



42A01SW0030 2.10096 BURT

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KIRKLAND PROJECT

M560

GEOCHEMISTRY REPORT

by

W.E. GLENN

CHEVRON CANADA RESOURCES LTD

Toronto, Ontario

May, 1987

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Introduction

This report assembles rock and soil geochemistry data collected on samples from Chevron's property in Eby, Burt and Holmes Townships. The information was collected to assist delineation of the projected Kirkland Lake/Larder Lake Break onto the property. The results are presented and discussed. However, the geochemical data did not contribute significantly to Chevron's objective.

Property Location and Access

The property consists of 242 claims optioned from Dave Meunier of South Porcupine, Ontario. The area covered by the claims begins within the western boundary of Eby Township, crosses Burt Township and ends within the eastern part of Holmes Township. The property is 8 kilometers west, south-west of Swastika, Ontario and is accessible by logging roads off of highway 66 (Figure 1).

Previous Work

The geology of Holmes and Burt Townships was reported by Moore (1966) and of Eby and Otto Townships by Lovell (1972). Geology maps were produced at 1" = 1/2 mile scale. Their work shows the claim group to cover mainly outcropping Proterozoic, Huronian sedimentary rocks of the Cobalt group and Pleistocene glacial deposits. Outcrops of Archean meta-volcanic rocks have been mapped in the extreme south-east corner of the claim group, and off the property to the east and south-east.

Billiton Canada Ltd. conducted limited exploration activities on the property in 1985 that included an airborne magnetic and VLF survey, eight overburden RC drill holes, ground VLF surveys and two diamond drill holes. One drill hole intersected Timiskiming rocks with a trace of hematite alteration.

Chevron contracted Meegwich Surveys of Rouyn-Noranda, Quebec to map a grid placed over 78 claims (Meegwich Surveys, 1986) comprising most of the eastern third of the property (Figure 2).

FIGURE 1

KIRKLAND PROJECT REGIONAL GEOLOGY

- 7 HURONIAN SEDIMENTS
- 6 GRANITIC ROCKS
- 5 SYENITIC ROCKS
- 4 MAFIC & ULTRAMAFIC INTRUSIONS
- 3 TEMISKAMING METASEDIMENTS & METAVOLCANICS
- 2 IRON FORMATIONS
- 1 FELSIC METAVOLCANICS
- 1 INTERMEDIATE TO MAFIC METAVOLCANICS

0 5
km

CHEVRON PROPERTY
MEUNIER OPTION

KIRKLAND LAKE /
LARDER LAKE BREAK

HIGHWAY 66

HIGHWAY 11

MATACHEWAN
1 m oz

KIRKLAND LAKE
24 m oz

LARDER LAKE
11 m oz

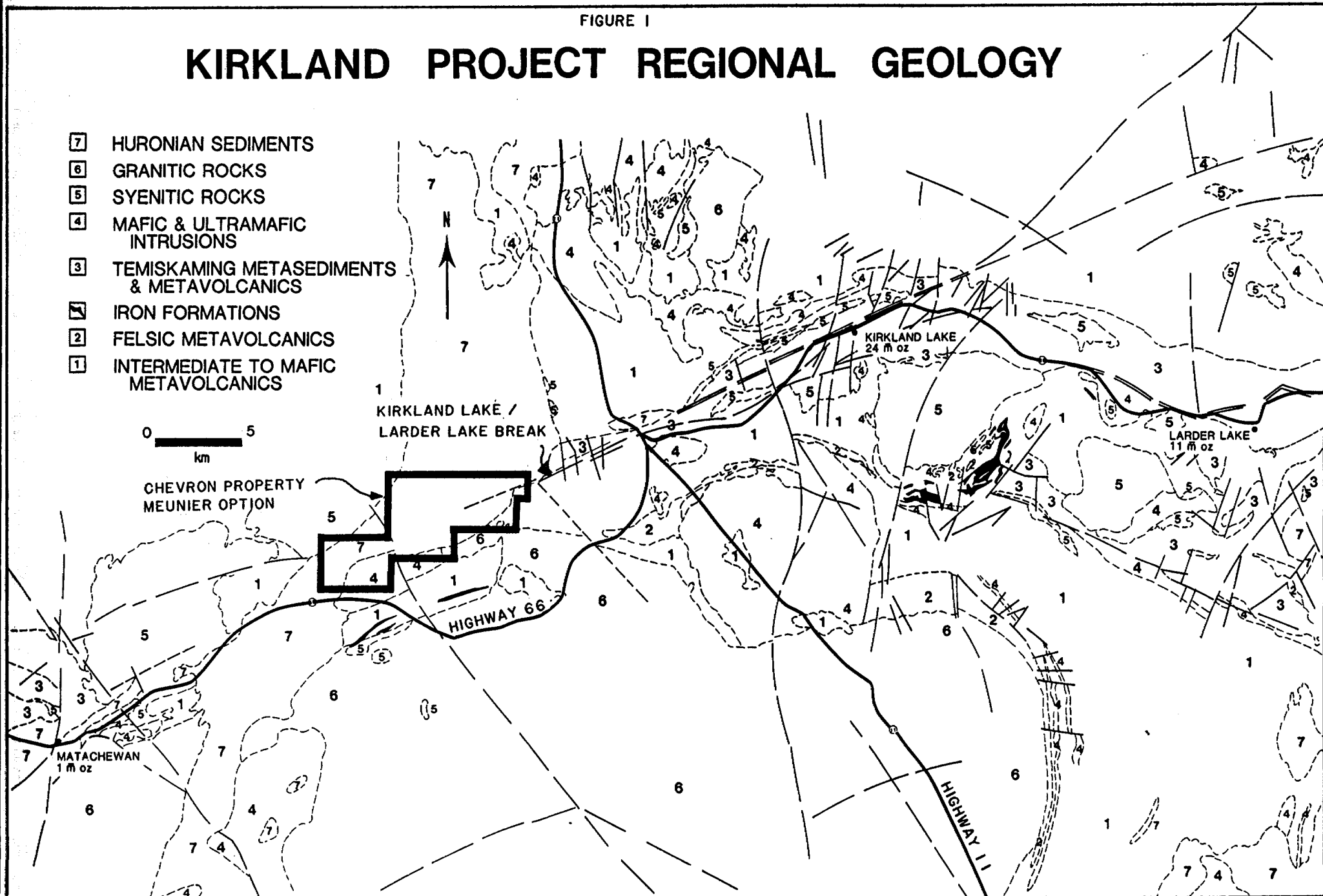












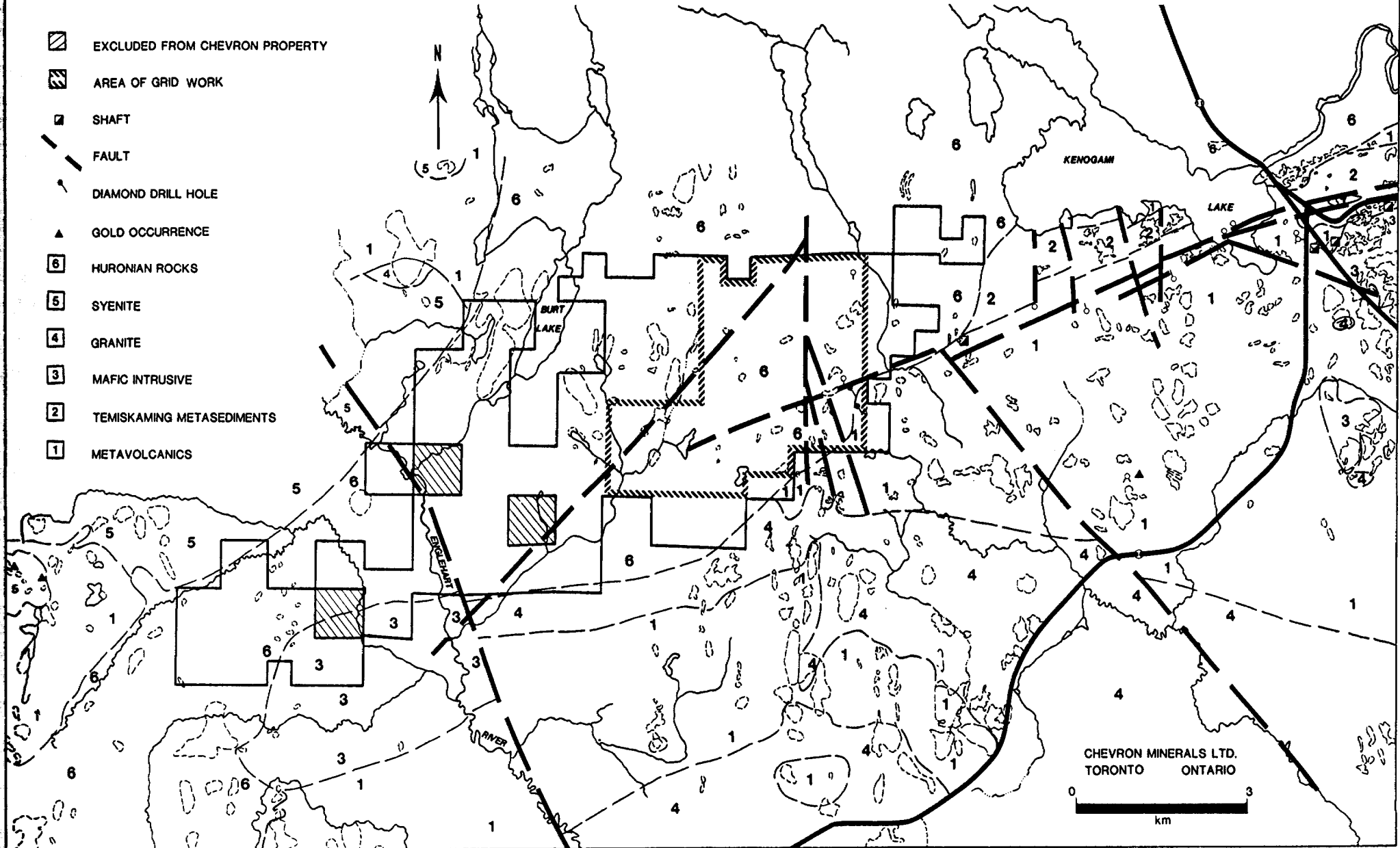


FIGURE 2

KIRKLAND PROJECT COMPILATION

-  EXCLUDED FROM CHEVRON PROPERTY
-  AREA OF GRID WORK
-  SHAFT
-  FAULT
-  DIAMOND DRILL HOLE
-  GOLD OCCURRENCE
-  HURONIAN ROCKS
-  SYENITE
-  GRANITE
-  MAFIC INTRUSIVE
-  TEMISKAMING METASEDIMENTS
-  METAVOLCANICS



The mapping specifically located areas of outcrop and any faults, fractures and quartz veins in the Huronian rocks which might reflect the position of the Kirkland Lake/Larder Lake Break. Quartz veins were selected for later geochemical sampling.

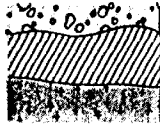
Chevron also obtained IP/Resistivity data over three grid lines on the eastern edge of the property.

Geochemical Survey and Results

Meegwich Surveys of Rouyn-Noranda, Quebec were contracted to take B-horizon soil samples along grid lines L2W, L5W and L8W and to channel sample quartz veins in several outcrops on the eastern edge of the grid (Figure 3). The work was done in September, and October of 1986.

The soil samples were analyzed for mercury by Barringer Magneta of Rexdale, Ontario using a procedure described in Appendix I. The data are listed in Appendix I and plotted on Figure 4. No well defined pattern is evident in the data, although most of the higher values were obtained in the region expected to contain the Break.

The quartz vein channel samples were submitted to Bondar Clegg for analyses. A total of 22 samples were analyzed for gold, mercury plus 25 other elements, Table 1. The sample locations are plotted in Figure 3 and the data are listed in Appendix II. No element demonstrates anomalous values. However, the few Sb values above detection limits occur in the region suspected to contain the Break. The mercury values in the rock were very low and do not support the mercury levels observed in the soils.



