



SAMPLING, MAPPING AND MAGNETOMETER
REPORT ON THE MW MINERAL CLAIMS

MW 1-8; 11-14 YA 33049-060
MW 9,10,15-28,31-48 YA 33804-837

MAP SHEET 105B/3

Latitude 60°03'N

Longitude 131°28'W

WATSON LAKE MINING DIVISION
YUKON

by

J.C. STEPHEN

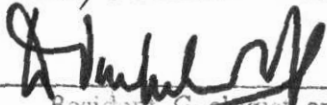
090799

WORK DONE: August 17-August 23, 1980
BY: J.C. Stephen Explorations Ltd.
FUNDED BY: D.C. Syndicate

March 1981

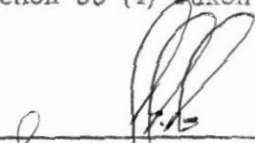
This report has been examined by the Geological Evaluation Unit and is recommended to the Commissioner to be considered as representation work in the amount of

\$ 4,600.00



Resident Geologist or
Resident Mining Engineer

Considered as representation work under
Section 53 (4) Yukon Quartz Mining Act.



Commissioner of Yukon Territory

TABLE OF CONTENTS

	<u>Page</u>
Register of Claims	1
Location and Access	1
Purpose of the 1980 Program	3
Geology	5
MW 3 - 5 Anomaly	5
MW 11 - 17 Anomaly	8
Magnetometer Survey	10
Geochemistry	11
Recommendations	13
Distribution of Expenditures	14
Appendix I Soil Sample Notes	
Appendix II Statement of Qualifications	

LIST OF ILLUSTRATIONS

<u>Figure</u>	<u>Title</u>	<u>Page</u>
1	MW Claim Group Location and Sketch Map	2

<u>Map</u>	<u>Title</u>	
I	MW Claim Group GEOLOGY & GEOCHEMISTRY 1" - 400'	In Pocket of Report
II	MW Claim Group GEOLOGY MW 11 - 17 ANOMALY	In Pocket of Report
III	MW CLAIM GROUP MAGNETOMETER SURVEY MW 11 - 17 ANOMALY	In Pocket of Report
IV	MW CLAIM GROUP SOIL SAMPLE GRID MW 11 - 17 ANOMALY	In Pocket of Report

