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OPAP FINAL SUBMISSION

D. CRITES CURRIE TOWNSHIP PROPERTY

DEVELOSASALESANDANANES

MAY 26 1994

INCENTIVES OFFICE

DENIS CRITES CONNAUGHT, ONTARIO

MAY 19, 1994

A VERY SPECIAL THANKS GOES TO PAM SANGSTER OF THE TIMMINS RESIDENT GEOLOGISTS OFFICE FOR ALL HER ENCOURAGEMENT AND ADVICE. ALSO THANKS FOR LOGGING THE CORE. IT WAS GREATLY APPRECIATED.



A07NE0022 OP93-722 CURRIE

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INTRODUCTION:

THIS PROJECT WAS FUNDED BY THE ONTARIO PROPSPECTORS ASSISTANCE PROGRAM UNDER GRANT OP93-722. THE PURPOSE OF THIS PROGRAM WAS TO DO GRASS ROOTS EXPLORATION. LINE CUTTING, GEOPHYSICS AND DIAMOND DRILLING WERE EMPLOYED. PROPERTY:

LOCATION;

THIS PROPERTY CONSISTS OF ONE - FOUR UNIT CLAIM BLOCK NUMBERED L. 1201153, IN THE SOUTH HALF OF LOT 6 CONCESSION 2, CURRIE TOWNSHIP, LARDER LAKE MINING DIVISION, DISTRICT OF COCHRANE. (see figure 1)

ACCESS:

ACCESS TO THIS PROPERTY IS VIA HIGHWAY 101 EAST FROM TIMMINS TO CURRIE ROAD 4. AT THE END OF THE GRAVEL ROAD IS A ATV (DRY WEATHER)/ SKIDOO (WINTER) TRAIL THAT LEADS TO THE LOT 5/6 LINE. TRAVELLING DOWN THE LOT LINE FOR ONE AND A THREE QUARTER MILE BRINGS YOU TO A DRILL ROAD. FOLLOWING THE DRILL ROAD FOUR ONE QUARTER MILE PUTS YOU ON THE EAST CENTER BOUNDARY OF THE CLAIM. (see figure 2)

WORK HISTORY;

WORK WAS REPORTED AS EARLY AS 1931 BY SAMUEL REID . AS THE REGULATIONS AT THE TIME DID NOT REQUIRE ONE TO REPORT THE COMPLETE NATURE OF THE WORK, THE DETAILS ARE SKETCHY.

IN 1967, MIDRIM MINING COMPANY LTD. FILED TWO SURVEYS. THE FIRST A CRONE J.E.M ELECTROMAGNETIC AND A MCPHAR FLUXGATE MAGNETIC SURVEY DONE BY S. GUIMOND. THE SECOND BEING A CRONE RADEM SURVEY BY L. CUNNINGHAM IN 1976.

IN 1984, DORE EXPLORATIONS INC. PERFORMED A BARRINGER PROTON MAGNETOMETER SURVEY BY R.S. MIDDLETON AND A V.L.F. EM 16 AND GEOLOGICAL SURVEY BY B. KEEN.

IN 1991, J. SALO HELD PART OF THIS PROPERTY AND FILED A REPORT FOR PLUGGER WORK AND DRILLING. A 102.5 FOOT HOLE WITH 15 FEET OF OVERBURDEN WAS DRILL. THESE CLAIMS HAVE SINCE LAPSED. REGIONAL GEOLOGY;

THE GOLD DEPOSITS INT HE IMMEDIATE AREA ARE FOUND IN THE KENOJEVIS GROUP OF VOLCANICS. THE BELT OF MAFIC VOLCANICS EXTENDS ONTO THIS PROPERTY.

THE CRITES CURRIE PROPERTY IS IN A FAVOURABLE GEOLOGICAL SETTING WITH GOOD LOCATION IN RESPECT TO OTHER PRODUCING MINES AND THE EXISTENCE OF SEVERAL GOLD OCCURENCES IN THE SURROUNDING TOWNSHIPS.

THE REID SHOWING HAS BEEN DISCUSSED BY SEVERAL AUTHORS IN REPORTS ON THE AREA. H.C. LAIRD (1931), E.J. LEAHY (1965) AND S. FERGUSON ET AL (1973) THE SHOWING IS LOCATED IN THE SE 1/4 OF THE S 1/2 OF LOT 6 CON 2 WITH VALUES OF .12 OPT AU BY REID AND .2 OPT REPORTED BY FERGUSON IN THE FORM OF QUARTZ STRINGERS IN HIGHLY ALTERED BASALTS. THE SHEARED HOST ROCKS ASSOCIATE WITH SPALERITE, CHALCOPYRITE AND PYRITE.

