



42A05NE0107 2.7942 TURNBULL

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GEOLOGICAL AND GEOCHEMICAL SURVEYS

IN THE

FOUR CORNERS PROJECT

TURNBULL, GODFREY, CARSCALLEN AND BRISTOL TOWNSHIPS

N.T.S. 42A/5

RECEIVED

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MINING LANDS SECTION

BY

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February 28th, 1985



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INTRODUCTION

The following work describes results from a geological mapping and lithogeochemical program carried out over part of Chevron's property in the Four Corners Project. Field work was carried out from the 3rd to the 24th October, 1984.

Chevron Minerals Ltd holds a total of 135 contiguous claims in the area which are distributed as follows:

Turnbull Township	65 claims
Godfrey Township	11 claims
Bristol Township	12 claims
Carscallen Township	47 claims

The grid which was surveyed is centred upon the #1 post for claim 688903 and the base line extends NW and SE (Map 1) with tie lines at 800m north and south of the base line and with cross lines 100m apart. However, only those lines between L27+00W and Godfrey Creek were covered by the mapping, and lithogeochemical work.

Previous geological work by the Ontario Government in the area consists of Hawley, J.E., 1926, (Map 35g Townships of Carscallen, Bristol and Ogden) Hogg, N., 1955, (Geology of Godfrey Township, Annual Report 63) Middleton, R.S., 1976 (Map 2330 Turnbull and Godfrey Townships), and Middleton, R.S., 1975 (Open File Report 5118).

In addition to this work Mespi Mines Limited carried out detailed mapping over the northern part of the property which was submitted for assessment credits.

LOCATION

The property is just off set from the common corners of Turnbull, Godfrey, Bristol, and Carscallen Townships, some 12 miles west of Timmins. Access is by a newly constructed all weather main haul road

extending from Mallettes Lumber Mill on Highway 101, which follows the township line, and so transects the property.

PROPERTY

The location of all claims is given in Map. 2. Of these 135 claims only 36 claims were covered in whole or in part by the mapping and lithogeochemical program. These are:

641560 to 641565	6
661852 and 688893	2
688898 and 688899	2
688903 to 688905	3
688874 and 689132	2
700701 and 700702	2
757360 to 757366	7
757812 to 757817	6
757829	1
757867 and 757868	2
757874 and 757951	2
758297	1

36

SUMMARY OF EXPLORATION

The claims covered by this report are part of a much larger block held by CHEVRON MINERALS Ltd. The total block was flown by DIGHEM Limited for Chevron in two directions last summer measuring the magnetic and electromagnetic responses. This work has been submitted for assessment credits.

Subsequent to this survey part of a large grid in the western part of the claim block has been mapped geologically and described in this report. At the

same time rock samples were collected at regular intervals where possible and analysed for major and trace elements.

Targets selected from the airborne survey and geological/geochemical survey were surveyed initially with ground magnetometer and APEX Max Min. Subsequently these same anomalies were profiled using gravimetric techniques.

One of the gravity anomalies was later drill tested with two holes. Reports on the drilling will be submitted in due course.

GEOLOGY

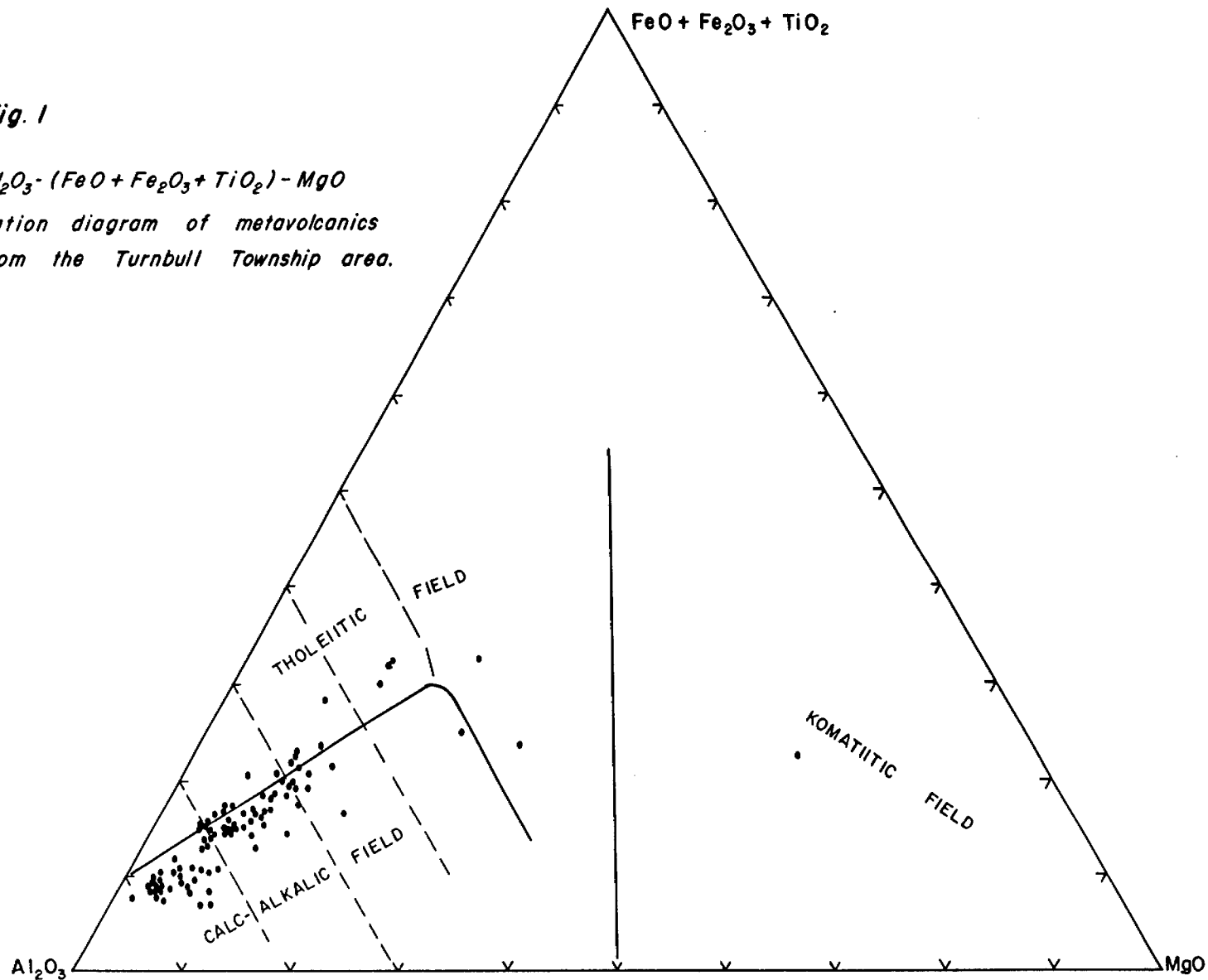
The area underlain by the main grid consists of a sequence of dominantly felsic and some minor intermediate metavolcanics (see Maps 3 and 4). This sequence has been intruded by a pluton of intermediate composition. In turn the above mentioned rocks have been intruded by two suites of diabase dykes. Because only a few discrepancies were noted compared to the work of Middleton (1975). The legend was taken from this aforementioned report.

1 MAFIC TO INTERMEDIATE METAVOLCANICS

These rocks are only tentatively recognized in the western part of the grid. They consist of fragmental and tuffaceous units intercalated with and dominated by felsic metavolcanics. Texturally these rocks are similar to the surrounding rocks but with a higher mafic mineral content. As such they differ from the mafic and intermediate metavolcanics described by Middleton (1975) as massive and resembling fine grained gabbroic rocks. In the $Al_2O_3 - (FeO + Fe_2O_3 + TiO_2) - MgO$ cation plot (fig.1) these rocks are shown to be of tholeiite andesitic composition but with a continuous range in composition to calc-alkalic

Fig. 1

$Al_2O_3 - (FeO + Fe_2O_3 + TiO_2) - MgO$
cation diagram of metavolcanics
from the Turnbull Township area.



rhyolite and dacite of the dominant felsic rocks in the area. Because of the textural similarity of the mafic rocks in the western part of the grid with the more dominant felsic rocks, and the textural differences compared to the mafic metavolcanics described by Middleton (1975), it is possible that the rocks classified here as mafic metavolcanics may in fact be chloritized felsic fragmental metavolcanics.

2 FELSIC METAVOLCANICS

These rocks have an off white to pale green colour and where strongly sericitized, a yellow tint. Typically the rocks are fine grained to aphanitic with textures varying from massive through foliated, layered, debris flows, to brecciated.

The brecciated portions are most distinctive and are largely confined to a zone trending 110° and transecting the main haul road. This zone is also the most strongly sericitized area. Locally the angular brecciation can be traced into well laminated felsic tuffs which appear to be water lain. This gradation was interpreted to signify that the brecciation was intraformational in origin.

Debris flows and other fragmental rocks are more abundant than the breccias mentioned above. Their distribution is mainly confined to the northwestern part of the grid and around the Zn showings. The fragments are rounded and range up to 10cm in size but typically much smaller, are felsic in composition and set in a chloritized matrix.

Layered felsic tuffs are principally located immediately north of the breccia zone but a minor occurrence was found in the northwestern extreme of the grid. The layering in these rocks is on a millimetre to centimetre scale. Commonly the tuff layers are separated by layers of recrystallized quartz up to

½ centimetre thick. This layering is usually parallel to folding but locally minor 'Z' folds were found.

Compositionally the $Al_2O_3 - (FeO + Fe_2O_3 + TiO_2) - MgO$ cation plot shows that these rocks are calc alkaline rhyolites and dacites. (fig.1)

7 INTERMEDIATE TO MAFIC INTRUSIVES

This unit is confined to the eastern part of the grid and was not recognized in the northwestern part as indicated by Middleton (1975). This discrepancy is easily explained, for as Middleton (op cit) noted the difficulty of distinguishing this unit from the felsic metavolcanics in the contact zone.

Perhaps the best distinguishing features are the usual massive nature, positively weathered rounded 1-2mm quartz grains in the intermediate-mafic intrusives. The weathered surface is suggestive of an extrusive rock but thin section work by Middleton (op cit) indicates that the rock is intrusive.

The cation plot (fig.2) shows that these rocks are compositionally very similar to the metavolcanics and have a large compositional range over short distances.

11 MAFIC INTRUSIVE ROCKS (Diabase Dykes)

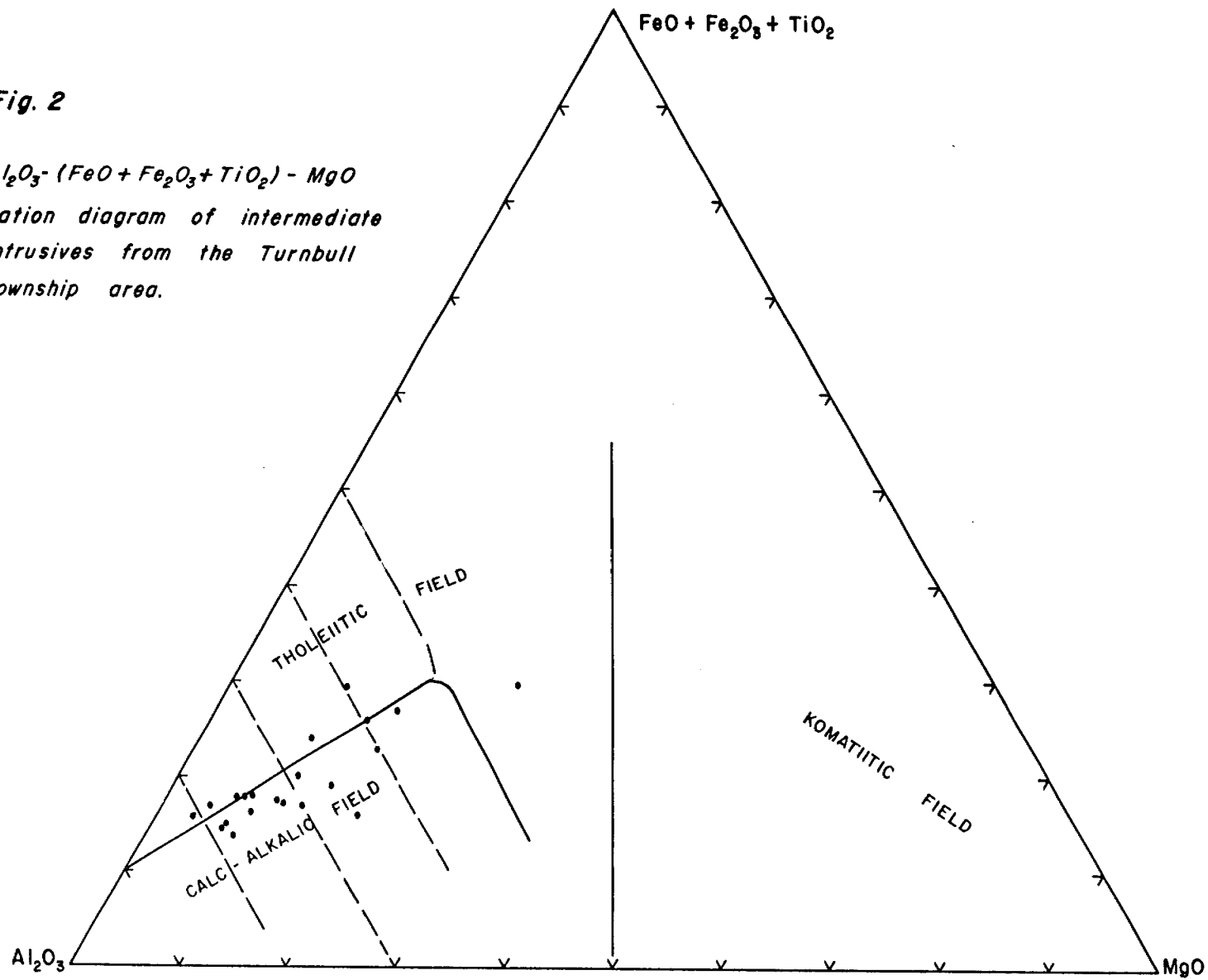
The grid is underlain by two diabase dyke systems, an earlier north-south suite and an apparently later northwest-southeast suite. Petrographically these rocks have been described by Middleton (1975), though this survey did identify additional dykes not noted by Middleton (1975).

ECONOMIC GEOLOGY

Three types of mineralization are known to occur in the area of the grid; 1) gold mineralization in quartz veins, 2) pyrite with minor chalcopyrite in

Fig. 2

*Al₂O₃ - (FeO + Fe₂O₃ + TiO₂) - MgO
cation diagram of intermediate
intrusives from the Turnbull
Township area.*



laminated felsic tuffs, and, 3) sphalerite in altered felsic fragmentals - debris flows.

GOLD

The only known gold showing is the Whippet showing, so named after the Whippet engine block at the showing, and is located on line 4W and 8+00N. This showing allegedly returned 1.00 oz/t over 18', however, values obtained by the author from chip sampling the showing are:

<u>SAMPLE</u>	<u>Au oz/t</u>	<u>DESCRIPTION</u>
FC55	.005	Muck pile NW side of shaft
FC56	.020	Muck pile NW side of shaft
FC57	.058	Quartz vein material in muck pile NW side of shaft
FC58	.016	Muck pile SE side of shaft
FC59	.009	Muck pile SE side of shaft
FC60	.093	Quartz vein material in muck pile SE side of shaft
FC61	.001	Trench approx. 10m NW of shaft
FC62	.037	Carbonate rich intrusive cutting felsic metavolcanics and quartz veins. Py filling in fractures and strong stain on weathered surface.
FC63	<.001	Trench approx 12m NW of shaft
FC64	<.001	Trench approx 13m NW of shaft

This showing is situated some 25m from a major north-south diabase dyke. As such this showing is similar to the setting of numerous other trenches in the area which exposed quartz veins close to diabase dykes. These other veins were not sampled.

COPPER

Two minor copper showings occur in the grid area. The first located on the base line and 2+00W was located and trenched prior to the mapping. The second showing is located on L18W and 4+00N.

The first showing consists of laminated felsic tuffs with some interlayered quartz seams. Mineralization consists of secondary pyrite and trace amounts of chalcopyrite in trails parallel to the laminations and also in late brittle fractures. Grab samples from the trenches indicate that the economic mineralization is insignificant.

<u>SAMPLE</u>	<u>Cu ppm</u>	<u>Zn ppm</u>
FC11	5	15
FC12	10	79
FC13	6	30

The second showing consists of minor visible pyrite in a porphyritic tuff with a small amount of malachite on the fresh surfaces. A grab sample returned higher values than the first showing but not really significant.

<u>SAMPLE</u>	<u>Cu ppm</u>	<u>Zn ppm</u>
FC46	280	16

ZINC

Two zinc showings occur in the grid area in close proximity to each other; 12+00W and Base line, and 14+00W and 1+00N. The host rock in each case is an altered felsic fragmental or debris flow. The first showing was blasted prior to the mapping and has sparsely and erratically disseminated sphalerite in the matrix. The second showing was found during the course of the mapping and has a lower sphalerite content but this has not been fully investigated or

trenched. Grab samples from the outcrop not the best mineralization returned:

<u>SAMPLE</u>	<u>Cu ppm</u>	<u>Zn ppm</u>	
FC33	16	7480	1st showing
FC42	3	16	2nd showing

LITHOGEOCHEMICAL SURVEY

A total of 125 lkg samples were collected from outcrops in the area of the main grid. These samples were analysed for selected trace elements and all major elements. The sample locations are summarized in Map 5 but detail locations are given in Maps 3 & 4. The raw data is listed in Appendix A.

COPPER

Several areas within the grid have samples with marginally anomalous and anomalous values of Cu (see Map 6). Those marginally anomalous areas with more than one data point are the breccia zone which transects the haul road, and some of the laminated water lain tuffs near a known copper showing.

Three areas are more significantly anomalous; the first is near the known Zn showings and the others occur to the north and northwest. These three areas are underlain by chloritized fragmental rocks.

ZINC

Only two areas have anomalous values of Zn in grab samples. The most prominent but smallest (Map 6) is located around the known sphalerite mineralization roughly coincident with the Cu anomaly in the same area. The second anomaly is to the north and again is roughly coincident with the Cu anomaly in that area.

POTASH/SODA

Two areas are anomalous in the ratioed K_2O/Na_2O (Map 10), one is again roughly coincident with the anomalous Cu, Zn values in the northwestern part of the grid in the chloritised fragmental rocks. The other and more intense anomaly coincides with the strongly sericitized breccias and water lain tuffs adjacent to the main haul road.

SILICA

Silica values in the analysed samples readily separates the intermediate intrusive rocks from the felsic metavolcanics (Map 11). Also the chloritized felsic fragmentals with Cu and Zn anomalies have marginally lower but consistent silica concentrates in the northwestern part of the grid.

MAGNESIUM/CALCIUM

Ratioed values of MgO/CaO again show that the chloritized areas in the northwestern part of the grid are highly anomalous, but the shape of the anomaly differs compared to that obtained from the Cu and Zn value (Map 12). In the case of the anomaly over the known Zn showing the anomaly is much larger than suggested by the base metal values. In the case of the most northernly anomaly the MgO/CaO anomaly is discordant to the base metal anomaly. However this discordant trend does link up the areas of mineralization drill tested by Conwest to the west and Mespil Mines to the east.

MAGNESIUM PLUS IRON/CALCIUM

These $(MgO + Fe_2O_3)/CaO$ ratioed values (Map 13) show a similar pattern to the MgO/CaO pattern with a discordant though not as clearly defined trend.

RESULTS AND CONCLUSIONS

This survey indicates that an area in the northwestern part of the grid is anomalous based on several parameters. This anomaly is roughly coincident with chloritized felsic fragmental rocks and as such suggests that this area may be close to some ancient altered volcanic vent. However, the lack of any geophysical anomaly in the airborne work done for Chevron by Dighem in the summer of 1984, downplays the possibility that this altered volcanic vent may be associated with any economic mineralization. The lack of any outcrops near the airborne anomalies apparently drill tested by Conwest and Mespi Mines Ltd east and west of this geochemical anomaly precludes any direct comparison.

CLAY FRACTION GEOCHEMICAL WORK

A total of 40 soil samples were collected from the B horizon along the main haul road with an auger. These samples were then prepared to separate the clay fraction. This was done by mixing the samples in water with some calgon to aid disaggregation of the samples, after a period of time the supernatant liquid was passed through filters in order to remove the clay size particles. This clay size fraction was then dried and analysed in two ways. Firstly, using a hot aqua-regia extraction to measure 'total' metal content. Secondly, using a sodium dithionate in citrate buffer to extract only adsorbed ions on the clay particles. Because of the complicated sample preparation, sufficient material for analytical work could not always be obtained.

Locations of the samples are given on Map 14 and the analytical results are listed in Appendix A. In brief the results of this work did not reveal the existence of the anomaly.

REFERENCES

Middleton, R.S. (1975) Magnetic Survey, Geology and Petrochemistry of Turnbull and Godfrey Township, Ontario. Department of Mines, Open File Report 5118.

CERTIFICATION

I, Stewart Fumerton of Timmins, Ontario certify that:

- 1) I am a member in good standing of the Geological Association of Canada (FGAC).

- 2) I am a geology graduate of the University of Witwatersrand with a BSc (1972), BSc Hons (1973) and MSc (1975). I am also a geology graduate of the University of Saskatchewan with a PhD (1979).

- 3) I have been practising my profession in Canada and South Africa continuously since 1973.

