



32D04SE0107 2.14695 HEARST

010

REPORT ON RELOGGING AND SAMPLING OF DRILL CORE

SKEAD AND HEARST TOWNSHIPS, ONTARIO

Diamond drill core from three previous holes drilled by Utah Mines in 1981 was re-examined and sampled. The holes re-examined were M-1 drilled in the south part of Hearst Township and Holes M-7 and M-9 drilled in Skead Township. Using the existing logs, the core was re-examined primarily to select sections of core for whole rock analysis which was not previously carried out and secondarily to check for mineralization which might have been missed in the previous logging. The logging and sampling was carried out over a 3 day period by R. MacGregor and 1 day by Bruce Jeffrey who travelled from Timmins for the purpose. Seven samples were taken for whole rock analysis. In addition a two-foot possible exhalite horizon was noted near the bottom of Hole M-9. This had previously been logged as a cherty rhyolite, and had not been sampled.

Analysis and locations are attached. Further checking and sampling of the remaining 8 holes drilled in the area is planned for the future.

Respectfully submitted

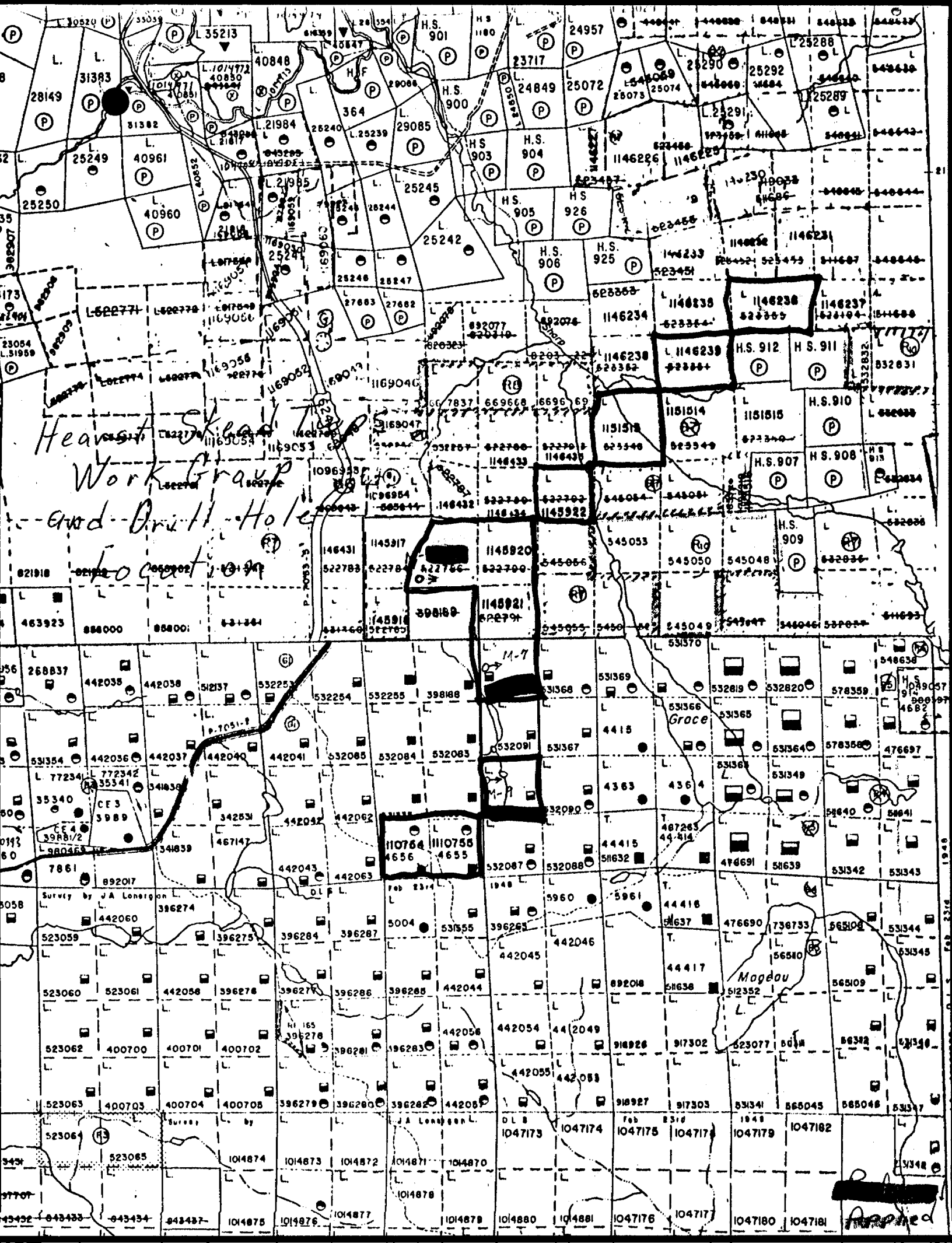
R.A. MacGregor, P. Eng.

Qual. 2.1102.