(see figure 3)

PROPERTY GEOLOGY:

OUTCROP IS ABUNDANT ON THE EAST SIDE OF THE PROPERTY FOR APPROXIMATELY FIFTY PERCENT . IT IS IN THE FORM OF LARGE MAFIC VOLCANICS WITH DIABASE DYKES INTRUDING. (see figure 3)

THE WESTERN SIDE OF THE PROPERTY IS LOWLAND AND SWAMP WITH GRINDSTONE CREEK RUNNING NORTH SOUTH THROUGHOUT.

THE OUTCROP ON THE PROPERTY IS MOSTLY LIGHT GREY MAFIC VOLCANICS INTERSECTED BY DIABASE DYKES. QUARTZ VEINLETS AND FELDSPAR STRINGERS RUN THROUGHOUT THE VOLCANICS.

THE DIABASE DYKES ARE OF DIFFERENT TEXTURES FROM FINE TO COARSE GRAINED. VERY FINE DISSEMINATED PYRITE IS VISIBLE IN THE DIABASE.

(see assays and drill log for results)

PRESENT WORK PROGRAM:

IN DECEMBER OF 1993, DENIS AND JENNIFER CRITES WERE PRESENT ON THE PROPERTY FOR THE PURPOSE OF LINE-CUTTING. AN EAST-WEST BASELINE WAS ESTABLISHED IN THE CENTER OF THE CLAIM BLOCK. USING THE EASTERN BOUNDARY AS LINE 0 NORTH SOUTH RUNNING LINES WERE CUT AT 100 METER INTERVALS AND PICKETED AT TWENTY-FIVE METER STATIONS. A TOTAL OF 330 STRTIONS.

USING THIS GRID DENIS CRITES AND JOE-ANNE SALO PRESENTED THEMSELVES ON THE PROPERTY IN FEBRUARY OF 1994 TO PERFORM GEOPHYSICS.

A G.S.M. PROTON MAGNETOMETER WAS USED BY DENIS CRITES A CONTROL BSE STATION WAS ESTABLISHED FOR THE PURPOSE OF CONTROLLING DIURINAL DRIFT.

A GEONICS V.L.F. EM 16 UNIT WAS USED BY JOE-ANNE SALO FOR A ELECTROMAGNETIC SURVEY.

AFTER A DISCUSSION OF THE RESULTS WITH PAM SANGSTER OF THE PORCUPINE REGIONAL OFFICE, A RECHECK WAS PERFORMED ON SOME OF LINES IN APRIL. THIS WAS NECESSARY TO CHECK THE VALIDITY OF THE INSTRUMENT USED AND ITS READINGS.

A DRILL HOLE WAS LOCATED AND DIAMOND DRILLING OF BQ CORE WAS PUT INTO PLACE BY DENIS CRITES AND LARRY SALO EMPLOYING A BBS 2 DIAMOND DRILL.

THE CORE WAS LOGGED BY PAM SANGSTER AND ASSAYS WERE SENT TO SWASTIKA LABORATORIES.. RESULTS;

MAGNETOMETER SURVEY

THE MAGNETOMETER USED IN THIS SURVEY WAS A G.S.M. PROTON MAGNETOMETER. ITS VALUES ARE GIVEN IN GAMMAS. THE PROPERTY HAS A BASE VALUE OF 58000 GAMMAS. FOR THE PURPOSE OF DRAFTING THE READINGS WERE ALTERED TO NUMERICAL VALUE ABOVE AND BELOW 58000 GAMMAS.

THE HIGHEST VALUE OBTAINED WAS 69125 GAMMAS AND THE LOWEST VALUE OBTAINED WAS 59425 GAMMAS. THE CONTOUR MAP WAS DONE IN UNITS OF 100 GAMMAS.

LINE 8+OOW SHOWS THE CENTER ? OF AN EAST-NORTH-EAST/WEST-SOUTH-WEST TRENDING STRUCTURE. IT IS APPEARS TO BE GRADUAL. AS THERE IS NO OUTCROP IN THIS AREA IT IS NOT POSSIBLE TO DEFINE THE CAUSE. THE EASTERN SIDE OF THE PROPERTY SHOWS SEVERAL ANOMALIES. THESE HOWEVER COULD BE CAUSED BY THE DIABASE DYKES AND THE AMOUNTS OF OVERBURDEN (THIS SIDE OF THE PROPERTY HAS SEVERAL VERY LARGE OUTCROPS).

