

# 4620

Geological, geophysical and geochemical report on the GREG group of claims, situated 2 miles NE of Wasi Lake, Omineca Mining Division, British Columbia, N.T.S. 94C, Fort Grahame, Latitude  $124^{\circ}58'$  ; Longitude  $56^{\circ}03'$  and owned by and on behalf of Pechiney Development Ltd.

Field work between August 7 and August 16, 1973

Department of Mines and Technical Resources ASSESSMENT REPORT NO. <b>4620</b> MAP	
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Report by

J.P. Guelpa,  
Geologist

September 27, 1973

Mining Recorder's Office REC'D 1973 OCT 5 1973 AT SMITHERS, B.C.
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*J.P. Guelpa*  
*1500*



General Location of GREG Claims  
 Department of  
 Mines and Petroleum Resources  
 (Sheet 94C)

Scale: 1" = 4 miles  
 ASSESSMENT REPORT  
 NO. 4620 MAP #7

TABLE OF CONTENTS

	<u>Page</u>
CLAIMS - LOCATION - ACCESS	1
TOPOGRAPHY	2
WORK DONE	2
RESULTS	
1. Geology	3
2. Magnetometer Survey	4
SOIL SAMPLING SURVEY	5
INTERPRETATION AND CONCLUSIONS	6

APPENDIX

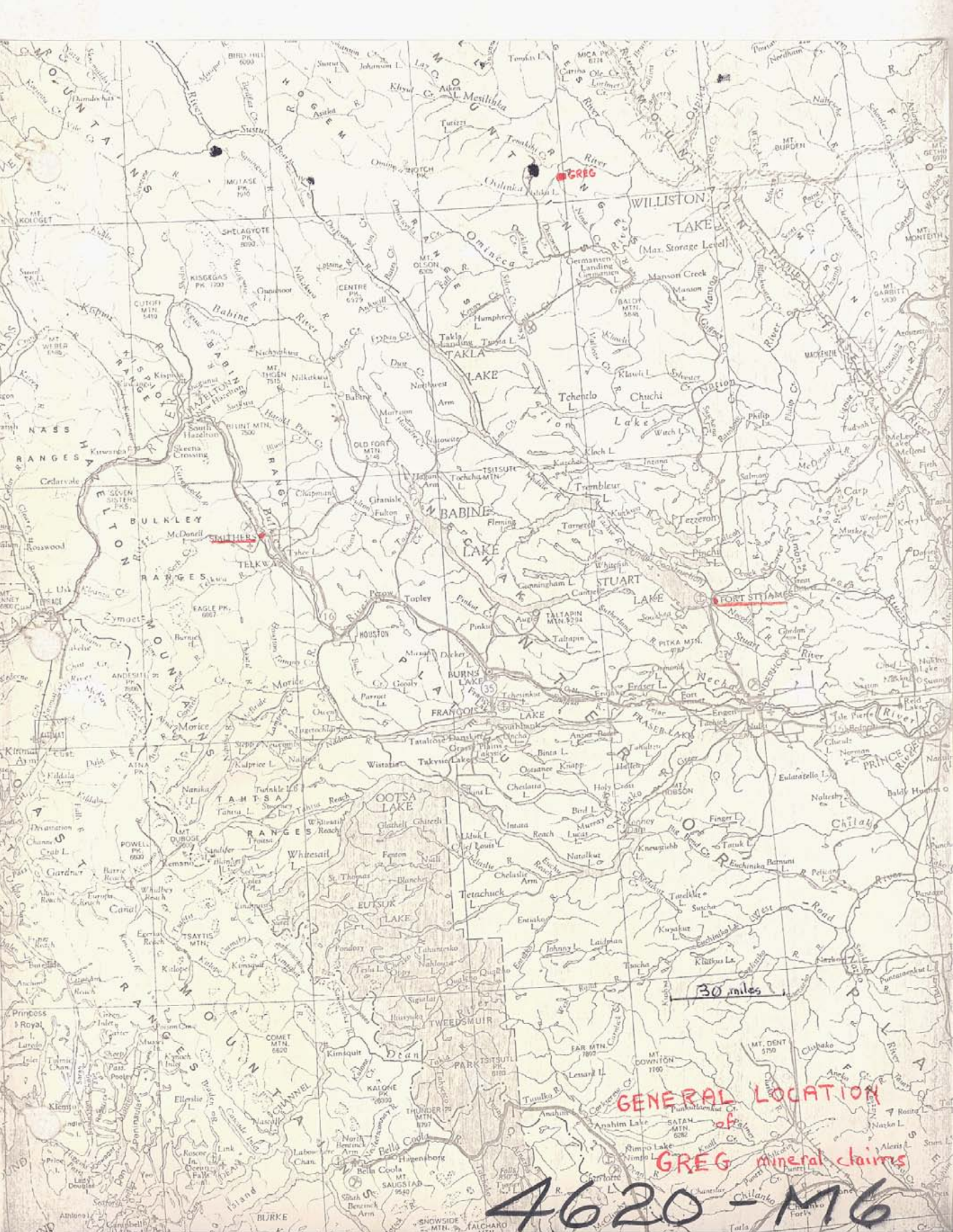
- I GEOCHEMICAL SHEETS
- II CERTIFICATES
- III COST BREAKDOWN

MAPS

- 1 #1 GEOLOGY
- 2 #2 MAGNETOMETER SURVEY
- 3 #3 SOIL SAMPLING GEOCHEMISTRY
- 4 #4 SOIL SAMPLING: CONTOUR MAP OF LEAD
- 5 #5 SOIL SAMPLING: CONTOUR MAP OF ZINC
- #6 General claims location
- #7 " " " "

1" = 30 mi.  
1" = 4 mi.





GREG

SMITHERS

FORT ST. JAMES

30 miles

GENERAL LOCATION  
of  
GREG mineral claims

4620 - M6



CLAIMS - LOCATION - ACCESS

The GREG group of claims is composed of 10 contiguous full-sized claims which are recorded as follows:

<u>Claim Name</u>	<u>Record No.</u>
GREG 1	116 480
GREG 2	116 481
GREG 3	116 482
GREG 4	116 483
GREG 5	116 484
GREG 6	116 485
GREG 11	116 486
GREG 12	116 487
GREG 13	116 488
GREG 14	116 489

The claim group is situated 2 miles NE of Wasi Lake; its coordinates are  $56^{\circ}03'$ ,  $124^{\circ}58'$ .

Access to the claims is by helicopter from Germansen Landing, 36 miles to the southeast.

### TOPOGRAPHY

Steep slopes are prevalent on most of the property which is entirely timbered. The property lies between 5000' and 5800' of elevation.

### WORK DONE

The claims were staked in 1972 following the finding of anomalous Zn and Ag silt samples values in a small creek draining the area.

In 1973 a preliminary exploration program was carried out to evaluate these anomalies. This program consisted of geological mapping, soil sampling and magnetometer survey.

The work was planned by J.P. Guelpa and carried out by a crew of two 1973 graduate students of U.B.C., Robert Menzies and Greg Shea, between the 7th and 16th of August 1973.

A control grid was established using a compass and a Topofil Chaix which allows accurate measurements of distance. Lines were run 400 feet apart and soil samples were collected every 100 feet.



Whenever a sample station happened to be on outcrops, a rock sample was taken instead of a soil sample. Soil samples were collected with an auger from the B horizon. 307 soil and rock samples were collected and sent to Min-En Laboratories for analysis. Samples were analysed for Cu, Pb, Zn, Ag and Mn by the atomic absorption method.

The magnetometer survey was carried out along the same lines using a SHARP MF1 magnetometer which gives the vertical component of the magnetic field. Readings were taken every 100 feet.

## RESULTS

### 1) Geology (see map # 1)

Two main units were found on the property: a sedimentary unit and a volcanic unit.

The sedimentary unit consists of limestone, the thickness of which is unknown, but which probably ranges from 100 to 400 feet given that it forms major cliffs to the north (outside the property boundaries).

The limestone is massive and fine grained and generally impure as indicated by its blackish colour. Locally it is coarse grained and shows some evidence of recrystallization.

The volcanic rocks include andesitic tuffs and flows, dacite and siltstone intercalations. None of these rocks display any significant features. There is only some evidence of a widespread but weak fracturing and alteration as expressed by chlorite edged quartz veinlets and also as irregular silicification.

No limestone-volcanic contact has been observed.

2) Magnetometer Survey (see map # 2)

The magnetometer survey roughly reflects the limestone-volcanic contact; however, no significant anomaly can be outlined.