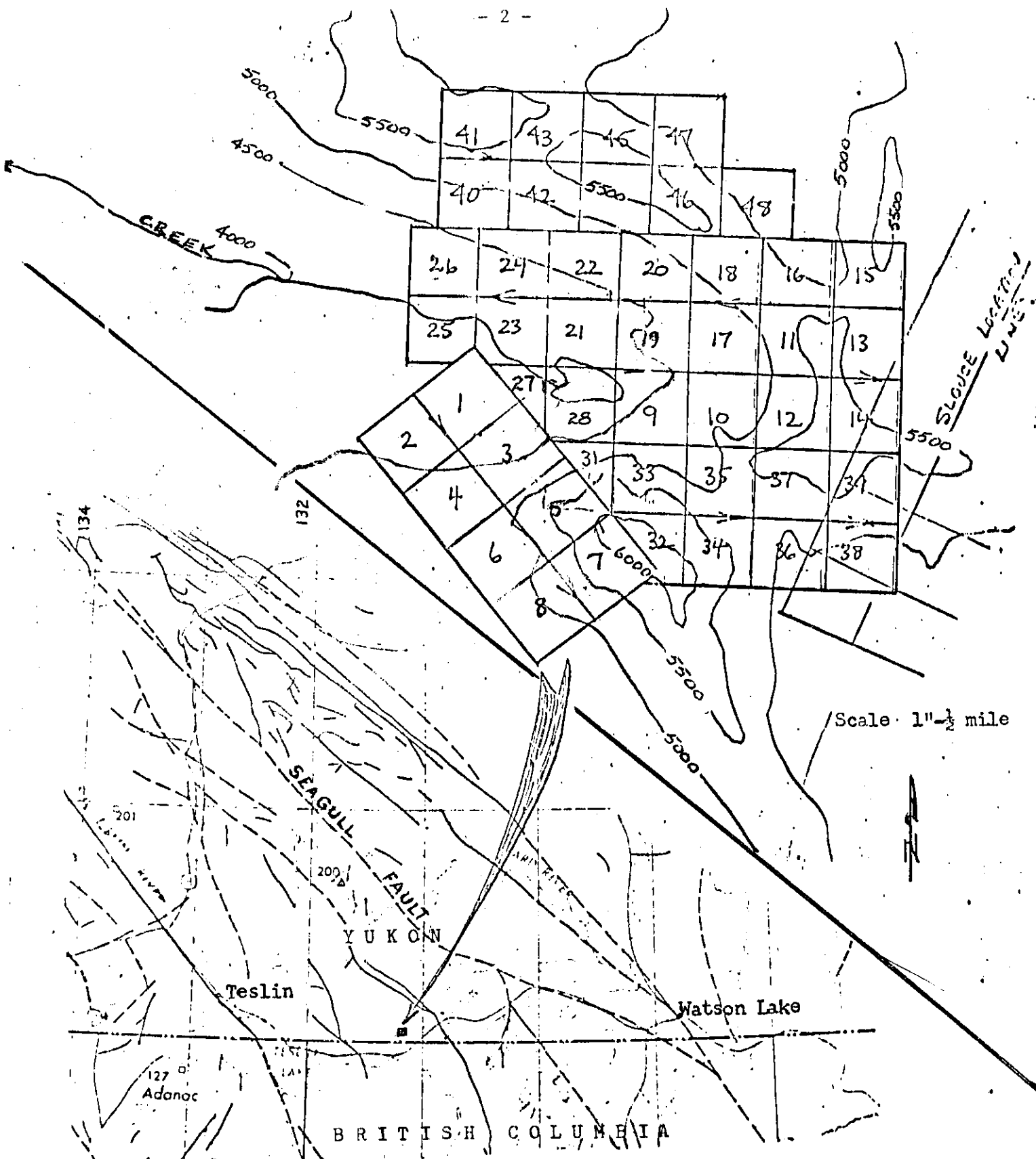
REGISTER OF CLAIMS

<u>Name</u>	<u>Record Numbers</u>	<u>Record Date</u>
MW 1-8	YA 33049-056	June 15, 1978
MW 9,10	YA 33804-805	July 17, 1978
MW 11-14	YA 33057-060	June 15, 1978
MW 15-28	YA 33806-819	July 17, 1978
MW 31-48	YA 33820-837	July 17, 1978

LOCATION AND ACCESS

The MW group is located ten miles (16 km) northwest of Swift River and about six miles (10 km) northeast of Logtung. Access has been entirely by helicopter during the period 1978 - 80 although the original zinc showings were located by prospectors using horses in 1946.

Rugged topography surrounds the headwaters of a northwest flowing stream and small lake on the claim group. Peaks reach over 6000 feet in elevation with extensive rock exposure above the 5000 foot elevation. From 5000 feet down to 4200 feet, at the west boundary of the claim group geology is obscured by talus and drift with thick tangled balsam and juniper in some areas below 4500 feet.



1 : 2,500,000

D.C. SYNDICATE
 M.W. CLAIM GROUP
 LOCATION AND SKETCH MAP
 FIGURE I

PURPOSE OF THE 1980 PROGRAM

The known showings on the MW group consist of:

- #1 Showing - Zinc, with lesser lead and some silver values associated with a thin barite bed or vein on claim Zinc 6 near the southwest corner of the property. This is an original Musselwhite showing.
- #2 Showing - Zinc, with minor lead and silver values in a skarn zone extending over 700 feet down the west side of the ridge from #1 Post MW 13, 14 near the east side of the property. This is the second original Musselwhite showing.
- #3 Showing - Up to 4.4% tin in a very narrow skarn with heavy arsenopyrite and some copper mineralization on claims ZINC 16 and 18 near the north side of the property.

Two geochemical anomalies are indicated:

- ZINC 3 - 5 lead zinc anomaly where minor sphalerite and galena has been found and:
- ZINC 11 - 17 Zinc anomaly which may indicate the northwest extension of #2 showing.

A program of soil and talus sampling, magnetometer survey and detailed mapping over small areas was conducted. The purpose of this work was:

- (1) to clarify the geology and extent of mineralization on anomaly ZINC 3 - 5

- (2) to trace the northwest extension of #2 showing and
- (3) to determine whether #2 and #3 showings occur in the same, or in separate skarn horizons.

GEOLOGY

Geological mapping was conducted by J. Bigauskas in outcrop areas which proved to be somewhat higher than the MW 3 - 5 anomaly and apparently above the few isolated outcrops which had previously been located and which contain sphalerite, galena mineralization. Future work should survey in these outcrops and correlate them with Bigauskas' mapping described below.