V.L.F. EM16 SURVEY;

THE VLF EM 16 SURVEY PERFORMED ON THIS PROPERTY CAME BACK WITH RESULTS NEVER SEEN BY THIS AUTHOR. THE RESULTS WERE TAKEN TO THE RESIDENT GEOLOGIST WHOM COULD NOT EXPLAIN THEM EITHER. FROM LINE O TO LINE 4+00W THE READINGS WERE VERY IRRATIC AND UN-UNIFORM. SEVERAL OF THE READINGS WERE NOT WITHIN THE ACCEPTABLE SCALE RANGE OF THE INSTRUMENT USED. LINE 5+00W TO LINE 8+00W WERE VERY FLAT. DUE TO THE STRANGNESS OF THE VALUES OBTAINED, AN IDENTICAL INSTRUMENT WAS EMPLOYED ON LINES 4+00W AND LINE 5+00W. ALL THE READINGS (BOTH IN-PHASE AND QUADRATURE) COULD BE DUPLICATED WITHIN 1 DEGREE.

AFTER DRILLING THE PROPERTY IT IS FELT THAT THE OVERBURDEN WAS THE CAUSE OF THE IRREGULAR VALUES AS THE OVERBURDEN WAS CLAY, THE CORE MAFIC VOLCANICS INTERSECTED BY A DIABASE DYKE.

DIAMOND DRILLING

A DRILL HOLE OF SIZE BQ CORE WAS DRILL AT 4465W,2420S AT AN AZIMUTH OF 430° WITH A DIP ANGLE OF 50 DEGREES. (see core log and drill section for results)

Pioneered and patented exclusively by Geonics Limited, the VLF method of electromagnetic surveying has been proven to be a major advance in exploration geophysical instrumentation.

Since the beginning of 1965 a large number of mining companies have found the EM16 system to meet the need for a simple, light and effective exploration tool for mining geophysics.

The VLF method uses the military and time standard VLF transmissions as primary field. Only a receiver is then used to measure the secondary fields radiating from the local conductive targets. This allows a very light, one-man instrument to do the job. Because of the almost uniform primary field, good response from deeper targets is obtained.

The EM16 system provides the in-phase and quadrature components of the secondary field with the polarities indicated.

Interpretation technique has been highly developed particularly to differentiate deeper targets from the many surface indications.

Principle of Operation

The VLF transmitters have vertical antennas. The magnetic signal component is then horizontal and concentric around the transmitter location.



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Specifications

Source of primary field	VLF transmitting stations.	Reading time	10-40 secondo desendia e e el est	
Transmitting stations used	Any desired station frequency can be		10-40 seconds depending on signal strength.	
	form of plug-in tuning units. Two	Operating temperature range	-40 to 50° C.	
	tuning units can be plugged in at one time. A switch selects either station.	Operating controls	ON-OFF switch, battery testing push button, station selector, switch,	
Operating frequency range	About 15-25 kHz.		volume control, quadrature, dial \pm 40%, inclinometer dial \pm 150%.	
Parameters measured	(1) The vertical in-phase component (tangent of the tilt angle of the polarization ellipsoid).	Power Supply	6 size AA (penlight) alkaline cells. Life about 200 hours.	
	(2) The vertical out-of-phase (quadra- ture) component (the short axis of the	Dimensions	42 x 14 x 9 cm (16 x 5.5 x 3.5 in.)	
	polarization ellipsoid compared to the long axis).	Weight	1.6 kg (3.5 lbs.)	
fethod of reading	In-phase from a mechanical inclino- meter and quadrature from a calibrated dial. Nulling by audio tone.	Instrument supplied with	Monotonic speaker, carrying case, manual of operation, 3 station selector plug-in tuning units (additional fre- quencies are optional), set of batteries.	
cale range	In-phase \pm 150%; quadrature \pm 40%.	Shipping weight	4.5 kg (10 lbs.)	
eadability	± 1%.	•		



GEONICS LIMITED Designers & manufacturers

of geophysical instruments

subsidiary of Deering Milliken Inc. 2 Thorncliffe Park Drive, Toronto/Ontario/Canada M4H 1H2 Tel: 425-1824 Cables: Geonics

RECOMMENDATIONS

AS THE OVERBURDEN WAS VERY CONDUCTIVE AND THE DEPTH WAS GREATER THAN EXPECTED, A SURVEY USING MAX-MIN WOULD BE ADVISED.

AT THE SUGGESTION OF PAM SANGSTER, A LARGE SAMPLE OF THE OUTCROP SHOULD BE BROUGHT IN FOR TESTING AS BUILDING STONE.

THREE OR FOUR FURTHER DRILL HOLES WOULD BE WARRANTED AS BOTH DRILL HOLES ON THE PROPERTY NEVER REACHED THEIR TARGET. THE HOLE BY SALO ENDED IN ALTERATION AND THE HOLE BY CRITES ENDED IN THE DIABASE. APPENDIX I

DRILL LOGS

DRILL SECTION

ASSAYS

PROPERTY: Denis Crites CLAIM NO. 1201153 HOLE NO. CS-1-94 S 1/2 Lot IV Don II Currie Twp. Core size BC

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TOTAL DEPTH OF HOLE 536 ft.

