

34-1

Diamond Drilling



010

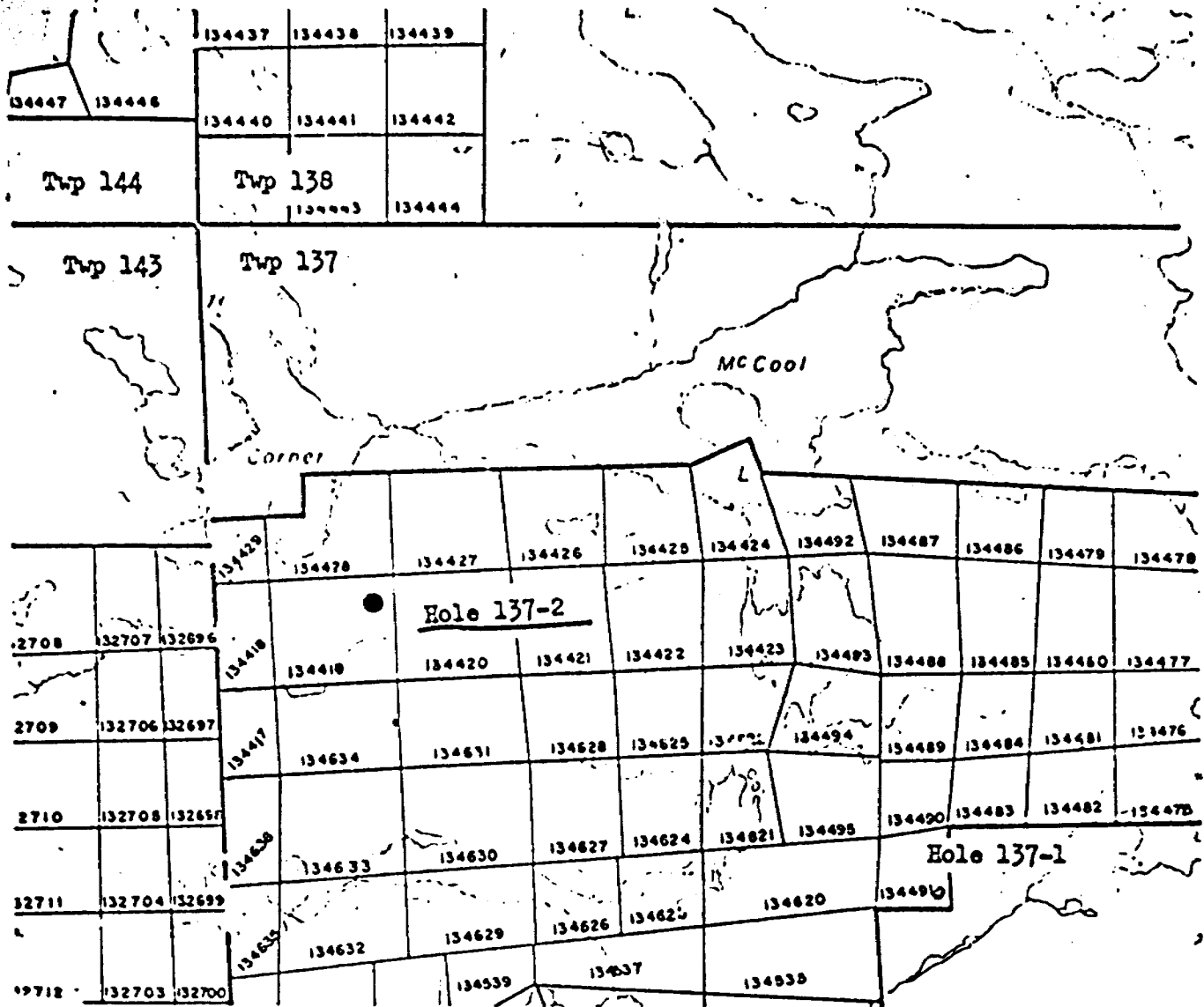
Township of GAIASHK  
(Formerly Twp. 137)

Report NO: 42

Work performed by: Kerr McGee Corporation

Claim NO	Hole NO	Footage	Date	Note
S 134419	137-2	5343.0'	Oct/68	

Notes:



ELLIOT LAKE PROJECT  
 Drill Hole 137-2  
 Township 137  
 Ontario, Canada

Hole 137-2 is located  
 450 feet south and 150 feet  
 west of the No. 2 Post of  
 Claim No. S-134419

Scale: 2 inches = 1 mile

1320



PROPERTY KERR-McGEE CORPORATION

TESTS

SHEET 1  
HOLE NO. 137-2

TOTAL DEPTH \_\_\_\_\_ CO-ORDINATES COLLAR \_\_\_\_\_  
 LOCATION Tr. 137 LAT. 45°S. DEP. 150'W. #2 Post of Clei 48-134419  
 LOGGED BY L. Brown & J.J. Hill ELEVATION 1200'  
 DATE BEGUN Oct. 29/68 AZIMUTH \_\_\_\_\_  
 DATE FINISHED Aug. 23/69 ANGLE vertical