RECEIVED

AUG 25 1992

MINING LANDS BRANCH

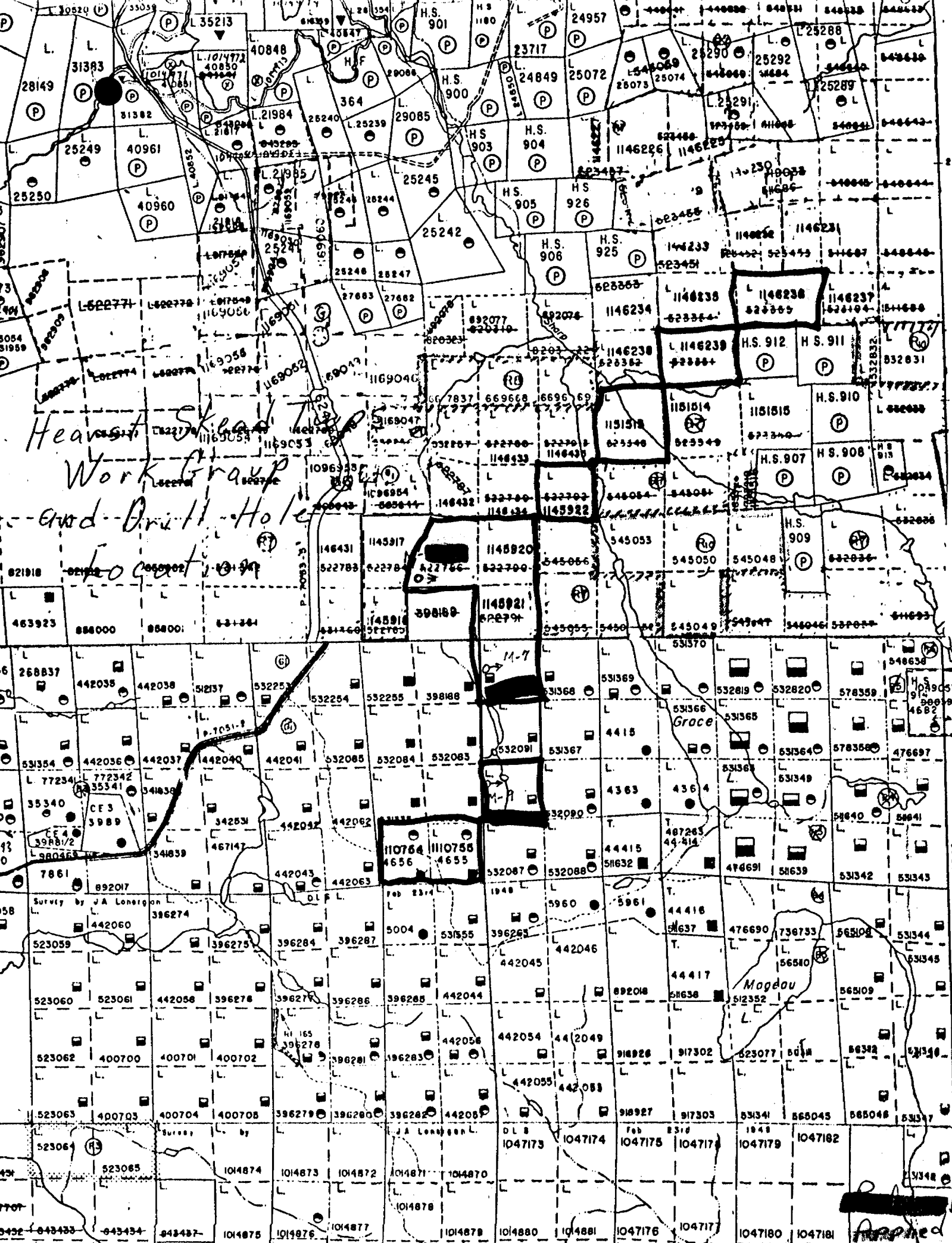


Heavest Skend
Work Group
and Drill Hole
Location

11-7

Groce

Magdon



11-7

Groce

Magdon

Map

HOLE NO. M-1

PROJECT: MANOR

PAGE NO: 3 OF 8

CASING COLLAR ELEV.: 3' above ground GROUND ELEV.:

DATE STARTED: JAN. 18.81

REF. TO CLAIM CORNER:

COORDINATES: 18340 N. 17060 E.

DATE FINISHED: JAN. 22.81

SCALE: 1" = 10'

INCLINATION: - 45° BEARING: N90°E

TOTAL DEPTH: 442'

LOGGED BY: D. McVOR

SECTION	ALTERATION				FRACTURING	MINERAL	GEOLOGY	COMMENTS:	AVE CORE REC'Y / HOLE	SULPHIDES	DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SAMPLE INTERVAL	% REC'Y SAMP. INT.	ESTIMATED	
	CHLORITE	CARBONATE	SERICITE	OTHER													DESCRIPTIVE GEOLOGY
120'								<p>119'-148' SHEARED ANDESITE cont.</p> <ul style="list-style-type: none"> from 139'-140', zone of 0.5" Py as lg diss min & cubes Py also occurs as lg fill vein in places nodular quartz carbonate veins occur @ 100' - 2' vein 106' - 1/2" vein 116.2' - 1" vein 122.5' - 2" vein 									
130'							<p>schistose</p> <ul style="list-style-type: none"> from 127.5'-148', a truncated quartz-carbonate (calcite) vein @ 2% Py and minor amounts of reddish-brown mineralization (FeS₂ spec?) from 122'-127', sample taken as representative section. 	0.25%		126'	100%	BQ					
140'							<p>149'-155' ANDESITE</p> <ul style="list-style-type: none"> fine grained, less schistose, (2 sch. @ 45° to c.h.a.) andesite, & moderate chlorite-carbonate alt. biotite present in lesser amounts. glauco thin carb. (calcite) veins & carb. fill. filling predominant. trace to 0.25% sulphides present as vlg. diss. Py throughout rock, and small Py cubes occurring along carb. filled frac. Some minor reddish brown discoloration/mineralization? also occurs along fractures. 	0.25%		136'	100%		132'	100%			
150'							<p>155'-157.3' ANDESITE (strongly magnetic)</p> <ul style="list-style-type: none"> lg. carb green, v. silty sch (2 sch. @ 30°-40° to c.h.a.), slightly chloritized, carbonated andesite, & minor amounts of biotite also moderately oriented fractures are calcite filled. from 159'-159.3', 4" calcite vein, & strong reddish brown discoloration v. strongly mag. & vlg. magnetic diss. to 2% throughout rock sulphides present to 2% as vlg. diss. Py and v. minor Cpy throughout rock 	0.25%		146'	100%		139'	100%			
160'							<p>159.2'-172' ANDESITE TUFF</p> <ul style="list-style-type: none"> lg. slightly silty (2 sch. @ 45° to c.h.a.) andesite, & large chloritized v. mag. rich frags. to 2" moderate to strong chlorite alteration, & mag. amounts of biotite present. weak to moderate pervasive carbonate (calcite) alteration also present. alter. thin (to 1/2") carbonate veins (calcite) present, occ. & reddish brown discoloration carbonate fracture filling predominant, & some very strong slickensides & chlorite alt. along above fractures sulphides present in trace amounts as vlg. diss. Py, small scattered Py cubes, & Py along carb. filled fractures from 181'-172', sulphides present to 1% as vlg. diss. Py Py cubes along frac., & v. minor amounts of vlg. diss. Cpy. @ 180.T, 1' calcite vein becomes slightly coarser grained in places. 	2%		156'	100%		142'	100%			
170'							<p>stilly schistose</p> <p>alterations frag.</p> <p>carb vein</p>	TRACE		166'	100%		147'	100%			
180'										176'	100%						

HOLE NO. M-1

CASING COLLAR ELEV.: 3' above ground GROUND ELEV.:

COORDINATES: 18340 N. 17660 E.

INCLINATION: -45° BEARING: N90°E

PROJECT: MANOR

DATE STARTED: JAN. 18. 81

DATE FINISHED: JAN 22. 81

TOTAL DEPTH: 442'

PAGE NO: 5 OF 8

REF. TO CLAIM CORNER:

SCALE: 1" = 10'