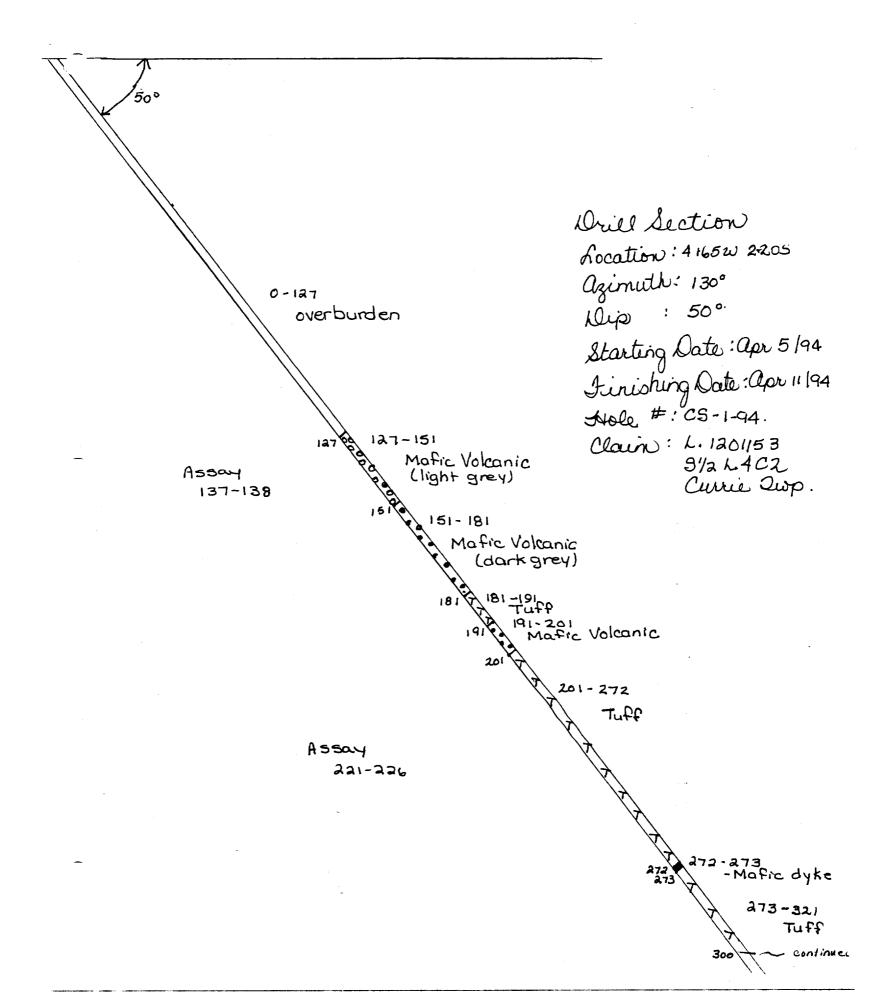
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ter fragments commonly 0.2cm 272 273 Dark green mafic dyke with 1mm plagioclase crystals 773 321 Finely bedded tuffaceous rock as per 201-273 ft.										
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1mm plagioclase crystals 72 321 Finely bedded tuffacecus rock as per 201-273 ft.										
73 321 Finely bedded tuffaceous rock as per 201-273 ft.	272	2/3								
rock ás per 201-273 ft.	~70	221								
		the sheet of	-							
	and a state of the second s	334	Dark grey green amygdal-							
oidal mafic volcanic rock										
Occassional brick red feld-				13-						
apar veinlets. 334 — 336 — Altered, brecciated, light	394	336	,							
green anygdaloidal mafic	same baai t	See See See		1 Nz						