REPORT: 016-4403 (COMPLETE)

REFERENCE INFO:

CLIENT: CHEVRON CANADA RESOURCES LIMITED
PROJECT: NONESUBMITTED BY: C. PATENAUDE
DATE PRINTED: 3-NOV-86

ORDER	ELEMENT	NUMBER OF ANALYSES	LOWER DETECTION LIMIT	EXTRACTION	METHOD
1	Sc Scandium	22	0.5 PPM		Neutron Activation
2	Cr Chromium	22	50 PPM		Neutron Activation
3	Fe Iron	22	0.5 PCT		Neutron Activation
4	Co Cobalt	22	10 PPM		Neutron Activation
5	Ni Nickel	22	50 PPM		Neutron Activation
6	Zn Zinc	22	200 PPM		Neutron Activation
7	As Arsenic	22	1 PPM		Neutron Activation
8	Se Selenium	22	10 PPM		Neutron Activation
9	Rb Rubidium	22	10 PPM		Neutron Activation
10	Mo Molybdenum	22	2 PPM		Neutron Activation
11	Ag Silver	22	5 PPM		Neutron Activation
12	Cd Cadmium	22	10 PPM		Neutron Activation
13	Sb Antimony	22	0.2 PPM		Neutron Activation
14	Cs Cesium	22	1 PPM		Neutron Activation
15	Ba Barium	22	100 PPM		Neutron Activation
16	La Lanthanum	22	5 PPM		Neutron Activation
17	Eu Europium	22	2 PPM		Neutron Activation
18	Tb Terbium	22	1 PPM		Neutron Activation
19	Yb Ytterbium	22	5 PPM		Neutron Activation
20	Hf Hafnium	22	2 PPM		Neutron Activation
21	Ta Tantalum	22	1 PPM		Neutron Activation
22	W Tungsten	22	2 PPM		Neutron Activation
23	Ir Iridium	22	100 PPB		Neutron Activation
24	Au Gold	22	5 PPB		Neutron Activation
25	Th Thorium	22	0.5 PPM		Neutron Activation
26	U Uranium	22	0.5 PPM		Neutron Activation
27	WT Test Weight	22	0.01 g		

TABLE 1

Conclusions

A local and limited soil and rock chip geochemical survey of the eastern part of Chevron's Kirkland property failed to identify any location for the inferred extension of the Kirkland Lake/Larder Lake Break onto the property. Moore (1966) gave examples of inconclusive support for the interpretation that the Break crosses this area of Eby, Burt and Holmes Townships. Chevron's work, unfortunately, has not helped support the belief that the Break crosses these Townships in the position shown on Lovell's (1972) map.

References

- Lovell, H.L. 1972, Geology of the Eby and Otto Area District of Timiskiming, Ontario Dept. of Mines and Northern Affairs Geol. Rpt 99.
- Meegwich Surveys, 1986, Chevron Canada Resources Ltd Geological Report, Meegwich Surveys, Rouyn-Noranda, Quebec (C. Patenaude).
- Moore, J.C.G., 1966, Geology of Holmes-Burt Area, Ontario Dept. Mines Geological Rept. 44.

CERTIFICATION

I William Edward Glenn of Toronto, Ontario certify that:

- 1) I hold a B.Sc.(Eng.) degree (1966) from Queen's University, a M.S. (Eng.) degree (1969) from the University of Claifornia, Berkeley and PH.D. (Geophysics) degree (1973) from the University of Utah.
2. I am a member of the SEG, SPWLA, ASEG, and AIME.
- 3) I have been practising my profession continuously since my graduation.
- 4) This report is based on work performed, supervised and other work collected in association with other people and who are acknowledged accordingly.

W.E. Glenn

W.E. Glenn

Appendix I



BARRINGER MAGENTA LIMITED
304 CARLINGVIEW DRIVE
METROPOLITAN TORONTO
REXDALE, ONTARIO
CANADA M9W 5G2
PHONE: 416-675-3870
TELEX: 06-989183

November 3, 1986

Mr. E. Glenn
Suite 1714
390 Bay Street
Toronto, Ontario

Dear Mr. Glenn:

The following technique, originally developed by the Geological Survey of Canada, was employed for the analysis of your soil samples for mercury.

1. The soil samples were air dried, sieved through an 80 mesh screen and 250 milligrams of the minus 80 mesh fraction of each sample weighed into a clean, dry test tube.
2. 10 ml concentrated HNO_3 and 1 ml concentrated HCl were added to the test tube, the contents mixed and allowed to stand for 10 minutes.
3. The test tubes were placed in a hot water bath and digested for two hours at 90°C .
4. The test tubes were removed from the water bath, cooled to room temperature, the contents diluted to 25 mls with deionized water and the contents mixed.
5. Mercury concentration in solution was determined by aspiration of the samples into a cold-vapour atomic absorption spectrometer.
6. Quality control was monitored by periodically including a sample blank, a certified standard and replicate sample in sequence during routine analysis. Analytical precision at the 95% confidence level calculated from replicate analyses by the method described by Howarth (1978) is 13% at 100 ppb Hg.

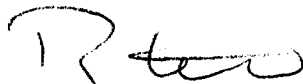
Cont'd/.....

Mr. E. Glenn
November 3, 1986
Page Two

Please let me know if you have any questions concerning the soil geochemistry and I will be happy to discuss them with you.

Yours truly,

BARRINGER MAGENTA LIMITED

A handwritten signature in cursive script, appearing to read "R. Lett".

R.E. Lett, (Ph.D.)
Chief Geochemist

REL/pk

Appendix II

CHEVRON CANADA RESOURCES

W.O.: 86-1053

PAGE 1

NO OF SAMPS	CUM PCT	UPPER LIMIT PPB	UPPER LIMIT NORM.	0	20	40	60	80	100	120	140	ARITH STATS	LOG10 TRANS STATS	NORM. LOG-T STATS		
			-3.00	I	+	+	+	+	+	+	+					
			-2.67	I									MEAN	42.47	1.544	0.000
			-2.33	I									STD DEV	26.50	.2852	1.000
			-2.00	I									NO OF SAMPS	352	352	352
			-1.67	I									SKEWNESS	1.47	-.56	-.56
5	1.4	7.136	-1.33	I***									REL STD DEV	.624	.185	
40	12.8	15.97	-1.00	I*****									MIN VALUE	4.000	.6021	-3.303
46	25.9	24.80	-.67	I*****									MAX VALUE	180.0	2.255	2.493
53	40.9	33.64	-.33	I*****									CORRELATION COEFFICIENTS (LOG-T)			
75	62.2	42.47	.00	I*****									HG	-1	0	1
36	72.4	51.31	.33	I*****									VERSUS			
37	83.0	60.14	.67	I*****												
15	87.2	68.97	1.00	I*****												
11	90.3	77.81	1.33	I*****												
9	92.9	86.64	1.67	I*****												
6	94.6	95.48	2.00	I***												
4	95.7	104.3	2.33	I**												
4	96.9	113.1	2.67	I**												
6	98.6	122.0	3.00	I***												
2	99.1	130.8	3.33	I*												
1	99.4	139.6	3.67	I*												
1	99.7	148.5	4.00	I*												
0	99.7	157.3	4.33	I												
0	99.7	166.1	4.67	I												
0	99.7	175.0	5.00	I												
1	100	183.8	5.33	I*												
0	100	192.6	5.67	I												
0	100	+INF	+INF	I												

ARITHMETIC
HG (PPB)
HISTOGRAM

NO OF SAMPS	CUM PCT	UPPER LIMIT PPB	UPPER LIMIT NORM.	0	10	20	30	40	50	60	70	LOG-TRANSFORMED	HG (PPB)	HISTOGRAM
5	1.4	4.881	-3.00	I*****	+	+	+	+	+	+	+			
0	1.4	6.075	-2.67	I										
0	1.4	7.562	-2.33	I										
3	2.3	9.412	-2.00	I***										
20	8.0	11.72	-1.67	I*****										
17	12.8	14.58	-1.33	I*****										
12	16.2	18.15	-1.00	I*****										
18	21.3	22.59	-.67	I*****										
30	29.8	28.12	-.33	I*****										
46	42.9	35.01	.00	I*****										
68	62.2	43.57	.33	I*****										
56	78.1	54.24	.67	I*****										
32	87.2	67.51	1.00	I*****										
19	92.6	84.03	1.33	I*****										
11	95.7	104.6	1.67	I*****										
12	99.1	130.2	2.00	I*****										
2	99.7	162.1	2.33	I**										
1	100	201.7	2.67	I*										
0	100	251.1	3.00	I										
0	100	+INF	+INF	I										

LOG-TRANSFORMED
HG (PPB)
HISTOGRAM

CHEVRON CANADA RESOURCES

WO NO: 86-1053

PAGE 1

SAMPLE ID	HG PFB	SAMPLE ID	HG PFB
201	22	246	102
202	25	247	16
203	52	248	80
204	48	249	32
205	22	250	37
206	11	251	11
207	29	252	25
208	59	253	37
209	59	254	22
210	48	255	18
211	73	256	59
212	11	257	32
213	44	258	22
214	52	259	29
215	55	260	37
216	52	261	52
217	22	262	22
218	29	263	80
219	32	264	52
220	62	265	20
221	37	266	102
222	52	267	18
223	66	268	66
224	66	269	59
225	32	270	125
226	66	271	73
227	44	272	37
228	37	273	59
229	44	274	80
230	52	275	73
231	73	276	59
232	52	277	110
233	44	278	88
234	32	279	44
235	118	280	118
236	66	281	52
237	37	282	80
238	52	283	66
239	118	284	73
240	37	285	44
241	29	286	66
242	18	287	118
243	59	288	29
244	55	289	29
245	20	290	88

CHEVRON CANADA RESOURCES

WD NO: 86-1053

PAGE 2

SAMPLE ID	HG PPB	SAMPLE ID	HG PPB
291	44	513	25
292	55	514	14
293	73	515	64
294	77	516	36
295	66	517	53
296	52	518	42
297	14	519	14
298	37	520	42
299	52	521	25
300	29	522	42
301	41	523	22
302	44	524	14
303	37	525	14
304	32	526	32
305	52	527	29
306	52	528	42
307	52	529	25
308	18	530	42
309	38	531	100
310	35	532	<8
311	29	533	11
312	25	534	29
313	20	535	22
314	38	536	25
315	22	537	<8
316	38	538	29
317	36	539	<8
318	25	540	11
319	36	541	42
320	32	542	<8
321	127	543	42
322	29	544	22
323	49	545	14
501	11	546	11
502	29	547	13
503	14	548	14
504	11	549	<8
505	14	550	49
506	42	551	56
507	29	552	92
508	14	553	49
509	11	554	14
510	18	555	25
511	11	556	22
512	14	557	14

CHEVRON CANADA RESOURCES

WD NO: 86-1053

PAGE 3

SAMPLE ID	HG PPR	SAMPLE ID	HG PPR
558	78	611	42
559	42	612	22
560	74	613	18
561	92	614	12
562	49	615	24
563	71	616	102
564	92	617	54
565	134	618	84
566	11	619	84
567	66	620	78
568	108	621	54
569	36	622	28
570	24	623	60
571	34	624	36
572	46	625	52
573	24	626	36
574	108	627	54
575	58	628	42
576	42	629	64
577	22	630	92
578	12	631	85
579	30	BI-1+00N	42
580	42	BI-0+25N	42
581	28	BI-0+50N	36
582	72	BI-0+75N	36
583	40	BI-1+00N	42
584	114	BI-1+25N	42
585	24	BI-1+50N	36
586	36	BI-1+75N	29
587	48	BI-2+00N	42
596	48	BI-2+25N	42
597	24	BI-2+50N	36
598	42	BI-2+75N	36
599	42	BI-3+00N	42
600	72	BI-3+25N	42
601	42	BI-3+50N	42
602	60	BI-3+75N	36
603	42	BI-4+00N	38
604	10	BI-4+25N	42
605	114	BI-4+50N	49
606	60	BI-4+75N	32
607	180	BI-5+00N	29
608	30	BI-5+25N	29
609	66	BI-5+50N	14
610	18	BI-5+75N	25