LOGGED BY: D McIVOR

SECTION	ALTERATION				FRACTURING	MINERAL	GEOLOGY	COMMENTS:	AVE CORE REC'Y / HOLE	SULPHIDES	DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SAMPLE INTERVAL	% REC'Y. SAMP. INT.	ESTI-MATED	
	CHLORITE	CARBONATE	SERICITE	OTHER													
240'							<p>238'-242' <u>cont</u> 248'-249.2' graphite veins & seams to 30% of rock, & 5% associated sulphides, occurring as thin seams and blebs of Po-4%, Cpy-1%, v. minor Py & EnS v. minor gangways of EnS occur throughout rock as & thin calcite veins, and in calcite filled fractures.</p>										
250'							<p>249.2'-250.7' <u>DACITE TUFF</u> lg. aphan. grayish-green dacite tuff, & 30% small felsic to int. v. frags to 1/8" fragments to strong carbonate (calcite) fracturing, & numerous thin carb. veinlets & fracture filling - v. minor chlorite all. also present. some minor chlorite all. also present. sulphides present to 2%, occurring as thin seams & blebs, to sch. bedding, and are Po-3%, Cpy-1%, Py-1%, & v. minor amounts of EnS. a few thin graphitic seams also present.</p>	0.5%		100%	BQ	248'	100%				
							<p>250.7'-252' <u>MASSIVE DACITE</u> massive, lg. aphan. grayish green dacite, & numerous thin, randomly oriented calcite filled frac. sulphides present to 2% as lg. diss. Po, Cpy & minor Py</p>	1%	246'			245'	100%				
							<p>252'-261' <u>GRAENITE-SYENITE DACITE TUFF</u> lg. aphan. dacite tuff with seams/intervals of graphite to 60% & sulphides to 20%. fracturing schistosity very well developed @ 40°-50° to c.h.a. very strong carbonate (calcite) all. & large (10") carb. frags and carb. veins - seams sulphides present to 20% as seams to 1/4" and diss. blebs of 1/5" to 3/8" Cpy and minor amounts of Py & EnS occurring in carb. veinlets & carb. filled frac.</p>	0.5%		100%		248'	100%				
260'							<p>252'-261' <u>GRAENITE-SYENITE DACITE TUFF</u> lg. aphan. dacite tuff with seams/intervals of graphite to 60% & sulphides to 20%. fracturing schistosity very well developed @ 40°-50° to c.h.a. very strong carbonate (calcite) all. & large (10") carb. frags and carb. veins - seams sulphides present to 20% as seams to 1/4" and diss. blebs of 1/5" to 3/8" Cpy and minor amounts of Py & EnS occurring in carb. veinlets & carb. filled frac.</p>	5%				247'	100%				
							<p>254'-275.5' <u>DACITE LAPILLI TUFF</u> lg. aphan. grayish green dacite lapilli tuff & large felsic to intermediate volcanic fragments to 1" of rock moderately schistosity & thinly bedded & both @ orientations of 40°-60°, & at orientation of 45° weak pervasive carbonate alteration, & numerous thin carb. (calcite) veinlets & fracture filling oriented predominantly parallel to schistosity/bedding v. minor chlorite alteration also present. a few thin lg. aphan. veinlets also present, & v. minor amounts of Ksp & reddish brown hematite. Discontinuity a few thin (to 1/4") graphitic seams - intervals occur throughout rock, oriented to bedding - schistosity overall sulphide content 1%, occurring as v. lg. diss. min. & thin seams & blebs oriented to bedding - schistosity, as well as frac. filling & coating mineralization, and is Po-0.75%, Cpy of 25% & v. minor EnS occurring as v. lg. min. or a few thin carb. veins a few zones of higher sulphide content, notably 259'-260' where Po-seams & minor Cpy are present to 2% of rock</p>	4%		100%		250.7'	100%				
270'							<p>254'-275.5' <u>DACITE LAPILLI TUFF</u> lg. aphan. grayish green dacite lapilli tuff & large felsic to intermediate volcanic fragments to 1" of rock moderately schistosity & thinly bedded & both @ orientations of 40°-60°, & at orientation of 45° weak pervasive carbonate alteration, & numerous thin carb. (calcite) veinlets & fracture filling oriented predominantly parallel to schistosity/bedding v. minor chlorite alteration also present. a few thin lg. aphan. veinlets also present, & v. minor amounts of Ksp & reddish brown hematite. Discontinuity a few thin (to 1/4") graphitic seams - intervals occur throughout rock, oriented to bedding - schistosity overall sulphide content 1%, occurring as v. lg. diss. min. & thin seams & blebs oriented to bedding - schistosity, as well as frac. filling & coating mineralization, and is Po-0.75%, Cpy of 25% & v. minor EnS occurring as v. lg. min. or a few thin carb. veins a few zones of higher sulphide content, notably 259'-260' where Po-seams & minor Cpy are present to 2% of rock</p>	2%				252'	100%				
							<p>275.5'-292' <u>DACITE</u> pred. min. massive, lg. aphan. dark grayish green dacite towards 292' appears thinly bedded (chiffonaceous?) & bedding @ 50°-60° to c.h.a. a few thin carbonate (calcite) veinlets & calcite filled fractures oriented pred. to bedding v. minor chlorite all. present, & some chlorite frac. filling a few thin graphitic seams increasing in abundance towards 292', & oriented to bedding.</p>	1%	265'			260'	100%				
280'							<p>275.5'-292' <u>DACITE</u> pred. min. massive, lg. aphan. dark grayish green dacite towards 292' appears thinly bedded (chiffonaceous?) & bedding @ 50°-60° to c.h.a. a few thin carbonate (calcite) veinlets & calcite filled fractures oriented pred. to bedding v. minor chlorite all. present, & some chlorite frac. filling a few thin graphitic seams increasing in abundance towards 292', & oriented to bedding.</p>	1%		100%		275.5'	100%				
							<p>292'-299' <u>INTERBEDDED DACITE - GRAPHITE</u> very lg. aphan. dark grayish green dacite, & numerous thin intervals of graphite & sulphides bedding is Po-2% to 6% - to 6% numerous thin carb. veins & carbonate (calcite) filled frac. @ orientations pred. to bedding v. minor chl all. along frac.</p>	0.5%		100%		278'	100%				
290'							<p>292'-299' <u>INTERBEDDED DACITE - GRAPHITE</u> very lg. aphan. dark grayish green dacite, & numerous thin intervals of graphite & sulphides bedding is Po-2% to 6% - to 6% numerous thin carb. veins & carbonate (calcite) filled frac. @ orientations pred. to bedding v. minor chl all. along frac.</p>	1%		100%		278'	100%				
							<p>292'-299' <u>INTERBEDDED DACITE - GRAPHITE</u> very lg. aphan. dark grayish green dacite, & numerous thin intervals of graphite & sulphides bedding is Po-2% to 6% - to 6% numerous thin carb. veins & carbonate (calcite) filled frac. @ orientations pred. to bedding v. minor chl all. along frac.</p>	5%				279'	100%				
							<p>292'-299' <u>INTERBEDDED DACITE - GRAPHITE</u> very lg. aphan. dark grayish green dacite, & numerous thin intervals of graphite & sulphides bedding is Po-2% to 6% - to 6% numerous thin carb. veins & carbonate (calcite) filled frac. @ orientations pred. to bedding v. minor chl all. along frac.</p>	3%	276'			279'	100%				
300'							<p>292'-299' <u>INTERBEDDED DACITE - GRAPHITE</u> very lg. aphan. dark grayish green dacite, & numerous thin intervals of graphite & sulphides bedding is Po-2% to 6% - to 6% numerous thin carb. veins & carbonate (calcite) filled frac. @ orientations pred. to bedding v. minor chl all. along frac.</p>	5%				279'	100%				

cont on next page

HOLE NO. M-1

CASING COLLAR ELEV.: 3' above ground GROUND ELEV.:

COORDINATES: 18340 N. 17060 E.

