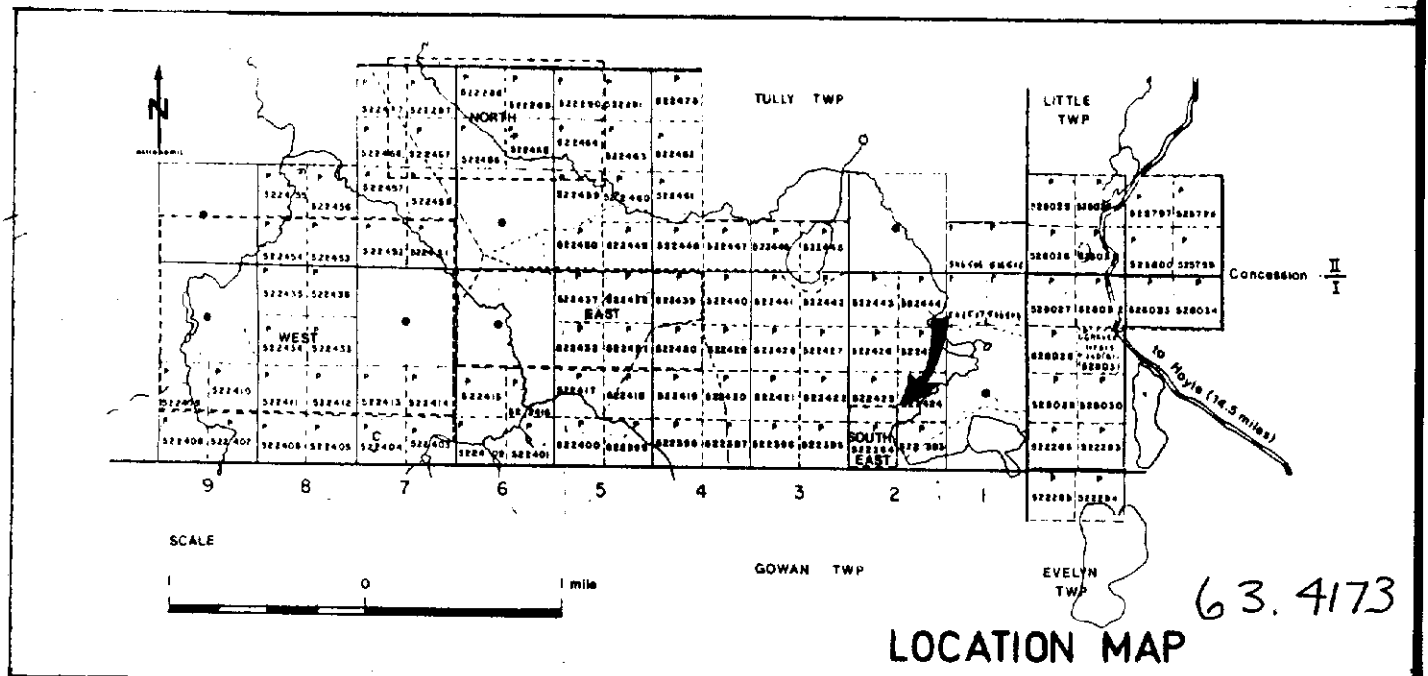
PREPARED BY: SCALE: DATE: N.T.S. SHEET: FIGURE:
P. CHURCH 1:2500 6 OCT. 1982 2 of 3 13





LEGEND

- Instrument: EDA PPM 300
- Base station: EDA PPM 400
- Accuracy: 0.1 gammas
- Magnetic contour at 500 gammas.
- Magnetic contour at 100 gammas.



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 CONVENTURES LTD
 LACANA MINING CORPORATION

TULLY TOWNSHIP
 TOTAL FIELD MAGNETOMETER
 SURVEY
 Near DDH T80-1 & T80-2 Con.1

P.CHANCE 1"=200' Figure 6