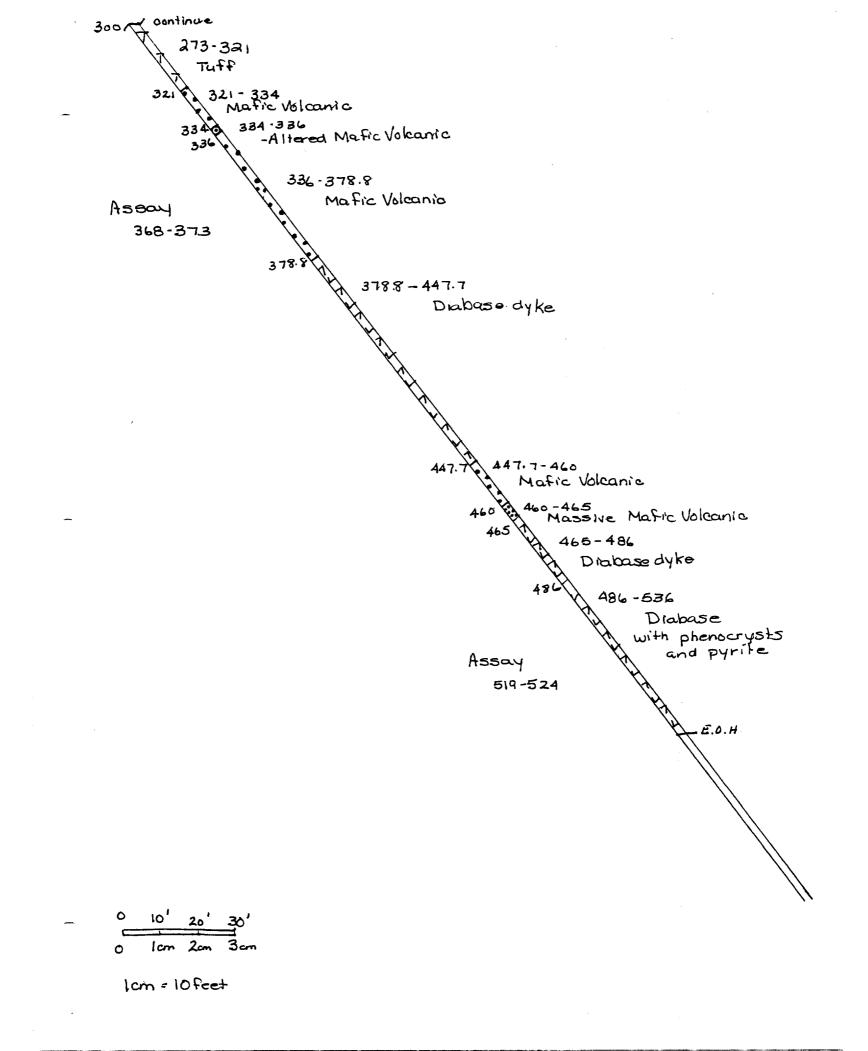
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		. مقد موج به معتولا تمار معال ^{ال} معان معال 1 گ							
336	378.9	Dark græen amygdaloidal mafic volcanic rock. Amygduled - quartz & feld-	8	mil	ੇ.⊇	62	െ	263	370
		spar alteration haloes from							•
		0.5cm to 1mm in diameter.							
		@ 341 unit altered to light							
\frown		green and brecciated.							
		© 342 unit altered to light							
		green and brecciated.							
		@ 353 unit altered to light							
		green and brecciated.							
		@ 380 increasing number of							
		quartz veinlets up to 1cm. Increasing number of brick							
		red amyqdules.							
378.8	447.7	Dark green mafic fine							
		grained (diabase) dyke.							
		Grain size increasing with							
		depth 0 416 ft meduim							
		grained diabase.							
		Finely disseminated pyrite							
		throughout. 441 grain size							
447.7	460	decreasing to fine grained. Dark grey green amygdal-							
100 m 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		oidal mafic volcanic rock.							
		6 455.3 soticable apidote							
		alteration.							
in and an and a second se	465	lark grey green fine grain-							
		ed massive mafic volcanic							
	4	y deck.							
	486	Medium grained diabase.		• •		سر در .			
483	oge.	Porphysitic dark green diabase with bright yellow	. · · §.	<u>n.</u>	and the state	lbt	27	1	····
Ť		green phenocrysts than in							
		diameter.							
		Cocassional pyrite through-							
		out.							
	536	End of Hole.							

Core stored at LaC6 German Jup Connaught Out

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TSL/ASSAYER Laboratories

1270 FEWSTER DRIVE, UNIT 3 MISSISSAUGA,ONTARIO L4W-1A4 PHONE #: (905)625-1544 FAX #: (905)206-0513 REPORT No. : M3382 Page No. : 1 of 1 File No. : MY11RA Date : MAY-11-1994

D. CRITIES ATTN: D. CRITES

I.C.A.P. TOTAL OXIDE ANALYSIS

Lithium MetaBorate Fusion

4W-0861-RG1

SAMPLE #		203 Fe203 % %	CaO MgO %%	Na20 K20 % %	TiO2 MnO % %	P2O5 Ba % ppm	Sr Zr ppm ppm	Y Sc ppm ppm	Nb Be ppm ppm	Ni Cr ppm ppm	Cu V ppm ppm	Co Zn ppm ppm	LOI TOTAL % %
1 2 3	55.24 16 58.30 16	.63 6.43 .63 7.26	4.80 5.47 6.74 4.48	3.27 2.74 4.18 0.94	0.91 0.13	0.24 350 0.38 200	320 130 230 140 210 140	26 25 24 23		140 505 85 590 90 400 105 190	95 170 40 185 2085 170 175 275	40 20 25 105	1.61 99.70 1.80 97.67 0.96100.91 1.00100.42
4	50.52 14	.41 13.38			0.98 0.20	0.14 200	180 80	24 36		101 190	-		
													n di di
									SIGNED :	Ra		Sacri	

TSL/94



Swastika Laboratories

A Division of TSL/Assayers Inc.