INCLINATION: -45° BEARING: N70°E

PROJECT: MANOR

DATE STARTED: JAN. 18, 81

DATE FINISHED: JAN 22, 81

TOTAL DEPTH: 442'

PAGE NO: 7 OF 8

REF. TO CLAIM CORNER:

SCALE: 1" = 10'

LOGGED BY: D. McEVOR

SECTION	ALTERATION				FRACTURING	MINERAL	GEOLOGY	COMMENTS:	AVE CORE RECY / HOLE	SULPHIDES	DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SAMPLE INTERVAL	% RECY. SAMP. INT	ESTIMATED
	CHLORITE	CARBONATE	SERICITE	OTHER												
285'	M	S	V		X	Po, Cpy, ZnS	<p><u>359-384.5' - AMPHIBOLITE TUFF</u></p> <ul style="list-style-type: none"> vg. aph. thinly bedded, amphibolite tuff. & numerous small felsic frags to 1/8" bedding oriented to 45-50° numerous small thin carbonate-Kspat variegated throughout rock, as well as carb fr. filling minor amounts of chl. along fractures, & a few thin chlorite seams throughout rock Amphibolite becomes cherty towards 384.5' sulphide content 1%, bearing as vlg diss mineralization, thin seams & blebs, & fracture filling, and is Py. 0.5%, ZnS. 0.25%, Cpy. 0.25% ZnS usually associated & Kspat-carb veins, although some vlg diss min does occur. 			359'	100%					
300'	S	S	V		X	Po, Cpy, ZnS	<p>Kspat-carb veins</p> <p>tuffaceous bedding</p>		1%	366'	90%	BB	365'	100%		
315'	S	S	V		X	Po, Cpy, ZnS				376'	100%		370'	100%		
330'	S	S	V		X	Po, Cpy, ZnS				376'	100%		375'	100%		
345'	S	S	V		X	Po, Cpy, ZnS				376'	100%		380'	95%		
360'	S	S	V		X	Po, Cpy, ZnS				376'	100%		384.5'	100%		
375'	S	S	V		X	Po, Cpy, ZnS	<p>glz-carb vein</p> <p>glz vein & Cpy</p> <p>glz-carb vein & minor Cpy ZnS min slightly more felsic band</p>		1%	386'	100%		390'	100%		
390'	S	S	V		X	Po, Cpy, ZnS				390'	100%		390'	100%		
405'	S	S	V		X	Po, Cpy, ZnS	<p>tuffaceous bedding & schistosity</p>		2%	396'	87%		400'	95%		
420'	S	S	V		X	Po, Cpy, ZnS				400'	100%		410'	100%		
435'	S	S	V		X	Po, Cpy, ZnS				411'	100%		420'	100%		
450'	S	S	V		X	Po, Cpy, ZnS				420'	100%					

HOLE NO. M-1
 CASING COLLAR ELEV.: 3' above gr. GROUND ELEV.:
 COORDINATES: 18340 N. 17060 E.
 INCLINATION: - 45° BEARING: N90°E

PROJECT: HANOK
 DATE STARTED: JAN. 18. 81
 DATE FINISHED: JAN. 22. 81
 TOTAL DEPTH: 442'

PAGE NO: 8 OF 8
 REF. TO CLAMP CORNER:
 SCALE: 1" = 10'
 LOGGED BY: D. McVior

SECTION	ALTERATION				FRACTURING	MINERAL	GEOLOGY	COMMENTS:	AVE CORE REC'Y / HOLE	SULPHIDES	DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SAMPLE INTERVAL	% REC'Y SAMP INT	ESTIMATED
	SILICATE	CARBONATE	SERICITE	OTHER												
420'							<p>ANDESITE TUFE - see preceding page</p> <p>tuffaceous bedding & schistosity</p> <p>q/z-carb ven</p>				421	100%	BR			
430'											0.251 430'	100%				
440'											440					
442'											442	100%				
							<p>Sample 170' AM 07157</p> <p>" 270' AM 07158</p> <p>" 370' AM 07159</p> <p>" 420' AM 07160</p> <p>Balance of log previously filed for assessment</p>									

D. McVior, JAN. 23/81

SECTION

ALTERATION	FRACTURING	MINERAL	GEOLOGY	COMMENTS:	AVE CORE REC'Y / HOLE	SULPHIDES	DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SAMPLE INTERVAL	% REC'Y SAMP INT	UN-MAILED	
													DESCRIPTIVE
11				226-246	Basaltic Tuff	1.0		100		243			
				246-282	Graphitic Argillite - aphanitic black graphitic argillite - graphite content is 50 to 60% - Argillite is thinly bedded at 40 to 50' to core box - contains numerous randomly oriented fractures with calcite, chlorite & sulfide filling - sulfides - fine dissem. py & blks	1.5	250	100		246		248	
				282-284	Dacite - fine grained to aphanitic, light green - Dacite - moderately fractured - randomly oriented fractures. - sulfides - fine dissem. py		270	100					
				284-288	Chlorite Carbonate Schist - fine to aphanitic, light green - moderately schistose - intense carbonate alteration.	3.5		100					
				288-294	Dacite - fine grained to aphanitic, light green - Dacite - moderately fractured - sulfides - fine dissem. py	1.0	290						
				Sample 290' AM07161: Balance of log previously filed for assessment									

SECTION	ALTERATION				FRACTURING	MINERAL GEOLOGY	COMMENTS:	AVE CORE RECY / HOLE	% SULPHIDES	DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SAMPLE INTERVAL	% RECY. SAMP INT.	ESTIMATED
	Pyrite	Chlorite	Talc	Other											
1							55-86 <u>Dacite Tuff</u> - contains random oriented calcite, quartz rich veins - sulfides - very fine grained dissem py & po, with py & po along fractures & minor blebs.	Tr		100		BQ			
2							66-71 <u>Rhyo - Dacite Tuff</u> fine grained to aphanitic - light green - numerous small fragments of chlorite, calcite - sulfides present are fine dissem py throughout	0.5	70						
3							71-94 <u>Andesite</u> - fine grained to aphanitic - dark green - weak to moderately chloritized. - biotite rich - calcite & chlorite fracture filling - fractures are widely spaced and randomly oriented - sulfide content in unit is trace amounts of fine dissem. py & po	Tr	80						
4							84 to 85 - minor banding of chlorite & feldspars - 92 - minor interbed of chert & fuchite fragments - fragments are $\frac{1}{8}$ " in size, with minor amounts of py filling			100					
5							94-101 <u>Andesite Tuff</u> - fine grained - dark green - weak to moderately chloritized - contains a few small fragments of quartz & feldspar and small carbonated felsic frags - sulfides present as very fine dissem. mineralization and small blebs - py & po	0.5		100					
6							101-105 <u>Banded Chert</u> - aphanitic - dark grey green - calcite & chlorite fracture filling - banding at 60 to 70% to core box - sulfides - fracture filling and minor blebs	0.5							
7							105-115 <u>Andesite Tuff</u> - fine grained to aphanitic - dark grey - weakly chloritized - contains minor small fragments of quartz & feldspar, fuchite - contains randomly oriented calcite veins - minor fine grained dissem. py	Tr	110						
8							115-119 <u>Dacite</u> - fine grained to aphanitic - light grey green - fine dissem. py - biotite rich	Tr		100					
9							119-122	27%	120						

HOLE NO. M 9

PROJECT: Manor

PAGE NO: 4 OF 13

CASING COLLAR ELEV.:

GROUND ELEV.:

DATE STARTED: Nov 18/81

REF. TO CLAIM CORNER:

COORDINATES

N.