- 4) The attached report is a product of:
 - a) Data listed in the references.
 - b) Assessment work files - Ministry of Natural Resources, Timmins.
 - c) My work together with colleagues in the area.

Timmins, Ontario
February 1985



Stewart Fumerton

APPENDIX A

ANALYTICAL DATA

REPORT: 014-3353

FROM: CHEVRON CANADA RESOURCES LIMITED
 DATE: 26-NOV-84 PROJECT:

SUBMITTED BY: S.L. FURBERTON

ORDER	ELEMENT	LOWER DETECTION LIMIT	EXTRACTION	METHOD	SIZE FRACTION	SAMPLE TYPE	SAMPLE PREPARATION
01	SiO2	.01 PCT	Borate Fusion	DC Plasma	-200	ROCKS	CRUSH, PULVERIZE -200
02	TiO2	.01 PCT	Borate Fusion	DC Plasma	-200		
03	Al2O3	.01 PCT	Borate Fusion	DC Plasma	-200		
04	Fe2O3*	.01 PCT	Borate Fusion	DC Plasma	-200		
05	MnO	.01 PCT	Borate Fusion	DC Plasma	-200		
06	AgO	.01 PCT	Borate Fusion	DC Plasma	-200		
07	CaO	.01 PCT	Borate Fusion	DC Plasma	-200		
08	Na2O	.01 PCT	Borate Fusion	DC Plasma	-200		
09	K2O	.01 PCT	Borate Fusion	DC Plasma	-200		
10	P2O5	.01 PCT	Borate Fusion	DC Plasma	-200		
11	LOI	.01 PCT	Borate Fusion	Gravimetric	-200		
12	TOTAL	.01 PCT			-200		

REPORT COPIES TO: S.L. FURBERTON

INVOICE TO: S.L. FURBERTON

REMARKS: SAMPLE WFC-118 AS RECEIVED AS AN EMPTY BAG. ANOTHER BAG WAS RECEIVED WITH NO NUMBER IT HAS BEEN ASSIGNED "FC-118" BY BCC. SAMPLES FC-4 AND FC-15 WERE LISTED AS "MISSING" BUT WERE RECEIVED. TWO BAGS WITH THE IDENTIFIER FC-151 WERE RECEIVED THEY HAVE BEEN ASSIGNED A AND B DESIGNATIONS BY BCC.
 < MEANS LESS THAN



REPORT: 014-3353

PROJECT:

PAGE 1

SAMPLE NUMBER	ELEMENT UNITS	SiO2 PCT	TiO2 PCT	Al2O3 PCT	Fe2O3* PCT	MnO PCT	MgO PCT	CaO PCT	Na2O PCT	K2O PCT	P2O5 PCT	LOI PCT	TOTAL PCT	NOTES Mg/si
FC-1		71.80	0.21	12.30	3.02	0.04	1.33	1.23	4.80	1.14	<0.01	2.75	98.61	
FC-2		40.01	1.02	14.70	11.30	0.19	7.42	8.51	0.13	3.48	0.04	14.95	101.74	
FC-3		71.00	0.44	13.10	4.16	0.03	1.21	0.69	3.80	1.41	0.08	1.75	97.67	
FC-4		59.80	0.88	13.60	7.55	0.12	3.07	4.46	4.52	0.46	0.15	5.15	99.76	
FC-5		76.20	0.16	10.30	3.92	0.04	0.89	1.25	4.02	0.68	0.09	2.05	99.60	.012
FC-6		71.10	0.43	12.90	4.04	0.10	0.60	1.47	4.18	2.07	0.08	3.00	99.97	
FC-7		72.60	0.39	11.60	3.96	0.05	0.78	1.05	4.15	0.97	0.13	1.40	97.08	
FC-8		59.90	0.98	13.90	10.10	0.11	3.30	2.99	4.62	0.37	0.27	3.25	99.79	
FC-9		73.80	0.27	11.16	4.08	0.05	1.70	0.88	1.85	1.85	<0.01	3.50	99.14	
FC-10		73.60	0.11	11.38	2.08	0.09	0.71	1.63	0.92	6.52	0.20	2.70	99.94	
FC-11		73.20	0.09	10.00	1.89	0.05	0.82	2.68	1.06	4.89	0.04	2.75	97.46	
FC-12		75.47	0.10	12.30	2.56	0.03	0.42	0.61	1.08	6.74	0.41	1.35	101.07	.006
FC-13		77.20	0.09	11.40	1.64	0.02	0.39	0.45	1.49	6.85	0.03	0.80	100.36	.005
FC-14		72.00	0.20	11.90	3.48	0.09	0.95	1.00	1.58	4.13	0.01	4.20	99.54	
FC-15		77.20	0.09	10.20	1.79	0.04	0.54	0.32	0.54	5.02	<0.01	1.85	97.59	.007
FC-16		77.90	0.10	11.70	1.38	0.02	0.40	0.58	2.37	5.52	<0.01	0.85	100.81	.003
FC-17		78.80	0.09	11.30	1.74	0.02	0.58	0.24	1.57	5.72	<0.01	1.00	101.06	.002
FC-18		76.90	0.10	11.80	2.19	0.05	0.48	0.33	2.01	3.57	<0.01	0.90	98.33	.006
FC-19		75.10	0.10	12.76	1.43	0.03	0.20	0.02	2.08	6.38	0.15	0.40	98.65	.003
FC-20		70.27	0.52	13.90	3.50	0.04	0.96	1.50	6.41	0.57	<0.01	1.90	99.57	
FC-21		68.10	0.46	13.00	3.56	0.05	0.59	1.87	3.94	2.29	0.07	3.10	97.02	
FC-22		76.67	0.13	12.36	1.80	0.04	0.31	0.48	3.10	3.76	0.38	1.30	100.33	.004
FC-23		72.40	0.22	12.80	3.27	0.03	0.78	0.68	2.97	2.74	0.08	1.85	97.81	
FC-24		77.00	0.09	10.40	1.61	0.03	0.33	0.22	2.23	4.76	<0.01	3.75	100.42	.004
FC-25		77.80	0.10	11.52	1.70	0.05	0.65	1.08	2.22	3.60	0.44	1.80	100.96	.008
FC-26		77.20	0.10	12.20	1.69	0.02	0.78	0.48	1.40	4.50	<0.01	1.90	100.26	.010
FC-27		75.27	0.08	11.50	2.10	0.05	0.44	0.91	1.89	5.21	<0.01	2.40	99.84	.006
FC-28		69.39	0.54	12.40	4.72	0.14	1.51	1.17	1.78	3.34	0.10	4.40	99.48	
FC-29		78.03	0.22	10.70	2.33	0.05	0.55	0.31	2.17	3.48	0.17	1.75	99.77	.007
FC-30		77.50	0.11	11.28	1.68	0.02	0.33	0.25	2.52	3.56	0.05	0.85	98.14	.004
FC-31		75.80	0.11	12.14	1.70	0.05	0.26	0.26	3.84	3.22	0.47	0.65	98.50	.003
FC-32		76.00	0.11	11.30	1.78	0.04	0.60	0.46	3.46	3.27	0.02	1.25	98.29	.008
FC-33		65.90	0.25	13.60	7.12	0.10	1.50	0.18	3.67	3.41	0.16	2.25	98.13	
FC-34		71.70	0.27	14.40	3.79	0.03	0.85	0.20	3.17	3.85	0.18	1.80	100.24	
FC-35		72.20	0.19	11.70	3.25	0.07	0.61	1.15	4.47	1.75	<0.01	2.25	97.65	
FC-36		72.60	0.25	13.56	4.04	0.06	1.01	1.29	1.55	3.50	0.18	2.80	100.84	
FC-37		70.50	0.25	12.80	5.16	0.05	1.78	0.32	2.09	3.05	0.05	2.75	99.80	
FC-38		64.20	0.58	13.09	5.62	0.08	1.29	2.15	3.28	2.77	0.08	4.00	97.15	
FC-39		67.84	0.64	13.60	5.66	0.06	1.65	1.93	5.23	1.56	0.10	3.15	101.42	
FC-40		68.33	0.74	13.60	6.12	0.07	1.48	1.48	4.61	2.23	0.18	2.50	101.34	

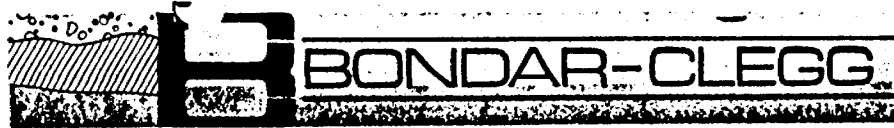


REPORT: 014-3353

PROJECT:

PAGE 2

SAMPLE NUMBER	ELEMENT UNITS	B SiO2 PCT	C TiO2 PCT	D Al2O3 PCT	E Fe2O3* PCT	F MnO PCT	G MgO PCT	H CaO PCT	I Na2O PCT	J K2O PCT	K P2O5 PCT	L LOI PCT	TOTAL PCT	NOTES
FC-41		71.10	0.25	11.90	5.16	0.07	1.55	1.03	2.17	2.28	<0.01	2.85	98.36	0.11
FC-42		76.05	0.17	11.70	2.05	0.01	0.84	<0.01	4.40	1.24	0.02	1.50	97.99	
FC-43		74.10	0.22	12.70	3.98	0.03	0.86	0.63	4.65	1.44	0.11	1.85	100.57	
FC-44		74.54	0.19	11.40	3.20	0.06	0.82	0.49	3.23	2.33	0.08	2.20	98.54	
FC-45		71.83	0.22	12.46	3.50	0.04	0.89	0.24	5.10	1.56	0.02	1.40	97.27	
FC-46		73.71	0.19	11.93	3.20	0.05	0.89	0.68	2.99	2.29	0.21	1.75	97.89	
FC-47		73.30	0.21	11.90	4.21	0.06	0.83	1.25	3.51	3.38	0.11	2.10	100.86	
FC-48		68.75	0.23	13.48	4.69	0.05	1.20	0.07	4.12	2.71	0.14	1.95	97.40	
FC-49		65.19	0.67	13.60	6.08	0.18	1.85	2.95	3.78	2.36	0.10	4.15	100.92	
FC-50		70.15	0.25	14.40	5.09	0.03	1.45	0.09	4.70	2.13	<0.01	1.80	100.09	
FC-51		71.20	0.20	12.48	3.96	0.06	0.64	1.02	4.22	2.12	0.15	2.15	98.20	
FC-52		75.11	0.17	11.70	3.46	0.02	0.98	0.03	4.98	1.23	<0.01	1.15	98.83	0.12
FC-53		70.60	0.21	13.20	3.70	0.02	1.31	<0.01	4.62	1.43	0.27	1.65	97.01	
FC-54		64.54	0.63	13.50	5.61	0.17	1.94	2.93	4.30	1.79	<0.01	3.85	99.26	
FC-64		72.79	0.21	13.30	4.08	0.08	1.85	0.04	5.42	1.19	<0.01	1.40	100.35	
FC-65		72.00	0.21	13.00	4.37	0.07	1.01	0.44	5.57	1.26	<0.01	1.35	99.27	
FC-66		70.20	0.21	12.50	5.03	0.05	1.18	0.50	4.98	1.17	<0.01	1.80	97.62	
FC-67		75.60	0.09	13.78	1.68	0.03	0.59	0.45	4.20	3.38	0.22	1.35	101.37	
FC-68		72.00	0.23	14.10	4.96	0.03	0.77	0.58	3.42	2.84	<0.01	1.90	100.83	
FC-69		74.20	0.30	12.20	3.64	0.02	1.30	0.64	5.17	0.97	0.02	1.80	100.26	
FC-70		62.74	0.96	12.80	8.67	0.11	1.56	2.67	4.97	0.71	0.16	3.45	98.80	
FC-72		55.07	0.16	10.44	10.34	0.33	2.05	5.73	1.69	2.27	<0.01	9.25	97.38	
FC-73		40.60	0.73	15.20	11.50	0.32	5.54	10.50	1.81	0.57	0.03	14.80	101.60	
FC-74		34.60	0.75	7.93	8.42	0.35	2.98	21.75	1.33	0.87	0.17	22.80	101.95	
FC-75		33.90	0.17	4.60	7.67	0.66	9.17	17.70	0.04	1.01	0.08	24.90	99.90	
FC-76		67.20	0.19	11.00	9.64	0.22	2.11	2.12	3.67	0.86	<0.01	4.35	101.35	
FC-101		67.00	0.72	14.64	6.12	0.06	1.84	1.23	4.56	1.28	0.15	2.70	100.30	
FC-103		63.90	0.96	12.20	8.92	0.09	1.81	2.52	3.93	0.37	0.28	4.25	99.22	
FC-104		62.30	0.99	14.40	9.30	0.15	2.86	1.76	5.20	0.28	0.12	4.15	101.51	
FC-105		60.80	0.85	12.30	6.26	0.08	1.60	6.30	5.06	0.34	0.30	5.80	99.77	
FC-106		72.60	0.54	13.90	3.63	0.03	1.04	1.49	5.61	0.49	0.17	2.10	101.60	
FC-107		62.60	0.66	15.50	6.56	0.12	2.78	6.06	4.53	0.96	0.14	1.30	101.21	
FC-108		75.30	0.27	11.80	4.21	0.06	0.91	0.75	4.99	0.62	0.13	1.60	100.64	0.12
FC-109		78.04	0.09	11.64	1.61	0.05	0.37	0.56	2.40	4.80	<0.01	1.75	101.31	0.05
FC-110		78.22	0.10	11.64	2.01	0.02	0.33	0.12	2.74	4.30	<0.01	1.00	100.48	0.05
FC-112		76.20	0.11	12.74	1.83	0.01	0.37	<0.01	2.84	4.30	0.02	1.00	99.42	0.05
FC-114		49.00	1.06	15.36	16.34	0.16	7.37	1.77	2.66	0.71	0.13	5.60	100.16	
FC-115		68.20	0.42	12.70	4.45	0.07	1.39	1.45	4.94	0.93	0.10	3.00	97.65	
FC-116		74.10	0.25	13.30	3.98	0.08	0.67	1.27	1.95	3.66	0.10	2.65	102.00	
FC-117		67.00	0.79	14.50	6.46	0.08	1.73	1.68	2.91	2.94	0.14	3.60	101.83	

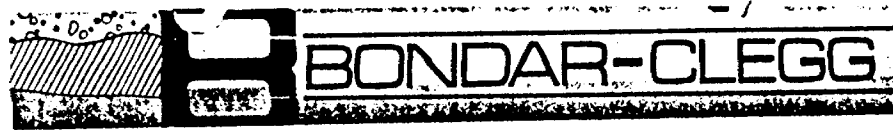


REPORT: 014-3353

PROJECT:

PAGE 3

SAMPLE NUMBER	ELEMENT UNITS	SiO2 PCT	TiO2 PCT	Al2O3 PCT	Fe2O3* PCT	MnO PCT	AgO PCT	CaO PCT	Na2O PCT	K2O PCT	P2O5 PCT	LOI PCT	TOTAL PCT	NOTES
FC-118		62.30	0.97	13.50	8.31	0.11	3.92	1.71	4.80	0.14	0.15	2.70	98.61	.01
FC-119		77.00	0.21	11.92	4.82	0.04	1.25	0.12	2.46	1.77	0.66	1.65	101.30	.016
FC-120		76.20	0.10	12.70	1.79	0.03	0.55	0.14	1.85	4.20	0.46	1.40	99.42	.007
FC-121		75.10	0.46	10.80	5.51	0.03	1.21	0.02	3.56	1.23	0.04	1.70	99.72	.016
FC-122		73.52	0.11	12.49	1.58	0.02	0.37	0.04	1.39	7.75	0.11	0.70	98.09	
FC-123		70.65	0.22	13.78	4.06	0.06	1.08	0.21	4.10	3.28	0.07	1.75	99.26	
FC-124		73.20	0.18	12.65	3.49	0.02	0.53	<0.01	4.28	1.77	<0.01	1.80	97.92	
FC-125		75.26	0.21	12.44	4.00	0.02	1.16	<0.01	3.98	1.37	<0.01	1.40	99.84	.015
FC-126		75.70	0.22	13.60	3.39	0.04	0.73	0.14	4.28	2.03	0.05	1.40	101.58	.010
FC-127		73.90	0.21	11.30	3.79	0.04	1.07	0.47	3.62	2.39	0.17	1.75	98.71	
FC-128		66.80	0.70	14.36	5.88	0.11	1.52	2.38	4.12	2.30	0.12	3.30	101.59	
FC-129		71.37	0.20	13.38	4.62	0.09	0.78	1.27	2.60	2.96	0.12	2.30	99.69	
FC-130		75.60	0.19	12.70	3.65	0.03	0.90	0.65	4.48	2.65	<0.01	1.00	101.84	.012
FC-131		76.80	0.18	12.20	3.00	0.03	0.69	0.88	4.68	1.63	<0.01	1.85	101.94	.010
FC-132		71.10	0.21	12.20	4.78	0.05	2.49	0.07	2.38	3.10	0.07	2.15	98.60	
FC-133		75.80	0.19	10.10	4.33	0.04	0.67	0.33	3.16	1.66	<0.01	1.15	97.43	.009
FC-134		79.29	0.17	11.36	1.46	<0.01	0.41	<0.01	2.72	2.38	0.20	1.00	98.99	.005
FC-135		76.09	0.20	12.30	3.55	0.05	0.52	0.16	5.11	2.16	<0.01	0.85	101.00	.007
FC-136		65.00	0.74	13.00	6.85	0.13	1.84	1.49	2.23	3.49	0.01	2.35	97.12	
FC-137		74.40	0.08	12.90	1.47	0.02	1.13	<0.01	5.34	1.35	0.04	1.05	97.78	
FC-138		72.43	0.26	13.50	6.01	0.06	1.58	0.33	3.11	2.25	0.04	2.05	101.62	
FC-139		73.58	0.24	13.30	4.04	0.06	0.82	1.31	2.62	3.62	0.21	2.05	101.84	
FC-140		69.00	0.44	13.60	3.20	0.04	1.10	2.04	5.44	1.11	<0.01	2.35	98.32	
FC-141		69.80	0.38	12.20	4.37	0.04	1.48	1.77	4.15	1.05	<0.01	2.90	98.14	
FC-142		79.82	0.17	10.70	3.31	0.06	1.04	0.01	5.02	0.24	<0.01	0.80	101.17	.013
FC-143		64.00	0.71	13.30	6.30	0.20	2.20	2.10	1.80	3.75	0.04	3.50	97.89	
FC-144		74.08	0.20	11.20	3.99	0.03	1.24	0.12	4.71	0.67	<0.01	1.05	97.29	
FC-145		74.10	0.24	12.91	5.14	0.05	1.34	0.08	5.42	1.19	0.14	1.30	101.91	
FC-146		58.00	1.25	12.81	11.20	0.17	2.54	5.02	2.10	2.86	0.21	5.80	101.96	
FC-147		74.70	0.11	13.98	2.07	0.04	1.14	0.08	2.10	6.09	0.12	1.30	101.72	
FC-148		70.80	0.21	12.50	3.63	0.07	0.59	1.31	4.43	2.24	0.07	1.70	97.55	
FC-149		72.90	0.09	14.07	1.56	0.02	1.12	<0.01	2.30	4.74	<0.01	1.15	97.95	
FC-150		69.45	0.20	13.59	3.66	0.05	0.59	1.33	4.24	2.08	0.05	2.05	97.29	
FC-150A		60.21	1.03	14.50	8.92	0.06	2.48	3.80	4.75	0.68	0.35	4.25	101.03	
FC-151A		71.00	0.24	13.00	3.62	0.09	0.52	1.17	4.25	3.12	0.04	2.15	99.20	
FC-151B		58.60	0.96	12.70	9.98	0.09	2.57	3.35	3.80	0.58	0.23	5.50	98.36	
FC-152		78.60	0.12	12.10	2.03	0.03	0.58	0.32	2.57	3.59	<0.01	1.60	101.54	.007
FC-153		79.30	0.27	10.90	2.99	0.03	0.35	0.37	5.27	0.50	0.04	0.95	100.97	.004
FC-154		77.60	0.09	10.90	1.15	0.02	0.18	0.09	4.39	2.84	<0.01	0.55	97.82	.002
FC-155		77.60	0.08	10.90	1.39	0.03	0.30	0.35	3.12	4.82	0.04	0.70	99.33	.004

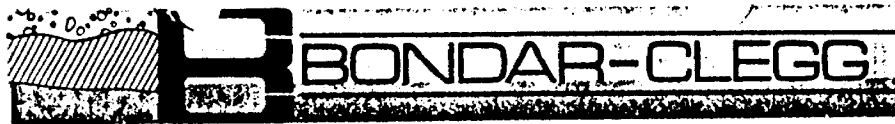


REPORT: 014-3353

PROJECT:

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SAMPLE NUMBER	ELEMENT UNITS	SiO2 PCT	TiO2 PCT	Al2O3 PCT	Fe2O3* PCT	MnO PCT	MgO PCT	CaO PCT	Na2O PCT	K2O PCT	P2O5 PCT	LOI PCT	TOTAL PCT	NOTES mg/sic
FC-156		76.38	0.99	11.68	1.22	0.01	0.12	0.03	3.66	3.10	<0.01	0.75	97.05	.002
FC-161		53.60	0.76	14.60	8.44	0.22	5.58	9.90	4.32	0.08	<0.01	3.15	100.65	.006
FC-162		77.25	0.10	11.74	1.74	0.04	0.44	0.40	1.75	4.20	0.06	1.70	99.42	
FC-163		55.60	0.37	14.12	5.18	0.11	3.16	7.54	5.56	0.07	0.10	7.75	99.56	
FC-164		70.60	0.23	18.22	1.81	0.02	0.13	0.50	6.56	1.39	0.17	1.65	101.29	



REPORT: 014-3006

FROM: CHEVRON CANADA RESOURCES LIMITED
DATE: 29-OCT-84 PROJECT:

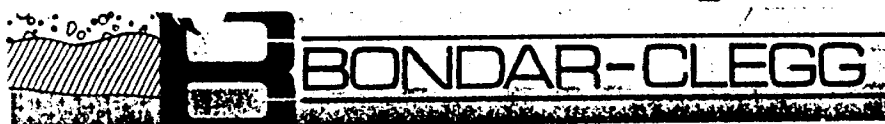
SUBMITTED BY: S.L.FURERTON

ORDER	ELEMENT	LOWER DETECTION LIMIT	EXTRACTION	METHOD	SIZE FRACTION	SAMPLE TYPE	SAMPLE PREPARATION
01	Cu	1 PPM	HNO3-HCL HOT EXTR	Atomic Absorption		ROCKS	AS RECEIVED, NO SP
02	Zn	1 PPM	HNO3-HCL HOT EXTR	Atomic Absorption			
03	Mn	1 PPM	HNO3-HCL HOT EXTR	Atomic Absorption			
04	Ag	.1 PPM	HNO3-HCL HOT EXTR	Atomic Absorption			
05	Fe	.001 PCT	MULT ACID TOT DIG	DC Plasma			
06	Li	1 PPM	MULT ACID TOT DIG	DC Plasma			
07	Ba	1 PPM	MULT ACID TOT DIG	DC Plasma			
08	Al	.001 PCT	MULT ACID TOT DIG	DC Plasma			
09	Hg	.001 PCT	MULT ACID TOT DIG	DC Plasma			
10	Ca	.001 PCT	MULT ACID TOT DIG	DC Plasma			
11	Na	.001 PCT	MULT ACID TOT DIG	DC Plasma			
12	K	.001 PCT	MULT ACID TOT DIG	DC Plasma			

REPORT COPIES TO: 1678 WILSON AVE.