Assaying - Consulting - Representation

Geochemical Analysis Certificate

4W-0861-RG1

Company: D. CRITES Project: Attn: D. Crites

£

Date: MAY-06-94

We hereby certify the following Geochemical Analysis of 4 Core samples submitted APR-29-94 by D. Crites.

Sample Number	Au PPB	Au Check PPB	Ag P F M	Cu PPM	Zn P PM	WRA
1	Nil	-	-	-		Results
2	Nil	Ni l	0.4	70	41	to
3	Ni l	-	0.2	62	60	follow
4	Nil	-	0.2	166	57	

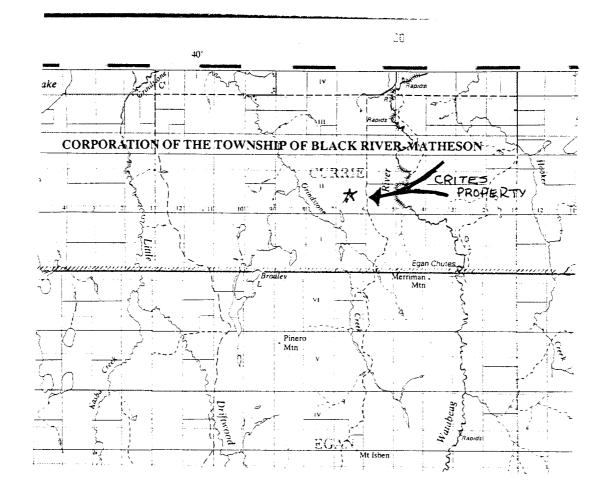
Certified by Deries Cha

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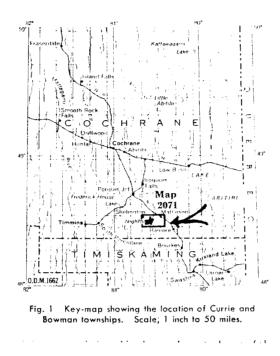
P.O. Box 10, Swastika, Ontario P0K 1T0 Telephone (705) 642-3244 FAX (705) 642-3300 APPENDIX II

FIGURE 1-3

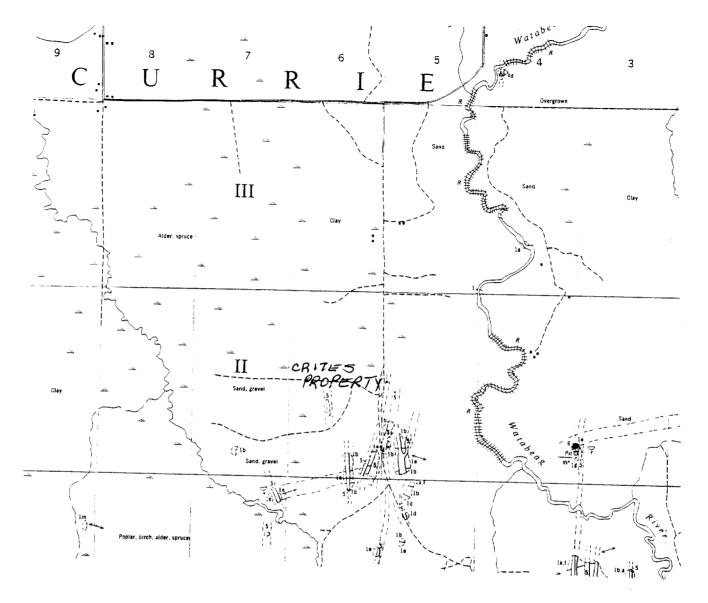
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Property Location . - section of NT.S. 42 Ali Kirkland-Lake Sheet