E.

DATE FINISHED: Nov 24/81

SCALE: 1" = 10'

INCLINATION: -57°

BEARING:

TOTAL DEPTH: 742'

LOGGED BY: G Cornish

ALTERATION				FRACTURING	MINERAL GEOLOGY	COMMENTS:	AVE CORE REC'Y / HOLE	% SULPHIDES	DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SAMPLE INTERVAL	% REC'Y SAMP INT	ESTIMATED	
Albite	Calcite	Talc	Other												
						176-194 <u>Andesite Tuff</u> - fine grained medium green - Thinly bedded Andesite Tuff - contains numerous small fragments - chlorite felsic - contains minor amounts of randomly oriented calcite filled fractures - bedding is at 50-60° to core box. 188.2 & 191 to 192 - minor interbed of altered Dacite Tuff with large fragments of feldspar & chlorite carbonate - sulfides are fine dissem py & po - as fracture fill	20%		100	BQ					
						<u>Dacite Tuff</u> - fine grained light greyish green - contains numerous very small fragments - chlorite & felsic frags - minor amounts of chlorite fracture filling & seams - weak carbonate alteration as blebs and veins; veins are randomly oriented - @ 208' minor interbed of massive Dacite - sulfides - minor fine dissem py & po. also as small cubes along fractures.	1.5%	190	100	Y					
						194-212 <u>Dacite Tuff</u> - fine grained light greyish green - contains numerous very small fragments - chlorite & felsic frags - minor amounts of chlorite fracture filling & seams - weak carbonate alteration as blebs and veins; veins are randomly oriented - @ 208' minor interbed of massive Dacite - sulfides - minor fine dissem py & po. also as small cubes along fractures.		200	100						
						212-217 <u>Cherty Basalt</u> - fine grained to ophanitic light greyish green cherty basalt - highly fractured with quartz calcite veins - sulfides present 3% as fracture fill & blebs	3%		100						
						217-226 <u>Talc Carbonate Chlorite Schist</u> - fine grained to ophanitic - light green strongly schistose - chlorite & carbonate alteration - as veins, fracture filling - 219-221 - quartz rich with ZnS & Py - rock is very soft - sulfides throughout and are fine dissem Py	20% 2%	220	100						
						226-231 <u>Dacite Tuff</u> - fine grained light greyish green - minor amounts chlorite - calcite fracture filling			100						
						231-235 <u>Rhyolite</u> - ophanitic - light green to white - Rhyolite - minor amounts of dissem py - chlorite calcite fracture fill	1.5%	230	100						
						235-263 <u>Dacite Tuff</u>			100						



Established 1928

Swastika Laboratories

A Division of Assayers Corporation Ltd.

Assaying - Consulting - Representation

Geochemical Analysis Certificate

1W-3567-RG1

Company: **R.A. MacGregor**

Date: **AUG-06-91**

Project: -

Copy 1. 28 FORD ST. SAULT STE. MARIE ONT.

Attn:

We hereby certify the following Geochemical Analysis of 1 SAWN CORE samples submitted JUL-31-91 by .

Sample Number	Au ppb	Ag ppm	Cu ppm	Pb ppm	Zn ppm
M-9 735-737	21	0.7	504	119	3880

Certified by Donna Gardner

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

Swastika Laboratories
P.O. Box 10
Swastika, Ontario
P0K 1T0

INVOICE

25524

08-06-91

1 of 1

Registration Number: R 100294743

100 10

R. MacGregor
28 Ford Street
Sault Ste. Marie, Ontario
P6A 1J1

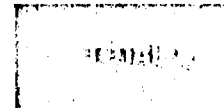
Same

QTY	UNIT	DESCRIPTION	UNIT PRICE	AMOUNT	TOTAL
1	1	Gr Assay	8.750	8.75	8.75
1	1	Ag Cu Pb Zn	7.250	7.25	7.25
1	1	Sample Handling	3.000	3.00	3.00
		Cert#HW-3567-R61			
		3-OSI @ 7 %, Excluded			1.33

Paid Aug 19, 1991
3471 JJA

TERMS

Net 30 Days



20.33

R.A. MacGREGOR

SWASTIKA LABORATORIES

P.O. BOX 10, SWASTIKA, ONTARIO

PHONE #: (705) - 642 - 3244 FAX #: (705) - 642 - 3300

REPORT No. : M9613

Page No. : 1 of 1

File No. : AU26RA

Date : AUG 1991

Oxides in % - Minors ppm

1W-3567-R01

I.C.A.P. WHOLE ROCK ANALYSIS

Lithium MetaBorate Fusion

SAMPLE #	SiO2	Al2O3	Fe2O3	CaO	MgO	Na2O	K2O	TiO2	MnO	P2O5	Cr2O3	Zr	Y	Cu	Sn	Ni	Co	LOI	TOTAL
	%	%	%	%	%	%	%	%	%	%	%	PPM	PPM	PPM	PPM	PPM	PPM	%	%
M-9 735-737	65.04	12.21	7.28	3.28	1.02	4.41	1.08	0.30	0.06	0.10	0.010	156	17	255	2945	60	30	3.34	98.12





TECHNICAL SERVICE LABORATORIES

DIVISION OF BURGNER TECHNICAL ENTERPRISES LIMITED

1301 FEWSTER DRIVE
MISSISSAUGA, ONTARIO
L4W 1A2

☎ (416) 625-1544 FAX: (416) 625-8368

CERTIFICATE OF ANALYSIS

SAMPLE(S) FROM Swastika Laboratories
P.O. Box 10
Swastika, Ontario
POK 1T0

REPORT No.
M9613

SAMPLE(S) OF Pulp

INVOICE #:
P.O.:

PROJECT: 1W-3567-RG1

	S
	ppm
M-9 735-737	37300

COPY:
INVOICE: Swastika

Aug 28/91

SIGNED _____



For enquiries on this report, please contact Customer Service Department.
Samples, Pulps and Rejects discarded two months from the date of this report.