INVOICE TO: 1678 WILSON AVE.

REMARKS: < MEANS LESS THAN

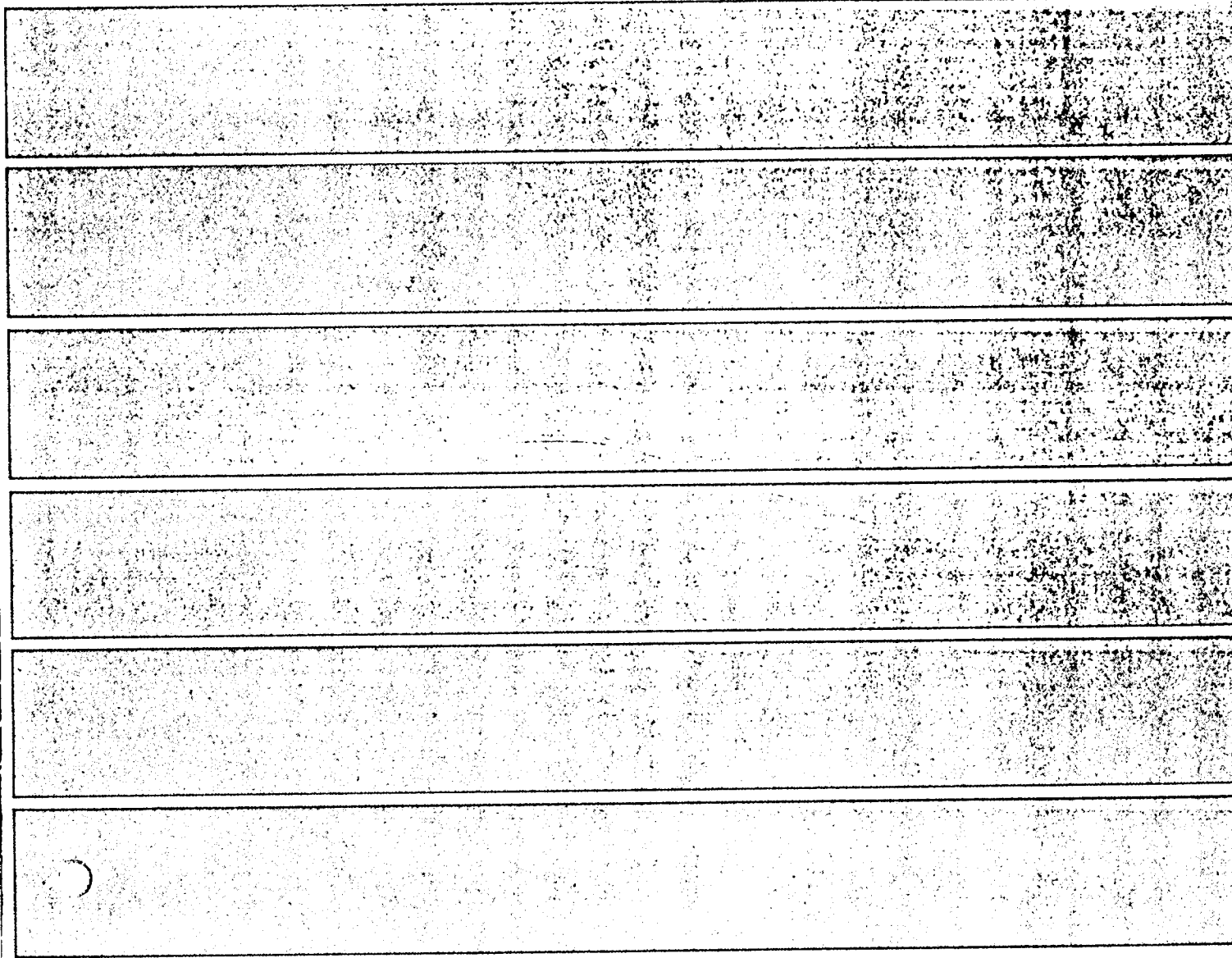


REPORT: 014-3006

PROJECT:

PAGE 1

SAMPLE NUMBER	ELEMENT UNITS	Cu PPM	Zn PPM	Mo PPM	Ag PPM	Fe PCT	Li PPM	Ba PPM	Al PCT	Mg PCT	Ca PCT	Na PCT	K PCT	NOTES
FL-55		19	79	6	<0.1	3.020	1	462	5.950	0.660	2.930	1.870	1.820	
FL-56		5	20	5	<0.1	2.550	2	433	4.670	0.510	1.840	1.910	2.020	
FL-57		6	18	27	<0.1	2.420	1	99	2.050	0.370	2.030	0.890	0.380	
FL-58		6	26	3	0.1	3.320	1	486	5.980	0.730	2.530	2.120	1.850	
FL-59		5	14	4	0.1	1.730	1	163	2.340	0.270	1.000	0.640	0.550	
FL-60		9	25	26	0.5	3.690	<1	191	3.410	0.800	3.430	1.480	0.690	
FL-61		3	16	3	<0.1	2.320	1	398	5.880	0.400	1.670	3.100	1.650	
FL-62		18	86	4	0.1	10.000	8	583	7.330	2.290	6.920	0.470	2.680	
FL-63		5	18	2	<0.1	2.200	1	353	5.850	0.470	1.800	3.230	1.880	
FL-64		4	18	3	<0.1	2.390	1	378	2.140	0.540	2.140	3.110	1.840	



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of Analys

REPORT: 414-3006

FROM: CHEVRON CANADA RESOURCES LIMITED
DATE: 22-OCT-84 PROJECT:

SUBMITTED BY: S.L. FUMERTON

ORDER	ELEMENT	LOWER DETECTION LIMIT	EXTRACTION	METHOD	SIZE FRACTION	SAMPLE TYPE	SAMPLE PREPARAT
01	Au	.001	D/T			ROCKS	Sample Preparation

REPORT COPIES TO: 1678 WILSON AVE.

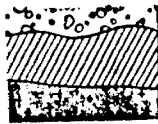
INVOICE TO: 1678 WILSON AVE.

REMARKS: < MEANS LESS THAN

[The remainder of this section is heavily obscured by noise and grain, making the text illegible.]

Peter Paulson

Bondar-Clegg & Company Ltd.
764 Belfast Road
Ottawa, Ontario
Canada K1G 0Z5
(613) 237-3110
053-4455



BONDAR-CLEGG

Geochemical
Lab Report

REPORT: 114-3353

FROM: CHEVRON CANADA RESOURCES LIMITED
DATE: 04-JAN-85 PROJECT:

SUBMITTED BY: S.L. FUNERTON

ORDER	ELEMENT	LOWER DETECTION LIMIT	EXTRACTION	METHOD	SIZE FRACTION	SAMPLE TYPE	SAMPLE PREPARATION
01	Cu	1 PPM	HNO3-HCL HOT EXTR	Atomic Absorption	-200	PREPARED PULP	AS RECEIVED, NO SP
02	Zn	1 PPM	HNO3-HCL HOT EXTR	Atomic Absorption	-200		

REPORT COPIES TO: S.L. FUNERTON

INVOICE TO: S.L. FUNERTON

REPORT: 114-3353

PROJECT: PAGE 1

SAMPLE NUMBER	ELEMENT UNITS	Cu PPM	Zn PPM	NOTE	SAMPLE NUMBER	ELEMENT UNITS	Cu PPM	Zn PPM	NOTE
FC-1		7	23		FC-41		5	23	
FC-2		4	84		FC-42		3	16	
FC-3		5	32		FC-43		3	20	
FC-4		5	62		FC-44		9	22	
FC-5		4	32		FC-45		3	30	
FC-6		72	165		FC-46		280	16	
FC-7		105	94		FC-47		6	21	
FC-8		5	67		FC-48		290	1013	
FC-9		5	74		FC-49		9	168	
FC-10		3	30		FC-50		5	44	
FC-11		5	15		FC-51		6	28	
FC-12		10	79		FC-52		6	30	
FC-13		6	30		FC-53		4	24	
FC-14		3	99		FC-54		6	117	
FC-15		7	39		FC-64		3	56	
FC-16		11	57		FC-65		4	109	
FC-17		5	16		FC-66		4	46	
FC-18		7	20		FC-67		5	13	
FC-19		8	33		FC-68		330	14	
FC-20		4	30		FC-69		7	20	
FC-21		4	18		FC-70		5	114	
FC-22		11	22		FC-72		4	230	
FC-23		7	39		FC-73		5	86	
FC-24		4	33		FC-74		77	39	
FC-25		8	45		FC-75		16	140	
FC-26		4	39		FC-76		21	160	
FC-27		8	69		FC-101		21	75	
FC-28		30	128		FC-103		4	67	
FC-29		9	41		FC-104		4	98	
FC-30		7	21		FC-105		7	56	
FC-31		8	34		FC-106		3	47	
FC-32		9	65		FC-107		15	38	
FC-33		16	7480		FC-108		6	92	
FC-34		6	102		FC-109		10	40	
FC-35		13	95		FC-110		10	63	
FC-36		7	67		FC-112		6	13	
FC-37		4	61		FC-114		5	179	
FC-38		4	62		FC-115		3	52	
FC-39		8	66		FC-116		7	54	
FC-40		75	74		FC-117		6	72	



REPORT: 114-3353

PROJECT:

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SAMPLE NUMBER	ELEMENT UNITS	Cu PPM	Zn PPM	NOTE	SAMPLE NUMBER	ELEMENT UNITS	Cu PPM	Zn PPM
FC-118		4	70		FC-156		10	60
FC-119		5	37		FC-161		116	27
FC-120		5	46		FC-162		9	79
FC-121		18	61		FC-163		5	43
FC-122		7	29		FC-164		5	42
FC-123		10	29					
FC-124		41	171					
FC-125		3	24					
FC-126		6	15					
FC-127		57	21					
FC-128		7	73					
FC-129		5	27					
FC-130		72	21					
FC-131		2	20					
FC-132		2	23					
FC-133		15	17					
FC-134		1	4					
FC-135		2	26					
FC-136		16	122					
FC-137		1	14					
FC-138		6	27					
FC-139		2	57					
FC-140		2	25					
FC-141		2	51					
FC-142		13	24					
FC-143		23	917					
FC-144		2	30					
FC-145		2	43					
FC-146		35	170					
FC-147		3	15					
FC-148		2	72					
FC-149		3	17					
FC-150		2	44					
FC-150A		3	101					
FC-151A		8	64					
FC-151B		3	83					
FC-152		2	26					
FC-153		3	45					
FC-154		16	43					
FC-155		4	24					

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BONDAR-CLEGG

Geochemical
Lab Report

REPORT: 014-3706

FROM: CHEVRON CANADA RESOURCES LIMITED
DATE: 21-DEC-84 PROJECT: A538

SUBMITTED BY: L. TIHOR

ORDER	ELEMENT	LOWER DETECTION LIMIT	EXTRACTION	METHOD	SIZE FRACTION	SAMPLE TYPE	SAMPLE PREPARATION
01	Cu	1 PPM	HNO3-HCL HOT EXTR	Atomic Absorption	-200	OTHER	PULVERIZE -200
02	Pb	2 PPM	HNO3-HCL HOT EXTR	Atomic Absorption	-200		
03	Zn	1 PPM	HNO3-HCL HOT EXTR	Atomic Absorption	-200		
04	Mn	1 PPM	HNO3-HCL HOT EXTR	Atomic Absorption	-200		
05	Ag	.1 PPM	HNO3-HCL HOT EXTR	Atomic Absorption	-200		
06	Fe	.1 PCT	HNO3-HCL HOT EXTR	Atomic Absorption	-200		

REPORT COPIES TO: LES TIHOR

INVOICE TO: LES TIHOR

[Large empty rectangular area for notes or comments]

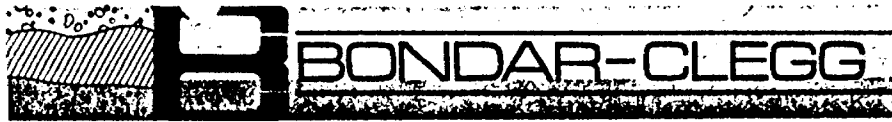
REMARKS: < MEANS LESS THAN
SAMPLE TYPE OTHER REFERS TO CLAY.

[Large empty rectangular area for notes or comments]

[Large empty rectangular area for notes or comments]

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REPORT: 014-3706

PROJECT: M538

PAGE 1

SAMPLE NUMBER	ELEMENT UNITS	Au PPB	wt/Au gm	Cu PPM	Pb PPM	Zn PPM	Mn PPM	Ag PPM	Fe PCT	NOTES
16W		<3	3.80	17	15	74	112	0.1	3.6	
18W		<2	5.67	33	17	82	576	0.6	3.4	
19W		<3	4.54	29	20	130	277	0.2	3.9	
22W		<3	3.03	19	13	79	188	0.1	3.6	
26W		<2	6.51	53	15	97	407	<0.1	3.7	
29W		<3	3.88	78	16	100	308	<0.1	3.0	
32W		<2	6.48	77	12	100	280	<0.1	4.1	
33W		4	4.77	48	11	71	190	<0.1	3.7	
500W		<5	2.20	11	4	23	35	<0.1	1.2	

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[Empty section]

[Empty section]

[Empty section]

[Empty section]

Bondar-Clegg Company Ltd.
 764 Belfast Road
 Ottawa, Ontario
 Canada K1G 0Z5
 Phone: (613) 237-3110
 Telex: 053-4455



BONDAR-CLEGG

Geochemical
 Lab Report

REPORT: 015-0042/115-0042

FROM: CHEVRON CANADA RESOURCES LIMITED
 DATE: 15-JAN-85 PROJECT: M538

SUBMITTED BY: LES TIHOR

ORDER	ELEMENT	LOWER DETECTION LIMIT	EXTRACTION	METHOD	SIZE FRACTION	SAMPLE TYPE	SAMPLE PREPARATIONS
01	Cu	1 PPM	HNO3-HCL HOT EXTR	Atomic Absorption		OTHER	OTHER SAMPLE PREP 1
02	Pb	2 PPM	HNO3-HCL HOT EXTR	Atomic Absorption			
03	Zn	1 PPM	HNO3-HCL HOT EXTR	Atomic Absorption			
04	Mn	1 PPM	HNO3-HCL HOT EXTR	Atomic Absorption			
05	Ag	.1 PPM	HNO3-HCL HOT EXTR	Atomic Absorption			
06	Fe	.1 PCT	HNO3-HCL HOT EXTR	Atomic Absorption			
07	Cu	1 PPM	OTHER	Atomic Absorption			
08	Pb	2 PPM	OTHER	Atomic Absorption			
09	Zn	1 PPM	OTHER	Atomic Absorption			
10	Mn	1 PPM	OTHER	Atomic Absorption			
11	Ag	.1 PPM	OTHER	Atomic Absorption			
12	Fe	.1 PCT	OTHER	Atomic Absorption			

REPORT COPIES TO: LES TIHOR

INVOICE TO: LES TIHOR

REMARKS: OTHER SAMPLE PREP REFERS TO GENTLE MORTARING.
 OTHER SAMPLE TYPE REFERS TO CLAY.
 OTHER EXTRACTION REFERS TO SODIUM DITHIONITE IN
 CITRATE BUFFER AT PH 4.75.
 < MEANS LESS THAN.

Bondar-Clegg Company Ltd.
 764 Belfast Road
 Ottawa, Ontario
 Canada K1G 0Z5
 Phone: (613) 237-3110
 Telex: 053-4455



BONDAR-CLEGG

Geochemical
 Lab Report

REPORT: 015-0042/115-0042

PROJECT: M538

PAGE 1

SAMPLE NUMBER	ELEMENT UNITS	Cu PPM	Pb PPM	Zn PPM	Mn PPM	Ag PPM	Fe PCT	Cu PPM	Pb PPM	Zn PPM	Mn PPM	Ag PPM	Fe PCT	NOTES
17W		46	7	39	68	0.2	1.7	26	2	10	19	0.2	1.1	
23W		52	9	48	320	0.3	2.4	30	2	9	123	0.2	1.2	
24W		51	10	53	520	<0.1	2.3	17	3	4	284	<0.1	1.1	
25W		24	11	44	155	0.1	2.0	9	<2	8	23	0.2	0.9	
26W		51	13	111	555	<0.1	3.6	21	3	7	334	0.1	1.4	
29W2		41	11	35	105	<0.1	1.9	23	2	8	22	0.2	1.1	
30W		41	13	89	260	<0.1	2.5	17	2	6	43	0.2	0.6	
31W		30	7	55	285	<0.1	2.2	12	<2	4	48	<0.1	0.5	
32W		68	12	111	390	0.1	4.0	29	3	3	90	0.1	1.0	
33W		43	13	79	285	<0.1	3.7	19	3	4	48	0.1	1.2	
34W		26	7	27	45	<0.1	1.5	15	<2	5	4	0.1	0.8	
200W		15	8	46	165	0.2	3.2	5	<2	6	29	0.1	1.4	

APPENDIX B

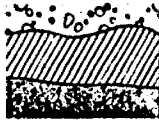
INVOICES

Analytical costs incurred with Bondar Clegg during the course of this program.