MW 3 - 5 Map I

Purpose

To map the claims in the vicinity of the Pb Zn anomaly and note signs of any Pb Zn mineralization.

Method

Triangulation stations were placed at convenient and easily observable points. Seven are marked by rock cairns and fluorescent orange paint. Because of the steepness of the slopes and the intricate nature of the axial folding, an attempt to physically trace marker horizons failed. Instead sketches from several stations were made and, at the same time, bearings were taken to critical points. By using two stations and two bearings to the same point, the recorded information could be plotted on a plan View. Accuracy with the Brunton compass is to 1/2 degree at best but at this scale plotting presents more of a problem in this regard.

Geology

Three recognizable and traceable units were detected in the MW claim 3 where the bulk of the outcrop lies. These were, stratigraph-

ically upwards, an argillite unit, a thin massive white weathering dolomite, and a cherty buff weathering dolomite. The lowest unit consists mostly of a rusty to maroon weathering argillite which contains some tan weathering dolomite beds. The latter is useful in tracing the folding within the argillite unit. The middle unit is a white weathering, massive dolomite. It is approximately twenty feet thick and provides a useful marker horizon throughout the mapping area. The upper unit, a buff weathering cherty dolomite is exposed only slightly at the base of the bluff. Here it is very siliceous containing, in places, continuous thin layers of grey chert. Higher in this bed more limy rock appears, however access is restricted by the steepness of the slopes, therefore it could not be differentiated.

A small porphyritic dyke cuts across these units. This dyke was observed by Grant Abbot of D.I.A.N.D. who labelled it a hornblende porphyry. The crystals, however, appear to be pyroxenes to the author. A thin section may solve the confusion. Thin green argillite beds within the dolomites are probably what was distinguished as andesite during previous mapping.

Structure

The existence of a major thrust fault (Abbot) is questioned by the author. The beds are quite strongly folded, however the hornblende porphyry dyke is continuous across the mapping area. The irregular topography complicates the outcrop pattern and intricate axial chevron folds make tracing any particular bed difficult, but large anticlines and synclinal folds are outlined by the white massive dolomite. A NNE trending strike slip fault offsets both the folded beds and the dyke (?) in a right lateral fashion.

Mineralization

No signs of Pb Zn mineralization (i.e. carbonate veins, galena, sphalerite) were detected in the course of the mapping. Both the argillite and the massive white dolomite marker appear to be quite barren. The upper unit, the cherty buff dolomite, is capped by a dolomitic limestone which has a most peculiar grey fresh surface. Further prospecting would be helpful but work is quite hazardous where this rock is exposed.

MW 11 - 17 Anomaly Map II

Method

A grid was established by tape and compass on the MW 11-17 anomaly with lines 200 feet apart and stations marked every 100 feet. The base line trends approximately N53°W for a distance of 2800 feet and approximately 23000 feet of side lines were run.

Only very limited rock outcrop was located.

Rock Units

Quartz Monzonite

Pinkish gray to buff medium to coarse grained quartz monzonite of the Seagull batholith occurs as float and talus near the northeast edge of the grid. Scattered large erratics of the same rock type occur. This intrusive rock occurs in outcrop to the east directly upslope but the location of the contact is completely obscured by talus and drift.

Skarn

Small outcrops of skarn are shown on Map II. These are generally poorly exposed and smaller than indicated by the map. The rock is an epidote garnet skarn with a small magnetite component which is low and variable. Traces of sphalerite and chalcopryrite may be found locally. Garnets are dark reddish to black. No bedding attitudes were evident.

Limestone

The limestone is generally white to pale buff with minor chert. The rock is recrystallized. No bedding attitudes could be measured with confidence.

Dolomitic Limestone

This rock is somewhat harder and more massive than the limestone. It is generally buff colored and is termed dolomitic primarily because it does not react readily to dilute, cold HCl as the limestone does.

Structure

No reliable structural information was obtained and the contacts indicated joining the outcrops of skarn are hypothetical although the pattern of magnetic readings and zinc content in soils seems to confirm a north trend to the skarn horizon.

The limestones are fairly massive, similar to outcrops to the south rather than the thin bedded, flaggy, soft, recrystallized limestone on the slopes to the north. The differences, however, may be due more to proximity to the Seagull intrusive to the north and attitude of surface exposure rather than to any real change in rock type.