CHEVRON CANADA RESOURCES

WO NO: 86-1053

PAGE 4

SAMPLE ID	HG PPR	SAMPLE ID	HG PPR
BI-6+00N	23	LBN-9+00N	25
BI-6+25N	25	LBN-9+25N	19
BI-6+50N	11	LBN-9+50N	31
BI-6+75N	23	LBN-9+75N	29
BI-7+00N	29	LBN-10+00N	34
BI-7+25N	11	LBN-10+25N	50
BI-7+50N	8	LBN-10+50N	46
BI-7+75N	23	LBN-10+75N	34
BI-8+00N	29	LBN-11+00N	46
LBN-0+00N	40	LBN-11+25N	34
LBN-0+25N	50	LBN-11+50N	50
LBN-0+50N	42	LBN-11+75N	40
LBN-0+75N	50	LBN-12+00N	40
LBN-1+00N	40	475S	23
LBN-1+25N	46	500S	29
LBN-1+50N	24	525S	67
LBN-1+75N	34	550S	23
LBN-2+00N	17	575S	23
LBN-2+25N	11	600S	8
LBN-2+50N	11	625S	11
LBN-2+75N	17	650S	29
LBN-3+00N	17	675S	107
LBN-3+25N	31	700S	23
LBN-3+50N	8	725S	29
LBN-3+75N	11	750S	50
LBN-4+00N	11	775S	56
LBN-4+25N	11	800S	46
LBN-4+50N	19	825S	50
LBN-4+75N	37	850S	50
LBN-5+00N	40	875S	67
LBN-5+25N	40	900S	29
LBN-5+50N	46	925S	23
LBN-5+75N	40	1100S	34
LBN-6+00N	48	1125S	29
LBN-6+25N	46	1150S	17
LBN-6+50N	50	1175S	50
LBN-6+75N	50	1200S	56
LBN-7+00N	46		
LBN-7+25N	42		
LBN-7+50N	40		
LBN-7+75N	37		
LBN-8+00N	29		
LBN-8+25N	23		
LBN-8+50N	23		
LBN-8+75N	142		

CHEVRON CANADA RESOURCES

W.O.: 86-1053

UNIVARIATE STATISTICS

N = THE NUMBER OF SAMPLES FOR WHICH DATA VALUES EXIST

X(I) = THE DATA VALUE FOR SAMPLE I, FOR I=1 TO N. ORIGINAL DATA VALUES ARE UTILIZED AS FOLLOWS:
 $X(I)=A/2$ FOR ORIGINAL VALUE OF $<A$
 $X(I)=A$ FOR ORIGINAL VALUE OF A OR $>A$

MEANX = SAMPLE MEAN - THE AVERAGE VALUE OF A VARIABLE

$$= \frac{\sum_{I=1}^N X(I)}{N}$$

STDDEVX = SAMPLE STANDARD DEVIATION - A MEASURE OF THE RANGE OF VARIATION OF A VARIABLE

$$= \sqrt{\frac{\sum_{I=1}^N (X(I) - \text{MEANX})^2}{(N-1)}}$$

SKEWX = SAMPLE SKEWNESS - A MEASURE OF THE ASYMMETRY OF THE DISTRIBUTION OF VALUES OF A VARIABLE. POSITIVE OR NEGATIVE SKEWNESS USUALLY INDICATES A FREQUENCY DISTRIBUTION WITH A STEEPER SLOPE BELOW OR ABOVE THE MEAN RESPECTIVELY. A NORMAL DISTRIBUTION WILL HAVE ZERO SKEWNESS.

$$= \frac{\sum_{I=1}^N ((X(I) - \text{MEANX}) / \text{STDDEVX})^3}{N}$$

REL STD DEV = RELATIVE STANDARD DEVIATION = $\text{STDDEVX} / \text{MEANX}$

MIN VALUE = MINIMUM VALUE OF X(I)'S

MAX VALUE = MAXIMUM VALUE OF X(I)'S

TRANSFORMATION

DEFINITION

- | | |
|-----------------------------|---|
| 1. NORMALISATION | $W(I) = (X(I) - \text{MEANX}) / \text{STDDEVX}$ |
| 2. LOG-TRANSFORM | $Y(I) = \text{LOG}_{10}(X(I))$ |
| 3. NORMALISED LOG-TRANSFORM | $Z(I) = (Y(I) - \text{MEANY}) / \text{STDDEVY}$ |

WHERE MEANY AND STDDEVY ARE THE MEAN AND STD DEV OF THE LOG-TRANSFORMED DATA.

HISTOGRAMS

HISTOGRAMS REVEAL THE FREQUENCY DISTRIBUTION OF SAMPLE DATA VALUES FOR EACH VARIABLE.

FOR ARITHMETIC HISTOGRAMS, THE UNTRANSFORMED (X(I)) AND NORMALISED (W(I)) DATA VALUES ARE PLOTTED ON A LINEAR SCALE ALONG THE VERTICAL AXIS.

FOR HISTOGRAMS OF LOG-TRANSFORMED DATA, THE NORMALISED LOG-TRANSFORMED DATA VALUES (Z(I)) ARE PLOTTED ON A LINEAR SCALE ALONG THE VERTICAL AXIS, TOGETHER WITH THE CORRESPONDING VALUES OF $X(I) = \text{ANTILOG}_{10}(Y(I))$.

IN BOTH CASES THE HORIZONTAL AXIS INDICATES THE NUMBER OF SAMPLES HAVING DATA VALUES WITHIN A SPECIFIC DATA INTERVAL, IDENTIFIED BY ITS UPPER LIMIT. THE NO OF SAMPLES IN EACH INTERVAL AND THE CUMULATIVE PER CENT OF THE SAMPLES WITH VALUES LESS THAN OR EQUAL TO THE SPECIFIED UPPER LIMIT ARE ALSO SHOWN.

CORRELATION COEFFICIENTS

THE LINEAR-CORRELATION COEFFICIENT (OR PRODUCT-MOMENT-CORRELATION COEFFICIENT) REFLECTS THE EXTENT TO WHICH VARIATIONS IN THE OBSERVED VALUES OF ONE VARIABLE ARE CORRELATED WITH VARIATIONS IN THE OBSERVED VALUES OF ANOTHER VARIABLE.

M = THE NUMBER OF SAMPLES FOR WHICH DATA VALUES EXIST FOR BOTH VARIABLES J AND K

Y(I,J) = LOG-TRANSFORMED DATA VALUE OF VARIABLE J, SAMPLE I

$S(J,K) \times 2 =$ SAMPLE COVARIANCE

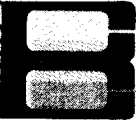
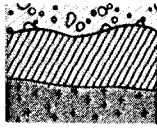
$$= \frac{\sum_{I=1}^M ((Y(I,J) - \text{MEANY}(J)) * (Y(I,K) - \text{MEANY}(K)))}{(M-1)}$$

R(J,K) = SAMPLE LINEAR-CORRELATION COEFFICIENT
 $= S(J,K) \times 2 / (\text{STDDEVY}(J) * \text{STDDEVY}(K))$

POSSIBLE VALUES OF R(J,K) RANGE FROM -1 TO +1. THE SIGNIFICANCE OF A PARTICULAR VALUE OF THE CORRELATION COEFFICIENT IS DEPENDENT UPON THE NUMBER OF SAMPLES USED TO COMPUTE IT. REFER TO PUBLISHED TABLES OF THE PROBABILITY OF EXCEEDING ABS(R(J,K)) IN A RANDOM SAMPLE OF M OBSERVATIONS TAKEN FROM AN UNCORRELATED PARENT POPULATION.

Bondar-Clegg & Company Ltd.

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Ottawa, Ontario,
Canada K1H 5P5
Phone: (613) 222-2220
Telex: 053-3233



BONDAR-CLEGG

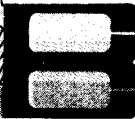
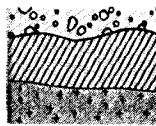
**Geochemical
Lab Report**

CHEVRON CANADA RESOURCES LIMITED
MR. TED GLEN
1714-390 BAY ST.
TORONTO, ONT
M5H 2Y2

RECEIVED OCT 28 1986

+ + + + +

Bondar-Clegg & Company Ltd.
5420 Canotek Rd.,
Ottawa, Ontario,
Canada K1H 2Z2
Phone: (613) 722-2220
Telex: 053-3233



BONDAR-CLEGG

**Geochemical
Lab Report**

REPORT: 116-4403 (COMPLETE)

REFERENCE INFO:

CLIENT: CHEVRON CANADA RESOURCES LIMITED
PROJECT: NONE

SUBMITTED BY: T. GLENN
DATE PRINTED: 23-OCT-86

ORDER	ELEMENT	NUMBER OF ANALYSES	LOWER DETECTION LIMIT	EXTRACTION	METHOD
1	Hg Mercury	22	5 PPB	HNO3-H2SO4-HCL-KMNO4	Cold Vapour AA

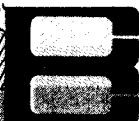
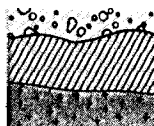
SAMPLE TYPES	NUMBER	SIZE FRACTIONS	NUMBER	SAMPLE PREPARATIONS	NUMBER
PREPARED PULP	22	AS RECEIVED	22	AS RECEIVED, NO SP	22

REMARKS: < MEANS LESS THAN.

REPORT COPIES TO: MR. TED GLEN

INVOICE TO: MR. TED GLEN

Bondar-Clegg & Company Ltd.
5420 Canotek Rd.,
Ottawa, Ont. K1J 5G6,
Canada K1J 5G6
Phone: (613) 739-2220
Telex: 053-3233



BONDAR-CLEGG

**Geochemical
Lab Report**

REPORT: 116-4403

PROJECT: NONE

PAGE 1

SAMPLE NUMBER	ELEMENT UNITS	Hg PPB
------------------	------------------	-----------

1001		5
1002		10
1003		10
1004		10
1005		10

1006		10
1007		25
1008		10
1009		<5
1010		10

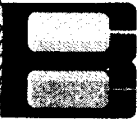
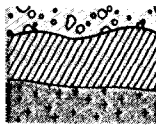
1011		<5
1012		10
1013		<5
1014		10
1015		10

1016		<5
1017		<5
1018		5
1019		10
1020		10

1021		10
1022		10

Bondar-Clegg & Company Ltd.

5420 Canotek Rd.,
Ottawa, Ontario,
Canada K1H 2P2
Phone: (613) 735-2220
Telex: 053-3233



BONDAR-CLEGG

**Geochemical
Lab Report**

Kirkland

M 560

Geochemistry

CHEVRON CANADA RESOURCES LIMITED

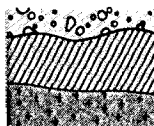
MR. TED GLEN

1714-390 BAY ST.