<u>REPORT #</u>		<u>COST</u>	
014 3353		3 500.00	
014 3006		164.50	
414 3006	10 Au assays	70.00	missing invoice
114 3353		368.75	
014 3706		63.00	
014 3706		78.30	
015 0042		93.00	
115 0042		83.40	
	TOTAL	<u>4 420.95</u>	

4350.95

Bondar-Clegg & Company Ltd.
5420 Canotek Rd.,
Ottawa, Ontario,
Canada K1J 8N5
Phone: (416) 749-2220
Tele: 1233



BONDAR-CLEGG

CHEVRON CANADA RESOURCES LIMITED
S.L. FUMERTON
167B WILSON AVE.
TIMMINS, ONTARIO

Invoice: 109583
Date: November 26, 1984
Report No: 014-3353

125 Analyses of Whole Rock Analysis	at	25.00	3125.00	
Subtotal			3125.00	3125.00
Sample Preparation				
125 Samples of CRUSH, PULVERIZE -200	at	3.00	375.00	
Subtotal			375.00	375.00
Invoice Total				<u>3500.00</u>

Date
Material Rec'd: Dec 3/84
Date Sent To: _____
Charge: M538
Approved: _____

THIS IS A PROFESSIONAL SERVICE
ACCOUNTS DUE WHEN RENDERED

Bondar-Clegg Company Ltd.
5420 Canote Rd.
Orillia Ontario,
Canada M3J 5N5
Phone: (416) 749-2220
Telex: 051-1111



BONDAR-CLEGG

CHEVRON CANADA RESOURCES LIMITED
167B WILSON AVE.
TIMMINS, ONTARIO
P4N 2J2

Invoice: 109108

Date: October 29, 1984

Report No: 014-3006

10 Analyses of Silver	at	1.95	19.50	
10 Analyses of Copper	at	1.00	10.00	
10 Analyses of Molybdenum	at	1.00	10.00	
10 Analyses of Zinc	at	1.00	10.00	
Subtotal			49.50	49.50
10 Analyses of Aluminium				
Barium				
Calcium				
Iron				
Potassium				
Lithium				
Magnesium				
Sodium	at	11.50	115.00	
Subtotal			115.00	115.00
Invoice Total				<u>\$164.50</u>

Date	
Material Rec'd:	Oct 31/84
Date Sent To:	
Charge:	M527
Approved:	<i>[Signature]</i>

THIS IS A PROFESSIONAL SERVICE
ACCOUNTS DUE WHEN RENDERED

Bondar-Clegg & Company Ltd.
5420 Canova Rd.,
Ottawa, Ontario,
Canada K1J 8N4
Phone: (613) 749 2220
Telex: 5513233



BONDAR-CLEGG

THE GREAT LAKES REGIONAL DEVELOPMENT LIMITED
1000 UNIVERSITY AVENUE
TORONTO, ONTARIO
M5S 1A5

INVOICE NO. 10511
DATE: 10/15/77
NAME OF CLIENT: THE GREAT LAKES REGIONAL DEVELOPMENT LIMITED

105 Analyses of Copper	at	1.95	203.75	
105 Analyses of Zinc	at	1.00	125.00	
Subtotal			328.75	328.75
Invoice Total				328.75

Date
Material Rec'd:.....
Date Sent To:.....
Charge: MS27
Approved: [Signature]

THIS IS A PROFESSIONAL SERVICE
ACCOUNTS DUE WHEN RENDERED

Bondar-Clegg & Company Ltd.
5420 Canotek Rd.,
Ottawa, Ontario,
Canada K1J 8X5
Phone: (613) 749-2220
Telex: 053-3233



CHEVRON CANADA RESOURCES LIMITED
LES TIHOR
167-B WILSON STREET
TIMMINS, ONTARIO.
P4N 2J2

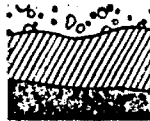
Invoice: 110009
Date: December 31, 1984
Report No: 014-3706
Project: M538

9 Analyses of Gold-Fire Assay	at	7.00	63.00	
Subtotal			63.00	63.00
	Invoice Total			<u>\$63.00</u>

M 538

THIS IS A PROFESSIONAL SERVICE
ACCOUNTS DUE WHEN RENDERED

Bondar-Clegg & Company Ltd.
5420 Canotek Rd.,
Ottawa, Ontario,
Canada K1J 8X5
Phone (613) 749-2220
Telex 33



BONDAR-CLEGG

CHEVRON CANADA RESOURCES LIMITED
155 THOR
167-B WILSON STREET
TIMMINS, ONTARIO.
P4N 2J2

Invoice: 109987

Date: December 23, 1984

Report No: 014-3706

Project: M538

9 Analyses of Silver	at	1.95	17.55	
9 Analyses of Copper	at	1.00	9.00	
9 Analyses of Iron	at	1.00	9.00	
9 Analyses of Manganese	at	1.00	9.00	
9 Analyses of Lead	at	1.00	9.00	
9 Analyses of Zinc	at	1.00	9.00	
Subtotal			62.55	62.55
Sample Preparation				
9 Samples of PULVERIZE -200	at	1.75	15.75	
Subtotal			15.75	15.75
Invoice total				478.30

M538
Dec 28/84.

**THIS IS A PROFESSIONAL SERVICE
ACCOUNTS DUE WHEN RENDERED**

Bondar-Clegg & Company Ltd.
5420 Canotek Rd.,
Ottawa, Ontario,
Canada K1J 8N5
Phone: (613) 749-2220
53-3233



BONDAR-CLEGG

CHEVRON CANADA RESOURCES LIMITED
LES TIKOR
167-B WILSON STREET
TIMMINS, ONTARIO.
P4N 2J2

Invoice: 110168
Date: January 15, 1985
Report No: 015-0042
Project: M538

12 Analyses of Silver	at	1.95	23.40	
12 Analyses of Copper	at	1.00	12.00	
12 Analyses of Iron	at	1.00	12.00	
12 Analyses of Manganese	at	1.00	12.00	
12 Analyses of Lead	at	1.00	12.00	
12 Analyses of Zinc	at	1.00	12.00	
Subtotal			83.40	83.40
Sample Preparation				
12 Samples of OTHER SAMPLE PREP 1	at	0.80	9.60	
Subtotal			9.60	9.60
Invoice Total				\$93.00

M538

THIS IS A PROFESSIONAL SERVICE
ACCOUNTS DUE WHEN RENDERED

Bondar-Clegg & Company Ltd.
5420 Canotek Rd.,
Ottawa, Ontario,
Canada K1J 8X5
Phone (613) 749-2220
Telex 31233



BONDAR-CLEGG

CHEVRON CANADA RESOURCES LIMITED
LES TILOR
167-B WILSON STREET
TIMMINS, ONTARIO.
P4N 2J2

Invoice: 110169

Date: January 15, 1985

Report No: 115-0042

Project: M538

12 Analyses of Silver	at	1.95	23.40	
12 Analyses of Copper	at	1.00	12.00	
12 Analyses of Iron	at	1.00	12.00	
12 Analyses of Manganese	at	1.00	12.00	
12 Analyses of Lead	at	1.00	12.00	
12 Analyses of Zinc	at	1.00	12.00	
Subtotal			83.40	83.40

Invoice total

183.40

M538.

**THIS IS A PROFESSIONAL SERVICE
ACCOUNTS DUE WHEN RENDERED**



42A05NE0107 2.7942 TURNBULL

sed list. the red nns.

900

070/85
Amended W.R. TI

Type of Survey(s) GEOLOGICAL, GEOCHEMICAL		Township or Area TURNBULL/CARSCALLEN	
Claim Holder(s) CHEVRON MINERALS LTD		Prospector's Licence No. T1690	
Address 167B WILSON AVENUE, TIMMINS, ONTARIO, P4N 2T2			
Survey Company CHEVRON CANADA LTD		Date of Survey (from & to) 3 Day 10 Mo. 84 Yr. 24 Day 10 Mo. 84 Yr.	Total Miles of line Cut
Name and Address of Author (of Geo-Technical report) S.L. FUMERTON, 167B WILSON AVENUE, TIMMINS, ONTARIO, P4N 2T2			

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	
	Geological	40
	Geochemical	
Man Days Complete reverse side and enter total(s) here	Geophysical	Days per Claim
	- Electromagnetic	
	- Magnetometer	
	- Radiometric	
	- Other	
	Geological	4.8
	Geochemical	
Airborne Credits Note: Special provisions credits do not apply to Airborne Surveys.	Electromagnetic	Days per Claim
	Magnetometer	
	Radiometric	

Mining Claim			Mining Claim		
Prefix	Number	Expend. Days Cr.	Prefix	Number	Expend. Days Cr.
P	641560	8.4	P	757366	8.4
	641561	8.4		757812	8.4
	641562	8.4		757813	8.4
	641563	8.4		757814	8.4
	641564	8.4		757815	8.4
	641565	8.4		757816	8.4
	661852	8.4		757817	8.4
	688874	8.4		757829	8.4
	688893	8.4		757867	8.4
	688898	8.4		757868	8.4
	688899	8.4		757874	8.4
	688903	8.4		757951	8.4
	688904	8.4		758297	8.4
	688905	8.4		Should read SLF SLF	
	689132	8.4		758290	8.2
	700701	8.4			
	700702	8.4			
	757360	8.4			
	757361	8.4			
	757362	8.4			
	757363	8.4			
	757364	8.4			
	757365	8.4			

RECEIVED
APR 30 1985
MINING LANDS SECTION
RECORDED
1 MAR 1985

PORCUPINE MINING DIVISION
RECEIVED
MAR - 1 1985
A.M. 7:18 P.M. 11:14

Expenditures (excludes power stripping)	
Type of Work Performed LITHOGEOCHEM	<i>Sect. (77-19)</i>
Performed on Claim(s) MAJORITY OF CLAIMS LISTED	
TO RIGHT	
Calculation of Expenditure Days Credits	
Total Expenditures \$ 4 420.95	Total Days Credits 294
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.	
Date 28/2/85	Recorded Holder or Agent (Signature) <i>S.L. Fumerton</i>

For Use Only		
Total Days Cr. Recorded 1906.80	Date Recorded Mar 1/85	Mining District <i>Chapleau</i>
Date Approved as Recorded <i>See Reused Statement</i>		Branch Director

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 S.L. FUMERTON, CHEVRON CANADA LTD, 167B WILSON AVENUE, TIMMINS		
Date Certified 1/3/85		Certified by (Signature) <i>S.L. Fumerton</i>

Assessment Work Breakdown

Man Days are based on eight (8) hour Technical or Line-cutting days. Technical days include work performed by consultants, draftsmen, etc..

Type of Survey						
LITHOGEOCHEM						
Technical Days		Technical Days Credits		Line-cutting Days		Total Credits
25	X	7	=	175	+	0
			=	175	+	36
			=	4.8		

Type of Survey						
Technical Days		Technical Days Credits		Line-cutting Days		Total Credits
[]	X	7	=	[]	+	[]
			=	[]	+	[]
			=	[]		

Type of Survey						
Technical Days		Technical Days Credits		Line-cutting Days		Total Credits
[]	X	7	=	[]	+	[]
			=	[]	+	[]
			=	[]		

Type of Survey						
Technical Days		Technical Days Credits		Line-cutting Days		Total Credits
[]	X	7	=	[]	+	[]
			=	[]	+	[]
			=	[]		

[Handwritten signature]

Mining Lands Section

File No 2.7942

Control Sheet

TYPE OF SURVEY GEOPHYSICAL
 GEOLOGICAL
 GEOCHEMICAL
 EXPENDITURE

MINING LANDS COMMENTS:

L.D.

Lgd.

J. Hurst

Signature of Assessor

85-04-01

Date

1985 06 13

Your File: 70/85
Our File: 2.7942

Mining Recorder
Ministry of Natural Resources
60 Wilson Avenue
Timmins, Ontario
P4N 2S7

Dear Sir:

RE: Notice of Intent dated May 21, 1985
Geochemical, Geological Survey and
Data for Assaying on Mining Claims
P 641560, et al, in Turnbull and
Carscallen Townships

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,

S.E. Yundt
Director
Land Management Branch

Whitney Block, Room 6643
Queen's Park
Toronto, Ontario
M7A 1W3
Phone: (416)965-4888

S. Hurst:mc

cc: Chevron Minerals Ltd
167B Wilson Avenue
Timmins, Ontario
P4N 2T2
Attention: S.L. Fumerton

cc: Mr. G.H. Ferguson
Mining & Lands Commissioner
Toronto, Ontario
cc: Resident Geologist
Timmins, Ontario

Encl.



Ontario

Ministry of
Natural
Resources

Technical Assessment Work Credits

AMENDED

File
2.7942

Date
1985 05 21

Mining Recorder's Report of
Work No. 70/85

Recorded Holder	CHEVRON MINERALS LTD
Township or Area	TURNBULL/CARSCALLEN TOWNSHIPS

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	P 641560-61-64-65 661852 661903-04-05 689132 688899 700701 757362 to 366 inclusive 757813 to 817 inclusive 757874 757951 757829
Geological _____ days Geochemical <u>7.3</u> days	
Man days <input checked="" type="checkbox"/> Airborne <input type="checkbox"/> Special provision <input type="checkbox"/> Ground <input checked="" 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.	

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

P 641562-63
 688874-93-98
 700702
 757360-61
 757812-67-68
 758290

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:

**Technical Assessment
Work Credits**

File
2.7942
Mining Recorder's Report of
Work No.
70/85

Date
1985 04 17

Recorded Holder
CHEVRON MINERALS LTD

Township or Area
TURNBULL/CARSCALLEN TOWNSHIPS

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 checked="" type="checkbox"/> Credits have been reduced because of corrections to work dates and figures of applicant.	<p>\$4350.95 SPENT ON ASSAYING SAMPLES TAKEN FROM MINING CLAIMS:</p> <p>P 641560-61-64 661852 688903-04-05 689132 700701 757362 to 366 inclusive 757813 to 817 inclusive 757874 757951</p> <p>290.0 DAYS CREDIT ALLOWED WHICH MAY BE GROUPED IN ACCORDANCE WITH SECTION 76(6) OF THE MINING ACT RSO 1980.</p>

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

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:



Ministry of
Natural
Resources

**Technical Assessment
Work Credits**

AMENDED

File
2.7942

Date **1985 05 21** Mining Recorder's Report of
Work No. **70/85**

Recorded Holder
CHEVRON MINERALS LTD

Township or Area
TURNBULL/CARSCALLEN TOWNSHIPS

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 <u>40</u> days Geochemical _____ days Man days <input type="checkbox"/> Airborne <input type="checkbox"/> Special provision <input checked="" type="checkbox"/> Ground <input checked="" 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.	P 641560-61 641563-64-65 688899 688903-04-05 737361-62-63-64-66 757812 to 817 inclusive 757829-68

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

<u>30 DAYS</u>	<u>20 DAYS</u>	<u>5 DAYS</u>
P 661852 689132	P 641562 688898 700701-02 757360-65 757867	P 688874-93 757874 757951 758290

No credits have been allowed for the following mining claims

not sufficiently covered by the survey Insufficient technical data filed

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:



AMENDED

June 5/85

1985 05 21

Your File: 70/85
Our File: 2.7942

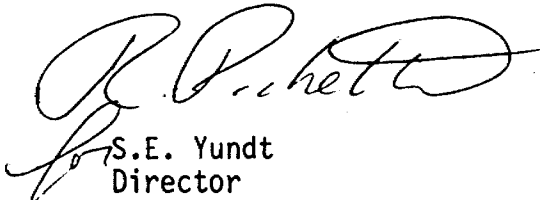
Mining Recorder
Ministry of Natural Resources
60 Wilson Avenue
Timmins, Ontario
P4N 2S7

Dear Sir:

Enclosed are two copies of a Notice of Intent with statements listing a reduced rate of assessment work credits to be allowed for a technical survey. Please forward one copy to the recorded holder of the claims and retain the other. In approximately fifteen days from the above date, a final letter of approval of these credits will be sent to you. On receipt of the approval letter, you may then change the work entries on the claim record sheets.

For further information, if required, please contact Mr. R.J. Pichette at 416/965-4888.

Yours sincerely,


S.E. Yundt
Director
Land Management Branch

Whitney Block, Room 6643
Queen's Park
Toronto, Ontario
M7A 1W3

FJ S. Hurst:mc

Encls.

cc: Chevron Minerals Ltd
167B Wilson Avenue
Timmins, Ontario
P4N 2T2
Attention: S.L. Fumerton

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



Ministry of
Natural
Resources
Ontario

AMENDED
Notice of Intent
for Technical Reports

1985 05 21

2.7942/70/85

An examination of your survey report indicates that the requirements of The Ontario Mining Act have not been fully met to warrant maximum assessment work credits. This notice is merely a warning that you will not be allowed the number of assessment work days credits that you expected and also that in approximately 15 days from the above date, the mining recorder will be authorized to change the entries on his record sheets to agree with the enclosed statement. Please note that until such time as the recorder actually changes the entry on the record sheet, the status of the claim remains unchanged.

If you are of the opinion that these changes by the mining recorder will jeopardize your claims, you may during the next fifteen days apply to the Mining and Lands Commissioner for an extension of time. Abstracts should be sent with your application.

If the reduced rate of credits does not jeopardize the status of the claims then you need not seek relief from the Mining and Lands Commissioner and this Notice of Intent may be disregarded.

If your survey was submitted and assessed under the "Special Provision-Performance and Coverage" method and you are of the opinion that a re-appraisal under the "Man-days" method would result in the approval of a greater number of days credit per claim, you may, within the said fifteen day period, submit assessment work breakdowns listing the employees names, addresses and the dates and hours they worked. The new work breakdowns should be submitted direct to the Land Management Branch, Toronto. The report will be re-assessed and a new statement of credits based on actual days worked will be issued.



May 13/85

1985 04 26

Your File: 70/85
Our File: 2.7942

Mining Recorder
Ministry of Natural Resources
60 Wilson Avenue
Timmins, Ontario
P4N 2S7

Dear Sir:

Enclosed are two copies of a Notice of Intent with statements listing a reduced rate of assessment work credits to be allowed for a technical survey. Please forward one copy to the recorded holder of the claims and retain the other. In approximately fifteen days from the above date, a final letter of approval of these credits will be sent to you. On receipt of the approval letter, you may then change the work entries on the claim record sheets.

For further information, if required, please contact Mr. R.J. Pichette at 416/965-4888.

Yours sincerely,

S.E. Yundt
Director
Land Management Branch

Whitney Block, Room 6643
Queen's Park
Toronto, Ontario
M7A 1W3

RJ S. Hurst:mc

Encls.

cc: Chevron Minerals Ltd
167B Wilson Avenue
Timmins, Ontario
P4N 2T2
Attention: S.L. Fumerton

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



Ministry of
Natural
Resources

AMENDED

Notice of Intent
for Technical Reports

1985 04 26

2.7942/70/85

An examination of your survey report indicates that the requirements of The Ontario Mining Act have not been fully met to warrant maximum assessment work credits. This notice is merely a warning that you will not be allowed the number of assessment work days credits that you expected and also that in approximately 15 days from the above date, the mining recorder will be authorized to change the entries on his record sheets to agree with the enclosed statement. Please note that until such time as the recorder actually changes the entry on the record sheet, the status of the claim remains unchanged.

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Ministry of
Natural
Resources

May 2/85

1985 04 17

Your File: 70/85
Our File: 2.7942

Mining Recorder
Ministry of Natural Resources
60 Wilson Avenue
Timmins, Ontario
P4N 2S7

Dear Sir:

Enclosed are two copies of a Notice of Intent with statements listing a reduced rate of assessment work credits to be allowed for a technical survey. Please forward one copy to the recorded holder of the claims and retain the other. In approximately fifteen days from the above date, a final letter of approval of these credits will be sent to you. On receipt of the approval letter, you may then change the work entries on the claim record sheets.

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Yours sincerely,

S.E. Yundt
Director
Land Management Branch

Whitney Block, Room 6643
Queen's Park
Toronto, Ontario
M7A 1W3

2 S. Hurst:mc

Encls.

cc: Chevron Minerals Ltd
167B Wilson Avenue
Timmins, Ontario
P4N 2T2
Attention: S.L. Fumerton
cc: Mr. G.H. Ferguson
Mining & Lands Commissioner
Toronto, Ontario



Ministry of
Natural
Resources

Ontario

Notice of Intent
for Technical Reports

1985 04 17

2.7941/70/85

An examination of your survey report indicates that the requirements of The Ontario Mining Act have not been fully met to warrant maximum assessment work credits. This notice is merely a warning that you will not be allowed the number of assessment work days credits that you expected and also that in approximately 15 days from the above date, the mining recorder will be authorized to change the entries on his record sheets to agree with the enclosed statement. Please note that until such time as the recorder actually changes the entry on the record sheet, the status of the claim remains unchanged.

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Ministry of Natural Resources

File _____

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) GEOLOGICAL, GEOCHEMICAL
Township or Area TURNBULL, CARSCALLEN TOWNSHIP
Claim Holder(s) CHEVRON MINERALS LTD

Survey Company CHEVRON CANADA RESOURCES LIMITED
Author of Report S.L. FUMERTON
Address of Author 167B WILSON AVENUE, TIMMINS
Covering Dates of Survey 3/10/84 to 24/10/84
(linecutting to office)
Total Miles of Line Cut APPRXIMATELY 70Km

MINING CLAIMS TRAVERSED	
List numerically	
P641560.....	757365.....
(prefix)	(number)
641561.....	757366.....
641562.....	757812.....
641563.....	757813.....
641564.....	757814.....
641565.....	757815.....
661852.....	757816.....
688874.....	757817.....
688893.....	757829.....
688898.....	757867.....
688899.....	757868.....
688903.....	757874.....
688904.....	757951.....
688905.....	758297.....
689132.....	
700701.....	
700702.....	
757360.....	
757361.....	
757362.....	
757363.....	
757364.....	
TOTAL CLAIMS <u>36</u>	

If space insufficient, attach list

SPECIAL PROVISIONS CREDITS REQUESTED		DAYS
		per claim
ENTER 40 days (includes line cutting) for first survey.	Geophysical	
	-Electromagnetic	
	-Magnetometer	
	-Radiometric	
ENTER 20 days for each additional survey using same grid.	-Other	
	Geological	
	Geochemical	

AIRBORNE CREDITS (Special provision credits do not apply to airborne surveys)
Magnetometer _____ Electromagnetic _____ Radiometric _____
(enter days per claim)

DATE: 26/3/85 SIGNATURE: [Signature]
Author of Report or Agent

Res. Geol. _____ Qualifications 2.6744

Previous Surveys			
File No.	Type	Date	Claim Holder

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 _____

Total Number of Samples 125

Type of Sample ROCK SAMPLES
(Nature of Material)

Average Sample Weight 1 kg

Method of Collection HAMMER

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 _____

TOTAL SAMPLE CRUSHED AND

PULPED

General _____

ANALYTICAL METHODS

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

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

Others SEE APPENDIX A

Field Analysis (_____ tests)

Extraction Method _____

Analytical Method _____

Reagents Used _____

Field Laboratory Analysis

No. (_____ tests)

Extraction Method _____

Analytical Method _____

Reagents Used _____

Commercial Laboratory (_____ tests)

Name of Laboratory BONDAR CLEGG

Extraction Method BORATE FUSION

Analytical Method ICP

Reagents Used _____

General _____



Chevron Canada Resources Limited

Minerals Staff

167B Wilson Ave., Timmins, Ontario P4N 2T2 Phone (705) 264-2291

March 26, 1985

LAND MANAGEMENT BRANCH
Ministry of Natural Resources
Whitney Block, Room 6643
Queen's Park
Toronto, Ontario
M7A 1W3

Dear Sir/Madame;

Please find enclosed two copies of our Gradient Magnetometer Survey over 8 claims held by Chevron in Aubin Township. Also enclosed are two copies of a Geological and Lithochemistry Survey over a group of claims held by Chevron in Turnbull and Carscallen Townships.