The limestone background ranges between 600 and 700 . Several minor negative anomalies appear on GREG # 1, # 5 and # 6. A narrow positive anomaly stretches along the GREG # 11 and GREG # 13 boundary.

The background of the volcanics ranges between 1200 and 1300 .



SOIL SAMPLING SURVEY (see maps # 3, 4, 5)

Map # 3 gives the result of the soil sample survey. For convenience Mn values were not plotted; they can be studied on the geochemical sheets provided in Appendix # 1.

When studying these results, it appears clearly that high manganese soil contents can interfere with other metal values and can bring them up in a noticeable way. However, in all of the cases observed those of the metal values which are associated with high manganese contents ( 1500 ppm) belong to series where other metal values are also clearly anomalous. Without an extensive study bearing on a great number of samples it would be arbitrary to estimate to which extent manganese does interfere. For this reason we disregarded Mn values in contouring lead and zinc values on map # 4 and # 5. Consequently these maps should be considered only as illustration and should be studied along with the geochemical sheets.

It appears that a lead-zinc-silver anomaly roughly coincides with the limestone-volcanic contact. However, the anomalous values are mostly located over the limestone itself. Zinc and lead values are fairly consistent along the three northernmost lines while silver values seem more erratic.

INTERPRETATION AND CONCLUSIONS

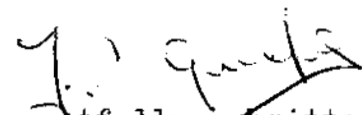
The property displays a lead-zinc-silver anomaly which may be genetically related to the proximity of a limestone-volcanic contact. Although no geological evidence of such mineralization has been discovered, we believe that it does exist in light of

- a) the good consistency of soil sampling results
- b) the absence of glacial overburden in the anomalous areas

We recommend that the next steps be taken in assessing the geochemical anomaly:

- a) extension to the north of the control grid
- b) trenching of the most promising zones resulting from the comparison study of map # 4 and map # 5.



  
Respectfully submitted,  
J.P. Guelpa,  
Geologist



APPENDIX I

GEOCHEMICAL SHEETS

Sample Number	Date				X	Y	Elev	Fract Number	Map Number	Depth	T <sub>25</sub>	X <sub>100m</sub>	Horizon	Dist	E <sub>1</sub>	Width	Depth	Velocity	Slope	
	6	7	8	10																
3-3023	1	1	08				2054:89			22	123	4	13	13						0.6
3-3024										21	135	4	1	1						0.5
3-3025										21	135	4	1	13						0.6
3-3026										21	135	4	1	12						0.6
3-3027										21	123	4	1	2						0.5
3-3028										21	135	4	1	25						0.7
3-3029										21	135	4	1	12						0.5
3-3030										21	135	4	1	12						0.5
3-3031										21	135	4	1	25						0.8
3-3032										21	135	14	1	2						0.6
3-3033										21	135	14	1	1						0.8
3-3034										21	135	41	13	23						0.8
3-3035										21	135	41	1	2						0.5
3-3036										21	135	41	1	2						0.8
3-3037										21	135	41	1	12						0.5
3-3038										21	135	41	1	12						0.6
3-3039										21	135	41	1	21						0.8
3-3040										21	135	41	1	24						0.6
3-3041										21	135	14	1	12						0.9
3-3042										21	135	41	1	21						1.0
3-3043										21	135	41	1	12						0.6
3-3044										21	135	41	1	21						0.8
3-3045										21	135	41	1	21						0.6
3-3046										21	135	41	1	21						0.6
3-3047										21	135	41	1	12						0.6
3-3048										21	125	14	13	2						1.5

Sample Number	6	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80
3-3023			35	15	52			12					500			
24			23	15	67			11					540			
25			17	15	67			12					480			
26			24	15	47			12					570			
27			23	21	65			11					450			
28			30	31	95			10					500			
29			37	52	161			12					710			
30			30	19	85			10					600			
31			14	16	53			09					360			
32			26	15	58			10					430			
33			29	16	71			12					620			
34			19	18	65			14					460			
35			18	15	59			14					490			
36			26	18	76			14					850			
37			26	18	91			14					610			
38			53	24	108			17					1140			
39			32	16	75			14					760			
40			21	13	58			13					500			
41			20	16	73			13					600			
42			18	15	54			13					530			
43			23	15	82			13					650			
44			16	15	54			13					670			
45			25	15	68			13					580			
46			30	16	116			24					1040			
47			46	23	120			14					930			
3-3048			40	27	142			16					1070			

CERTIFIED BY

*A. Hanks*

Sample Number	Date		X	West East	Y	South North	Photo Number	Map Number	Type Charact.	Texture	Origin	Horizon	Color	pH	Eh	Width	Depth	Velocity	Slope			
	D	M																				
3-3310	6	7	8	10	Line	16	Station	22	29	26	37	38	41	44	46	48	50	54	56	58	59	62
3-3310	1	5	08		8L8N		23E	2054	189		2	1	35	12	1	12				0.7		
3-3311							22E				2	1	35	124	1	21				0.7		
3-3312							21E				2	1	35	124	1	21				0.6		
3-3313							20E				2	1	35	12	1	21				0.7		
3-3314							19E				2	1	35	12	1	21				0.7		
3-3315							18E				2	1	35	214	1	12				0.5		
3-3316							17E				2	1	35	214	1	12				0.5		
3-3317							16E				2	1	35	214	1	21				0.7		
3-3318							15E				2	1	23	1	13	2				1.0		
3-3319							14E				2	1	235	124	1	2				0.6		
3-3320							13E				2	1	35	124	1	21				0.8		
3-3321							12E				2	1	35	124	13	23				0.9		
3-3322							11E				2	1	235	124	31	32				0.9		
3-3323							10E				2	1	35	124	13	23				0.9		
3-3324							9E				2	1	23	12	1	2				0.8		
3-3325							8E				2	1	23	124	31	32				1.0		
3-3326							7E				2	1	23	412	1	14				0.9		
3-3327							6E				2	1	23	412	1	12				1.5		
3-3328							5E				2	1	25	41	1	1				1.2		
3-3329							4E				2	1	23	412	1	2				0.5		
3-3330							3E				2	1	25	41	1	12				1.0		

Sample Number	6	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80
3-3310			31	11	58			0.9					500			
11			27	10	61			0.6					430			
12			27	10	54			0.6					840			
13			24	11	63			0.6					270			
14			52	11	75			0.9					560			
15			33	12	61			0.8					340			
16			54	10	80			1.1					510			
17			18	10	52			0.6					210			
18			110	14	113			1.2					1080			
19			25	9	55			1.0					230			
20			30	9	58			0.9					420			
21			22	10	56			0.8					230			
22			21	6	43			0.5					150			
23			32	9	56			2.6					360			
24			26	10	57			1.0					400			
25			25	10	59			0.8					380			
26			21	9	54			1.1					340			
27			22	10	60			1.0					340			
28			2.7	10	51			0.8					290			
29			1.7	10	43			0.7					240			
3-3330			2.7	10	61			0.7					360			



Sample Number	Date		X	West East	Y	South North	Photo Number	Map Number	Type	Charact.	Texture	Origin	Horizon	Color	pH	Eh	Width	Depth	Velocity	Slope	
	D	M																			Line
3-3280	1508	06	13N			23E	2054:89			21	135	21	121					0.5			+
3-3281						24E				21	135	12	121					0.7			+
3-3282						25E				21	135	12	121					0.8			+
3-3283						26E				21	135	21	121					0.8			+
3-3284						27E				21	235	12	12					0.7			+
3-3285						28E				21	135	12	121					0.6			+
3-3286						29E				21	135	12	121					1.0			+
3-3287						30E				21	135	12	121					0.7			-
3-3288						31E				21	135	124	121					0.8			-
3-3289						32E				21	135	124	12					0.9			-
3-3290						33E				21	135	124	121					0.7			+
3-3291						34E				21	123	12	12					0.8			+
3-3292						35E				21	123	12	121					0.7			+
3-3293						36E				21	123	12	121					0.7			+
3-3294						37E				21	123	12	121					0.7			+
3-3295						38E				21	123	12	121					0.7			+
3-3296			06	13N		37E				21	235	12	23	23				0.4			-
3-3297						36E				21	235	12	21	12				0.6			+
3-3298						35E				21	235	12	2	2				0.5			-
3-3299						34E				21	135	12	21	2				0.5			-
3-3300						33E				21	135	12	12	21				0.6			-
3-3301						32E				21	235	12	1	2				0.5			+
3-3302						31E				21	235	12	1	2				0.6			-
3-3303						30E				21	123	12	121					0.6			-
3-3304						29E				21	135	12	121					0.6			-
3-3305						28E				21	135	124	121					0.6			-
3-3306						27E				21	135	124	121					0.5			-
3-3307						26E				21	135	124	121					0.5			-
3-3308						25E				21	135	124	121					0.7			-
3-3309						24E				21	135	124	121					0.6			-