TORONTO, ONT

M5H 2Y2

+ + + + +



REPORT: 016-4403 (COMPLETE)

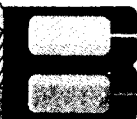
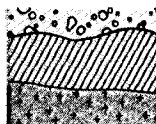
REFERENCE INFO:

CLIENT: CHEVRON CANADA RESOURCES LIMITED
 PROJECT: NONE

SUBMITTED BY: C. PATENAUDE
 DATE PRINTED: 3-NOV-86

ORDER	ELEMENT	NUMBER OF ANALYSES	LOWER DETECTION LIMIT	EXTRACTION	METHOD
1	Sc Scandium	22	0.5 PPM		Neutron Activation
2	Cr Chromium	22	50 PPM		Neutron Activation
3	Fe Iron	22	0.5 PCT		Neutron Activation
4	Co Cobalt	22	10 PPM		Neutron Activation
5	Ni Nickel	22	50 PPM		Neutron Activation
6	Zn Zinc	22	200 PPM		Neutron Activation
7	As Arsenic	22	1 PPM		Neutron Activation
8	Se Selenium	22	10 PPM		Neutron Activation
9	Rb Rubidium	22	10 PPM		Neutron Activation
10	Mo Molybdenum	22	2 PPM		Neutron Activation
11	Ag Silver	22	5 PPM		Neutron Activation
12	Cd Cadmium	22	10 PPM		Neutron Activation
13	Sb Antimony	22	0.2 PPM		Neutron Activation
14	Cs Cesium	22	1 PPM		Neutron Activation
15	Ba Barium	22	100 PPM		Neutron Activation
16	La Lanthanum	22	5 PPM		Neutron Activation
17	Eu Europium	22	2 PPM		Neutron Activation
18	Tb Terbium	22	1 PPM		Neutron Activation
19	Yb Ytterbium	22	5 PPM		Neutron Activation
20	Hf Hafnium	22	2 PPM		Neutron Activation
21	Ta Tantalum	22	1 PPM		Neutron Activation
22	W Tungsten	22	2 PPM		Neutron Activation
23	Ir Iridium	22	100 PPB		Neutron Activation
24	Au Gold	22	5 PPB		Neutron Activation
25	Th Thorium	22	0.5 PPM		Neutron Activation
26	U Uranium	22	0.5 PPM		Neutron Activation
27	WT Test Weight	22	0.01 g		

Bondar-Clegg & Company Ltd.
5420 Canotek Rd.,
Ottawa, Ontario,
Canada K1H 2Z2
Phone: (613) 742-2220
Telex: 053-3233



BONDAR-CLEGG

**Geochemical
Lab Report**

REPORT: 016-4403 (COMPLETE)

REFERENCE INFO:

CLIENT: CHEVRON CANADA RESOURCES LIMITED
PROJECT: NONE

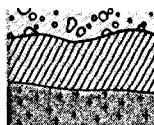
SUBMITTED BY: C. PATENAUDE
DATE PRINTED: 3-NOV-86

SAMPLE TYPES	NUMBER	SIZE FRACTIONS	NUMBER	SAMPLE PREPARATIONS	NUMBER
PREPARED PULP	22	AS RECEIVED	22	AS RECEIVED, NO SP	22

REMARKS: < MEANS LESS THAN.

REPORT COPIES TO: MR. TED GLEN

INVOICE TO: MR. TED GLEN

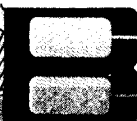
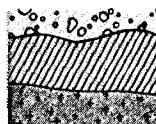


REPORT: 016-4403

PROJECT: NONE

PAGE 1A

SAMPLE NUMBER	ELEMENT UNITS	Sc PPM	Cr PPM	Fe PCT	Co PPM	Ni PPM	Zn PPM	As PPM	Se PPM	Rb PPM	Mo PPM	Ag PPM
1001		15.0	190	5.1	24	93	<200	4	<10	97	3	<5
1002		15.0	560	4.5	22	73	<200	4	<10	82	4	<5
1003		12.0	200	4.1	17	<50	<200	5	<10	73	4	<5
1004		12.0	1000	3.9	26	73	<200	4	<10	79	7	<5
1005		17.0	210	5.7	23	86	<200	4	<10	91	3	<5
1006		15.0	610	4.7	22	84	<200	3	<10	84	5	<5
1007		15.0	190	4.8	22	72	<200	4	<10	81	3	<5
1008		15.0	340	4.7	25	84	<200	3	<10	83	3	<5
1009		15.0	190	4.9	22	77	<200	4	<10	78	3	<5
1010		17.0	370	5.1	26	87	<200	4	<10	81	2	<5
1011		17.0	200	5.3	21	85	<200	4	<10	77	3	<5
1012		43.0	420	13.0	56	100	<200	3	<10	12	<2	<5
1013		42.0	160	12.0	47	70	<200	4	<10	<10	<2	<5
1014		46.0	580	13.0	46	55	<200	4	<10	<10	3	<5
1015		10.0	1000	3.0	20	68	<200	2	<10	84	6	<5
1016		3.8	110	1.3	<10	<50	<200	2	<10	43	2	<5
1017		18.0	300	5.5	27	86	<200	5	<10	120	4	<5
1018		17.0	210	5.7	25	80	<200	5	<10	97	3	<5
1019		10.0	840	3.9	12	60	<200	5	<10	68	6	<5
1020		13.0	210	4.8	21	69	<200	6	<10	79	3	<5
1021		8.1	180	3.1	<10	<50	<200	5	<10	55	3	<5
1022		16.0	760	5.2	24	72	<200	14	<10	100	7	<5

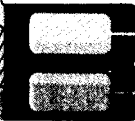
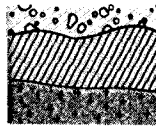


REPORT: 016-4403

PROJECT: NONE

PAGE 1B

SAMPLE NUMBER	ELEMENT UNITS	Cd PPM	Sb PPM	Cs PPM	Ba PPM	La PPM	Eu PPM	Tb PPM	Yb PPM	Hf PPM	Ta PPM	W PPM
1001		<10	0.6	2	460	12	<2	<1	<5	5	1	<2
1002		<10	0.5	2	590	11	<2	<1	<5	4	<1	4
1003		<10	0.7	1	520	11	<2	<1	<5	5	1	<2
1004		<10	0.4	1	530	10	<2	<1	<5	6	<1	11
1005		<10	0.7	2	580	26	<2	<1	<5	5	1	<2
1006		<10	0.4	2	540	16	<2	<1	<5	4	<1	6
1007		<10	0.7	2	620	13	<2	<1	<5	5	<1	<2
1008		<10	0.4	2	470	19	<2	<1	<5	3	<1	4
1009		<10	0.6	2	490	20	<2	<1	<5	4	1	<2
1010		<10	0.6	2	650	27	<2	<1	<5	4	1	5
1011		<10	0.6	<1	490	15	<2	<1	<5	4	<1	<2
1012		<10	0.5	<1	100	8	<2	1	<5	3	<1	<2
1013		<10	0.7	<1	<100	7	<2	<1	<5	3	<1	<2
1014		<10	1.4	<1	<100	9	<2	1	6	5	<1	<2
1015		<10	0.3	1	460	<5	<2	<1	<5	4	<1	10
1016		<10	0.6	<1	280	<5	<2	<1	<5	3	<1	<2
1017		<10	0.7	2	740	36	<2	<1	<5	4	<1	2
1018		<10	0.8	1	640	25	<2	<1	<5	4	<1	<2
1019		<10	0.5	<1	490	12	<2	<1	<5	5	<1	9
1020		<10	1.0	1	560	30	<2	<1	<5	4	<1	<2
1021		<10	0.9	<1	420	8	<2	<1	<5	4	<1	<2
1022		<10	0.6	2	710	24	<2	<1	<5	4	<1	8



REPORT: 016-4403

PROJECT: NONE

PAGE 1C

SAMPLE NUMBER	ELEMENT UNITS	Ir PPB	Au PPB	Th PPM	U PPM	WT g
1001		<100	<5	11.0	3.6	8.30
1002		<100	<5	9.4	3.0	8.80
1003		<100	<5	7.7	2.2	12.20
1004		<100	<5	7.8	2.6	11.50
1005		<100	<5	11.0	3.2	10.77
1006		<100	<5	10.0	2.6	10.40
1007		<100	<5	10.0	2.8	10.63
1008		<100	<5	9.4	2.5	9.45
1009		<100	6	10.0	2.8	10.23
1010		<100	<5	10.0	2.9	10.26
1011		<100	<5	10.0	3.0	10.43
1012		<100	<5	0.9	<0.5	8.30
1013		<100	<5	<0.5	<0.5	10.20
1014		<100	<5	<0.5	<0.5	11.87
1015		<100	<5	7.6	3.0	10.60
1016		<100	<5	4.3	1.0	13.75
1017		<100	<5	11.0	3.7	11.72
1018		<100	<5	12.0	3.1	9.47
1019		<100	<5	5.5	2.0	11.46
1020		<100	<5	10.0	3.5	9.90
1021		<100	<5	4.2	1.9	10.04
1022		<100	<5	8.8	3.2	9.15

Appendix 111



Chevron Canada Resources

Minerals Staff

Suite 1714 - 390 Bay Street, Toronto, Ontario M5H 2Y2 • Phone (416) 947-9166

March 30, 1987

This is to certify that the attached list of expenses is a true and accurate accounting of Chevrons' expenses while performing a Geochemical/Channel Sampling program in Burt Township, Larder Lake Mining Division.

A handwritten signature in cursive script, appearing to read 'W.E. Glenn'.

W.E. Glenn

WG/j

COST BREAKDOWN

Analysis

Barringer Magenta		2,059.20
Bondar Clegg		99.00
Bondar Clegg		283.54
Bondar Clegg		106.75
Travel	819.00 prorata (3/5)	491.40
		<hr/>
	Sub-Total	3,039.89

Other Expenses

Dirt Bags	58.86	
Dirt Bags	13.14	
Shipping	26.70	
Photocopying	18.45	<u>117.15</u>
	Total	<u>3,157.04</u> =====



GEOPHYSICAL - GEOLOGICAL - GEOCHEMICAL
TECHNICAL DATA STATEMENT

TO BE ATTACHED AS AN APPENDIX TO TECHNICAL REPORT
FACTS SHOWN HERE NEED NOT BE REPEATED IN REPORT
TECHNICAL REPORT MUST CONTAIN INTERPRETATION, CONCLUSIONS ETC.

Type of Survey(s) Geochemical/Channel Sampling
Township or Area Burt Township
Claim Holder(s) Chevron Minerals

Survey Company Meegwich Surveys
Author of Report W.E. Glenn
Address of Author Number 1714, 390 Bay Street
Toronto, Ontario M5H 2Y2
Covering Dates of Survey 1509 86 3003 87
(linecutting to office)
Total Miles of Line Cut _____

MINING CLAIMS TRAVERSED
List numerically

(prefix) (number)

SPECIAL PROVISIONS
CREDITS REQUESTED

DAYS
per claim

ENTER 40 days (includes
line cutting) for first
survey.

ENTER 20 days for each
additional survey using
same grid.

- Geophysical
- Electromagnetic _____
- Magnetometer _____
- Radiometric _____
- Other _____
- Geological _____
- Geochemical _____

AIRBORNE CREDITS (Special provision credits do not apply to airborne surveys)

Magnetometer _____ Electromagnetic _____ Radiometric _____
(enter days per claim)

DATE: May 22/87 SIGNATURE: [Signature]
Author of Report or Agent

Res. Geol. _____ Qualifications _____

Previous Surveys

File No.	Type	Date	Claim Holder

TOTAL CLAIMS _____

If space insufficient, attach list

OFFICE USE ONLY

GEOPHYSICAL TECHNICAL DATA

GROUND SURVEYS – If more than one survey, specify data for each type of survey

Number of Stations _____ Number of Readings _____
Station interval _____ Line spacing _____
Profile scale _____
Contour interval _____

MAGNETIC

Instrument _____
Accuracy – Scale constant _____
Diurnal correction method _____
Base Station check-in interval (hours) _____
Base Station location and value _____

ELECTROMAGNETIC

Instrument _____
Coil configuration _____
Coil separation _____
Accuracy _____
Method: Fixed transmitter Shoot back In line Parallel line
Frequency _____
(specify V.L.F. station)
Parameters measured _____

GRAVITY

Instrument _____
Scale constant _____
Corrections made _____

Base station value and location _____

Elevation accuracy _____

**INDUCED POLARIZATION
RESISTIVITY**

Instrument _____
Method Time Domain Frequency Domain
Parameters – On time _____ Frequency _____
– Off time _____ Range _____
– Delay time _____
– Integration time _____
Power _____
Electrode array _____
Electrode spacing _____
Type of electrode _____

SELF POTENTIAL

Instrument _____ Range _____

Survey Method _____

Corrections made _____

RADIOMETRIC

Instrument _____

Values measured _____

Energy windows (levels) _____

Height of instrument _____ Background Count _____

Size of detector _____

Overburden _____

(type, depth - include outcrop map)

OTHERS (SEISMIC, DRILL WELL LOGGING ETC.)