Yours faithfully,

A handwritten signature in black ink, appearing to read "Stewart Fumerton".

Stewart Fumerton
Geologist

RECEIVED

MAR 29 1985

MINING LANDS SECTION

GL GC

GL CC

2.1942

641560

✓ ✓

757366

✓ ✓

61

✓ ✓

812

✓

62

1/2 ✓

13

✓ ✓

63

✓

14

✓ ✓

64

✓ ✓

15

✓ ✓

65

✓

16

✓ ✓

661852

1/4 ✓

17

✓ ✓

688874

3/4

29

✓

93

3/4

67

1/2

98

1/2

68

✓

99

✓

74

3/4 ✓

903

1/4 ✓

757951

3/4 ✓

4

✓ ✓

758297

3/4

5

✓ ✓

3 NC

689132

1/4 ✓

6 1/2 NC

700701

1/2 ✓

2

1/2

~~33 * 40 = 1320~~

757360

1/2

~~1320 ÷ 395 = 33.4~~

61

✓

62

✓ ✓

63

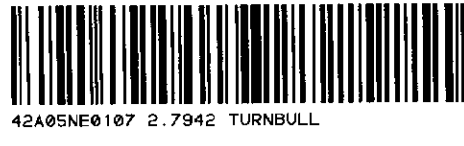
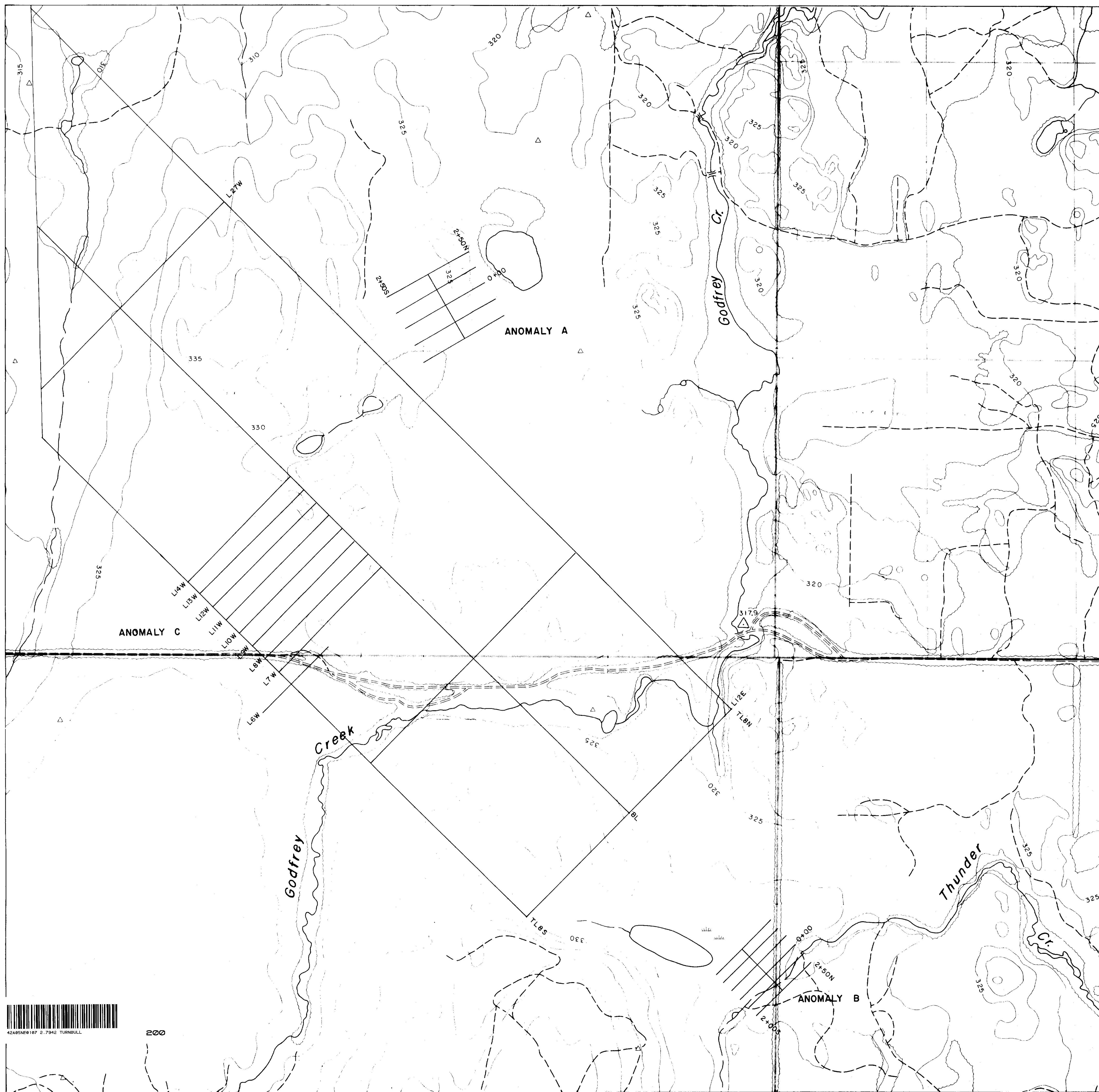
✓ ✓

64

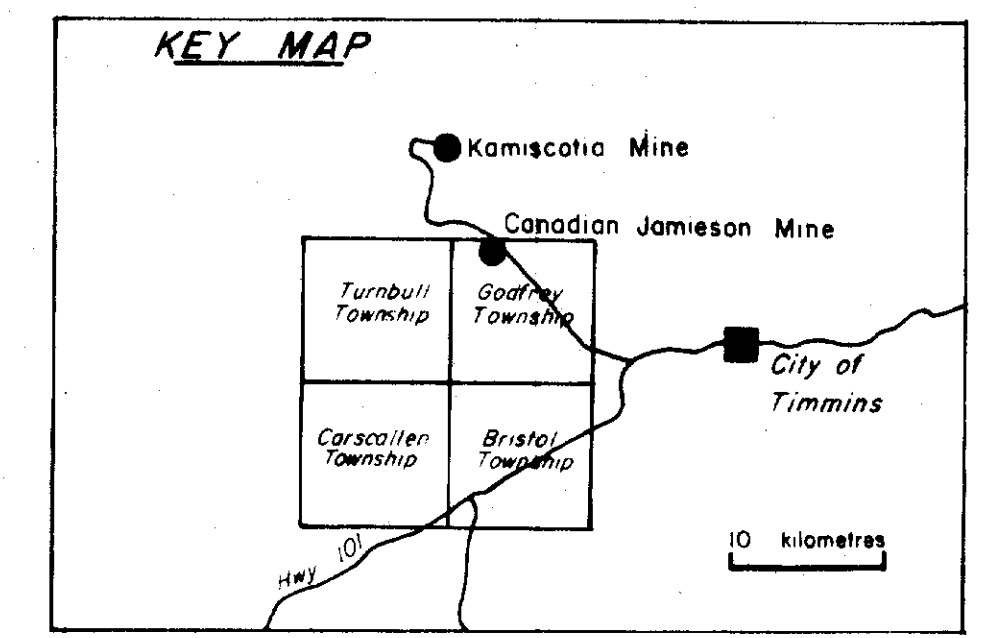
✓ ✓

65

1/2 ✓



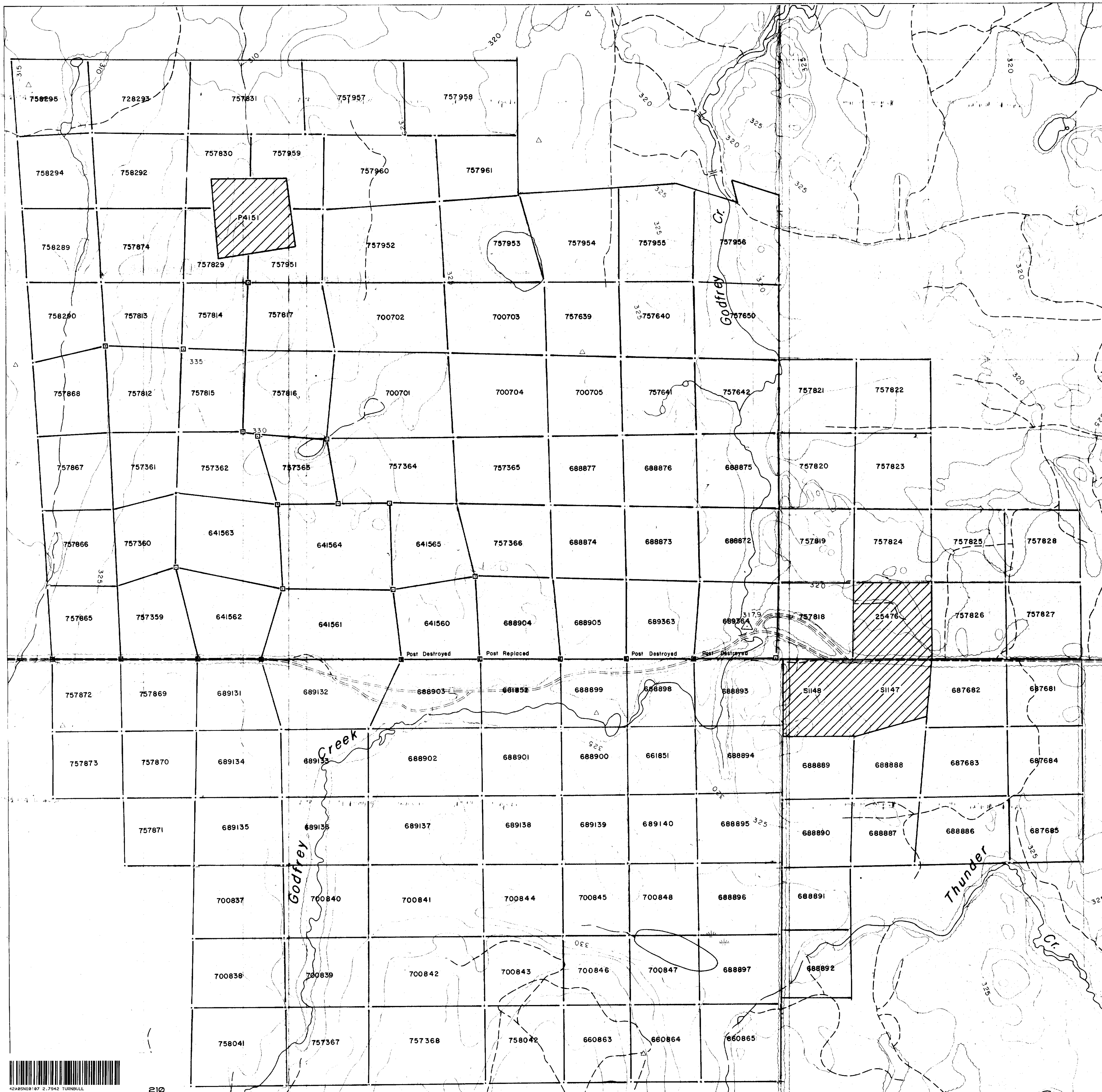
200



Chevron Canada Resources Limited
Minerals Staff

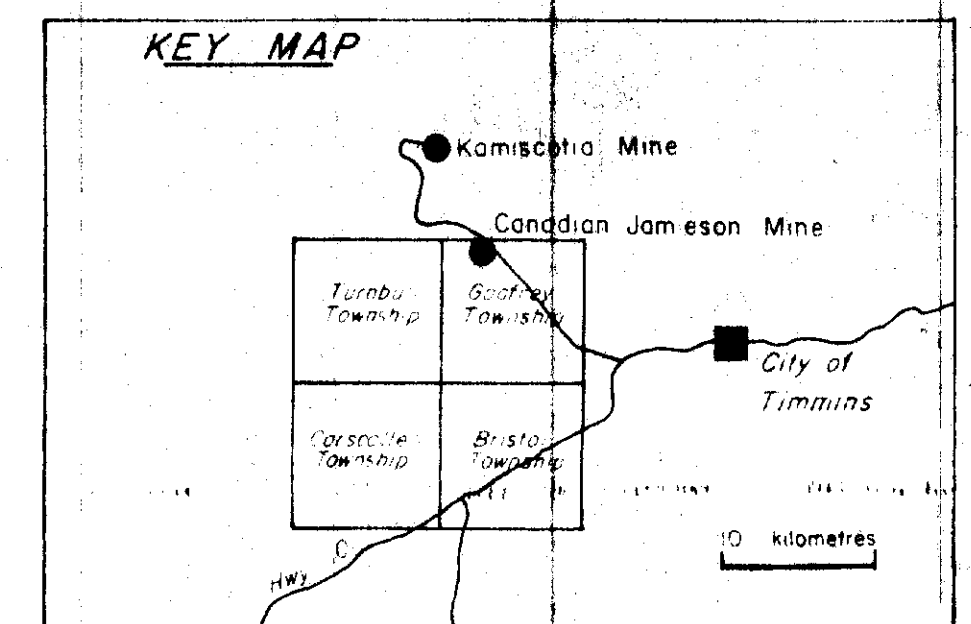
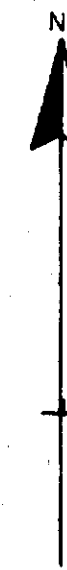
FOUR CORNERS PROJECT
GRID LOCATION 27942

FIGURE No. MAP 1	PROJECT No. M 538	
DATE January 1985	REVISIONS	SCALE 1:10,000
NTS No. 42A12		FILE No.
COMPILED BY <i>Steve Fomenko</i>		



LEGEND

- LOCATED CLAIM POST
- CLAIM POST - ASSUMED POSITION
- LAND WITHIN PROPERTY BOUNDARY NOT HELD BY CHEVRON



Chevron Canada Resources Limited Minerals Staff	
FOUR CORNERS PROJECT CLAIM MAP 27942 <i>Steve Timmins</i>	
FIGURE No. MAP 2	PROJECT No. M 538
DATE November 9/84	REVISIONS
NTS No. 42A 2	November 19, 1984
COMPILED BY S. W.	SCALE 1:10,000 FILE No.



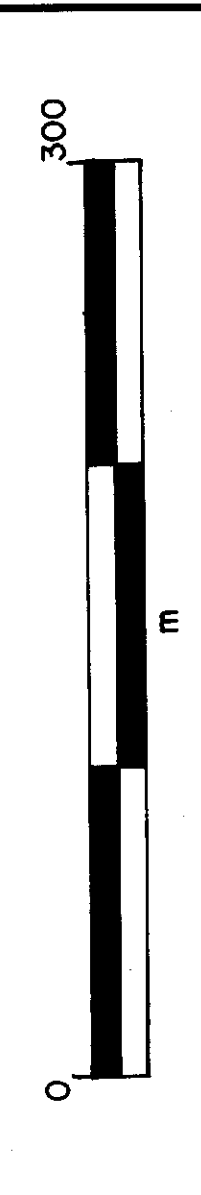
LEGEND

- MAFIC INTRUSIVE ROCKS**
- 11 Diabase, unsubdivided
 - 11a Olivine Diabase
- INTERMEDIATE to MAFIC INTRUSIVES**
- 7 Unsubdivided
 - 7a Granophytic Microdiorite
 - 7b Spherulitic quartz-feldspar microdiorite
 - 7c Porphyrite (intrusive Andesite)
 - 7d Feldspar Porphyry-microdiorite
 - 7e Andesite porphyry, Dacite porphyry, Basalt porphyry.
- FELSIC METAVOLCANICS**
- 2 Unsubdivided
 - 2a Massive & Foliated flows
 - 2b Porphyritic flows
 - 2c Vesicular flows, spherulitic lava.
 - 2d Porphyritic tufts & welded tufts.
 - 2e Tuff, agglomerate & breccia
 - 2f Water laid volcanic breccia, conglomerate.
 - 2g Graphitic tuff, graphitic agglomerate.
- MAFIC to INTERMEDIATE METAVOLCANICS**
- 1 Unsubdivided
 - 1a Massive lava
 - 1b Pillow lava & vesicular lava
 - 1c Tuff & Agglomerate
 - 1d Metavolcanic breccia
 - 1e Mafic dikes & sills

- Cu Copper mineralization
 - Zn Zinc mineralization
 - Au Gold mineralization
- ▲ Breccia
 - Area of Outcrop
 - ▭ Bedding
 - ▨ Foliation
 - ▩ Shaft
 - ▭ Trench
 - ▲ Geochemical sample location
 - Claim post located
 - ▭ Claim post inferred

The letter "G" preceding a rock unit number indicates interpretation from geophysical data in drift-covered areas.

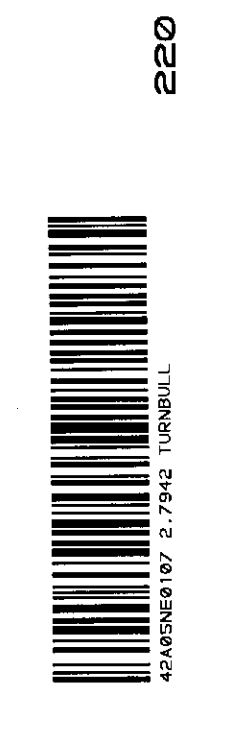
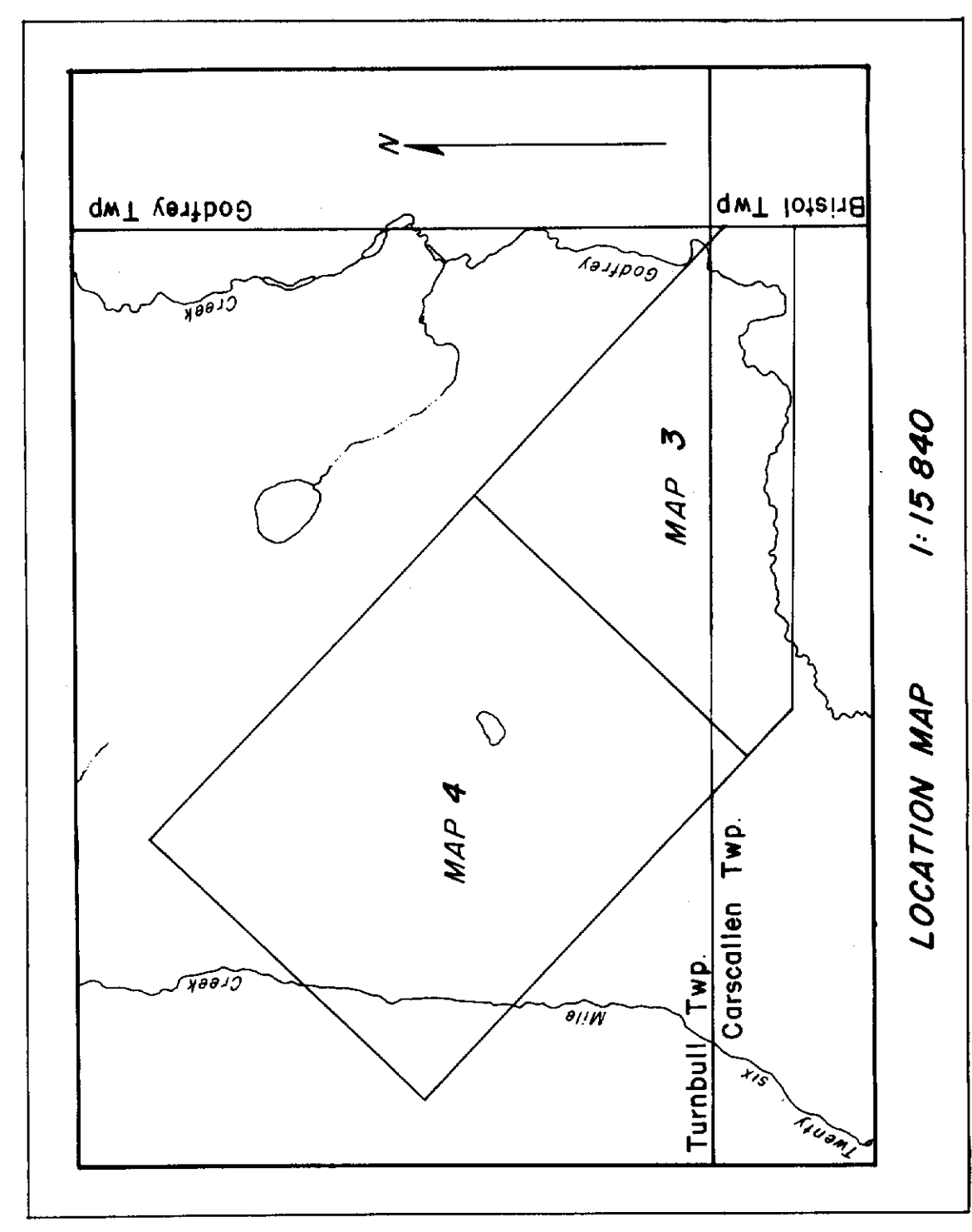
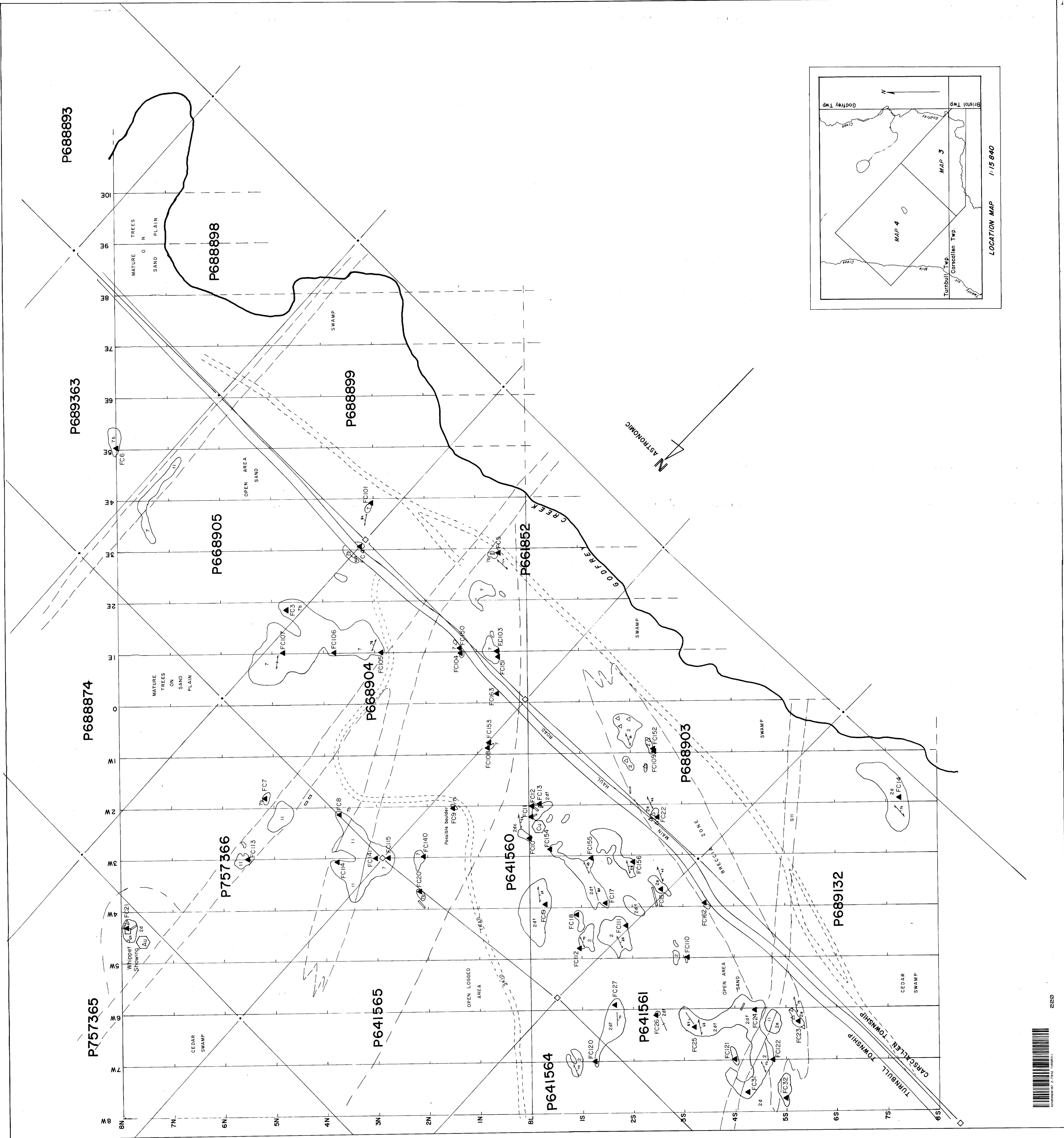
Legend after ODM Map 2330, Turnbull and Godfrey Townships by R.S. Middleton, 1970