Sample Number	6	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80
3-3280			60	47	132			12					540			
81			28	16	65			13					390			
82			69	15	62			12					570			
83			23	14	44			10					270			
84			35	16	65			11					400			
85			39	17	66			14					510			
86			24	18	63			14					390			
87			33	18	73			17					430			
88			34	19	59			14					430			
89			20	18	57			0.8					320			
90			24	16	47			1.0					400			
91			26	17	60			1.1					470			
92			31	18	62			1.2					500			
93			25	17	53			1.1					400			
94			28	16	53			0.9					520			
95			20	15	47			0.9					490			
96			19	16	50			1.0					340			
97			66	17	66			1.5					760			
98			69	16	60			1.4					1120			
99			25	16	55			1.1					630			
300			25	15	50			1.0					580			
01			40	18	69			1.4					460			
02			47	16	76			1.2					790			
03			37	13	69			1.2					530			
04			33	12	58			1.2					550			
05			20	14	43			1.0					400			
06			39	13	63			1.2					670			
07			16	12	43			0.8					300			
08			32	12	60			1.1					610			
3-3309			27	12	51			0.9					410			

Sample Number	Date		X West East	Y South North	Photo Number	Map Number	Type	Texture	Origin	Horizon	Color	pH	Eh	Width	Depth	Velocity	Slope	
	D	M																
7	8	10	Line	Station	29	36	37	38	41	44	46	48	50	54	56	58	60	62
3-3251	1408		BL17N	12E	2054		21	123	12	1	2				0.9			
3-3252				11E			21	135	12	1	2				0.9			
3-3253				10E			21	135	12	1	2				0.7			
3-3254				9E			21	135	12	1	2				0.7			
3-3255				8E			21	135	12	1	2				0.8			
3-3256				7E			21	135	12	1	2				0.8			
3-3257				6E			21	135	12	1	2				0.8			
3-3258				5E			21	135	124	1	2				0.7			
3-3259				4E			21	135	124	1	2				0.6			
3-3260				3E			21	123	21	1	2				1.0			
3-3261	1508		BL13N	3E			21	135	41	1	2				0.7			
3-3262				4E			21	135	41	2	1	2			0.7			
3-3263				5E			21	135	41	2	1	2			0.6			
3-3264				6E			21	135	41	2	1	2			0.6			
3-3265				7E			21	135	41	2	1	2			0.7			
3-3266				8E			21	135	124	1	2				0.6			
3-3267				9E			21	135	21	1	2				0.8			
3-3268				10E			21	135	21	1	2				0.6			
3-3269				11E			21	135	21	1	2				0.8			
3-3270				12E			21	135	21	1	2				0.6			
3-3271				14E			21	135	12	1	2				0.6			
3-3272				15E			21	135	12	2	1	2			0.3			
3-3273				16E			21	135	12	1	2				0.7			
3-3274				17E			21	135	21	1	2				0.6			
3-3275				18E			21	135	21	1	2				0.6			
3-3276				19E			21	123	12	1	1				0.6			
3-3277				20E			21	235	21	4	2	3	2		0.4			
3-3278				21E			21	135	21	4	1	2	3		0.6			
3-3279				22E			21	135	21	1	2				0.7			

Sample Number	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ni ppm	Co ppm	Ag ppm	Fe ppm	Hg ppb	As ppm	Mn ppm	Au ppm	70	75	80
81	86	90	95	100	105	110	115	120	125	130	135	140	145	150	160
3-3251		30	340	545			20				950	.			
5.2		22	275	240			2.6				730	.			
5.3		32	81	250			1.4				380	.			
5.4		24	225	170			1.2				980	.			
5.5		21	185	235			1.4				750	.			
5.6		22	27	195			1.0				360	.			
5.7		20	21	70			1.0				300	.			
5.8		61	23	116			1.6				600	.			
5.9		66	37	142			2.0				730	.			
3-3260		17	12	57			1.0				350	.			
3-3261		18	13	53			0.9				320	.			
6.2		16	13	49			1.0				260	.			
6.3		15	12	47			1.1				250	.			
6.4		15	12	49			0.8				270	.			
6.5		64	21	101			1.6				620	.			
6.6		52	16	83			1.1				440	.			
6.7		12	19	67			0.9				240	.			
6.8		15	14	65			0.8				270	.			
6.9		15	68	107			1.1				260	.			
7.0		14	28	340			1.0				360	.			
7.1		33	25	105			1.1				380	.			
7.2		17	1080	185			1.3				1300	.			
7.3		21	21	105			1.0				280	.			
7.4		69	158	138			1.9				740	.			
7.5		53	22	113			1.3				600	.			
7.6		44	170	480			1.4				530	.			
7.7		44	105	1780			1.8				730	.			
7.8		23	305	1060			3.2				1040	.			
3-3279		36	300	650			1.9				730	.			

CERTIFIED BY *A. Rankin*



Sample Number	Date		X	West East	Y	South North	Photo Number	Map Number	Type	Charact.	Texture	Origin	Horizon	Color	pH	Eh	Width	Depth	Velocity	Slope
	D	M																		
3-3221	14	08		B-21N		33E	2054:89			2	135	42	121					0.6		+
3-3222						34E				2	135	42	121					0.6		+
3-3223						35E				2	135	42	121					0.5		+
3-3224						36E				2	135	42	1323					0.6		+
3-3225						37E				2	135	42	121					0.6		+
3-3226				B-17N		37E				2	135	12	124					1.0		-
3-3227						36E				2	135	12	12					0.9		-
3-3228						35E				2	135	12	121					0.8		-
3-3229						34E				2	135	12	121					0.9		-
3-3230						33E				2	135	12	12					0.9		-
3-3231						32E				2	135	12	12					0.9		-
3-3232						31E				2	134	12	3152					0.9		-
3-3233						30E				2	135	12	1323					0.9		-
3-3234						29E				2	135	12	12					0.9		-
3-3235						28E				2	135	12	121					1.0		-
3-3236						27E				2	135	12	121					0.9		-
3-3237						26E				2	135	12	12					1.0		+
3-3238						25E				2	135	12	121					0.9		-
3-3239						24E				2	135	12	12					1.0		-
3-3240						23E				2	135	12	121					1.0		-
3-3241						22E				2	135	12	121					0.9		-
3-3242						21E				2	135	12	1323					0.9		+
3-3243						20E				2	135	12	12					1.0		+
3-3244						19E				2	135	12	121					0.8		-
3-3245						18E				2	135	12	131					0.9		-
3-3246						17E				2	135	12	12					0.9		-
3-3247						16E				2	135	12	12					0.9		-
3-3248						15E				2	135	12	1323					0.8		-
3-3249						14E				2	135	12	12					1.0		-
3-3250						13E				2	135	12	121					0.8		-

COLLECTOR: SHEA

Sample Number	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ni ppm	Co ppm	Ag ppm	Fe ppm	Hg ppb	As ppm	Mn ppm	Au ppm				
3-3221		35	23	123			1.3				500	.				
22		29	46	190			1.6				460	.				
23		30	35	215			1.4				490	.				
24		53	51	106			1.4				450	.				
25		30	20	96			1.3				480	.				
26		34	16	54			1.3				770	.				
27		17	18	42			1.1				300	.				
28		32	16	65			1.4				530	.				
29		26	20	67			1.2				400	.				
30		17	22	124			1.1				450	.				
31		25	27	123			1.0				370	.				
32		58	165	1150			1.7				1000	.				
33		22	121	320			1.2				400	.				
34		28	60	128			1.0				510	.				
35		43	15	100			1.4				600	.				
36		56	36	140			1.3				620	.				
37		24	22	76			1.0				260	.				
38		33	76	240			1.2				470	.				
39		36	285	800			1.7				840	.				
40		49	78	360			1.3				520	.				
41		32	63	315			1.4				600	.				
42		33	20	86			1.0				360	.				
43		20	17	61			1.1				270	.				
44		31	23	200			1.2				600	.				
45		17	195	110			1.0				520	.				
46		41	1250	180			3.3				1080	.				
47		34	290	255			1.4				860	.				
48		26	400	515			2.0				700	.				
49		26	1120	1000			2.1				1200	.				
3-3250		17	52	230			0.9				340	.				