Type of survey _____

Instrument _____

Accuracy _____

Parameters measured _____

Additional information (for understanding results) _____

AIRBORNE SURVEYS

Type of survey(s) _____

Instrument(s) _____

(specify for each type of survey)

Accuracy _____

(specify for each type of survey)

Aircraft used _____

Sensor altitude _____

Navigation and flight path recovery method _____

Aircraft altitude _____ Line Spacing _____

Miles flown over total area _____ Over claims only _____

GEOCHEMICAL SURVEY – PROCEDURE RECORD

Numbers of claims from which samples taken L755195, L755198, L779880, L779879, L779881,
L779882, L779886, L779885, L779887, L779888, L779891, L779890, L779892, L779893

Total Number of Samples 362

Type of Sample Soil
(Nature of Material)

Average Sample Weight 50 gm

Method of Collection shovel, plastic bag

Soil Horizon Sampled B

Horizon Development _____

Sample Depth 10-15 cm

Terrain hilly, mixed tree cover, marsh,
outcrop

Drainage Development partly marsh

Estimated Range of Overburden Thickness 0 - 2m

SAMPLE PREPARATION

(Includes drying, screening, crushing, ashing)

Mesh size of fraction used for analysis _____

General _____

ANALYTICAL METHODS

Values expressed in: per cent
 p. p. m.
 p. p. b.

Cu, Pb, Zn, Ni, Co, Ag, Mo, As, -(circle)

Others Hg

Field Analysis (_____ tests)

Extraction Method _____

Analytical Method _____

Reagents Used _____

Field Laboratory Analysis

No. (_____ tests)

Extraction Method _____

Analytical Method _____

Reagents Used _____

Commercial Laboratory (362 tests)

Name of Laboratory Barringer Magenta

Extraction Method _____

Analytical Method COLD VAPOUR AA

Reagents Used HN03-H2S04-HCL-KMN04

General _____

GEOPHYSICAL TECHNICAL DATA

GROUND SURVEYS – If more than one survey, specify data for each type of survey

Number of Stations _____ Number of Readings _____
Station interval _____ Line spacing _____
Profile scale _____
Contour interval _____

MAGNETIC

Instrument _____
Accuracy – Scale constant _____
Diurnal correction method _____
Base Station check-in interval (hours) _____
Base Station location and value _____

ELECTROMAGNETIC

Instrument _____
Coil configuration _____
Coil separation _____
Accuracy _____
Method: Fixed transmitter Shoot back In line Parallel line
Frequency _____
(specify V.L.F. station)
Parameters measured _____

GRAVITY

Instrument _____
Scale constant _____
Corrections made _____

Base station value and location _____

Elevation accuracy _____

INDUCED POLARIZATION
RESISTIVITY

Instrument _____
Method Time Domain Frequency Domain
Parameters – On time _____ Frequency _____
– Off time _____ Range _____
– Delay time _____
– Integration time _____
Power _____
Electrode array _____
Electrode spacing _____
Type of electrode _____

SELF POTENTIAL

Instrument _____ Range _____

Survey Method _____

Corrections made _____

RADIOMETRIC

Instrument _____

Values measured _____

Energy windows (levels) _____

Height of instrument _____ Background Count _____

Size of detector _____

Overburden _____

(type, depth - include outcrop map)

OTHERS (SEISMIC, DRILL WELL LOGGING ETC.)

Type of survey _____

Instrument _____

Accuracy _____

Parameters measured _____

Additional information (for understanding results) _____

AIRBORNE SURVEYS

Type of survey(s) _____

Instrument(s) _____
(specify for each type of survey)

Accuracy _____
(specify for each type of survey)

Aircraft used _____

Sensor altitude _____

Navigation and flight path recovery method _____

Aircraft altitude _____ Line Spacing _____

Miles flown over total area _____ Over claims only _____

GEOCHEMICAL SURVEY - PROCEDURE RECORD

Numbers of claims from which samples taken L779891, L779890, L779887, L779879, L749864

Total Number of Samples 22

Type of Sample Rock (Nature of Material)

Average Sample Weight 10 grams

Method of Collection Rock Saw Canvas Bags

Soil Horizon Sampled

Horizon Development

Sample Depth

Terrain

Drainage Development

Estimated Range of Overburden Thickness

SAMPLE PREPARATION

(Includes drying, screening, crushing, ashing)

Mesh size of fraction used for analysis

crushed & Pulped & capsulated

General

ANALYTICAL METHODS

Values expressed in: per cent [X], p. p. m. [X], p. p. b. [X] Varies

Cu, Pb, Zn, Ni, Co, Ag, Mo, As, (circle)

Others Hg, Sc, Cr, Fe, Se, Rb, Cd, Sb, Cs, Ba,

La, Eu, Tb, Yb, Hf, Ta, W, Ir, Au, Th, U Field Analysis (tests)

Extraction Method

Analytical Method

Reagents Used

Field Laboratory Analysis

No. (tests)

Extraction Method

Analytical Method

Reagents Used

Commercial Laboratory (22 tests)

Name of Laboratory Bondar Clegg

Extraction Method

Analytical Method Neutron Activation

Reagents Used

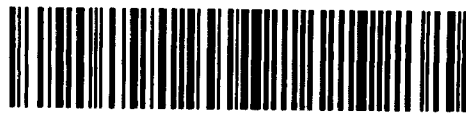
General



File 2.10096

Ministry of Northern Development and Mines

Report of Work (Geophysical, Geological, Geochemical and Expenditures) 2



42A015W0030 2.10096 BURT

900

W 070A-267

Mining Act

in the "Expend. Days Cr." columns. - Do not use shaded areas below.

Type of Survey(s) Geochemical		Township or Area Burt Township	
Claim Holder(s) Chevron Minerals Ltd.		Prospector's Licence No. T-1690	
Address #1714 - 390 Bay Street, Toronto, Ontario, M5H 2Y2			
Survey Company Meegwich Surveys		Date of Survey (from & to) 15 08 86 30 03 87.	Total Miles of line Cut ----
Name and Address of Author (of Geo-Technical report) W.E. Glenn - #1714 - 390 Bay Street, Toronto, Ontario M5H 2Y2			

Credits Requested per Each Claim in Columns at right

Mining Claims Traversed (List in numerical sequence)

Special Provisions	Geophysical	Days per Claim
For first survey: Enter 40 days. (This includes line cutting)	- Electromagnetic	
	- Magnetometer	
For each additional survey: using the same grid: Enter 20 days (for each)	- Radiometric	
	- Other	
Man Days	Geological	
	Geochemical	
	Complete reverse side and enter 10.28	10.28
Airborne Credits	Electromagnetic	
	Magnetometer	
	Radiometric	
	Geological	
	Geochemical	

Mining Claim		Expend. Days Cr.	Mining Claim		Expend. Days Cr.
Prefix	Number		Prefix	Number	
L	755195				
	755196				
	755197				
	755198				
	779879				
	779880				
	779881				
	779882				
	779885				
	779886				
	779887				
	779888				
	779890				
	779891				
	779892				
	779893				

Expenditures (excludes power stripping)

Type of Work Performed: **Mining Lands Section**

Performed on Claim(s): **Mining Lands Section**

Calculation of Expenditure Days Credits

Total Expenditures: \$ ÷ 15 = Total Days Credits:

Total number of mining claims covered by this report of work. **16**

Instructions: Total Days Credits may be apportioned at the claim holder's choice. Enter number of days credits per claim selected in columns at right.

For Office Use Only

Total Days Cr. Recorded: **164.48** Date Recorded: **JUN 20 1987** Mining Recorder: **M. G. Weimer**

Date Approved as Recorded: **1987.07.21** Branch Director: **R. M. Charnesky**

Date: **June 23/87** Recorded Holder or Agent (Signature): **W. E. Glenn**

Certification Verifying Report of Work

I hereby certify that I have a personal and intimate knowledge of the facts set forth in the Report of Work annexed hereto, having performed the work or witnessed same during and/or after its completion and the annexed report is true.

Name and Postal Address of Person Certifying: **W.E. Glenn, Chevron Canada Resources Ltd., #1714-390 Bay Street, Toronto, ON, M5H 2Y2**

Date Certified: **June 23/87** Certified by (Signature): **W. E. Glenn**



Recorded Holder	CHEVRON MINERALS LTD
Township or Area	BURT TOWNSHIP

Type of survey and number of Assessment days credit per claim	Mining Claims Assessed
Geophysical Electromagnetic _____ days Magnetometer _____ days Radiometric _____ days Induced polarization _____ days Other _____ days Section 77 (19) See "Mining Claims Assessed" column Geological _____ days Geochemical _____ days Man days <input type="checkbox"/> Airborne <input type="checkbox"/> Special provision <input type="checkbox"/> Ground <input type="checkbox"/> <input type="checkbox"/> Credits have been reduced because of partial coverage of claims. <input type="checkbox"/> Credits have been reduced because of corrections to work dates and figures of applicant.	\$2,665.64 SPENT ON ANALYSES OF SAMPLES TAKEN FROM MINING CLAIMS: L 755195 to 98 inclusive LK 779879 to 82 inclusive L 779885 to 88 inclusive 4 779890 to 93 inclusive L
	178 ASSESSMENT WORK DAYS ARE ALLOWED WHICH MAY BE GROUPED IN ACCORDANCE WITH SECTION 76(6) OF THE MINING ACT.

Special credits under section 77 (16) for the following mining claims

No credits have been allowed for the following mining claims

not sufficiently covered by the survey insufficient technical data filed

- TRAVEL EXPENSES OF \$491.40 CANNOT BE CLAIMED FOR ASSESSMENT CREDIT.
- GEOCHEMICAL CREDITS NOT APPROVED ON MINING CLAIMS L 755159 TO 63 INCLUSIVE L 755166, L 779898 to 900 inclusive and L 755169.

The Mining Recorder may reduce the above credits if necessary in order that the total number of approved assessment days recorded on each claim does not exceed the maximum allowed as follows: Geophysical - 80; Geological - 40; Geochemical - 40; Section 77(19) - 60.

ASSESSMENT WORK BREAKDOWN

1. FIELD WORK

<u>Type of Work</u>	<u>Name & Address</u>	<u>Dates Worked</u>	<u>Number of 8 hour days</u>
Sampling	S. Normand	Sept. 30, Oct. 1, 2, 3, 6	5
Sampling	M. Thenault	Sept. 30, Oct. 1, 2, 3, 6	5
Sampling	P. Chassé	Sept. 30, Oct. 1, 2, 3, 6	5
Supervisor	C. Patenaud	Sept. 27, Oct. 14	1.5
Supervisor	W.E. Glenn	Sept. 15, 16, Feb. 19, 20 Oct. 8	5

2. CONSULTANTS

<u>Name & Address</u>	<u>Dates Worked (specify in field or office)</u>	<u>Number of 8 hour days</u>

3. DRAUGHTSMAN, TYPING, OTHERS (specify)

<u>Name & Address</u>	<u>Type of Work</u>	<u>Dates Worked</u>	<u>Number of 8 hour days</u>
S. Williams	Draughting	Feb. 13	1
D. Wagner	Typing	Feb. 13	1

TOTAL 8 HOUR TECHNICAL DAYS 23.5

4. LINE-CUTTING

<u>Name</u>	<u>Address</u>	<u>Dates Worked</u>	<u>Number of 8 hour days</u>

TOTAL 8 HOUR LINE-CUTTING DAYS _____



Ontario

Ministry of
Northern Development
and Mines
July 7, 1987

Your File Nos. 142,143/87
Our File: 2.10096

Mining Recorder
Ministry of Northern Development and Mines
4 Government Road East
Kirkland Lake, Ontario
P2N 1A2

Dear Sir:

RE: Notice of Intent dated June 22, 1987
Data for Assaying on Mining Claims
L 755195, et al, in Burt Township

The assessment work credits, as listed with the above-mentioned
Notice of Intent, have been approved as of the above date.