Property Access

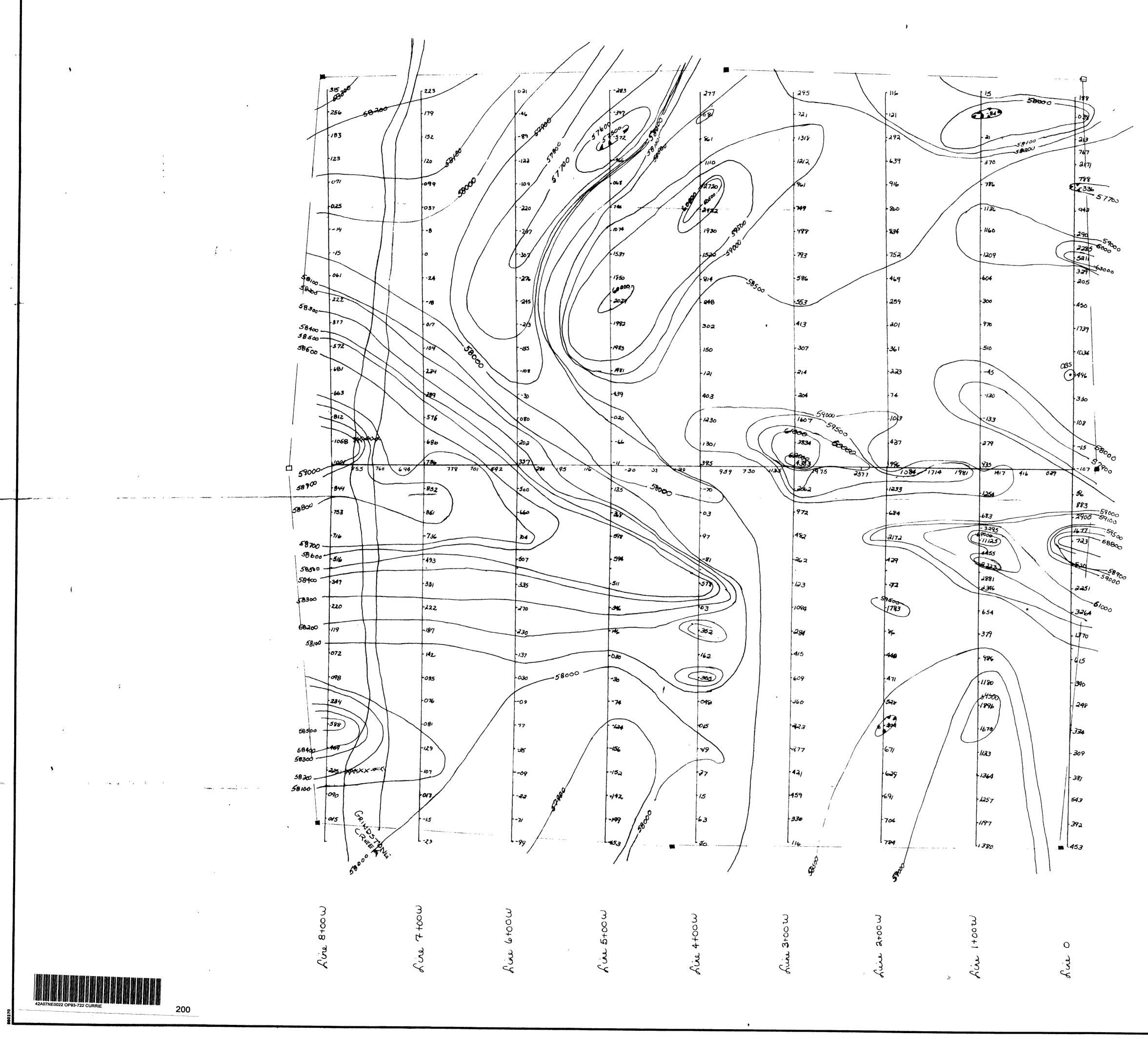


Regional Geology.

section of Map 2071 Currie and Bowmon Jupo Report 40 I, JOE-ANNE SALO, OF GERMAN TOWNSHIP IN THE DISTRICT OF COCHRANE DO HEREBY DECLARE; I HAVE OBTAIN THE EQUIVALENCE TO PROFESSIONAL COMPETENCY FROM THE MINISTRY OF NORTHERN DEVELOPMENT AND MINES. I HAVE NO INTEREST AND WILL RECEIVED NO BENEFITS OTHER THAN WAGES FOR WORK PERFORMED ON THIS PROPERTY. I WAS PRESENT AND HAVE PERSONAL KNOWLEDGE OF ALL WORK PERFORMED AND COVER IN THIS REPORT.

RESPECTFULLY YOURS

JISalo JOE-ANNE G. SALO



4+00 N

3+00N

2100N

1400N

Baseline 0

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1+005

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4+005

Lugend Located Claim Post Unlocated Claim Post Unlocated Claim Post 4072 Magnetic Value in gammas TETATIVE TO 58000