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COLLECTOR: SHEA

Sample Number	Date		X West East	Y South North	Photo Number	Map Number	Type Charact.	Texture	Origin	Horizon	Color	PH	Eh	Width	Depth	Velocity	Slope +
	D	M															
3-3191	7	8	BL21N		2054189		21	135	214	121					0.4		
3-3192							21	135	12	223					0.4		+
3-3193							22	135	12	2	2				0.2		+
3-3194							21	135	124	2	2				0.4		+
3-3195							21	135	2142	21					0.5		+
3-3196							21	123	2142	2					0.5		+
3-3197							21	135	2142	2					0.6		+
3-3198							21	235	124	121					0.7		+
3-3199							21	135	124	1	2				0.9		+
3-3200							21	235	12	123					0.7		+
3-3201							21	235	12	1	2				0.8		+
3-3202							21	135	12	121					0.7		+
3-3203							21	135	12	121					0.7		+
3-3204							21	135	12	1	2				0.7		+
3-3205							21	135	41	1	2				0.8		+
3-3206							21	123	41	1	2				0.8		+
3-3207							21	135	14	1	2				0.7		+
3-3208							21	235	12	1	2				0.8		+
3-3209							21	135	12	1	2				0.7		+
3-3210							21	123	124	3	2				0.9		+
3-3211							21	135	124	1	2				0.8		+
3-3212							21	123	214	1	2				0.9		+
3-3213							21	135	214	1323					0.8		+
3-3214							22	235	41	121					0.6		+
3-3215							21	135	42	121					0.6		+
3-3216							21	135	42	121					0.6		+
3-3217							21	135	42	121					0.6		+
3-3218							21	135	42	1	2				0.8		+
3-3219							21	135	24	121					0.8		+
3-3220							21	135	124	1	1				0.5		+

Sample Number	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ni ppm	Co ppm	Ag ppm	Fe ppm	Hg ppb	As ppm	Mn ppm	Au ppm				
3-3191		35	114	96			13				890					
92		17	76	118			20				1160					
93		19	170	220			19				1830					
94		15	1280	210			20				1900					
95		34	1120	330			24				1540					
96		12	445	700			27				3450					
97		18	175	450			24				2950					
98		25	98	420			25				3900					
99		18	130	300			17				1180					
3-3200		30	18	64			10				270					
01		44	31	92			11				360					
02		36	32	108			10				410					
03		28	28	91			09				330					
04		14	205	1230			11				530					
05		21	245	460			24				700					
06		35	410	290			15				1070					
07		31	100	235			11				560					
08		30	23	83			09				340					
09		39	35	185			09				480					
10		27	390	1000			12				760					
11		31	330	650			19				760					
12		29	270	620			12				1050					
13		33	930	3600			30				1600					
14		34	295	850			25				800					
15		51	705	2000			24				1040					
16		28	1090	4600			25				2000					
17		24	131	850			11				480					
18		34	195	780			14				670					
19		40	56	305			11				580					
3-3220		48	16	86			11				510					

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Sample Number	Date		X	West East	Y	South North	Photo Number	Map Number	Type	Character	Texture	Origin	Horizon	Color	pH	Eh	Width	Depth	Velocity	Slope	
	D	M																			
3-3168	8	10		BL25N		24E	R054189		22	135	214	112								0.7	
3-3169						23E			21	135	214	113	2							0.6	
3-3170						22E			22	135	214	3223								0.3	
3-3171						21E			22	135	214	3223								0.5	
3-3172						20E			21	135	214	3123								0.5	
3-3173						19E			22	135	214	3123								0.6	
3-3174						18E			22	135	214	3123								0.4	
3-3175						17E			21	135	214	3223								0.5	
3-3176						16E			22	135	214	3223								0.5	
3-3177						15E			21	135	214	3223								0.4	
3-3178						14E			22	135	214	3223								0.5	
3-3179						13E			22	135	214	3223								0.6	
3-3180						12E			22	135	214	3223								0.5	
3-3181						11E			21	135	214	1321								0.5	
3-3182						10E			21	135	214	1223								0.5	
3-3183						9E			21	135	214	121								0.6	
3-3184						8E			21	135	214	122								0.4	
3-3185						7E			21	125	214	12332								0.8	
3-3186						5E			21	125	214	112								1.0	
3-3187						4E			21	125	214	1323								1.0	
3-3188						3E			21	123	214	1313								1.0	
3-3189						2E			21	123	214	132								1.0	
3-3190						1E			21	123	214	1323								1.5	

COLLECTOR: SHEA

Sample Number	6 Mo	10 Mo	15 Cu	20 Pb	25 Zn	30 Ni	35 Co	40 Ag	45 Fe	50 Hg	55 As	60 Mn	65 Au	70	75	80
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm			
3-3168			17	1200	880			5.1				1020	.			
69			20	890	650			4.3				720	.			
70			12	700	525			1.9				790	.			
71			22	525	710			2.5				680	.			
72			18	520	700			2.4				660	.			
73			29	595	830			2.5				1030	.			
74			18	710	2900			3.5				1330	.			
75			19	665	715			3.3				1270	.			
76			17	350	950			2.5				1640	.			
77			8	105	165			2.1				580	.			
78			22	146	315			1.9				1070	.			
79			20	200	315			2.0				850	.			
80			22	123	460			1.6				1410	.			
81			26	405	775			1.9				1520	.			
82			22	240	665			2.8				840	.			
83			18	910	1050			3.7				1000	.			
84			12	575	800			2.3				1020	.			
85			8	600	265			3.5				1060	.			
86			16	305	635			1.7				1510	.			
87			14	960	700			1.7				1860	.			
88			20	205	245			1.7				1300	.			
89			20	305	395			1.6				1800	.			
3-3190			29	30	126			0.8				500	.			

CERTIFIED BY *A. Hank*

Sample Number	Date		X	West East	Y	South North	Photo Number	Map Number	Type	Character	Texture	Origin	Horizon	Color	pH	Eh	Width	Depth	Velocity	Slope
	D	M																		
3-3138	1308			B229N		16E	2054189			21135	14	1323						0.7		+
3-3139						17E				21135	41	1323						0.8		+
3-3140						18E				21135	41	1323						0.6		+
3-3141						19E				21135	41	1323						0.6		+
3-3142						20E				21135	14	1323						0.9		-
3-3143						21E				21123	41	1313						0.7		+
3-3144						22E				21315	41	1323						0.8		+
3-3145						23E				21135	41	1312						0.7		+
3-3146						24E				21135	41	1323						0.7		+
3-3147						25E				21135	41	1312						1.2		+
3-3148						26E				21135	41	1323						0.8		+
3-3149						27E				21135	41	1323						0.8		+
3-3150						28E				21135	41	121						0.7		+
3-3151						29E				21135	41	1323						0.7		+
3-3152						30E				21123	14	121						0.4		+
3-3153						31E				21135	14	1313						0.6		+
3-3154						32E				21135	41	112						0.5		+
3-3155						33E				21135	41	1325						1.0		+
3-3156						34E				21135	41	1325						1.2		+
3-3157						36E				21135	123	35						1.1		+
3-3158						36E				21135	17	1323						0.6		+
3-3159						34E				22123	12	2	2					0.5		-
3-3160						33E				21135	124	221						0.5		-
3-3161						32E				21135	124	221						0.5		-
3-3162						31E				21135	123	1321						0.4		-
3-3163						30E				21135	214	121						0.6		-
3-3164						29E				21135	214	121						0.6		-
3-3165						28E				21135	124	112						0.6		-
3-3166						27E				22125	124	18	2					0.5		-
3-3167						26E				22125	12	131						0.9		-

Sample Number	6	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80
	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ni ppm	Co ppm	Ag ppm	Fe ppm	Hg ppb	As ppm	Mn ppm	Au ppm				
3-3138		11	870	775				3.7				1030	.			
39		12	200	395				2.4				1080	.			
40		14	330	655				2.9				1090	.			
41		11	730	1660				4.0				850	.			
42		13	990	1800				4.2				890	.			
43		20	135	650				1.2				390	.			
44		24	2000	2900				2.8				1200	.			
45		13	530	700				3.4				525	.			
46		14	830	815				3.3				720	.			
47		12	790	650				3.6				660	.			
48		15	840	1190				4.0				1060	.			
49		16	640	3250				5.7				930	.			
50		34	265	1120				2.6				590	.			
51		23	615	2700				5.1				1280	.			
52		24	73	450				1.2				330	.			
53		14	32	150				0.7				200	.			
54		40	86	440				1.3				480	.			
55		20	335	1410				3.7				700	.			
56		13	195	1160				3.3				430	.			
57		24	155	510				2.1				570	.			
58		38	172	500				1.6				590	.			
59		22	210	890				1.6				1500	.			
60		34	225	1140				1.5				660	.			
61		26	230	1250				3.0				1050	.			
62		23	41	505				0.9				480	.			
63		31	165	980				1.8				460	.			
64		25	143	2100				2.9				650	.			
65		38	25	190				1.1				480	.			
66		21	460	1230				2.5				1600	.			
3-3167		19	1800	10000				7.5				1230	.			