Please inform the recorded holder of these mining claims and
so indicate on your records.

Yours sincerely,

Gary L. Weatherson, Manager
Mining Lands Section
Mineral Development and Lands Branch
Mines and Minerals Division

Whitney Block, Room 6610
Queen's Park
Toronto, Ontario
M7A 1W3

Telephone: (416) 965-4888

gs DK/mc
cc: Chevron Minerals Ltd
Suite 1714
390 Bay Street
Toronto, Ontario
M5H 2Y2
Attention: W.E. Glenn

Mr. G.H. Ferguson
Mining & Lands Commissioner
Toronto, Ontario

Resident Geologist
Kirkland Lake, Ontario

Encl.



Chevron Canada Resources

Minerals Staff

Suite 1714 - 390 Bay Street, Toronto, Ontario M5H 2Y2 • Phone (416) 947-9166

May 26, 1987

Mrs. S.E. Yundt
Land Management Branch
Mining Lands Section
Whitney Block, 6th Floor
Queens Park
Toronto, Ontario
M7A 1W3

RECEIVED	
LAND MANAGEMENT BRANCH	
MAY 28 1987	
PREPARE REPLY COMMENTS PLEASE BY	<input type="checkbox"/>
S.E. YUNDT	
J.R. MORTON	
D.W. SCOTT	
M. BERGMAN	
S. ENKOK	
H. BICHETTE	
RETURN TO R 543	

Dear Mrs. Yundt,

Enclosed please find (2) two copies of a report on Geochemical Soil & Rock work performed for Chevron in Burt Township, Larker Lake Mining Division.

Sincerely,

Sally Williams

RECEIVED
MAY 28 1987
MINING LANDS SECTION

SW/j

BURT TOWNSHIP

#30

LEGEND

- PATENTED LAND
- CROWN LAND SALE
- LEASES
- LICENSE OF OCCUPATION
- LOCATED LAND
- MINING RIGHTS ONLY
- SURFACE RIGHTS ONLY
- CANCELLED

- CS.
- L.O.
- Loc.
- M.R.O.
- S.R.O.
- C.

Mining & Surface rights withdrawn from staking-out, prospecting sale or lease Sec 36, The Mining Act, R.S.O. 1980 Order No. N.R.W. 24/82, Nov 29, 1982 1:40 pm

400' surface rights reservation along the shores of all lakes and rivers.

LARDER LAKE MINING DIVISION

DISTRICT OF TIMISKAMING

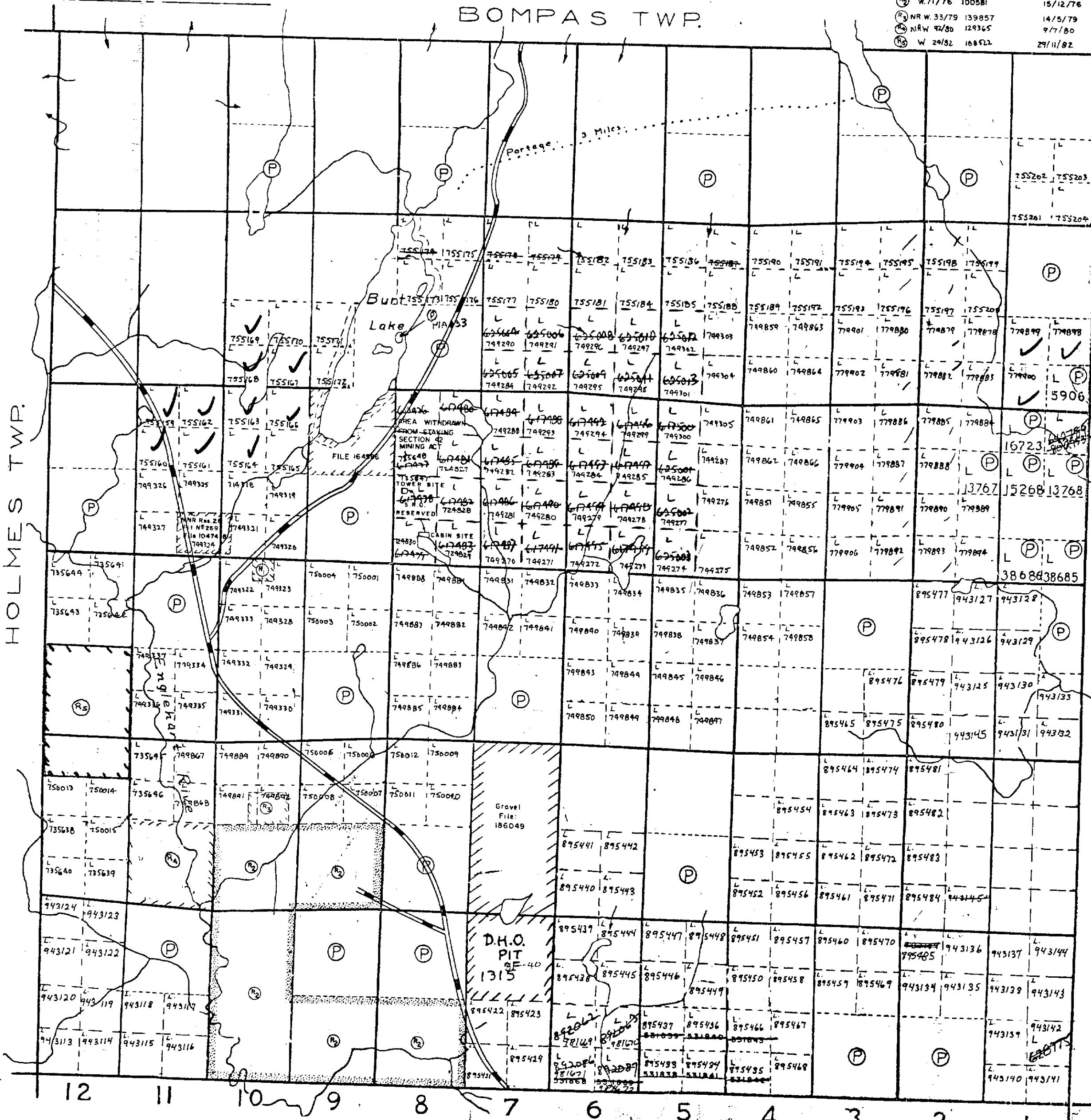
SCALE 40 CHAINS TO ONE INCH

BOMPAS TWP.

M.334

Areas withdrawn from staking under Section 43 of the Mining Act (R.S.O. 1970).

Order No.	File	Date	Disposition
W.7/74	104317	21/2/74	S.R.O.
W.71/76	100581	15/12/76	S.R.O.
NR.W.33/79	139857	14/5/79	S.R.O.
NR.W.92/80	129365	9/7/80	S.R.O.
W.24/82	168522	29/11/82	SR/MR



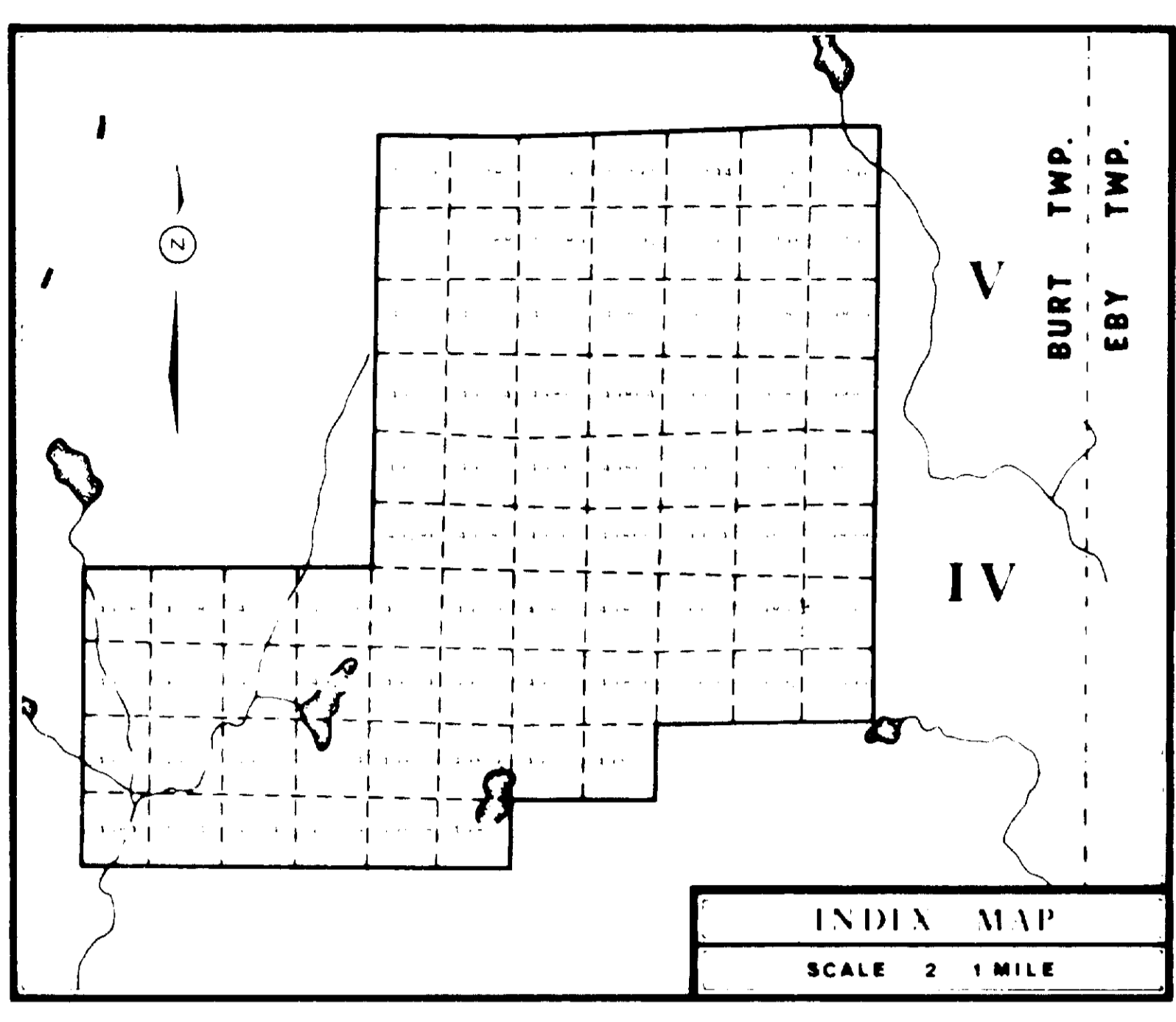
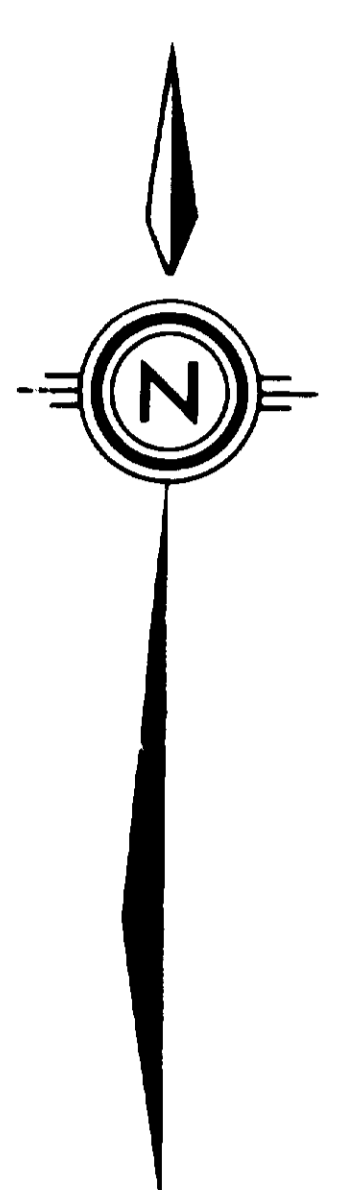
VI
V
IV
E BY TWP.