Page 1 of 1

Swastika Laboratories
 P.O. Box 10
 Swastika, Ontario
 P0E 1T0

INVOICE

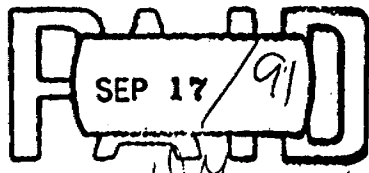
NO: 25802
 DATE: 09-03-91
 PAGE: 1 of 1

Registration Number: N 100294743

SHIP TO:

Falconbridge Fuel Ltd
 Box 1140
 Timmins, Ontario
 P4N 2H9

Same

ITEM NO.	QUANTITY	UNIT	DESCRIPTION	G	P	UNIT PRICE	AMOUNT
F075	1	1	White Fuel 66-10-19 3567-RBJ 88016	3		19.500	19.50
			3-0ST @ 7 %, Excluded				1.36
						SWASTIKA LABORATORIES  WITH THANKS PER <i>[Signature]</i>	
COMMENTS:						TOTAL ↓	
Net 30 Days						20.86	

FALCONBRIDGE

B. JEFFREY
 PROJ:8028

1W-3613-RG1

SWASTIKA LABORATORIES

P.O. BOX 10, SWASTIKA, ONTARIO
 PHONE #: (705) - 642 - 3244 FAX #: (705) - 642 - 3300

REPORT No. : M9499

Page No. : 1 of 1

File No. : AU15RA

Date : AUG-15-

Oxides in % - Minors ppm

I.C.A.P. WHOLE ROCK ANALYSIS

Lithium MetaBorate Fusion

SAMPLE #	SiO2	Al2O3	Fe2O3	CaO	MgO	Na2O	K2O	TiO2	MnO	P2O5	Cr2O3	Zr	Y	Cu	Zn	Ni	Co	LOI	TOTAL
	%	%	%	%	%	%	%	%	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	%	%
AM07153	61.14	13.79	6.69	1.50	5.09	2.24	2.56	0.70	0.09	0.14	0.065	552	14	15	60	150	25	4.37	98.35
AM07154	72.60	14.07	3.89	2.42	0.57	3.39	2.20	0.16	0.09	0.08	0.005	264	26	45	55	50	5	0.64	100.12
AM07155	60.60	14.05	8.13	4.07	4.86	4.82	0.56	0.68	0.13	0.14	0.040	164	16	50	115	100	25	1.54	99.62
AM07156	67.49	14.49	5.26	2.63	1.75	5.26	1.16	0.50	0.06	0.12	0.015	176	18	40	150	20	15	1.43	100.18
M-1 AM07157	46.68	9.90	10.34	8.47	12.98	1.78	3.90	0.83	0.18	0.90	0.125	162	22	< 5	120	220	55	2.77	98.86
AM07158	66.49	15.65	4.02	2.60	1.80	3.54	2.68	0.35	0.10	0.16	0.015	96	4	60	255	< 10	15	2.14	99.54
AM07159	67.17	15.74	3.81	1.96	1.60	5.99	2.54	0.35	0.06	0.14	0.005	102	4	30	135	50	10	1.40	100.76
AM07160	47.46	13.50	12.30	7.53	6.39	2.54	0.64	1.01	0.21	0.08	0.035	118	26	65	135	130	45	7.86	99.57
M-7 AM07161	65.14	15.24	3.08	3.65	0.76	7.07	1.16	0.30	0.06	0.10	0.010	152	4	40	40	< 10	< 5	3.03	99.60
M-9 AM07162	71.64	15.09	2.32	2.65	0.50	5.07	1.62	0.21	0.03	0.08	0.010	76	< 2	20	45	20	15	1.32	100.55
AM07163	71.59	15.37	2.68	2.02	0.70	5.36	1.46	0.23	0.03	0.10	0.010	96	6	30	50	70	10	1.03	100.56

Bob MacGregor's Grace Lake Property

Drill core samples.

- M-1 170' Chlorite - biotite altered basalt?
- 270' Felsic volcanic, no quartz eyes, minor sericite
- 370' Felsic coarse tuff, weak sericite
- 420' Laccosine-bearing mafic flow
- M-7 290' Msv. Rhyolite
- M-9 60' Rhyolite coarse tuff to fine lapilli tuff
- 200' Rhyolite coarse tuff

SIGNED :

[Handwritten Signature]



TECHNICAL SERVICE LABORATORIES

DIVISION OF BURGNER TECHNICAL ENTERPRISES LIMITED

1301 FEWSTER DRIVE
MISSISSAUGA, ONTARIO
L4W 1A2

☎ (416) 625-1544 FAX: (416) 625-8368

CERTIFICATE OF ANALYSIS

SAMPLE(S) FROM Falconbridge Limited (Timmins)
571 Moneta Avenue
P.O. Box 1140
Timmins, Ontario
P4N 7H9

REPORT No.
M9499

SAMPLE(S) OF Pulp

INVOICE #:
P.O.:

Bruce Jeffrey
PROJECT: 8028
016

	S ppm
AM07153	24700
AM07154	300
AM07155	7100
AM07156	14700
AM07157	600
AM07158	2000
AM07159	2800
AM07160	1300
AM07161	11000
AM07162	4000
AM07163	3100

COPY:
INVOICE:

Aug 16/91

SIGNED _____

Page 1 of 1



For enquiries on this report, please contact Customer Service Department.
Samples, Pulps and Rejects discarded two months from the date of this report.

Swastika Laboratories
P.O. Box 10
Swastika, Ontario
P0K 1T0

INVOICE

NO: 25746

DATE: 08-27-91

PAGE: 1 of 1

SOLD TO: Registration Number: R 100294743

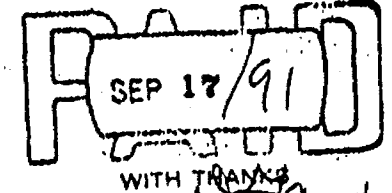
SHIP TO:

Falconbridge Expl Ltd
Box 1140
Timmins, Ontario
P4N 2H9

Same

ITEM NO.	QUANTITY	UNIT	DESCRIPTION	G	P	UNIT PRICE	AMOUNT
F075	11	1	Whole Rock	3		19.500	214.50
	11	1	Sample Handling	3		2.700	29.70
			Cert#1W-3613-RG1 #6028				
			3-GST @ 7 %, Excluded				17.09

SWASTIKA LABORATORIES



PER: *[Signature]*

COMMENTS:	TOTAL	261.27
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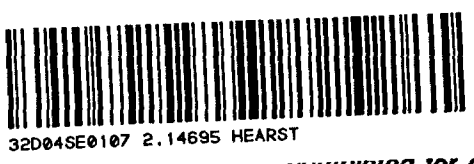
7 samples = 166.28

Report of Work Conducted After Recording Claim

Transaction Number
 DOCUMENT NO. []
 Mining Act No. 9280-0011 72-8

Personal information collected on this form is obtained under the authority of the Mining Act. This information will be used for correspondence. Questions about this collection should be directed to the Provincial Manager, Mining Lands Branch, and Mines, Fourth Floor, 159 Cedar Street, Sudbury, Ontario, P3E 6A5, teleph

- Instructions:**
- Please type
 - Refer to the Recorder.
 - A separate form must be completed for each Work Group.
 - Technical reports and maps must accompany this form in duplicate.
 - A sketch, showing the claims the work is assigned to, must accompany this form.