Chevron Canada Resources Limited
Minerals Staff

FOUR CORNERS PROJECT
EAST SHEET
GEOLOGY

FIGURE No. MAP 3 PROJECT No. M538
DATE January 1985 REVISIONS
NTS No. 42 A 12 FILE No.
COMPILED BY S.L.F.



LEGEND

- MAFIC INTRUSIVE ROCKS**
- 11 Diabase, unsubsidiated
 - 11a Olivine Diabase

- INTERMEDIATE to MAFIC INTRUSIVES**
- 7 Unsubsidiated
 - 7a Granophytic Microdiorite
 - 7b Spherulitic quartz-feldspar microdiorite
 - 7c Porphyrite (Intrusive Andesite)
 - 7d Feldspar Porphyry-microdiorite
 - 7e Andesite porphyry, Dacite porphyry, Basalt porphyry.

- FELSIC METAVOLCANICS**
- 2 Unsubsidiated
 - 2a Massive & Foliated flows
 - 2b Porphyritic flows
 - 2c Vesicular flows, spherulitic lava.
 - 2d Porphyritic tufts & welded tufts.

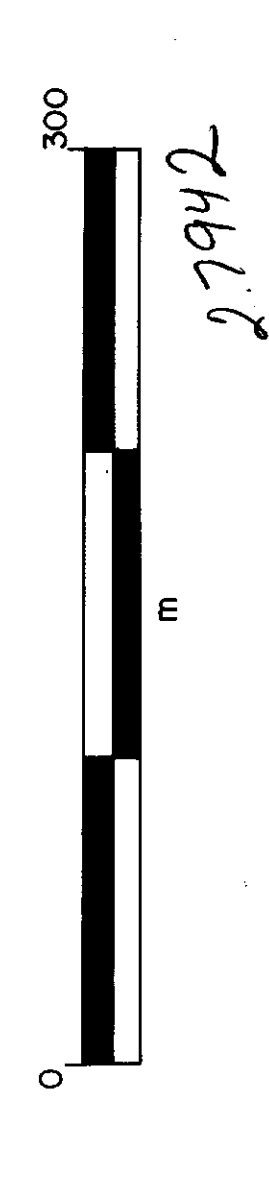
- 2e Tuff, agglomerate & breccia
- 2f Water laid volcanic breccia, conglomerate.
- 2g Graphitic tuff, graphitic agglomerate.

- MAFIC to INTERMEDIATE METAVOLCANICS**
- 1 Unsubsidiated
 - 1a Massive lava
 - 1b Pillow lava & vesicular lava
 - 1c Tuff & Agglomerate
 - 1d Metavolcanic breccia
 - 1e Mafic dikes & sills

- Cu Copper mineralization
- Zn Zinc mineralization
- Au Gold mineralization
- ▲ Breccia
- ▭ Area of Outcrop
- ▭ Bedding
- ▭ Foliation
- ▭ Shaft
- ▭ Trench
- ▭ Geochemical sample location
- ▭ Claim post located
- ▭ Claim post inferred

The letter "G" preceding a rock unit number indicates interpretation from geophysical data in drift-covered areas.

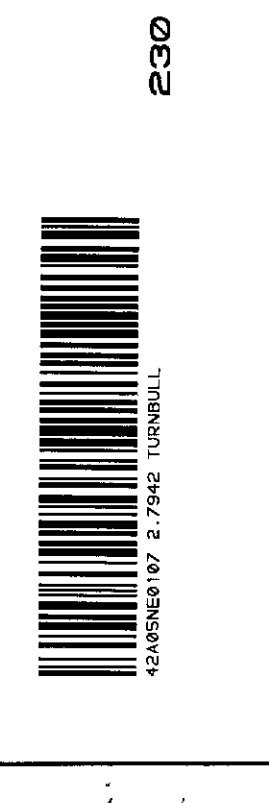
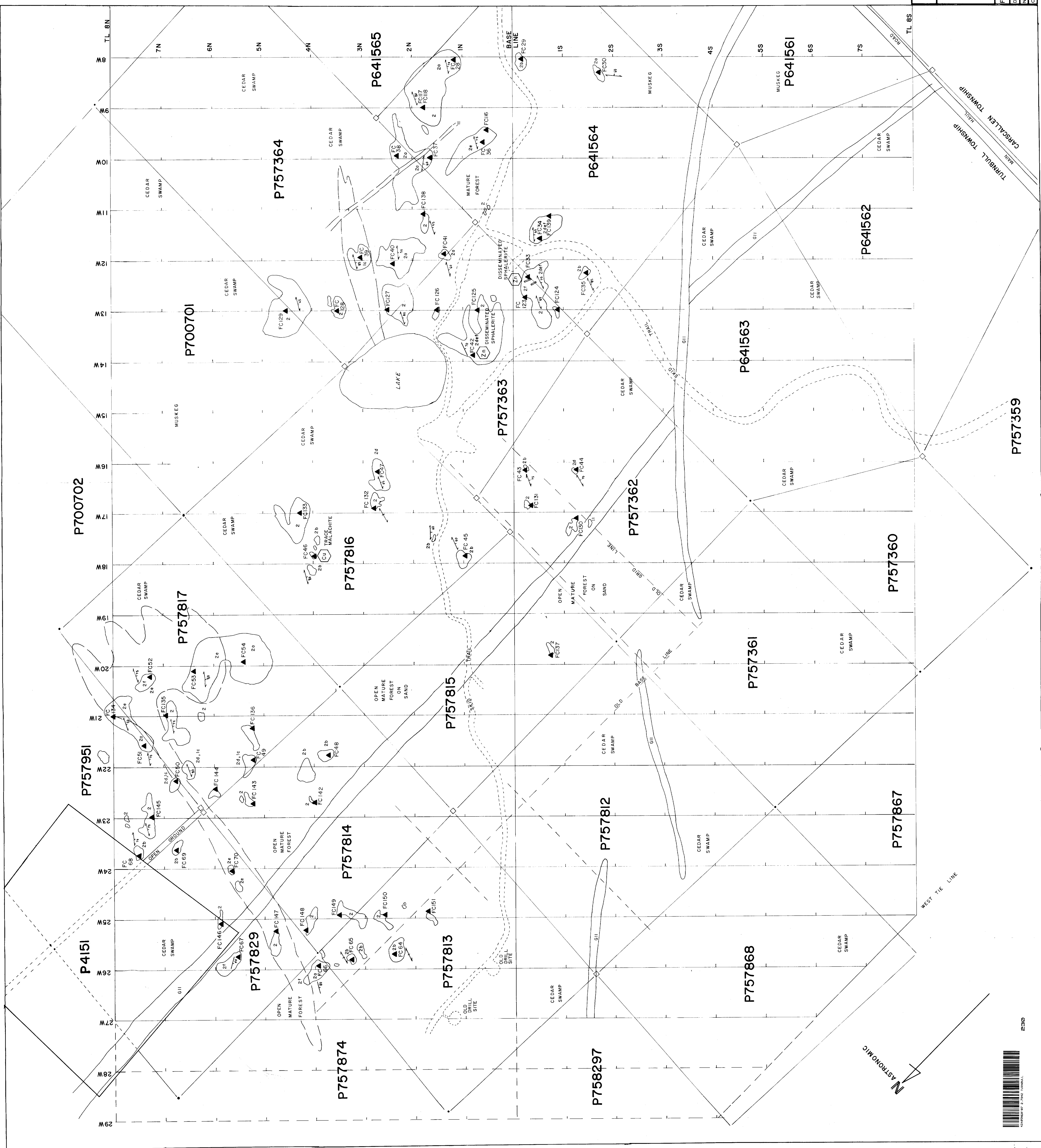
Legend after ODM Map 2330, Turnbull and Godfrey Townships by R.S. Middleton, 1970



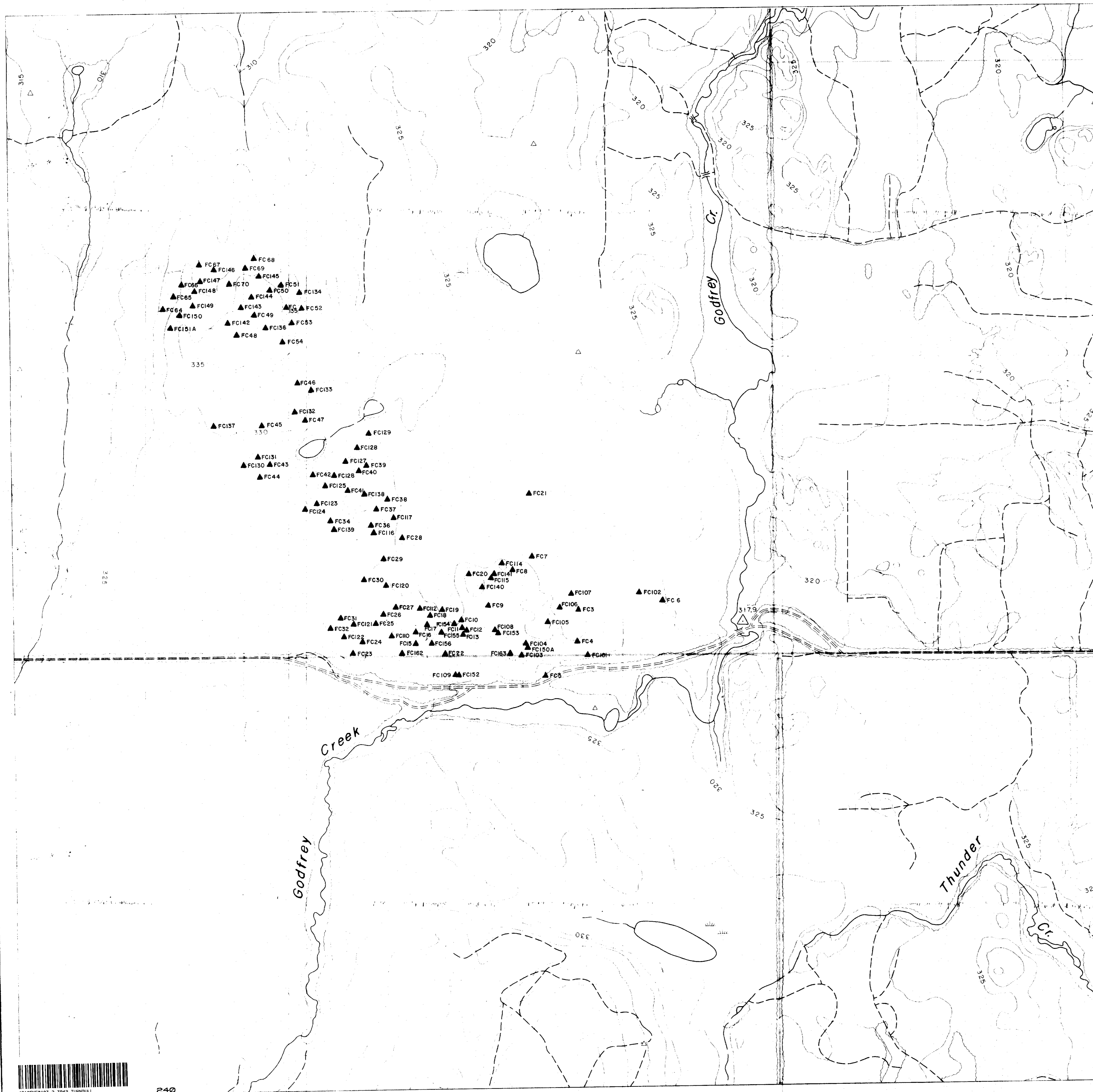
Chevron Canada Resources Limited
Minerals Staff

FOUR CORNERS PROJECT
WEST SHEET
GEOLOGY

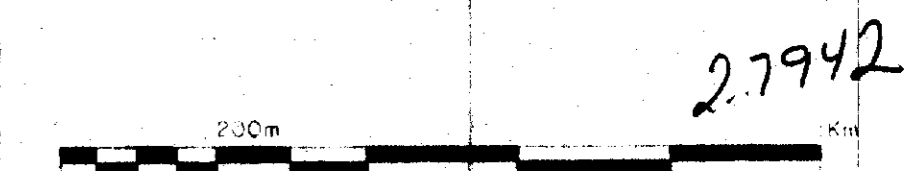
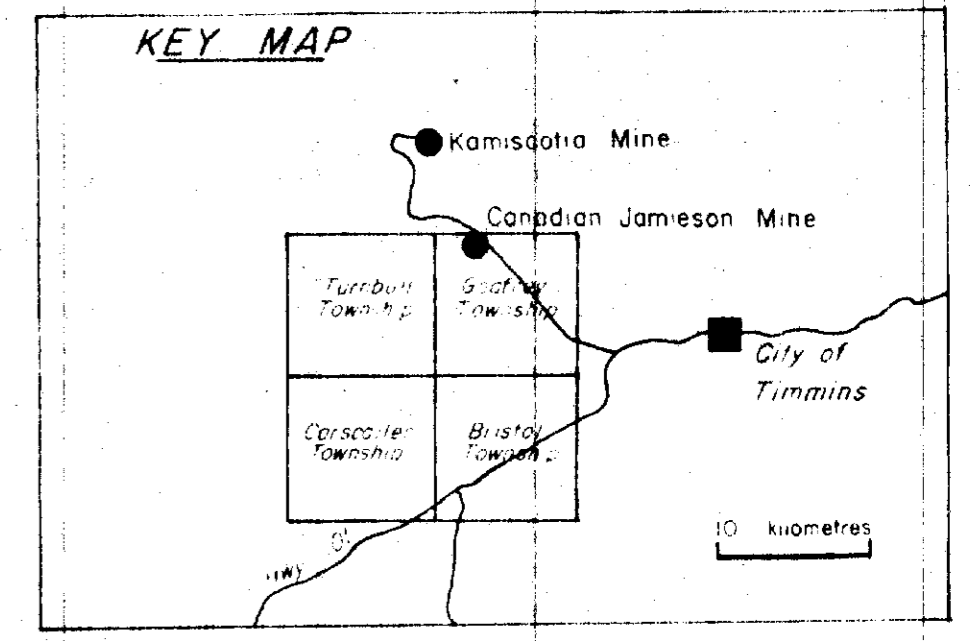
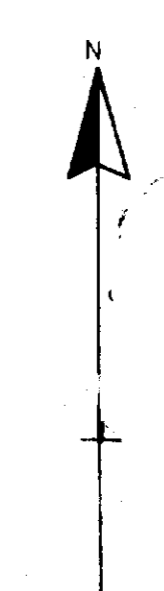
FIGURE NO. MAP 4 PROJECT NO. M539
DATE January 1985 REVISIONS SCALE 1:2500
NTS No. 42-A-12 FILE NO.
COMPILED BY S.L.F.



2390



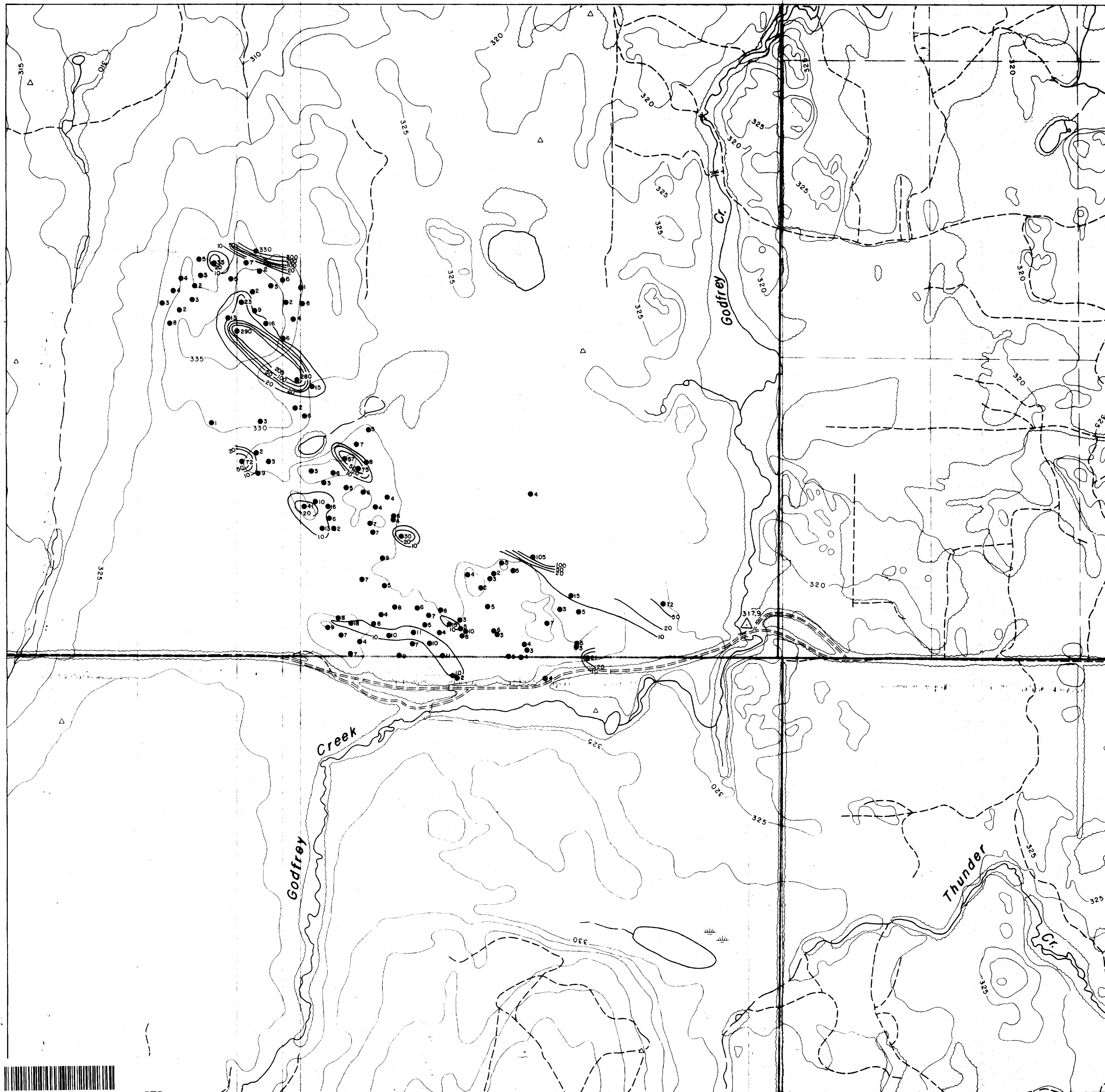
N.B. EXACT SAMPLE LOCATIONS ARE GIVEN ON MAPS 3 & 4



27942

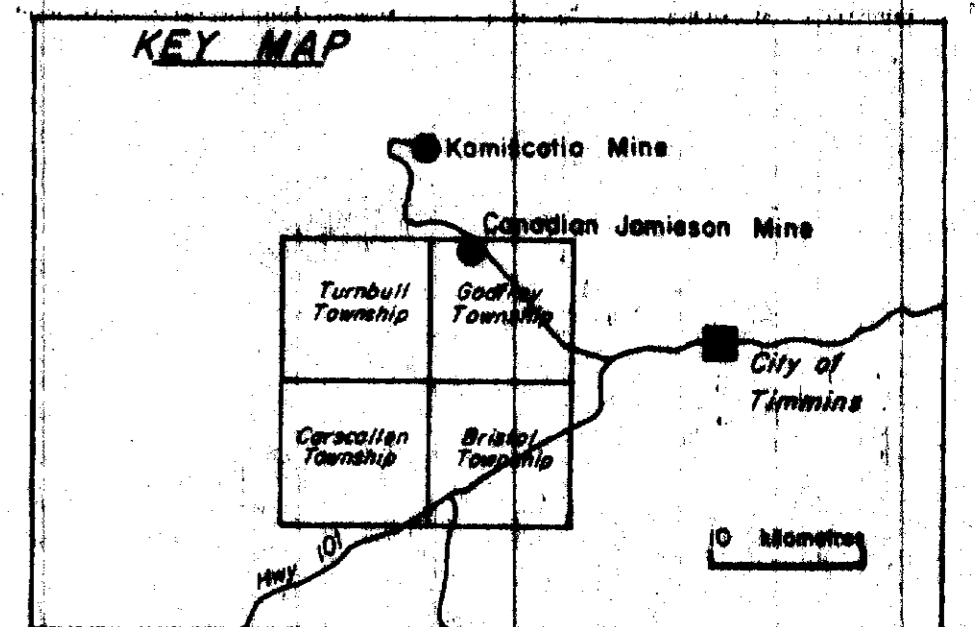
Chevron Canada Resources Limited Minerals Staff			
FOUR CORNERS PROJECT Lithochem Survey SAMPLE LOCATION			
FIGURE No.	MAP 5	PROJECT No.	M 538
DATE	REVISIONS	SCALE	1:10,000
NTS No. 42A 2		FILE No.	
COMPILED BY			