MAGNETOMETER SURVEY

Method and Presentation Map III

A Scintrex MP-2 proton magnetometer was used to take readings at 100 foot intervals on the tape and compass grid lines at 200 foot spacing. Readings were taken initially along the base line so that those stations could be used as base stations. However check readings were generally within very narrow limits and no significant adjustment of readings was required. Results are shown on Map III with contours at 100 gamma intervals.

Interpretation

The magnetic pattern over the grid area was unexpectedly flat. Those readings above 300 gammas occur in the general vicinity of the small skarn outcrops and are possibly due to the presence of the skarn. Readings at 25 foot intervals would, however, be necessary to delineate the skarn trend more closely.

The survey indicates that no magnetite rich skarn horizon occurs within the grid area and as a result no significant skarn hosted tin mineralization can be expected there.

GEOCHEMISTRY

Purpose

Soil and talus sampling were proposed to explore the northwest trend of the No. 2 showing zinc bearing skarn and to check the area downslope from the No. 3 showing tin bearing skarn. Two lines of samples were taken on taped contour lines to the west to explore for other possible anomalous areas.

Method

On the local tape and compass grid samples were collected, using grub hoes, from available soil or talus material at flagged stations 200 feet apart on lines 200 feet apart. Data was recorded on sample sheets included with this report as Appendix I. Results are shown on Map IV at 1" - 200'.

On contour lines extending to the west samples were collected from available soil or talus using a prospectors pick. Results are shown on Map I Geology and Geochemistry at 1" - 500'.

Sample material was collected in kraft paper bags and submitted to Chemex Labs, North Vancouver. Samples were dried and sifted to -35 mesh. This material was then pulverized to -100 mesh before analysis.

Results

TIN Within the grid area only two values of note are recorded. These are values of 12 and 32 ppm but because of their isolated nature they cannot be considered as an anomaly.

TUNGSTEN Low values ranging from 5 to 15 ppm tungsten occur in the southeast portion of the grid in the general vicinity of the small skarn exposures.

LEAD Lead values range from 4 to 136 ppm with a general increase in values in the southeast half of the grid area. Values average from 20 to 27 ppm on the six northwest lines and range in average from 29 to 67 ppm on the eight southeast lines. This increase in lead content is not great and is very much lower than 100 to 1050 ppm lead range within the MW 3-5 anomaly.

ZINC Zinc values within the grid reflect the high values obtained by earlier reconnaissance talus samples with two determinations of >10,000 ppm or 1% zinc. Values are concentrated on the seven southeasterly lines with significant areas being above 1000 ppm.

There is a general correlation of zinc, lead and tungsten values in the region of the moderately high magnetometer readings and it is assumed these are all due to the presence of the skarn horizon.

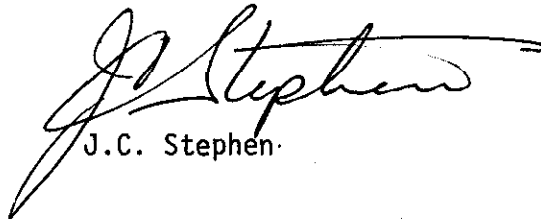
The soil samples taken along reconnaissance lines to the west boundary of the property were run for Pb, Zn, W and Sn. Only moderately anomalous (200 to 540 ppm zinc) values were obtained on claim MW 22. No tin or tungsten values were obtained.

To the northwest of the grid area two skarn float fragments were found. Their approximate locations are shown on Map IV together with assay results. These float pieces contained sphalerite and galena and the best mineralized assayed 0.17% tin.

RECOMMENDATIONS

The geochemical, magnetometer and geological results on the grid area indicate the zinc bearing skarn is present in the east portion of the grid. It is possible this skarn trends north toward the No. 3 showing skarns as shown on Map I. This however is not proved and it is recommended that the grid be continued to the northwest across MW 22 and that the lines be extended northeast to the horizon of the No. 3 showings. Soil sampling, magnetometer readings and geological mapping should be continued along this trend.

Respectfully submitted,
J.C. Stephen Explorations Ltd.