300
 sment work or consult the Mining

Recorded Holder(s) <i>RA MacGregor Skead Holding Ltd</i>	Client No. <i>162287</i>
Address <i>28 Ford St. Sault Ste Marie P.Q. P3N 1Y4</i>	Telephone No. <i>949-4250</i>
Mining Division <i>Larder Lake</i>	Township/Area <i>Hearst & Skead</i>
Dates Work Performed From: <i>July 29/91</i> to <i>March 9/92</i>	M or G Plan No. <i>G-3213, M-387</i>

Work Performed (Check One Work Group Only)

Work Group	Type
Geotechnical Survey	
Physical Work, Including Drilling	<i>Core logging, sampling</i>
Rehabilitation	
Other Authorized Work	
Assays	<i>Analysis of samples</i>
Assignment from Reserve	

RECEIVED
 AUG 25 1992
 MINING LANDS BRANCH

Total Assessment Work Claimed on the Attached Statement of Costs \$ 1870

Note: The Minister may reject for assessment work credit all or part of the assessment work submitted if the recorded holder cannot verify expenditures claimed in the statement of costs within 30 days of a request for verification.

Persons and Survey Company Who Performed the Work (Give Name and Address of Author of Report)

Name	Address
<i>Bruce Jeffrey</i>	<i>571 Moneta Ave Timmins Ont</i>
<i>R.A. MacGregor</i>	<i>28 Ford St Sault Ste Marie, Ont.</i>

(attach a schedule if necessary)

Certification of Beneficial Interest * See Note No. 1 on reverse side

I certify that at the time the work was performed, the claims covered in this work report were recorded in the current holder's name or held under a beneficial interest by the current recorded holder.

Date: *March 9/92* Recorded Holder or Agent (Signature): *[Signature]*

Certification of Work Report

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

Name and Address of Person Certifying: *RA MacGregor 28 Ford St Sault Ste Marie Ont.*

Telephone No. *949-4250* Date: *March 9/92* Certified By (Signature): *[Signature]*

For Office Use Only

RECEIVED
 LARDER LAKE
 MINING DIVISION

Total Value Cr. Recorded <i>81870</i>	Date Recorded <i>June 9/92</i>	Mining Recorder <i>[Signature]</i>	Received Stamp
	Deemed Approval Date <i>Sept. 7/92</i>	Date Approved <i>JUN 9 1992</i>	
	Date Notice for Amendments Sent		

TIME *1:00*



Ministry of
Northern Development
and Mines

Ministère du
Développement du Nord
et des mines

**Statement of Costs
for Assessment Credit**

**État des coûts aux fins
du crédit d'évaluation**

Transaction No./N° de transaction

Mining Act/Loi sur les mines

Personal information collected on this form is obtained under the authority of the Mining Act. This information will be used to maintain a record and ongoing status of the mining claim(s). Questions about this collection should be directed to the Provincial Manager, Minings Lands, Ministry of Northern Development and Mines, 4th Floor, 159 Cedar Street, Sudbury, Ontario P3E 6A5, telephone (705) 670-7264.

Les renseignements personnels contenus dans la présente formule sont recueillis en vertu de la Loi sur les mines et serviront à tenir à jour un registre des concessions minières. Adressez toute question sur la collecte de ces renseignements au chef provincial des terrains miniers, ministère du Développement du Nord et des Mines, 159, rue Cedar, 4^e étage, Sudbury (Ontario) P3E 6A5, téléphone (705) 670-7264.

1. Direct Costs/Coûts directs

Type	Description	Amount Montant	Totals Total global
Wages Salaires	Labour Main-d'oeuvre		
	Field Supervision Supervision sur le terrain	1350	1350
Contractor's and Consultant's Fees Droits de l'entrepreneur et de l'expert- conseil	Type		
Supplies Used Fournitures utilisées	Type Assays	166.28	
	"	20.33	
	"	20.86	
			208
Equipment Rental Location de matériel	Type		
Total Direct Costs Total des coûts directs			1558

2. Indirect Costs/Coûts indirects

** Note: When claiming Rehabilitation work Indirect costs are not allowable as assessment work.
Pour le remboursement des travaux de réhabilitation, les coûts indirects ne sont pas admissibles en tant que travaux d'évaluation.

Type	Description	Amount Montant	Totals Total global
Transportation Transport	Type Auto	114	
	RECEIVED	218.10	
	AUG 25 1992		
	MINING LANDS BRANCH		332
Food and Lodging Nourriture et hébergement	Meals - Motel	68.20	
	Motel	75	143
Mobilization and Demobilization Mobilisation et démobilisation			
Sub Total of Indirect Costs Total partiel des coûts indirects			475
Amount Allowable (not greater than 20% of Direct Costs) Montant admissible (n'excédant pas 20 % des coûts directs)			312
Total Value of Assessment Credit (Total of Direct and Allowable Indirect costs)			1870
Valeur totale du crédit d'évaluation (Total des coûts directs et indirects admissibles)			1870

Note: The recorded holder will be required to verify expenditures claimed in this statement of costs within 30 days of a request for verification. If verification is not made, the Minister may reject for assessment work all or part of the assessment work submitted.

Note : Le titulaire enregistré sera tenu de vérifier les dépenses demandées dans le présent état des coûts dans les 30 jours suivant une demande à cet effet. Si la vérification n'est pas effectuée, le ministre peut rejeter tout ou une partie des travaux d'évaluation présentés.

Filing Discounts

1. Work filed within two years of completion is claimed at 100% of the above Total Value of Assessment Credit.
2. Work filed three, four or five years after completion is claimed at 50% of the above Total Value of Assessment Credit. See calculations below:

Total Value of Assessment Credit	Total Assessment Claimed
	x 0.50 =

Remises pour dépôt

1. Les travaux déposés dans les deux ans suivant leur achèvement sont remboursés à 100 % de la valeur totale susmentionnée du crédit d'évaluation.
2. Les travaux déposés trois, quatre ou cinq ans après leur achèvement sont remboursés à 50 % de la valeur totale du crédit d'évaluation susmentionné. Voir les calculs ci-dessous.

Valeur totale du crédit d'évaluation	Évaluation totale demandée
	x 0,50 =

Certification Verifying Statement of Costs

I hereby certify:
that the amounts shown are as accurate as possible and these costs were incurred while conducting assessment work on the lands shown on the accompanying Report of Work form.

that as Recorded holder I am authorized
(Recorded Holder, Agent, Position in Company)

to make this certification

Attestation de l'état des coûts

J'atteste par la présente :
que les montants indiqués sont le plus exact possible et que ces dépenses ont été engagées pour effectuer les travaux d'évaluation sur les terrains indiqués dans la formule de rapport de travail ci-joint.