LEGEND

- > 300 ppm
- 200-300 ppm
- 100-200 ppm
- 50-100 ppm
- 20-50 ppm
- 10-20 ppm



27942

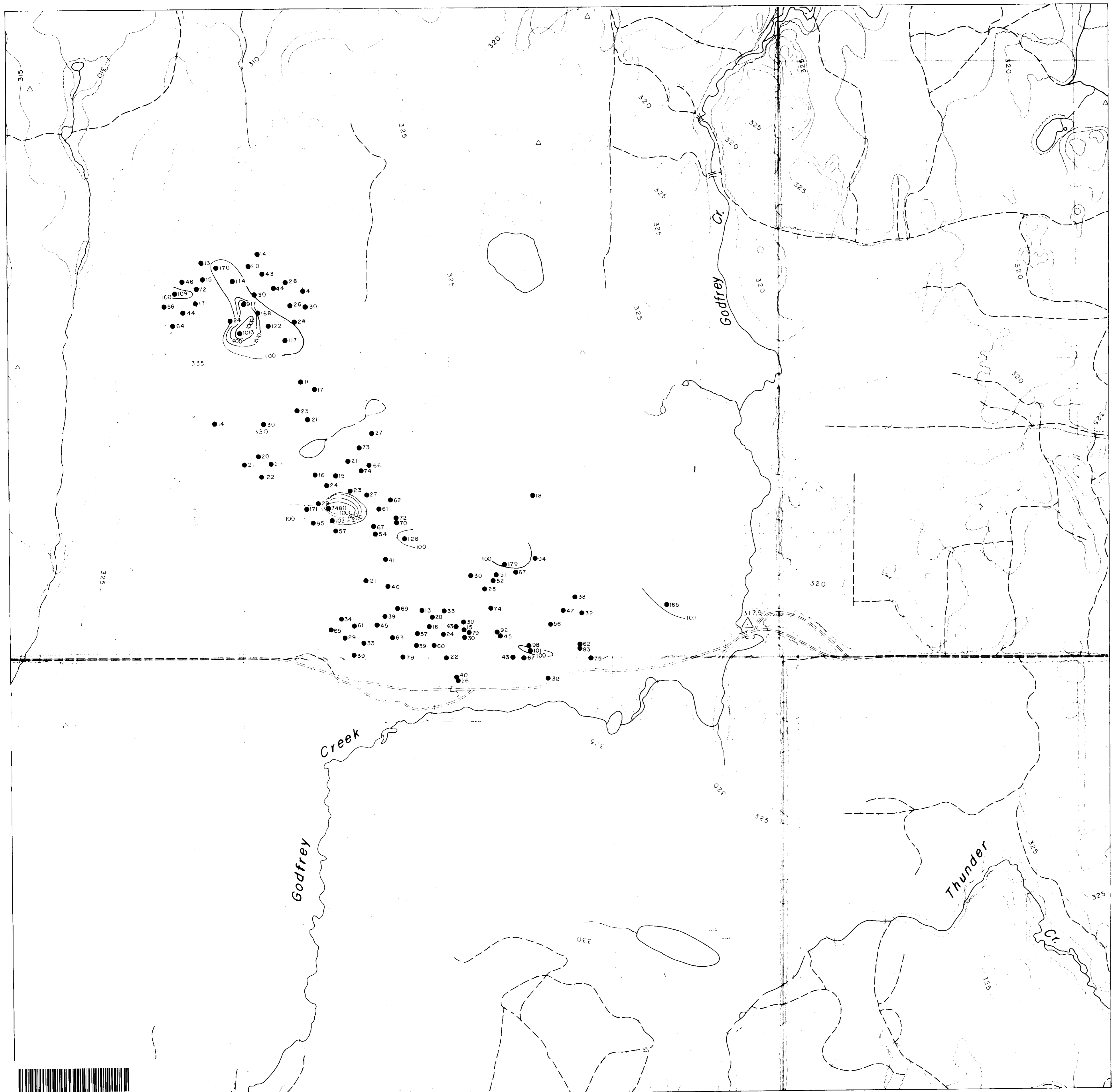


Chevron Canada Resources Limited
Minerals Staff

FOUR CORNERS PROJECT
Litho geochem Survey
Cu

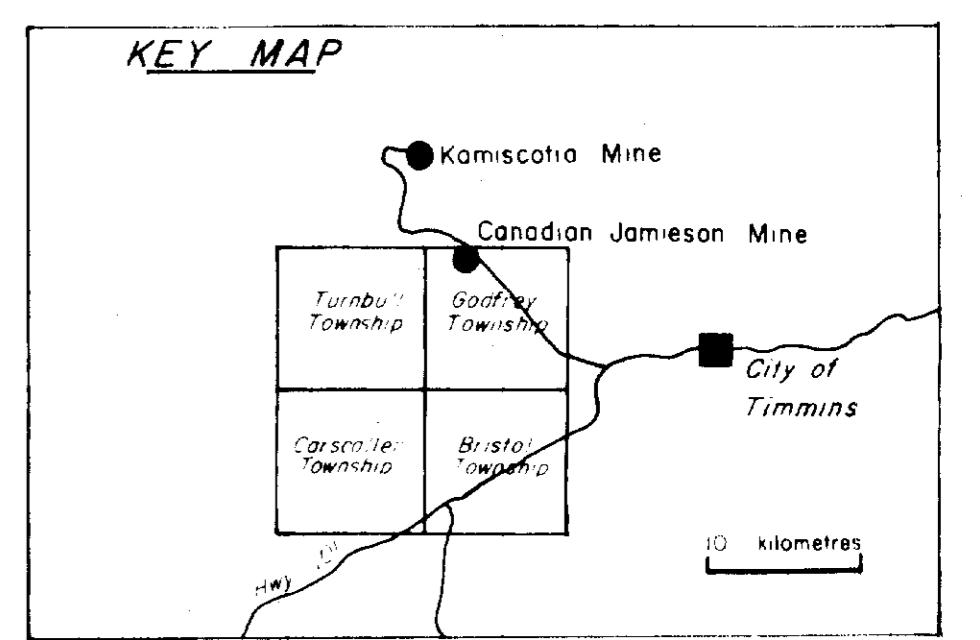
FIGURE No. MAP 6		PROJECT No. M 538	
DATE	REVISIONS	SCALE 1:10000	
NTS No. 42A12		FILE No.	
COMPILED BY			





LEGEND

- > 1000 ppm Zn
- 400-1000 ppm
- 200-400 ppm
- 100-200 ppm
- < 100 ppm



27942



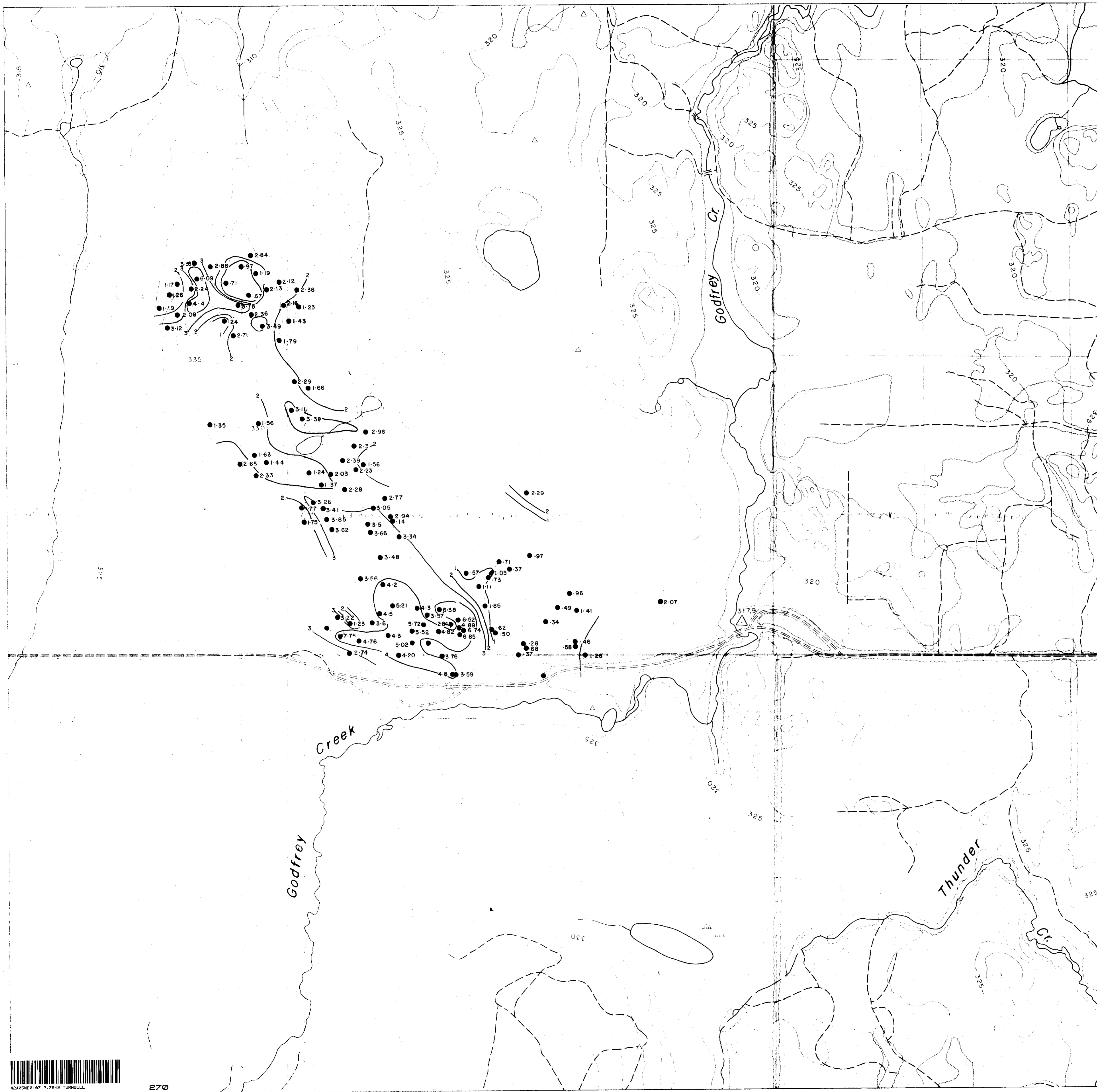
Chevron Canada Resources Limited
 Minerals Staff

FOUR CORNERS PROJECT
Lithochem Survey
Zn

Steve Finlayson

FIGURE No	MAP 7	PROJECT No	M 538
DATE	REVISIONS	SCALE 1:10,000	
NTS No 42A12		FILE No	
COMPILED BY			



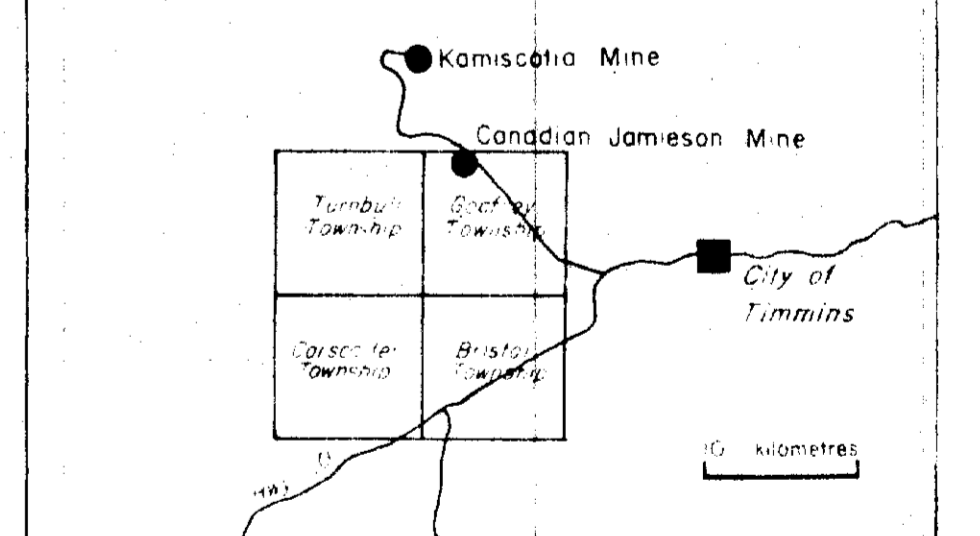


LEGEND

- > 4%
- 3-4%
- 2-3%
- 1-2%
- < 1%

Contour Interval 1% K₂O

KEY MAP

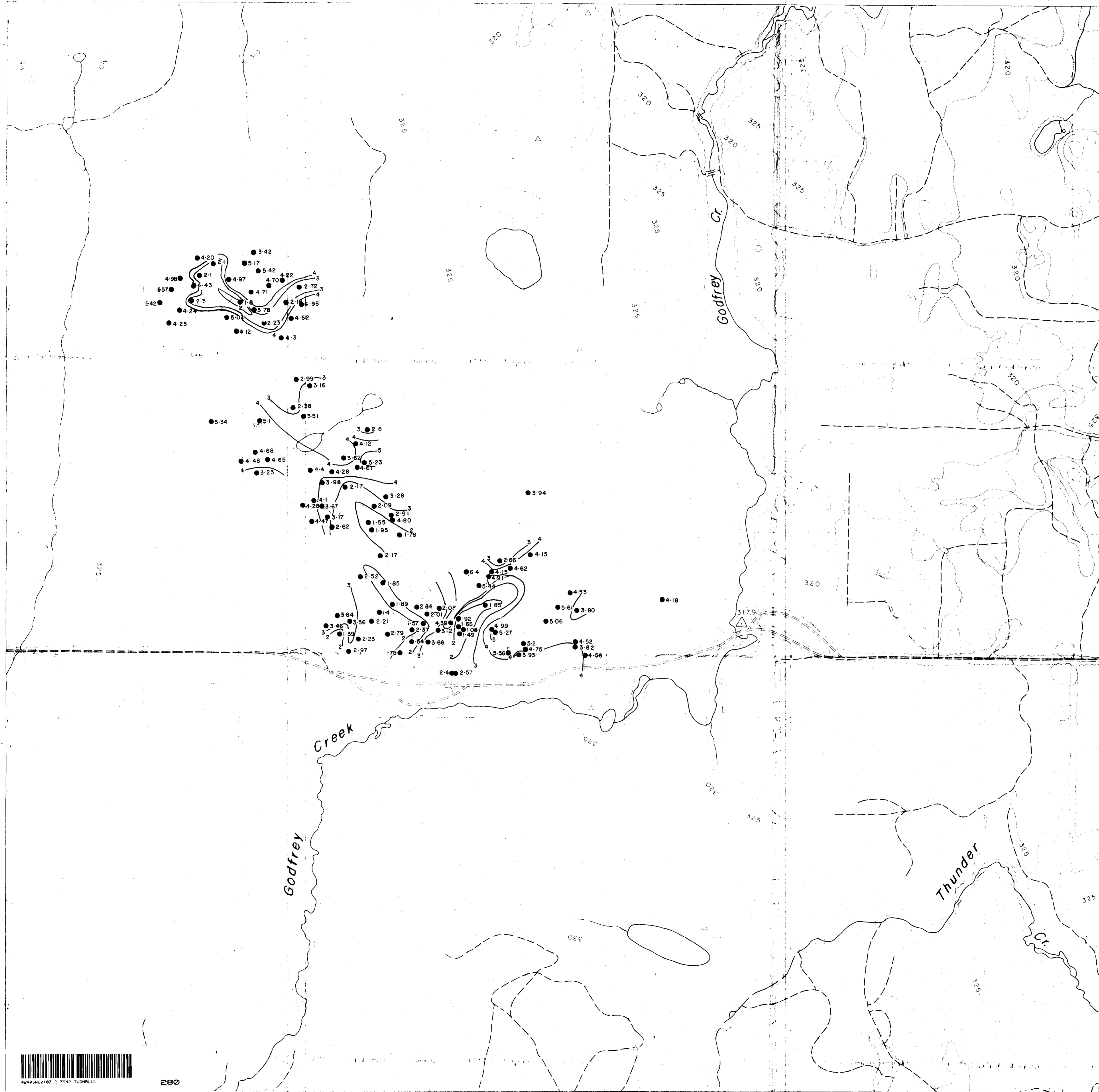


2.7942



Chevron Canada Resources Limited Minerals Staff			
FOUR CORNERS PROJECT Lithogeochem Survey K₂O			
FIGURE No. MAP 8		PROJECT No. M538	
DATE	REVISIONS	SCALE: 1:10,000'	
NTS No. 42A-2		FILE No.	
COMPILED BY			