J.C. Stephen

JCS/ms

DISTRIBUTION OF EXPENDITURES

WAGES AND BENEFITS

J. Bigauskas	Aug.17-23	6 days @ \$1600./month	\$ 310.00
N. Stephanian	Aug.17-23	6 days @ \$1500./month	290.00
P. Phillips	Aug.17-23	6 days @ \$1500./month	290.00
M. Hughes	Aug.17-23	6 days @ \$1200./month	232.00
D. Ferguson	Aug.17-23	6 days @ \$1200./month	232.00
S. Wollner	Aug.17-23	6 days @ \$1200./month	<u>232.00</u>
			\$1,586.00

FOOD AND CAMP SUPPLIES

36 man days @ \$10.00 \$360.00

MAGNETOMETER RENTAL

6 days @ \$13.00 per day + 7.5% Insurance and Tax (\$13.97)\$83.00

HELICOPTER

August 17	1/2 of \$1,126.00	\$563.00
August 23	1/2 of \$1,612.00	\$806.00

GEOCHEM AND ASSAYS

Invoice 38765	106 Soils for Pb,Zn,W,Sn @ \$10.35	\$1,097.00
Invoice 38800	73 Soils + Talus for Pb,Zn,W,Sn @ 10.35	\$755.00
Invoice 39367	2 Rock for Pb,Zn, Sn % @ \$20.50	\$41.00

PREPARATION OF REPORT AND DRAFTING

J.C. Stephen	Feb. 23, 1981	\$150.00
M. Hett	Oct. 16-19 @ \$8.00 per hour	<u>\$192.00</u>
		\$5,633.00

A P P E N D I X I

Soil Sample Notes

SAMPLER DAVID FERGUSON

PROJECT MW CLAIMS, DC

DATE AUG 22, 80

NTS _____

LINE _____

AIR PHOTO NO. _____

SAMPLE NO.	LOCATION	Depth (in)	Horiz	DESCRIPTION				SLOPE	VEG.	ADDITIONAL OBSERVATIONS OR REMARKS	ASSAYS				
				Colour	Part Size	% ORG.	Ph				P	Fe	W	S	
17W	2S	6	B	LEO BROWN	CLAY			GENTLE	GRASS BUSH, PINE			47	335	1	1
17W	00	4	B	MEDIUM BROWN	"			"	"						
16W	2N	6	B?	LIGHT BROWN	SAND			"	"	ANGULAR ARGILLITE PEBBLES		20	610	1	1
	4N	7	B	GRAY MEDIUM BROWN	SILT			MEDIUM	"			46	390	1	1
	6N	6	B	MEDIUM BROWN	CLAY SAND			FLAT	GRASS	MEADOW, LTD ANGULAR FRAGMENTS		14	70	1	1
	8N	8	B?	BROWN	CLAY			GENTLE	"	STREAM MEADOW, MULT SAMPLE		46	370	1	1
	10N	6	B	"	"			"	GRASS BUSH, PINE			22	155	1	1
16W	12N	12	B	"	"			"	"			26	180	2	1
14W	12N	10	B	"	"			"	"	MEADOW, LTD ANGULAR FRAGMENTS		18	65	1	1
	10N	6	A	"	CLAY	50		MED	"	" " " "		24	80	1	2
	8W	6	B	"	SILT			FLAT	"	SUB ANGULAR OLIVINE PEBBLES & COBBLES		16	75	1	1
	6N	6	B	"	CLAY			"	"	" " " "		24	120	1	1
	4N	8	B	"	"			GENTLE	GRASS BUSH, PINE			18	220	1	1
	2N	8	B	"	FINE CLAY			MEDIUM	"	ANGULAR CHERT PEBBLES		28	220	1	1
	00	6	B	ORANGE BROWN	CLAY			GENTLE	"	RUSTY QUARTZITE		30	650	2	2
14W	2S	10	B	"	FINE CLAY			MEDIUM	"			24	250	1	1
12W	2S	6	B?	LIGHT BROWN	CLAY	50		STEED	"			24	130	1	1
10W	00	4	A	GRAY	CLAY	50		GENTLE	"						
	2N	5	B	MEDIUM BROWN	"			FLAT	"	ANGULAR QUARTZITE COBBLES		22	215	1	1
	4N	6	B	BROWN	"			"	"	" " " "		24	205	1	1

SAMPLER DAVID PETERSON

PROJECT MW CLAIMS (O.C.)

DATE AUG 22, 90

NTS

LINE

AIR PHOTO NO.