HOLMES TWP.

GROSS TWP.



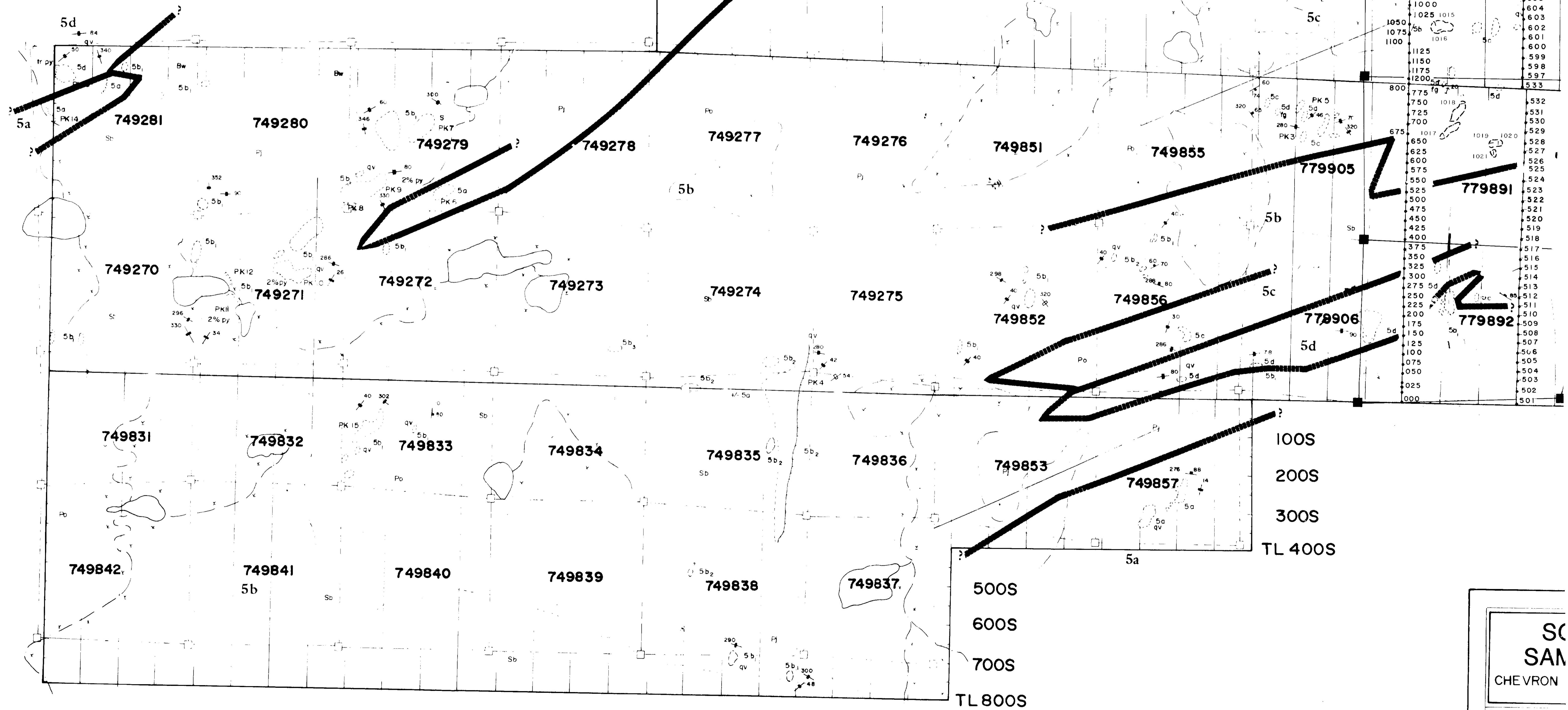
L 44 W L 43 W L 42 W L 41 W L 40 W L 39 W L 38 W L 37 W L 36 W L 35 W L 34 W L 33 W L 32 W L 31 W L 30 W L 29 W L 28 W L 27 W L 26 W L 25 W L 24 W L 23 W L 22 W L 21 W L 20 W L 19 W L 18 W L 17 W L 16 W L 15 W L 14 W L 13 W L 12 W L 11 W L 10 W L 9 W L 8 W L 7 W L 6 W L 5 W



Legend

- ~ HURONIAN
COBALT GROUP
- 5 Conglomerate
 - 5a Quartzite
 - 1 > 50% qt
 - 2 < 50% qt
 - 3 > 30% kspar
 - 4 banded red beds
 - 5c Slate
 - 5d Argillite
- ~ ARCHEAN
- 1 Mafic to intermediate metavolcanic rocks
- ~ SYMBOLS
- Muskeg or swamp
 - Trail, portage, winter road
 - Boundary of rock outcrop
 - Geological boundary, approximate
 - Drill hole location approximate
- Jointing vertical
 - Jointing inclined
 - Occasional jointing
 - Schistosity
 - Quartz vein
 - Pyritiferous mineralization
 - Iron staining
 - Representative sample
 - Silicification
 - Jack pine
 - Poplar
 - White birch
 - Black spruce

BURT TWP.



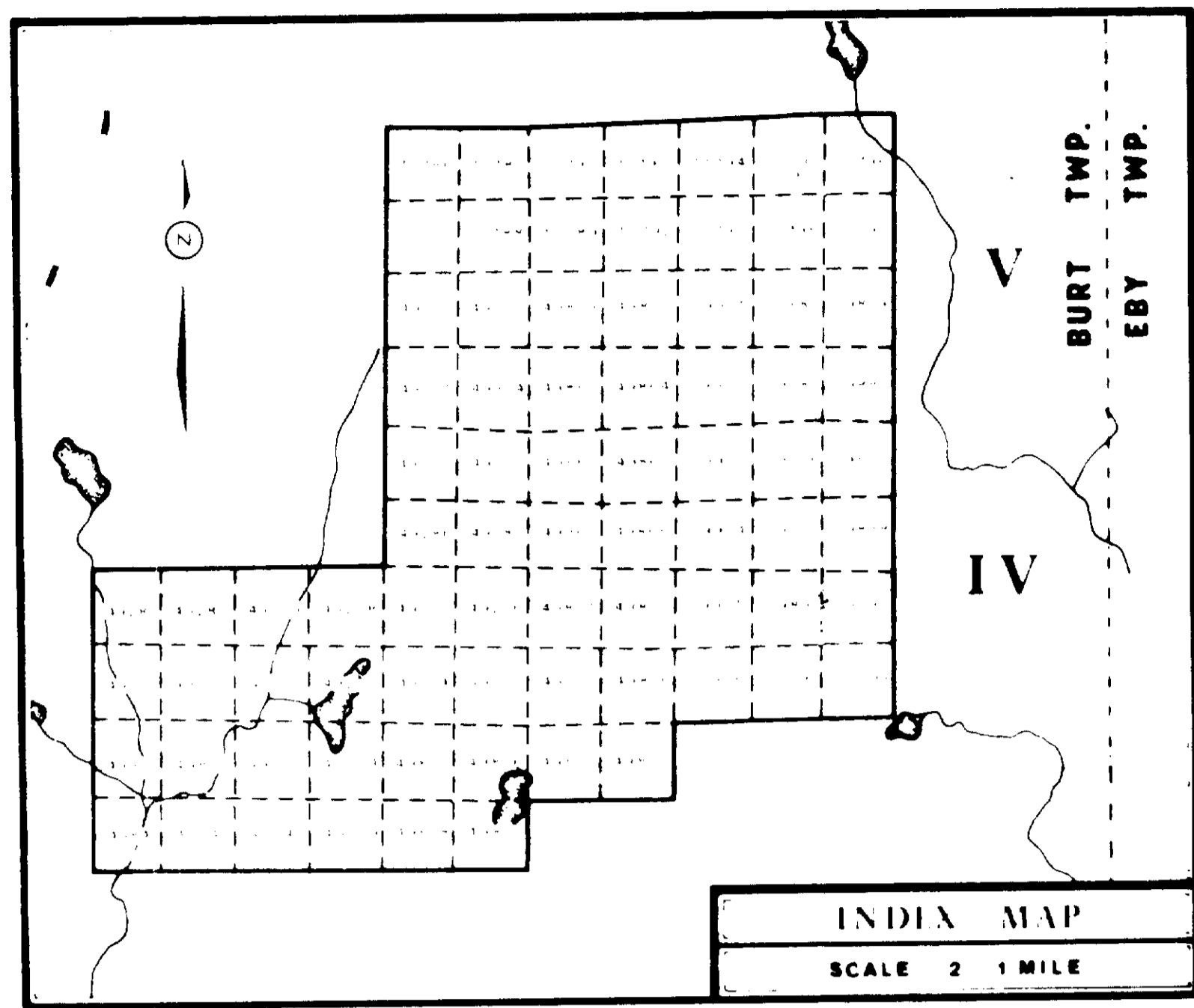
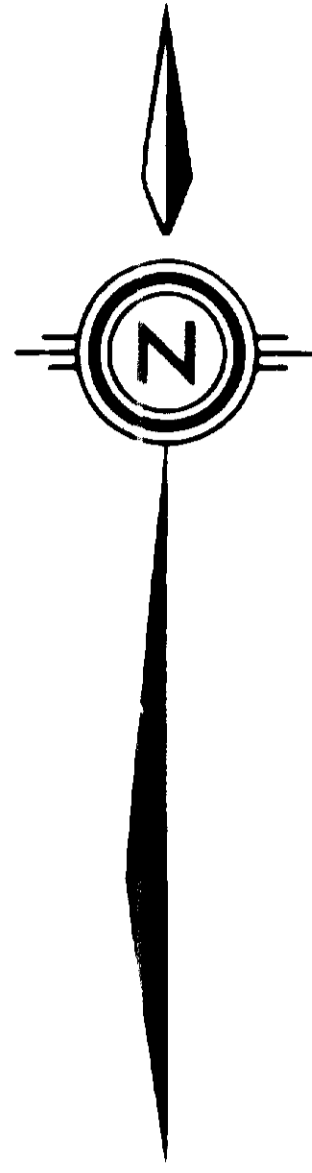
SC
SAM
CHEVRON

PROJECT

SURVEYED BY
DRAFTED BY



L 44 W L 43 W L 42 W L 41 W L 40 W L 39 W L 38 W L 37 W L 36 W L 35 W L 34 W L 33 W L 32 W L 31 W L 30 W L 29 W L 28 W L 27 W L 26 W L 25 W L 24 W L 23 W L 22 W L 21 W L 20 W L 19 W L 18 W L 17 W L 16 W L 15 W L 14 W L 13 W L 12 W L 11 W L 10 W L 9 W L 8 W L 7 W L 6 W L 5 W L 4 W