COLLECTOR: SHEA

Sample Number	Date			X	West East	Y	South North	Photo Number	Map Number	Type	Charact.	Texture	Origin	Horizon	Color	pH	Th	Width	Depth	Velocity	Slope	
	D	M	Y																			
3-3109	12	08	1968		8285		31E2054:89			22	123	122	1						0.5			-
3-3110							30E			22	135	12	12	12					0.6			-
3-3111							29E			22	135	12	21	12					0.7			-
3-3112							27E			21	135	12	21	12					0.5			-
3-3113							26E			21	135	21	12	12					0.5			-
3-3114							25E			21	135	21	12	12					0.6			-
3-3115							24E			21	135	21	12	12					0.4			-
3-3116							23E			21	135	21	12	12					0.6			-
3-3117							22E			21	135	21	12	12					0.6			-
3-3118							21E			21	135	21	12	12					0.4			-
3-3119							19E			22	135	21	12	12					0.6			-
3-3120							18E			21	125	21	13	12	3				1.5			-
3-3121							17E			21	125	21	13	21					1.0			-
3-3122	13	08	1968		8299					21	135	14	13	23					0.6			-
3-3123							11E			21	135	14	12	12					0.7			+
3-3124							2E			21	135	14	13	21					0.8			+
3-3125							3E			21	135	12	12	24					0.7			+
3-3126							4E			21	135	12	12	12					0.6			+
3-3127							5E			21	135	12	13	24					0.8			+
3-3128							6E			21	135	14	12	12					0.6			+
3-3129							7E			21	135	14	12	12					0.6			+
3-3130							8E			21	135	14	13	23					0.5			+
3-3131							9E			21	135	14	13	23					0.7			+
3-3132							10E			21	135	14	13	23					0.7			+
3-3133							11E			21	135	14	12	12					0.8			+
3-3134							12E			21	135	14	13	13					0.9			+
3-3135							13E			21	135	14	12	12					0.5			+
3-3136							14E			21	135	14	12	12					0.7			+
3-3137							15E			21	135	14	12	12					0.9			+

Sample Number	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ni ppm	Co ppm	Ag ppm	Fe ppm	Hg ppb	As ppm	Mn ppm	Au ppm				
3-3109		84	19	75			15				1190	.				
10		38	16	74			13				1000	.				
11		77	18	94			19				1110	.				
12		53	18	81			14				1210	.				
13		39	19	136			13				1200	.				
14		43	17	250			22				850	.				
15		64	18	115			13				710	.				
16		45	15	85			10				650	.				
17		37	16	118			17				690	.				
18		27	18	88			13				830	.				
19		64	21	162			13				1080	.				
20		36	26	166			14				1360	.				
3-3121		82	22	159			18				1030	.				
3-3122		12	19	81			09				350	.				
23		39	21	115			11				740	.				
24		26	117	325			15				1100	.				
25		21	195	700			21				1360	.				
26		56	390	460			47				1080	.				
27		14	635	595			20				1390	.				
28		17	980	3000			53				1060	.				
29		21	335	690			22				1240	.				
30		17	275	940			21				1020	.				
81		17	255	240			23				900	.				
32		7	175	95			24				650	.				
33		20	250	395			22				1180	.				
34		11	42	140			19				490	.				
35		14	123	585			26				1240	.				
36		10	64	520			23				680	.				
3-3137		19	185	670			41				1040	.				

CERTIFIED BY *A. Frank*





Sample Number	Date		X	West East	Y	South North	Photo Number	Map Number	Type	Charact.	Texture	Origin	Horizon	Color	pH	Eh	Width	Depth	Velocity	Slope	Rock	R. Sample	Min. +	
	D	M																						Line
3-3049	12	08	84	4N	17E	2054	189			21	125	1	121							0.5				
3-3050					18E					21	125	12	121							0.6	+			
3-3051					19E					21	125	1	121							0.6	+			
3-3052					20E					21	135	1	121							0.7	+			
3-3053					21E					21	135	12	1323							0.6	+			
3-3054					22E					21	135	12	125							1.0	+			
3-3055					23E					21	135	12	121							0.6	+			
3-3056					24E					21	135	12	12							0.6	+			
3-3057					25E					21	135	12	121							0.8	+			
3-3058					26E					21	125	12	121							0.8	+			
3-3059					27E					21	123	1	1212							0.5	+			
3-3060					28E					21	135	12	112							0.8	+			
3-3061					29E					21	135	12	121							0.8	+			
3-3062					30E					21	123	12	1321							0.8	+			
3-3063					31E					21	135	12	121							0.8	+			
3-3064					32E					21	135	12	112							0.6	+			
3-3065					33E					21	235	12	152							0.7	+			
3-3066					34E					21	123	12	121							0.9	+			
3-3067					35E					21	135	12	121							0.8	+			
3-3068					36E					21	135	12	112							0.8	+			
3-3069					37E					21	235	12	121							0.8	+			
3-3070					38E					21	135	12	121							0.6	+			
3-3071					37E					21	135	12	1323							0.7				
3-3072					36E					21	125	2	11							0.6	-			
3-3073					35E					21	135	2	12							0.6	-			
3-3074					34E					21	135	2	132							0.6	-			
3-3075					32E					21	125	2	121							0.9	-			
3-3076					31E					21	135	21	112							0.6	-			
3-3077					30E					21	135	21	1325							1.2	-			
3-3078					29E					21	135	21	123							0.9	-			

Sample Number	6	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80
	Mo	Cu	Pb	Zn	Ni	Co	Ag	Fe	Hg	As	Mn	Au				
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm
3-3049		104	21	110			19					780	.			
50		101	20	122			15					870	.			
51		46	17	71			18					630	.			
52		44	17	66			11					490	.			
53		120	26	225			19					870	.			
54		59	20	71			14					550	.			
55		97	16	80			15					800	.			
56		49	16	72			17					530	.			
57		44	17	67			14					540	.			
58		43	17	85			17					580	.			
59		67	17	86			14					760	.			
60		42	17	82			13					650	.			
61		40	19	74			12					920	.			
62		33	17	64			11					780	.			
63		47	18	73			13					680	.			
64		34	20	65			12					670	.			
65		50	18	75			13					740	.			
66		46	20	78			12					770	.			
67		22	19	55			11					440	.			
68		46	20	87			12					710	.			
69		33	18	63			11					570	.			
70		48	19	76			12					710	.			
71		28	20	66			12					750	.			
72		49	18	67			13					720	.			
73		75	21	110			15					860	.			
74		36	17	62			13					830	.			
75		83	18	89			14					840	.			
76		62	16	92			13					840	.			
77		110	21	104			13					1390	.			
3-3078		113	13	155			10					590	.			