Et qu'à titre de _____ je suis autorisé
(titulaire enregistré, représentant, poste occupé dans la compagnie)

à faire cette attestation.

Signature [Signature] Date March 9/92

**R. A. MACGREGOR, P.ENG.
MINING ENGINEER**

28 FORD STREET
SAULT STE. MARIE, ONTARIO
P6A 4N4

P.O. B. 0
SAULT STE. MARIE
ONTARIO P6A 5N7

OFFICE:
~~XXXXXXXXXX~~
HOME:
705-949-4250
FAX:
705-949-2427

September 9, 1992

Mr. Dale Messenger
Mining Lands Branch
Laurentian University Campus
933 Ramsey Lake Road, 6th Floor
SUDBURY, Ontario P3E 6B5

Dear Dale:

Re: Your files 2.14701
2.14695
Notice of Deficiency

Further to our telephone conversation re above, I would submit the following explanation of the work carried out. The drill core from a number of holes from a 1980 drilling program was examined in detail by geologists from two different companies at different times. The existing drill logs were used as a reference and cross-checked as the logging proceeded. No significant differences were noted from the original logs, so a separate detailed log was not prepared. At the same time samples were taken at various intervals for analysis.

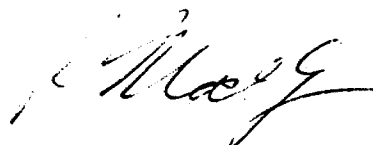
As you know, there have been some significant advances in recognition of ore environments through alteration patterns and elemental associations with these alteration zones. Most of this work post dates the original drilling. Also, as you will probably note from the analysis, different companies or geologists favour or place different weights on different elemental associations.

I might also add that one small zone which was noted on the original log but was apparently not considered significant, appears to be an exhalative horizon. This is noted in my report accompanying the assays.

I think the work submitted is a worthwhile addition to the data base, and should be approved notwithstanding that new drill core logs were not produced. The second examination by a different geologist, was in fact a second or different opinion on the same core. It is also worth noting that the presumed exhalite zone was noted on the second examination, and had been missed or overlooked on the first. This certainly confirms the value of a second or more examinations.

I trust the above explanation will allow you to approve the work submitted.

Yours truly



Robert A. MacGregor, P. Eng.

RAM/jh



Ontario

October 19/92

Ministry of
Northern Development
and Mines

Ministère du
Développement du Nord
et des Mines

Geoscience Approvals Section
Mining Lands Branch
Laurentian University Campus
933 Ramsey Lake Road, 6th Floor
Sudbury, Ontario
P3E 6B5

Telephone: (705) 670-5853
Fax: (705) 670-5863

Our Files: 2.14701
2.14695

Transaction #: W9280.00112
W9280.00111

September 3, 1992

R. A. MacGregor
28 Ford Street
Sault Ste. Marie, Ontario
P6A 4N4

Dear Sir:

**Subject: NOTICE OF DEFICIENCY, SUBSECTION 6(3) MINING ACT
REGULATIONS**

An examination of your Work Report indicates that the requirements of the Mining Act Regulations have not been fully met. This notice will outline the deficiencies and reductions in your submission and outline the steps you can take to remedy the deficiencies.

Note that the 90 day deemed approval provisions, Sub Section 6(5) of the Mining Act Regulations, are no longer in effect for this Work Report. You have 45 days from the date of this notice to file the revisions, outlined below, with the Mining Lands Branch. If you have not filed revisions by October 19, 1992, this work will be approved as outlined in the enclosed Assessment Work Credit Form. Please note that the Mining Lands Branch cannot issue extensions on this 45 day period.

DEFICIENCIES

The Minister may reject or reduce Assessment Work for a number of reasons, as outlined in Section 6(2) of the Mining Act Regulations. This Work Report is deficient under the following subsections:

.../2

September 3, 1992
R. A. MacGregor

- Subsection 6(2)(d): the work report is not accompanied by adequate technical support data as required by this regulation.

(c): the data presented in the work report is not in a comprehensible form.

REVISIONS:

The following are required revisions to the Technical Report:

- please supply copies of the new drill core logs for both of the above mentioned reports of work, for which 6 days of assessment work are being claimed.
- the work reported on report of work 9280.00111 (core logging) seems to be a duplication of the logging reported in report of work W. 9280.00112.

If these deficiencies are not rectified the total amount of assessment credit allowed will be \$594.00. This represents the cost of analysis. If cutbacks are required they will be done starting with the claim listed last and working backwards.

OPTIONS, REDUCTION OF WORK

If you are unable to remedy the deficiencies and the anniversary date has not passed, a number of options are available. Contact the Mining Recorder to discuss these options.

If you have questions regarding the revisions required by this correspondence, please contact Dale Messenger at (705) 670-5858.

Yours sincerely,



Ron C. Gashinski
Senior Manager, Mining Lands Branch
Mines and Minerals Division

DEM/jl
Enclosure:

cc: Mining Recorder
Larder Lake, Ontario



Ministry of
Northern Development
and Mines

Ministère du
Développement du Nord
et des Mines

Geoscience Approvals Section
Mining Lands Branch
Willet Green Miller Centre
933 Ramsey Lake Rd., 6th Fl.
Sudbury, Ontario
P3E 6B5

Telephone: (705) 670-5853
Fax: (705) 670-5863

Our File: 2.14695
Transaction #: W9280.00111

September 28, 1992

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

Dear Sir:

RE: Approval of Assessment Work on mining claims L 1145919 et al. in
Hearst and Skead Townships.

The deficiencies in this submission, as outlined in the Notice of
Deficiency dated September 3, 1992 have been rectified.

The assessment work credits listed on the original submission have been
approved as of September 24, 1992.

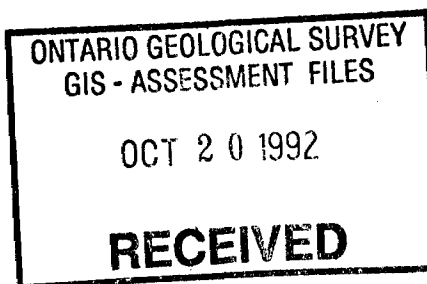
If you have any questions, please call Dale Messenger at (705) 670-5858.

Yours sincerely,

Ron C. Gashinski
Senior Manager, Mining Lands Branch
Mines and Minerals Division

DM
DEM/jl
Enclosures:

cc: Assessment Files Office
Toronto, Ontario



Resident Geologist
Kirkland Lake, Ontario

Costs

B. Jeffrey 1 day @ 300/day Core logging
R. MacGregor 3 days @ 300/day " "
" " 1/2 day @ 300/day Report

Total 1350

Assays

166.28

20.33

20.86

Total 208

Transportation

Timmins → Larder - core racks & return

380 km @ .3 114

Sault Ste Marie → Larder → core racks (3 days) →

Swaztika → Larder

727 km @ .3 218.10

Total 332

RECEIVED

AUG 25 1992

Meals 68.20

Motel 75

Total 143

MINING LANDS BRANCH

Total allowable indirect 312

Grand Total 1870