SAMPLE NO.	LOCATION	Depth (m)	Horiz	DESCRIPTION				SLOPE	VEG.	ADDITIONAL OBSERVATIONS OR REMARKS	DB ASSAYS			
				Colour	Part Size	% ORG.	Ph				As	As	W	Fe
10W	6N	5	B	RED-BROWN	CLAY			FLAT	SCUB BRUSH	TOP OF RIDGE ANGULAR GREEN-GRAY DOLIC COBBLES	26	360	1	1
1	8N	7	B	MEDIUM BROWN	"			FLAT	SCRUB BRUSH	ANGULAR DOLIMITE PEBBLES	16	240	1	1
1	10N	10	A	DARK BROWN	HUMUS			GENILE	GRASS	HILLSIDE STREAM MEADOW	10	175	1	1
10W	12N	8	B	GRAY BROWN	"			FLAT	"	ANGULAR RUSTY QUARTZITE COBBLES	10	60	1	1
3W	12N	3	B	MEDIUM BROWN	CLAY			"	"	" " " "	24	80	1	1
1	10N	4	B	"	"			GENILE	"	ROUNDED COBBLES	26	140	1	1
1	8N	3	B	"	"			"	"	ANGULAR CHERT PEBBLES	20	135	1	1
1	6N	5	B	"	"			"	"	" " " "	26	360	2	1
1	4N	6	B	ORANGE BROWN	"			"	"	" " COBBLES (RUSTY)	24	225	1	2
1	2N	12	A	BLACK	HUMUS			"	"	RIVERBED	28	70	2	3
8W	60	12	A	"	"			"	"	"	28	380	2	1
6W	8N	5	B	BROWN	CLAY			GENILE	SCRUB BRUSH		22	415	1	1
1	10N	6	B	"	SAND CLAY			"	"		4	125	1	1
6W	12N	5	B	"	CLAY			"	GRASS BUSHES	BANDED CHERT FRAGMENTS	20	180	1	1
4W	12N	6	B	"	"			"	"	" " "				
1	10N	4	B	"	"			"	"	" " "				
4W	8N	5	B	"	"			"	"	ROUNDED COBBLES				
2W	8N	10	A	DARK BROWN	HUMUS			FLAT	GRASS	ANGULAR ASH TUFF COBBLES QUARTZES				
1	10N	10	A?	"	"			GENILE	"	ANGULAR QUARTZITE COBBLES				
2W	12N	3	B	BROW	CLAY	50		"	GRASS					

SAMPLER DAVID FERGUSON

PROJECT MW CLAIMS (O.C.)

DATE AUG 22, 80

NTS _____

LINE _____

AIR PHOTO NO. _____

SAMPLE NO.	LOCATION	Depth	Horiz	DESCRIPTION				SLOPE	VEG.	ADDITIONAL OBSERVATIONS OR REMARKS	ASSAYS			
				Colour	Part Size	% ORG.	Ph				Au	As		
OW	12N	5	B	MEDIUM BROWN	CLAY			GENTE	Grass, broad leaved					
	10N	3	B	LIGHT-MEDIUM BROWN	"			"	"					
OW	8N	5	B	BROWN	"			"	"	SMALL ROUND PEBBLES				
2E	00	8	A	DARK BROWN	HUMUS			"	"					
	2N	8	B	"	CLAY			SILEP	"					
	4N	6	A	"	HUMUS			"	"					
	6N	4	B	BROWN	CLAY			MEDIUM	"	ANGULAR QUARTZITE COBBLES				
	8N	3	B	BROWN	CLAY			"	"	" DOLOMITE "				
	10N	9	B	"	CLAY		50	"	"	" " "				
2E	12N	5	B	"	CLAY		50	"	"	ROUNDED PEBBLES				
4E	12N	4	B	MEDIUM BROWN	"			"	"	ANGULAR DOLOMITE COBBLES				
	10N	12	A	DARK BROWN	HUMUS			"	"	" " "				
	8N	6	B	MEDIUM BROWN	CLAY			"	"	" " "				
	6N	7	B	"	"			"	"	" " " PEBBLES				
	4N	6	B	"	"			"	"	" " " " "				
	2N	5	B	"	"			"	"	" " " " "				
4E	00	6	B	"	"			"	"	TALUS; CHERT, DOLOMITE, ARGILLITE				
6E	2N	8	B	DARK BROWN	"			"	"	HILLSIDE RIVER MOUND, SOME TALUS				
	2N	4	B	"	"			"	"	" " "				
	4N	10	B	"	"			"	"	ANGULAR DOLOMITE COBBLES & PEBBLES				

SAMPLER DAVID FERGUSON

PROJECT MW CLAIMS (D.C.)

DATE AUG 22, 80

NTS

LIVE

AIR PHOTO NO.