CERTIFIED BY *A. Hanks*



Rock geochemistry

Sample Number	Date		X	West East	Y	South North	Photo Number	Map Number	Type	Charact.	Texture	Origin	Horizon	Color	pH	Eh	Width	Depth	Velocity	Slope	Rock	R. Sample	Min.		
	D	M																						Line	Station
3-8000	12	08	38E		+00		2054:89			3															
3-8001			33E		+00					3															
3-8002			21E		+00					3															
3-8003			17E		+4S					3															
3-8004			22E		+4S					3															
3-8005			27E		+4S					3															
3-8006			32E		+4S					3															
3-8007			37E		+4S					3															
3-8008			38E		+8S					3															
3-8009			33E		+8S					3															
3-8010			28E		+8S					3															
3-8011			20E		+8S					3															
3-8011A	13	08	35E		+29N					3															
3-8012			35E		+25N					3															
3-8013			25E		+25N					3															
3-8014			6E		+25N					3															
3-8015	14	08	3E		+21N					3															
3-8016			13E		+13N					3															
3-8017			38E		+8N					3															

Sample Number	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ni ppm	Co ppm	Ag ppm	Fe ppm	Hg ppb	As ppm	Mn ppm	Au ppm	70	75	80	
81	86	90	95	100	105	110	115	120	125	130	135	140	145	150	155	160
3-8000				30	68			29								
01				19	55			18								
02				31	79			30								
03				13	94			09								
04				33	94			10								
05				22	61			19								
06				24	71			24								
07				26	72			24								
08				33	71			20								
09				24	52			20								
10				27	48			25								
11				24	48			08								
11A				35	12			26								
12				38	5			26								
13				36	13			26								
14				37	10			17								
15				33	6			18								
16				39	6			28								
3-8017				37	71			25								

## APPENDIX II

### Personnel Certificates

- GUELPA, Jean Paul: Geologist, Graduate of University of Lyon, France, in 1966. Since graduation engaged in mineral exploration in Quebec with the Department of Natural Resources and since 1969 in B.C. with Mokta Canada Ltd. and at present with Pechiney Development Ltd.
- MENZIES, Robert: B.Sc., U.B.C. 1973. Three field seasons; experience in prospecting and geological mapping with Pechiney Development Ltd. (1971, 1972, 1973)
- SHEA, Gregory: B.Sc., U.B.C. 1973. Previous experience includes three field seasons (prospecting and geological mapping) with Pechiney Development Ltd. (1971, 1972, 1973)

APPENDIX III

Cost Breakdown

Geological survey	
R. Menzies 6 days @ \$ 25/day	\$ 150.00
J.P. Guelpa supervision 1 day @ \$ 50/day	50.00
Geophysical survey	
G. Shea 4 days @ \$ 25/day	\$ 100.00
Magnetometer rental	50.00
Geochemical survey	
G. Shea 4 days @ \$ 25/day	100.00
R. Menzies 2 days @ \$ 25/day	50.00
Sample analysis	
307 soil samples (nr 3023 through 3320) analysed for Cu, Pb, Zn, Ag, Mn by Min-en laboratories 307 @ \$ 3.20	982.40
19 rock samples analysed for Cu, Pb, Zn 19 @ \$ 2.40	45.60
Typing and drafting	<u>100.00</u>
<p style="text-align: center;">T o t a l</p>	<p style="text-align: right;">\$ 1,628.00</p> <p style="text-align: right;">=====</p>

\$ 1,628 to apply to the GREG group of claims for one year assessment.

Declared before me at the City  
of Vancouver, in the  
Province of British Columbia, this 2  
day of October 1973.

*J.P. Guelpa*

J.P. Guelpa  
J.P. Guelpa,  
Geologist

Jan Turner  
A Commissioner for taking Affidavits within British Columbia  
A Notary Public in and for the Province of British Columbia

SUB-MINING RECORDER

*B. Beetham*



# GREG CLAIMS

## GEOLOGY

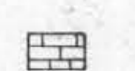
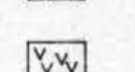
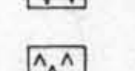

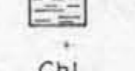
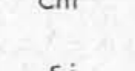

To accompany assessment report by J.P. Guépin, geologist, on the Greg group of claims, situated at Vasi Lake, Omineca Mining Division, dated September 27, 1973. J.P.G.

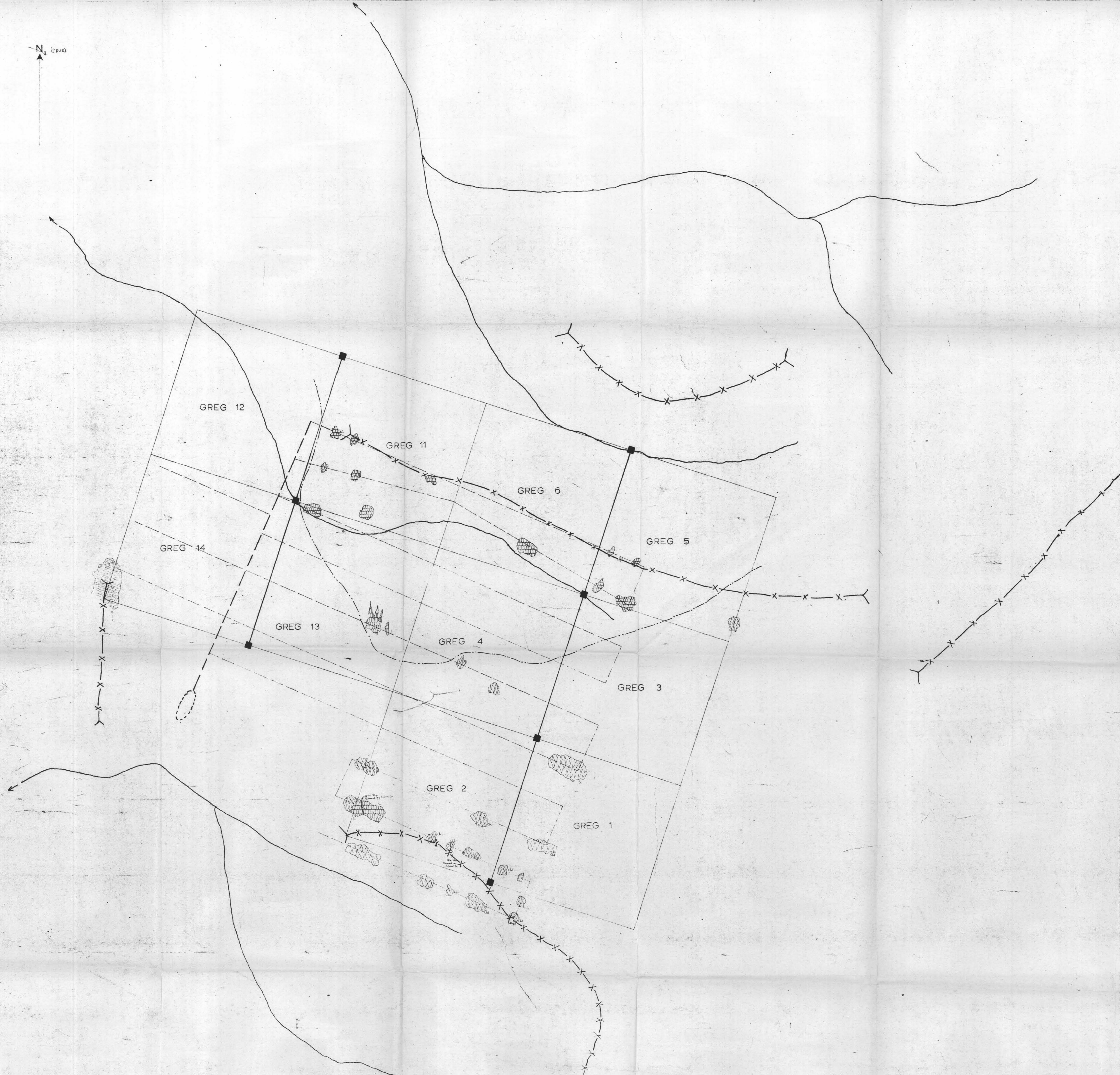
Department of  
Mines and Petroleum Resources  
ASSESSMENT REPORT  
NO. 4620 MAP #1

SCALE: 1" = 300'

SEPT 1973

### LEGEND

-  Limestone
-  Andesitic Flows and Tufts
-  Dacite
-  Siltstone
-  Chl Chloritization
-  Sil Silicification
-  Approximate geological contact between Limestone and Volcanics



4620  
M1



# GREG CLAIMS

## MAGNETOMETER SURVEY

To accompany assessment report by J.P. Guelin, geologist, on the Greg group of claims, situated at Vasi Lake, Guinea Mining Division, dated September 27, 1973.