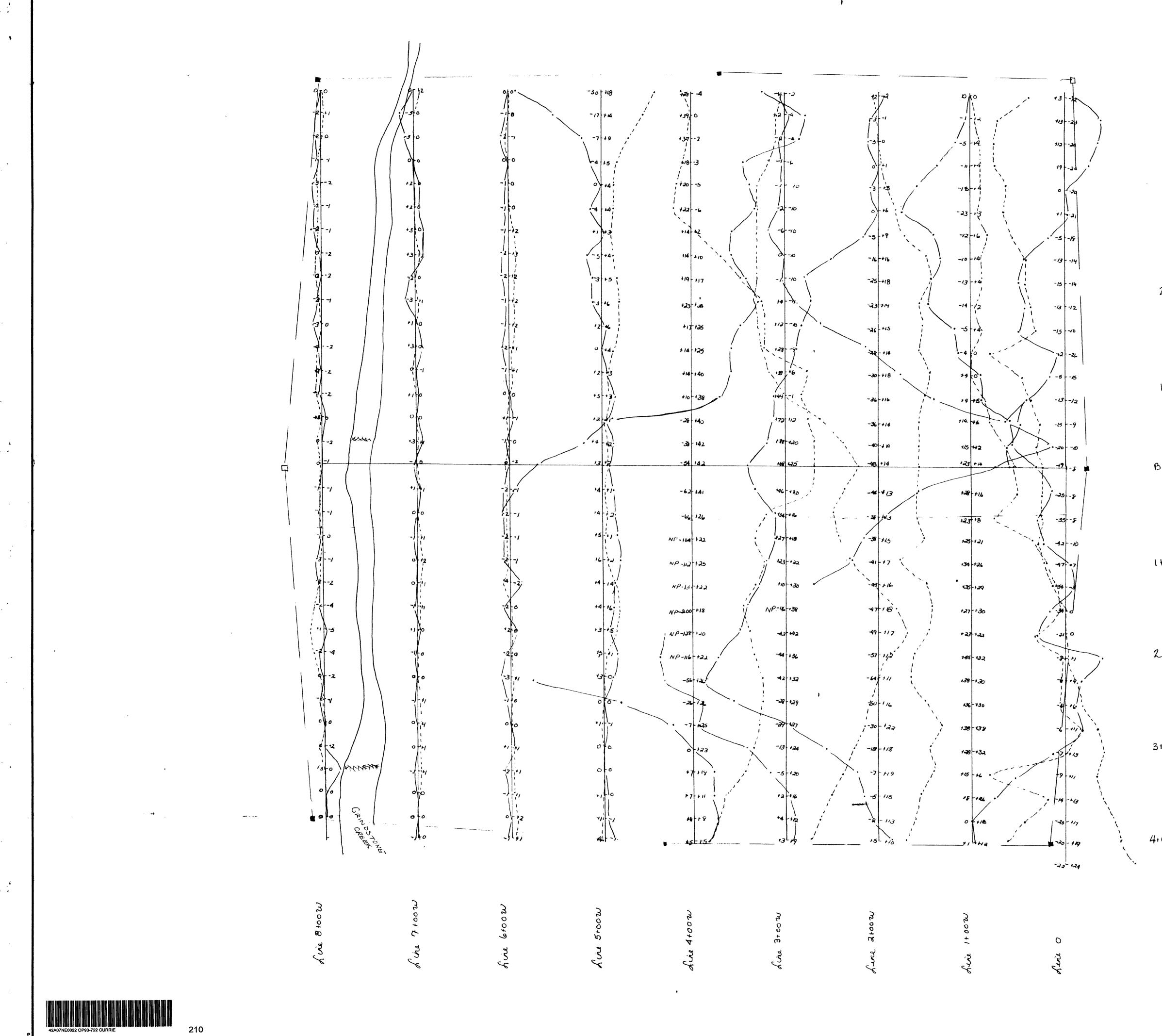
Magnetic Low

Control Base Station

0 25m 50m 100m 0 1/2" 1" 2" 1" * 50m

Claim LIZOII53 SH2 LGC2 CUTTIE JOUTSHIP CONIF CONIF LOT 7 LOT 6 LOT

LOTT LOTG LOTS LOTT LOTG LOTS D.CRITES PROPERTY SCALE DATE MODED BY DRAWN BY ONLOLOT J.G SALO CURRIE TOWNSHIP Magnetometer Contour Map OP93722-1



4+00N

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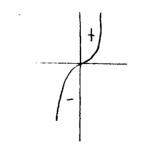
BaselineO

11005

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3+005

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Cutler, MAINE 0 1.5cm L____J O 10%

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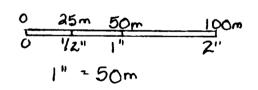


Legend Located Claim Post
 Unlocated Claim Post +27 In-Phase Reading for advature Reading / In-Phase Profile

Guadrature Profile

NP+100 Not PLotted

XXXX BEAVEr Dam



Claim L-1201153 S'12 L6C2 Currie Jownship CON T LOT 7 LOT 6 LOT 5

D.CRI-	TES PROPERT	Ϋ́
SCALE	APPROVED BY	DRAWN BY CLALD
DATE May 1994		J.G.Stro
CUR	RIE TOWNSH	IIP
VILF E.M	16-PROFILE MAP	DRAWING NUMBER () P93722-2