SAMPLE NO.	LOCATION	Depth	Horiz	DESCRIPTION				SLOPE	VEG.	ADDITIONAL OBSERVATIONS OR REMARKS	ASSAYS			
				Colour	Part Size	% ORG.	Ph				Au	As		
6E	6N	6	B	DARK BROWN	CLAY			MEDIUM	GRASS	ANGULAR OLIVITE COBBLES + PEBBLES				
	8N	9	B	BROWN	"			"	"	ANGULAR QUARTZITE COBBLES				
	10N	7	B	BROWN	"			"	"					
6E	12N	5	B	"	"			"	"	ANGULAR POLYMITIC, GRANITIC COBBLES				
8E	12N	7	B	"	CLAY	50		"	"					
	10N	12	A	DARK BROWN	HUMUS			"	"	ANGULAR OLIVITE COBBLES				
	8N	14	A	BROWN	CLAY			"	"	" " "				
	6N	7	B	"	"			"	"	" " " + PEBBLES				
8E	4N	5	B?	"	"			"	"					
10E	4N	3	A	"	GRAVEL CLAY			"	"	SMALL SLIDE AREA				
	6N	15	B	"	CLAY			"	"					
	8N	6	B	"	"			"	"					
	10N	7	B	LIGHT BROWN	"			"	"	RUBBLE				
10E	12N	6	B	BROWN	"			"	"	ANGULAR OLIVITE PEBBLES				
12E	12N	8	B	"	"			"	"	" " "				
	10N	10	B?	"	"	50		"	"	LTD ANGULAR OLIVITE FRAGMENTS				
	8N	10	A	DARK BROWN	HUMUS			"	"	RUBBLE				
12E	6N	10	A	"	"			"	"	"				

J.C. STEPHEN EXPLORATIONS LTD.

GEOCHEMICAL DATA SHEET - SOIL SAMPLING

D.C. SYNDICATE

bl = light.
 sa = sandy
 cl = clayey
 si = silty.
 rk = rocky
 gr = gravelly
 org = organic

LS = limestone
 frags = fragments
 gr = grass
 bal = balsam
 ju = juniper
 rk = rock.

SAMPLER 157

DATE Aug 20/80

PROJECT D.C. SYNDICATE MW GROUP

NTS 105 B

LINE 0+00, 2, 4, 6+00 W (Name S)

AIR PHOTO NO.

SAMPLE NO.	LOCATION	Depth	Horiz	DESCRIPTION				SLOPE	VEG.	ADDITIONAL OBSERVATIONS OR REMARKS	ASSAYS				
				Colour	Part Size	% ORG.	Ph				Au	As			
0+00	MW	8"	B	brown	sandy	10	-	sl. S.	gr.	- few small rk. frags					
2S	MW	1'	B	br.	gr.	<10	-	-	gr.	- 1" leached A. (gray)					
2N	MW	6"	B	br	cl.	>10	-	sl. SW	gr.	- 16" soil above LS o/c + 3" of black above this					
4N	MW	10"	A	bl.	cl, sa.	>10	-	m. SW	gr. bal.	- hillside - dark w/ rootlets.					
6N	MW	10"	A	bl + br.	si, sa.	>15	-	sl. W.	gr.	- swampy, v. wet, abdt. rk. frags. LS.					
8N	MW														
2+00 W	NO SAMPLE			H ₂ O - pond. (swamp)											
2S	MW	12"	B	br.	cl, rk.	10	-	m. NE	gr, rk	- LS frags. - no leached.					
4S	MW	12"	B	br.	gr.	<10	-	m. W	gr, bal	-					
6S	MW	10"	B?	br, bl.	cl.	>10	-	-	gr.	- grassy meadow, black top					
8S	MW	18"	B	br	cl.	<10	-	m. S.	rk, gr	- base of LS o/c, black top, no leached.					
2N	MW	12"	B	br.	sa.	>10	-	-	bal.	- no leached, rk frags, few rootlets.					
4N	MW	8"	B?	bl.	cl, org	25	-	m. S.	gr.	- no leached, v. organic, by stream → S.					
6N	MW	12"	B	br	sa.	>10	-	sl. S.	gr, bal						
4+00 W	MW	18"	A	buff	cl, rk.	10	-	m. N	gr, bal.	- leached A with rk frags (LS)					
2S	MW	12"	A or B	br.	cl.	<10	-	sl. N	gr.	- LS o/c near.					
4S	MW	10"	B	br.	cl, rk.	>10	-	sl. W.	gr	- above LS o/c., abdt. rk. frags.					
6S	MW	8"	A?	br.	cl, sa.	15	-	sl. W.	gr.	"					
8S	MW	12"	B	br.	cl, sa.	<10	-	m. S.	gr, rk.	- 16' S. of LS. o/c at station.					