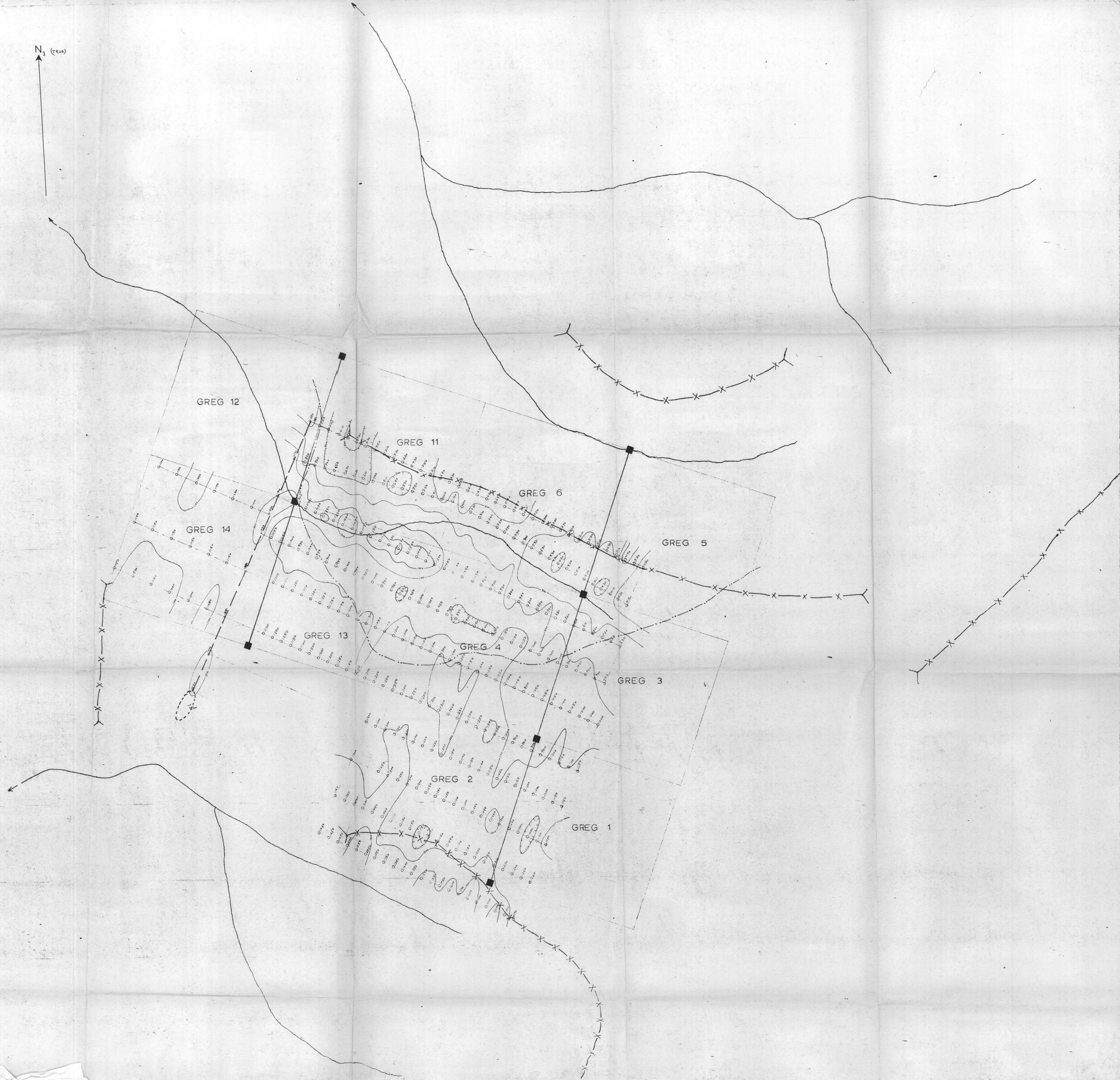
Department of  
Mines and Petroleum Resources  
ASSESSMENT REPORT  
NO. 4620 M.S.P. #2

SCALE: 1" = 300'

SEPT 1973

### LEGEND

- 1320 RELATIVE VERTICAL COMPONENT OF MAGNETIC FIELD IN GAMMAS
- ISOGAM 1000 J



4620  
M2



# GREG CLAIMS

## GEOCHEMISTRY

To accompany assessment report by J.P. Guelpa, geologist, on the Greg group of claims, situated at Vass Lake, Guinea Mining Division, dated September 27, 1973. *J.P. Guelpa*

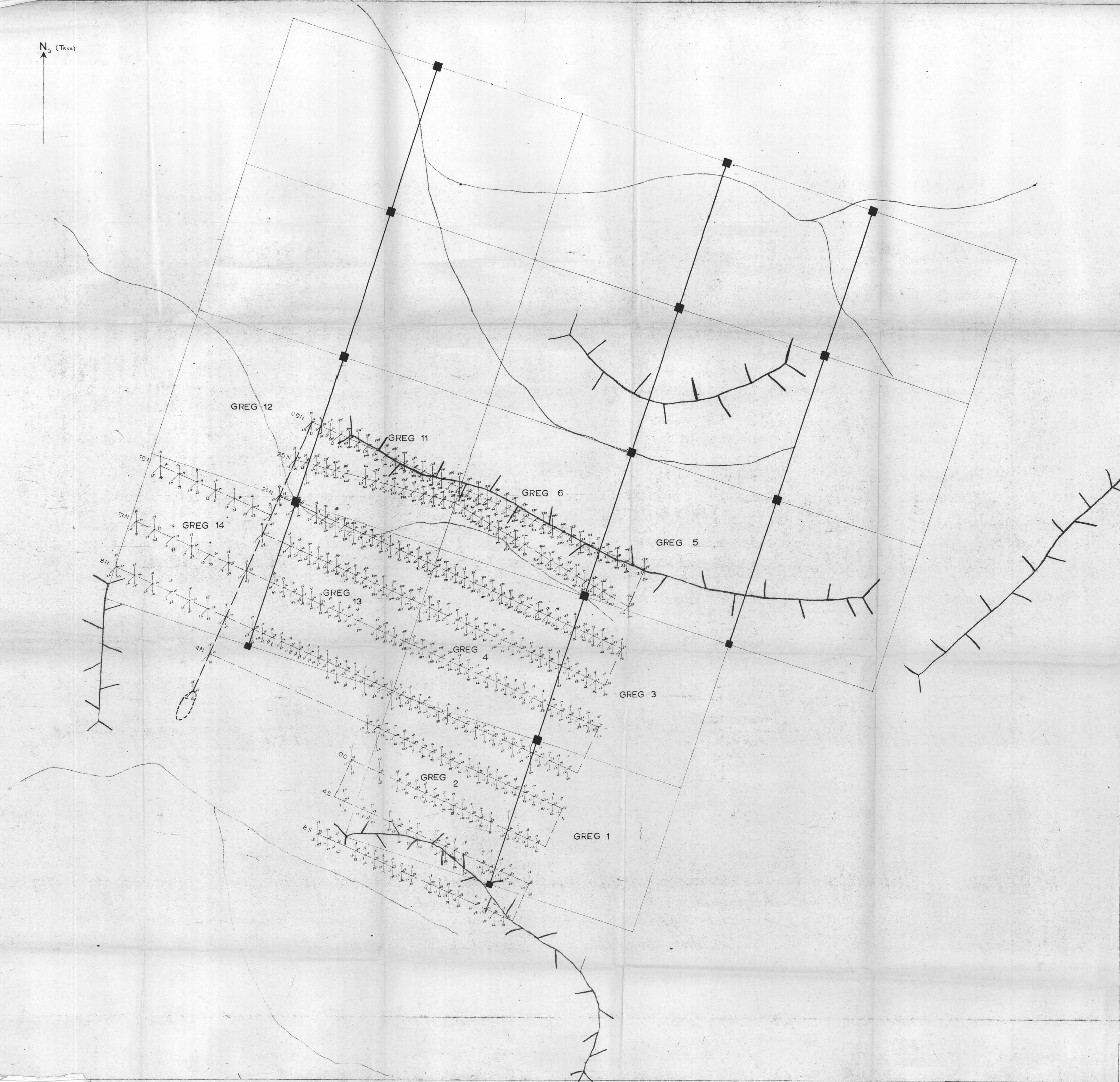
Department of Mines and Petroleum Resources  
ASSESSMENT REPORT  
NO. 4620 MAP #3

SCALE: 1" = 300'  
DATE: September 27, 1973  
BY: J.P. Guelpa

### LEGEND

- CLAIM POST
- CLAIM LOCATION LINE
- CLAIM BOUNDARY LINE
- - - BASE LINE
- - - SAMPLING LINE
- MEADOW (CAMPSITE)
- STREAM (FLOW INDICATED)
- RIDGE CREST
- |    |
|----|
| Pb |
| Cu |
| Ag |
| Zn |

 METAL VALUES in ppm



4620  
M3



### GREG CLAIMS

### CONTOUR MAP OF LEAD

To accompany assessment report by J.P. Guelpa, geologist, on the Greg group of claims, situated at Vasi Lake, Ontario Mining Division, dated September 27, 1973