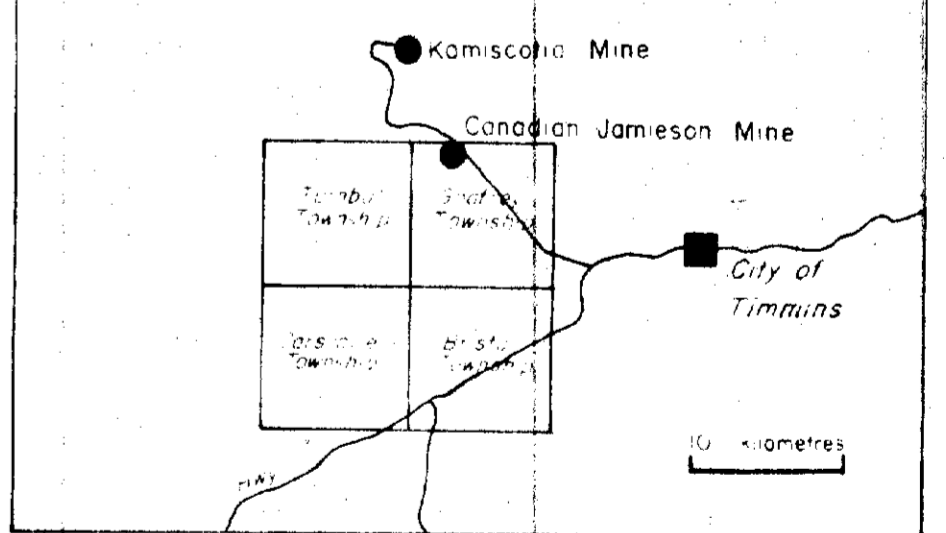


LEGEND

- >4%
- 3-4%
- 2-3%
- 1-2%
- <1%

Contour Interval 1% Na₂O

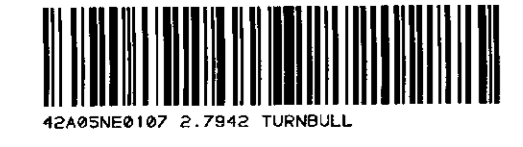
KEY MAP

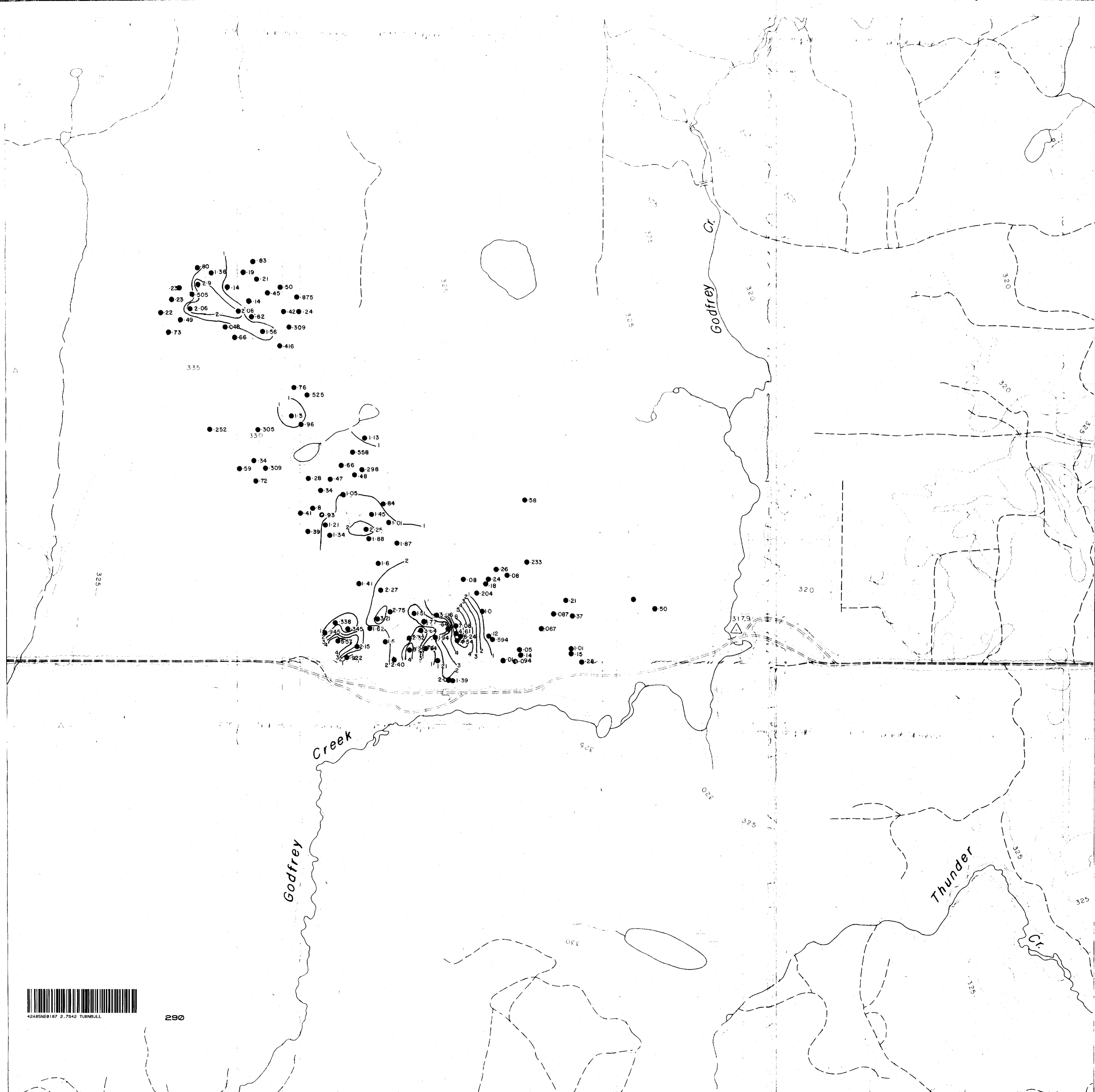


27942



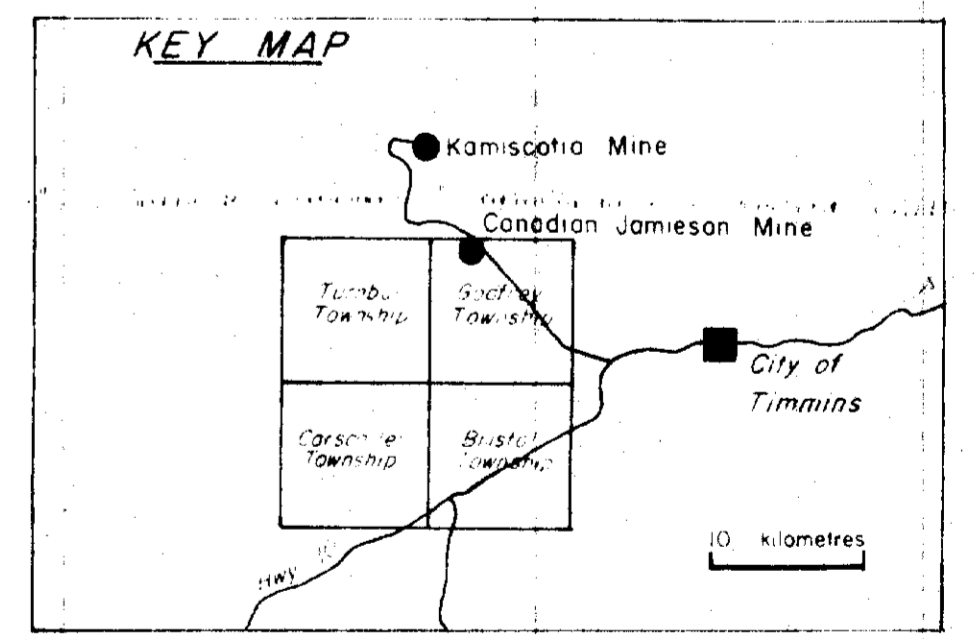
Chevron Canada Resources Limited Minerals Staff			
FOUR CORNERS PROJECT Lithogeochem Survey Na₂O			
FIGURE No	MAP 9	PROJECT No M538	
DATE	REVISIONS	SCALE	1:5000
NTS No: 42 & 2		FILE No:	
COMPILED BY			





LEGEND

- >4
 - 3-4
 - 2-3
 - 1-2
 - <1
- Contour Interval | K_2O/Na_2O

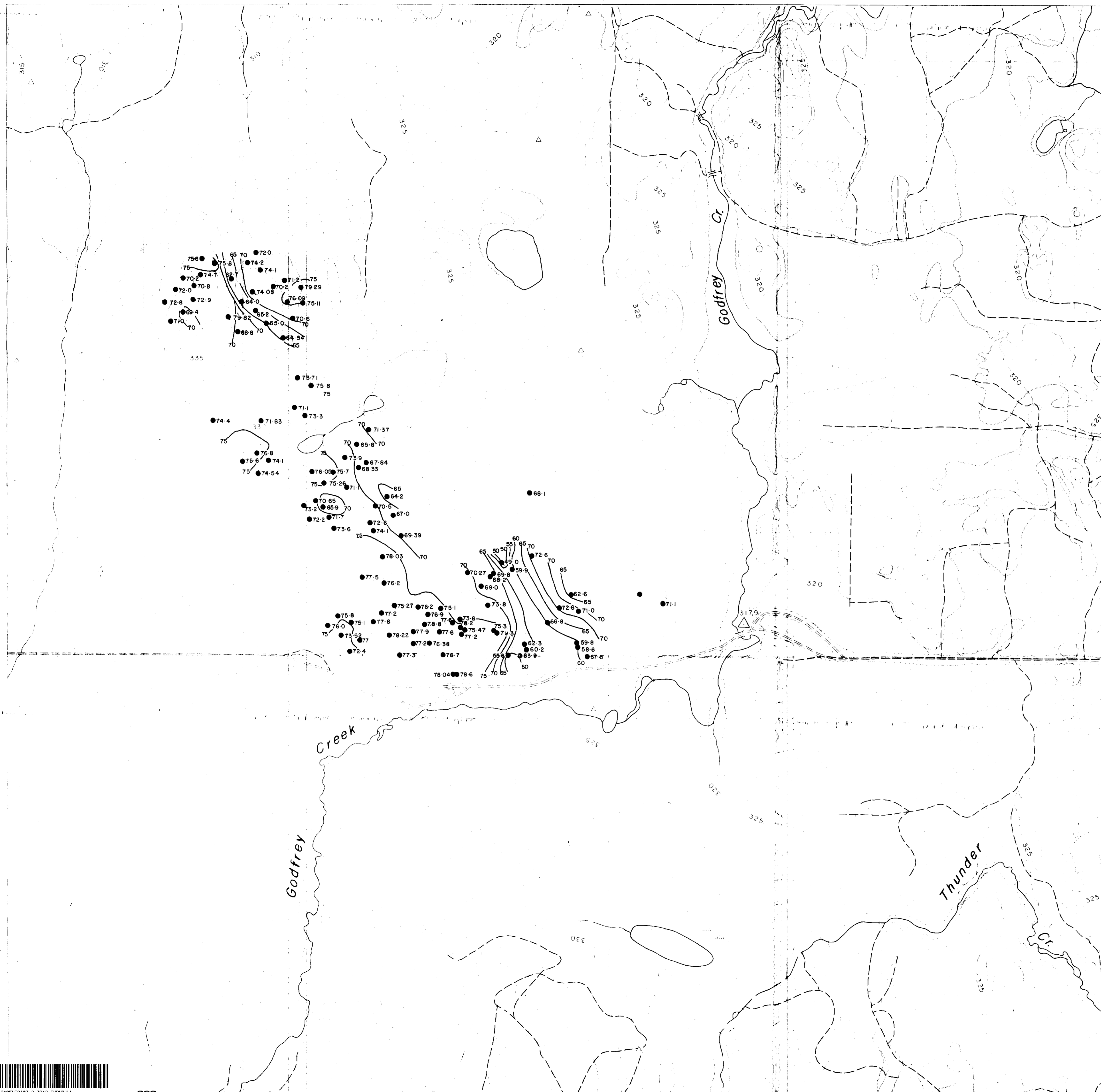


2.7942



290

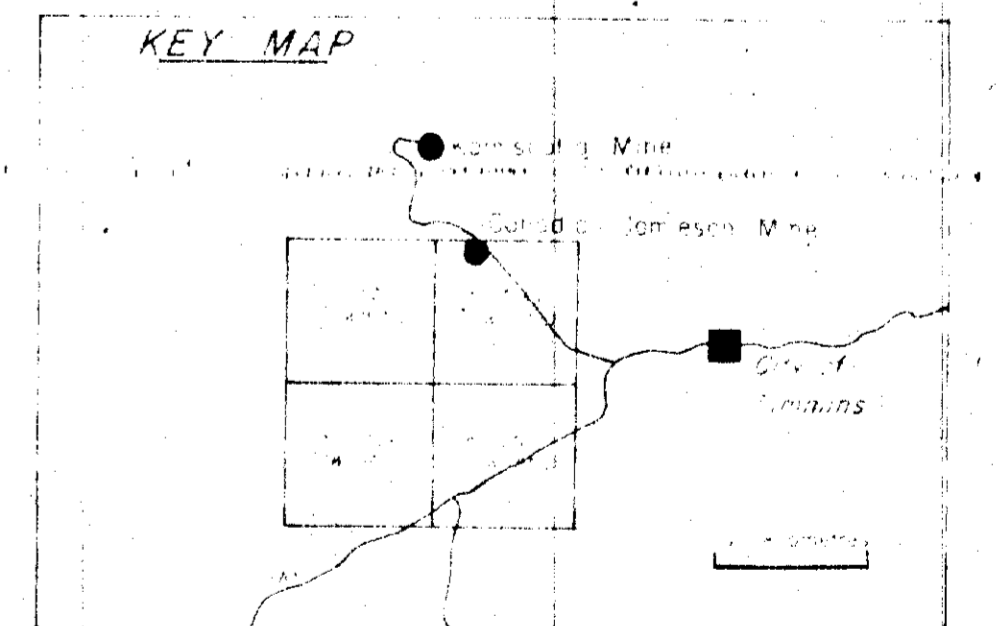
Chevron Canada Resources Limited Minerals Staff		
FOUR CORNERS PROJECT Lithogeochem Survey K_2O/Na_2O		
FIGURE No. MAP 10	PROJECT No. M 538	
DATE	REVISIONS	SCALE 1:5000
NTS No. 42A 2		FILE No.
COMPILED BY		



LEGEND

- 75-80%
- 70-75%
- 65-70%
- 60-65%
- <60%

Contour Interval 5% SiO₂



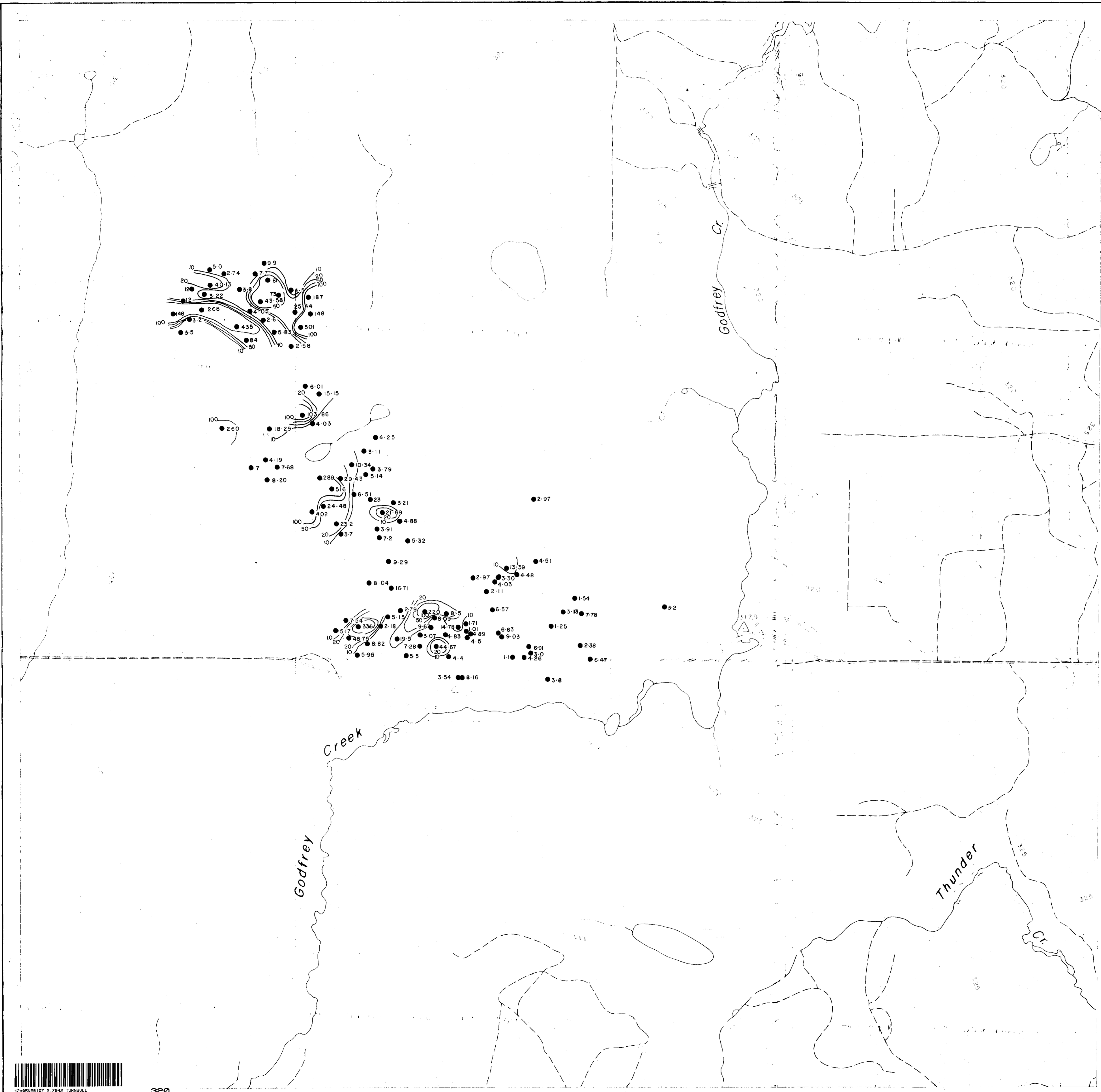
27942



Chevron Canada Resources Limited Minerals Staff			
FOUR CORNERS PROJECT Lithogeochem Survey SiO ₂			
FIGURE No.	MAP II	PROJECT No.	M 538
DATE	PRECISION	SCALE	1:50,000
NTS No. 42A 2		FILE No.	
COMPILED BY			

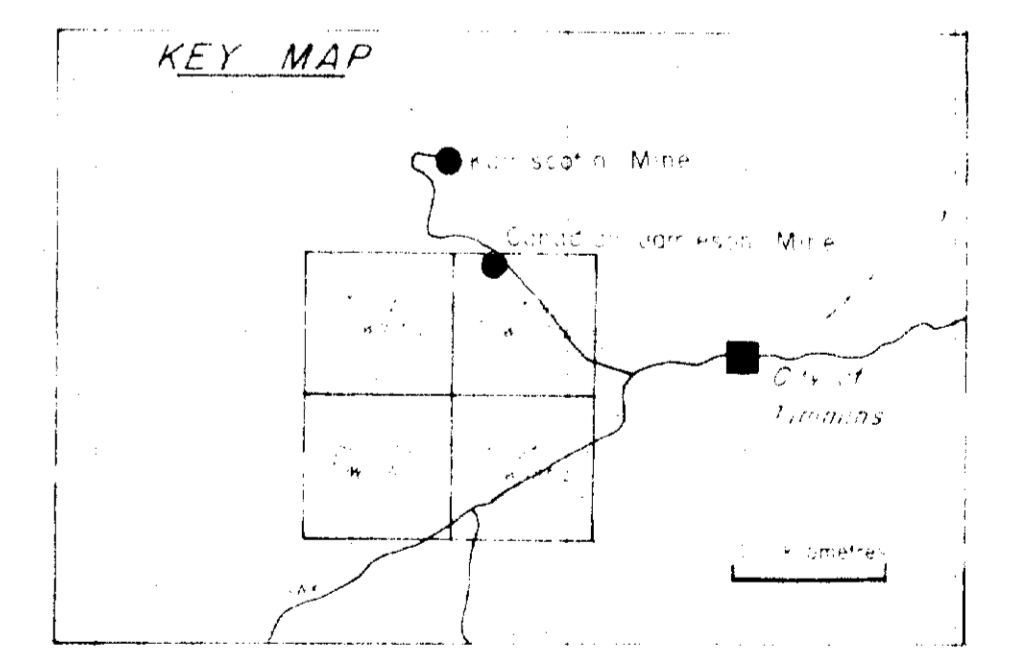


42A09NE0107 2.7942 TURNBULL



LEGEND

- >100
- 50-100
- 20-50
- 10-20

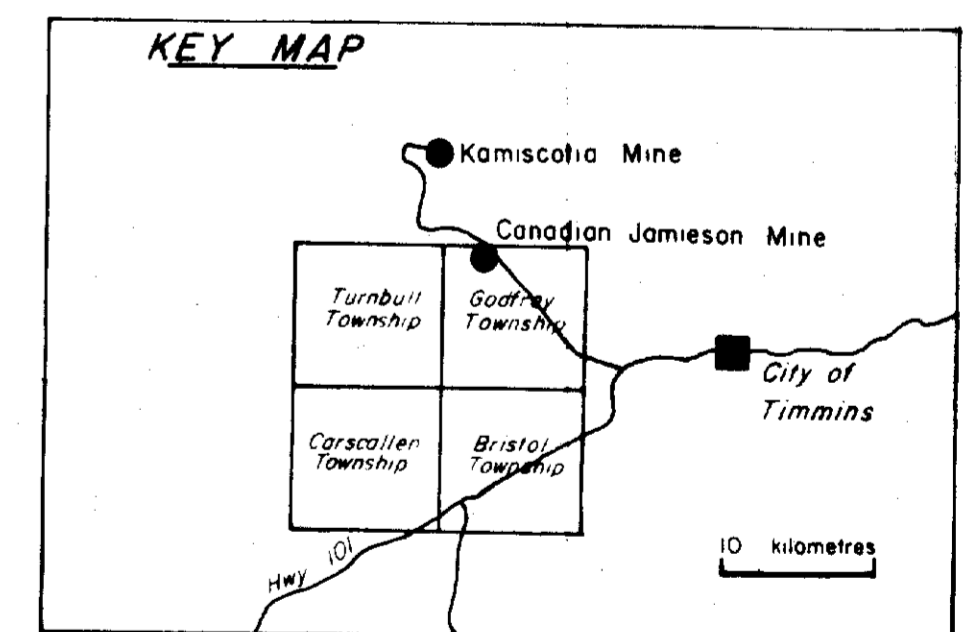


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Chevron Canada Resources Limited Minerals Staff			
FOUR CORNERS PROJECT Lithogeochem Survey MgO+Fe₂O₃ / CaO			
FIGURE No	MAP 13	PROJECT No	M 538
DATE		SCALE	
NTS No	472.2	FILE No	
COMPILED BY			





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Chevron Canada Resources Limited
Minerals Staff

FOUR CORNERS PROJECT
SAMPLE LOCATION
SOIL GEOCHEMICAL SURVEY
CLAY FRACTION "B" HORIZON

FIGURE No. MAP 14	PROJECT No. M538
DATE	REVISIONS
NTS No. 42A/2	SCALE 1:10 000
COMPILED BY	FILE No.