SAMPLER RJ PHILLIPS

DATE Aug 20/80

PROJECT MW CLAIM GROUP.

NTS 105 B.

LINE _____

AIR PHOTO NO. _____

SAMPLE NO.	LOCATION	Depth	Horiz	DESCRIPTION				SLOPE	VEG.	ADDITIONAL OBSERVATIONS OR REMARKS	ASSAYS			
				Colour	Part Size	% ORG.	Ph				Au	As		
2N	MW	12"	A,B	br-gr	sa.	<10	-	st. SW	gr, bal.					
4N	MW	12"	A	bl.	mud.	10	-	m. SW	gr.					
6N	MW	10"	B	br	sa.	<10	-	st. W	gr.					
46+20W.	MW	8"	B	bl, br	clay, sa	>10	-	st N	gr.	- o/c and bldrs of LS				
2S	MW	8"	B	br, bl.	cl, sa.	>10	-	st. NW	gr.	- LS o/c (N 10' to N - sample taken)				
4S	MW	10"	B	br (et.)	cl.	<10	-	st. N.	gr.	- LS o/c				
6S	MW	12"	B	bl.	sa.	10	-	m. S.	gr.	- LS o/c, minor root lets				
8S	MW	12"	B?	br.	cl. cl.	10	-	-	gr, etc.	- some root lets, LS.				
2N	MW	10"	A	buff	gr.	10	-	st. W.	gr.	- meadow area, abdt. ric. frags.				
4N	MW	10"	A	bl.	cl.	15	-	st. SW.	gr.	- abdt. LS bldrs.				
6N	MW	12"	B	br.	sa.	<10	-	st. SW.	bal.					

A P P E N D I X II

STATEMENT OF QUALIFICATIONS

STATEMENT OF QUALIFICATIONS

NUSHY STEPHANIAN

I, Nushy Stephanian, of Mississauga, Ontario do certify
that:

- (1) I am a graduate geologist of the University of Toronto with a Bachelor of Science degree in geology obtained in 1979
- (2) I am a candidate for Master of Science degree in Mineral Exploration from Queen's University expected in 1981
- (3) I have the following mineral industry experience

Essex Minerals	May - Sept. 1978	Junior Assistant
Gulf Minerals Canada Ltd.	May - Sept. 1979	Senior Assistant
J.C. Stephen Explorations Ltd.	June - Sept. 1980	Geologist

N. Stephanian

STATEMENT OF QUALIFICATIONS

JULIUS BIGAUSKAS

I, Julius Bigauskas, of Sudbury Ontario do certify that:

(1) I am a graduate geologist of Laurentian University with a Bachelor of Science degree in geology and a Bachelor of Arts degree in economics.

(2) I have the following geological experience

J.C. Stephen Explorations Ltd.	July - Sept. 1980	Geologist
Laurentian University/G.S.C.	June - Sept 1979	Geologist
Gulf Minerals of Canada	May - Sept. 1978	Assistant Geologist
Gulf Minerals of Canada	May - Sept. 1977	Junior Geologist
Laurentian University/G.S.C	May - Sept. 1976	Junior Geologist

Julius Bigauskas

FLOAT
85792B
0.017, 50
0.16, 75
0.55, 2a

FLOAT
88794B
0.17, 50
0.44, 75
12.5, 2a



J.C. STEPHEN EXPLORATIONS LTD
D.C. SYNDICATE
M. W. CLAIM GROUP
GEOLOGY
M. W. 11-17 ANOMALY
SCALE: 1" = 200' OCTOBER 1980



J.C. STEPHEN EXPLORATIONS LTD
 D.C. SYNDICATE
 M.W. CLAIM GROUP
 MAGNETOMETER SURVEY
 M.W. 11-17 ANOMALY
 SCALE: 1"=200' OCTOBER 1980



50.1 SOIL SAMPLE Pb, Zn PPM
 20.1 W Sn

J.C. STEPHEN EXPLORATIONS LTD
 D. C. SYNDICATE
 M. W. CLAIM GROUP
 SOIL SAMPLE GRID
 M. W. 11-17 ANOMALY
 SCALE 1" = 200' OCTOBER 1980