Department of  
Mines and Petroleum Resources  
ASSESSMENT REPORT  
NO. 4620 MAP #4

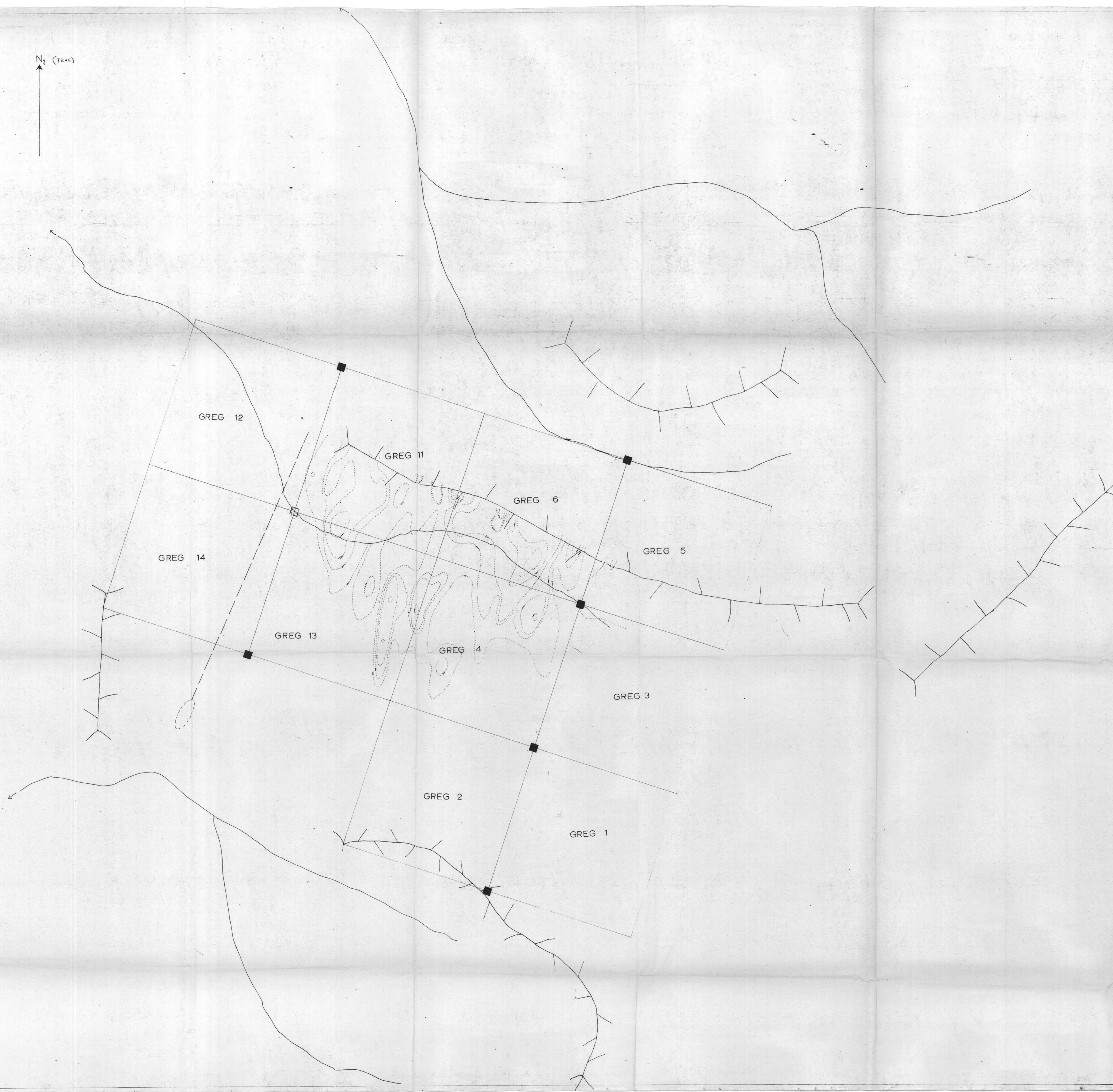
*J.P. Guelpa*

SCALE: 1" = 300'

SEPT 1973

#### LEGEND

○ ISOGRADE 500 ppm



4620  
M4



### GREG CLAIMS

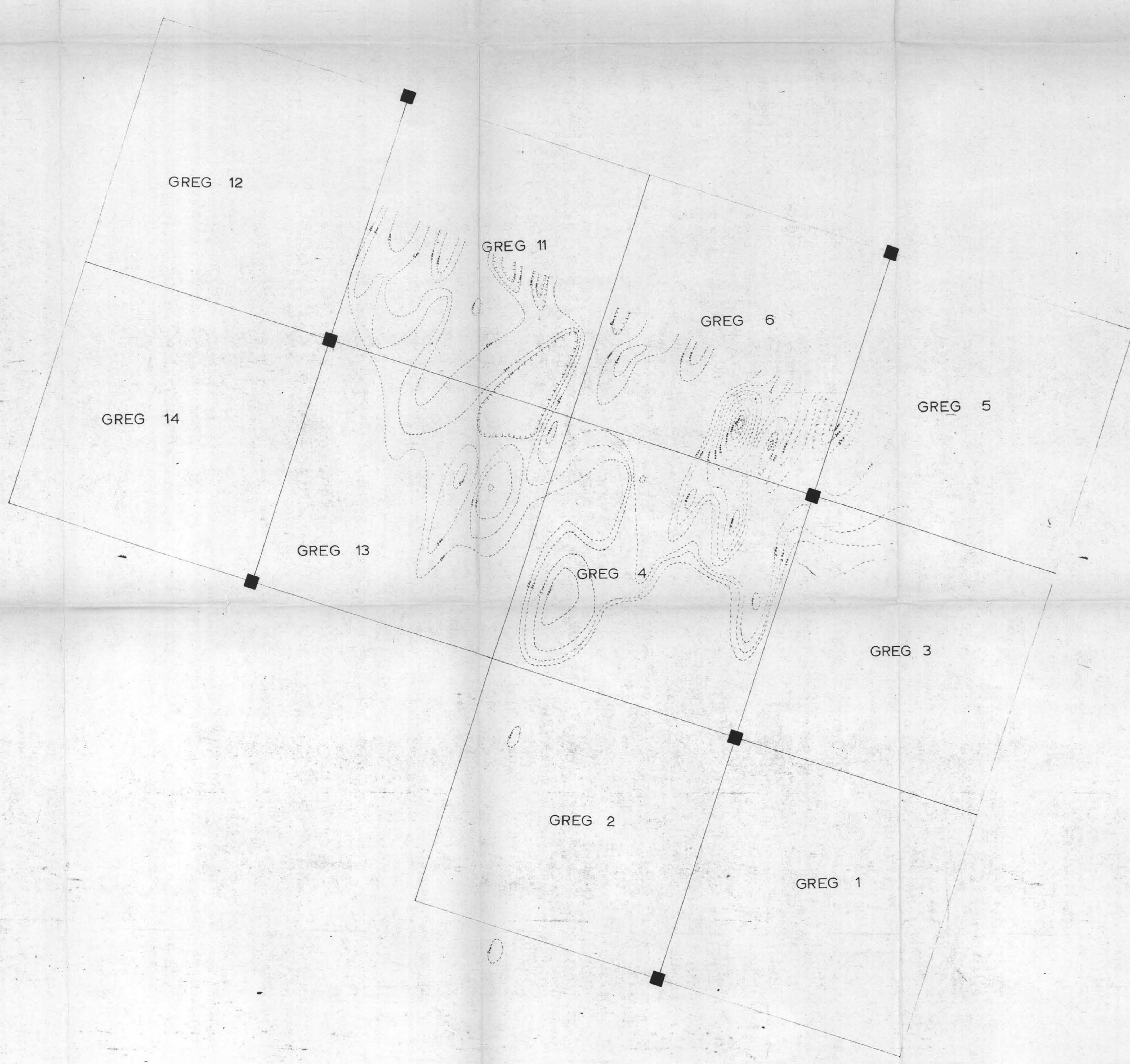
### CONTOUR MAP OF ZINC

To accompany assessment report by J.P. Guelge, geologist, on the Greg group of claims, situated at Vass Lake, Ontario Mining Division, dated September 27, 1973

Department of  
Mines and Petroleum Resources  
ASSESSMENT REPORT  
NO. 4620 M5 #5

SCALE 1" = 300'

SEPT 1973



#### LEGEND

○ ISOGRADE 1000 ppm

4620  
M5