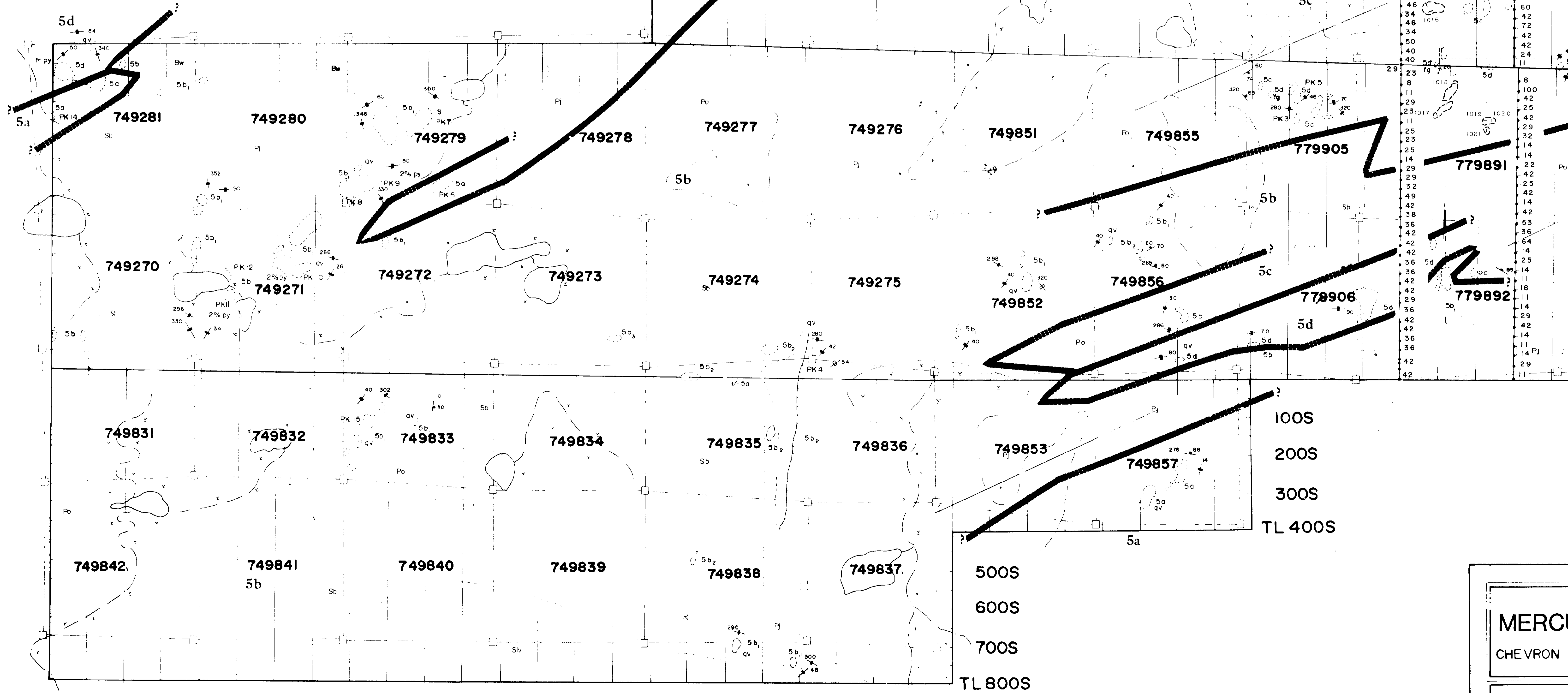


Legend

- ~HURONIAN
COBALT GROUP
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- White birch
- Black spruce

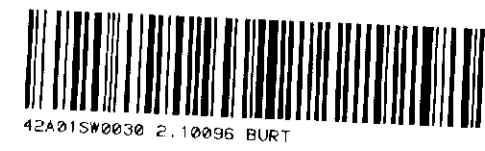
BURT TWP.



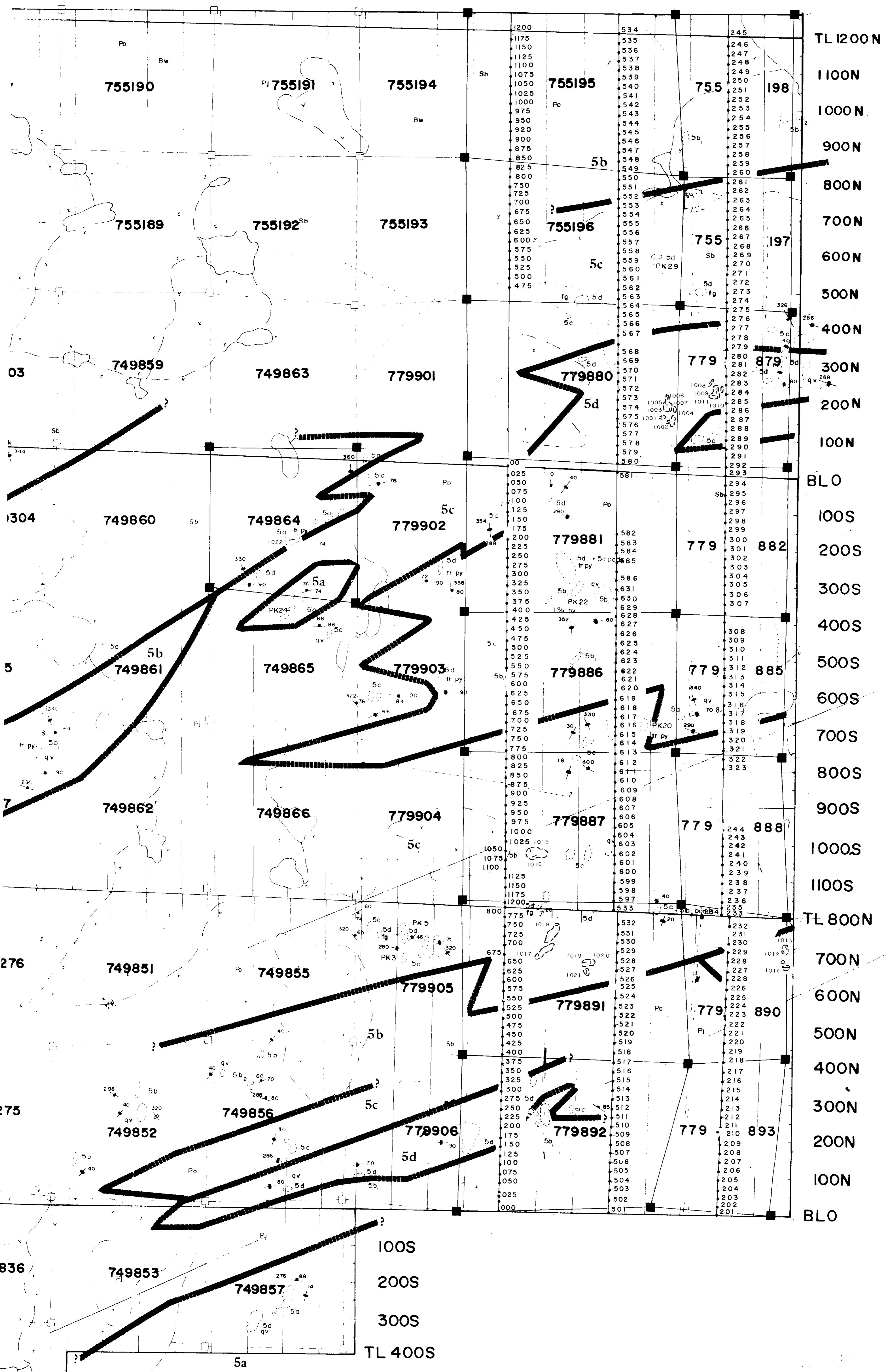
MERCUR
CHEVRON

PROJECT

SURVEYED BY
DRAFTED BY



L21 W L20 W L19 W L18 W L17 W L16 W L15 W L14 W L13 W L12 W L11 W L10 W L9 W L8 W L7 W L6 W L5 W L4 W L3 W L2 W L1 W L0



SOIL AND CHANNEL SAMPLING LOCATIONS
 CHEVRON CANADA RESOURCES LIMITED
 FIGURE #3

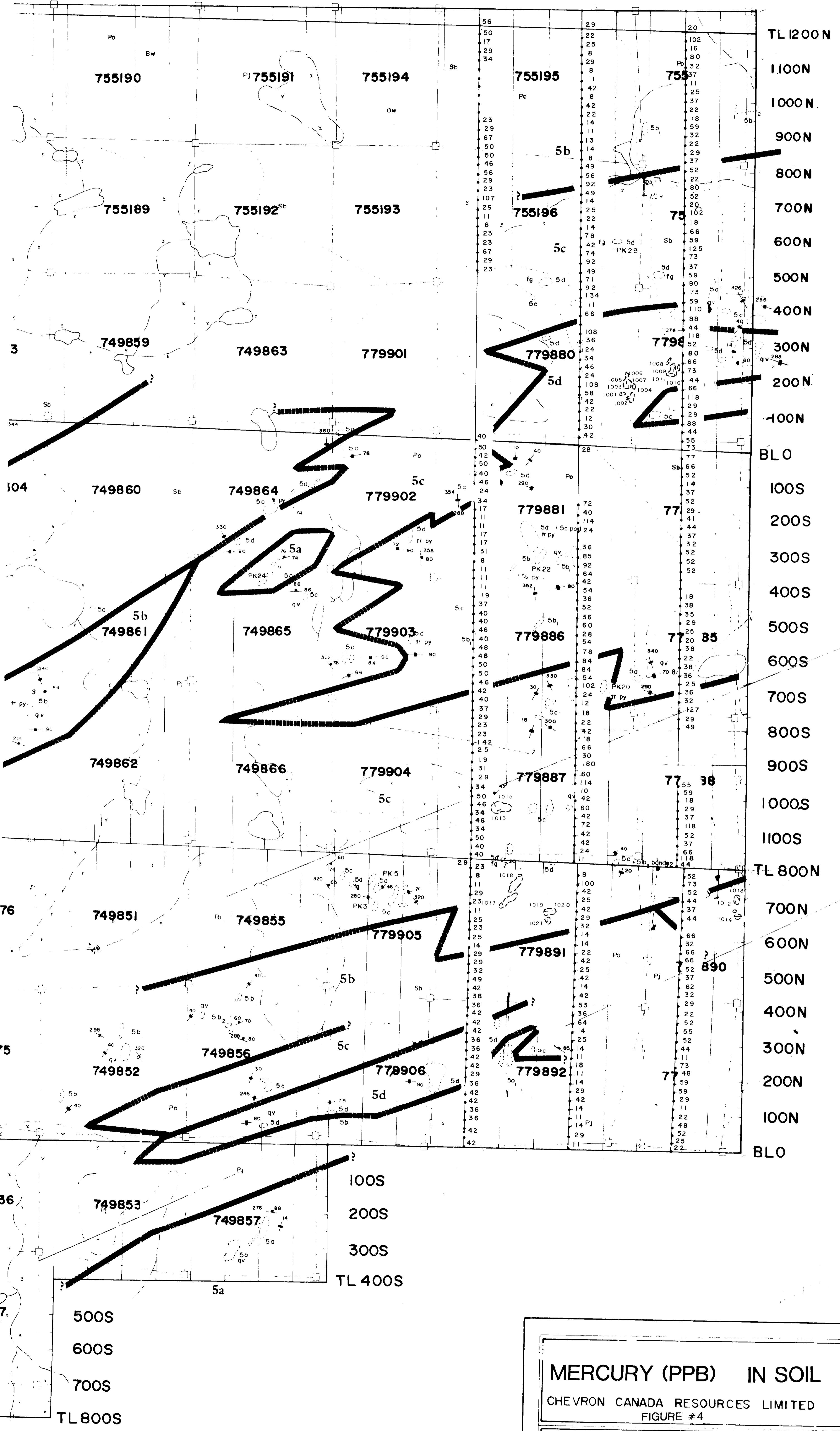
PROJECT KIRKLAND LAKE (MEUNIER)

SURVEYED BY C. P. DATE August 1986
 DRAFTED BY C. P. SCALE 1:5000

MEEGWICH SURVEYS REG'D

500S
 600S
 700S
 TL 800S

L21 W L20 W L19 W L18 W L17 W L16 W L15 W L14 W L13 W L12 W L11 W L10 W L9 W L8 W L7 W L6 W L5 W L4 W L3 W L2 W L1 W L0



MERCURY (PPB) IN SOIL	
CHEVRON CANADA RESOURCES LIMITED FIGURE #4	
PROJECT KIRKLAND LAKE (MEUNIER)	
SURVEYED BY C. P.	DATE August 1986
DRAFTED BY C. P.	SCALE 1:5000
MEEGWICH SURVEYS REG'D	