FOOTAGE	LGTH.	DESCRIPTION	SAMPLE No.
0 - 721		Gonganda Formation	
727 - 1215		Serpent Formation	
1215 - 2075		Espanola Formation	
2075 - 2186		Bruce Limestone (Espanola Formation)	
2186 - 2246		Bruce Conglomerate (Bruce Formation)	
2246 - 3758		Upper Mississagi Quartzite (Mississagi Formation)	
3758 - 4202		Middle Mississagi Argillite (Pecora Formation)	
4204 - 4210		Whiskey Conglomerate (Ramsey Lake Formation)	
4210 - 5305		Matinenda Formation with diabase sills as follows:	
		Diabase 4227 - 4914	
		4917 - 4918	
		4927 - 4980	
5305 - 5343		Archean Basement	
		0-4182' Core stored at drill site	
		4182-5343 Core stored at Kerr-McGee warehouse in Algoma Mills, Ont.	
		Hole drilled by Bradley Bros., Noranda, Que.	

S 137-1306

*James J. Hill*

NOT TO BE REMOVED FROM  
 THE OFFICE OF THE RESIDENT  
 GEOLOGIST, ONT. DEPT. OF MINES  
 SAULT STE. MARIE, ONT.

ASSISTANT GEOLOGIST

RESIDENT GEOLOGIST  
SAULT STE. MARIE

RECEIVED  
AUG 7 1970

FOOTAGE	LGTH.	DESCRIPTION	SAMPLE NO.			
0		Cowganda Formation				
0 - 201		Conglomerate: grey; pebbles less than 5" in diameter; loosely packed with local zones tightly packed; polymictic with pebbles composed of pink granite, grey granite and quartz; pebbles subround to subangular; matrix is greywacke; grey; fine grained; angular to subangular; very poorly sorted; unit is massive; trace sulfides; interbedded argillite and arkosic zones less than 3" thick.				
201 - 203		Arkose: pink; coarse grained; subangular to subround; poorly sorted; abundant dark minerals; abundant interstitial siltstone; massive; trace sulphides.				
203 - 271		Conglomerate: same as from 0 - 201'.				
271 - 286		Arkose: same as from 201 - 203'.				
286 - 306		Arkose interbedded with Conglomerate: conglomerate is grey; polymictic; pebbles less than 2" in diameter; loosely packed; subangular; matrix is a grey, fine grained, greywacke. Arkose is pink; medium; feldspar consists of plagioclase and orthoclase; subround to subangular; poorly sorted; massive; trace sulfides in entire unit.				
306 - 313		Arkose: same as from 201 - 203'.				
313 - 328		Conglomerate: grey; pebbles less than 3" in diameter; loosely packed; polymictic; pebbles subround; matrix is greywacke; grey; fine grained; subround to subangular; poorly sorted; trace sulfides.				
328 - 339		Arkose: same as from 201 - 203'.				
339 - 367		Conglomerate interbedded with arkose: same as from 206 - 306'.				

FOOTAGE	LGTH.	DESCRIPTION	SAMPLE NO.		
567 - 574		Arkose: same as from 201 - 205'.			
574 - 681		Conglomerate: grey; pebbles less than 4" in diameter; fair to tight packing; predominant with local zones loosely packed; polymictic; pebbles subround; matrix is greywacke; grey; fine grained; angular to subangular; poorly sorted; massive; trace sulphides.			
681 - 702		Quartzite: light pink; medium grained; subangular; subaqui-granular; well sorted; abundant feldspar; predominant orthoclase; massive; sulfides nil.			
702 - 703		Conglomerate: grey; pebbles less than 1" in diameter; tightly packed; pebbles subround; polymictic; matrix is greywacke; dark grey; fine grained; subangular; poorly sorted; unit is massive; trace sulphides.			
703 - 727		Quartzite interbedded with Conglomerate: grey to pink; conglomerate zones less than 3" thick; pebbles less than 1" in diameter; loosely packed; pebbles subround; polymictic; matrix is greywacke; grey; fine to medium grained; angular to subangular; poorly sorted; quartzite is medium grained; abundant feldspar; predominantly orthoclase; subangular to subround; fair sorting; local bands of argillite less than 2" thick exhibit reworking; bedding planes at contacts between argillite and at 90° to axis of core; pebbles are disseminated throughout the unit; trace sulfides.			
727		Serpent Formation			
727 - 695		Feldspathic quartzite: pink to grey; medium to coarse; subround; fair sorting; abundant feldspar; abundant CaO; locally			

FOOTAGE	LGTH.	DESCRIPTION	SAMPLE NO.			
		abundant interstitial argillite; some lenses of subgrey-wacke; grey; medium grained; fair sorting; abundant cross-bedding; some indistinct bedding planes at 90° to the axis of the core; trace sulphides.				
895 - 902		Argillite: grey; thinly laminated; some penecontemporaneous slump; moderate CaCO <sub>3</sub> ; sparse alteration of hematite; local lenses of subgreywacke less than 3" thick; trace sulfides.				
902 - 913		Feldspathic Quartzite: grey to pink; medium to very coarse; subangular; poorly sorted; abundant dark minerals; massive; trace sulfides.				
913 - 919		Greywacke: grey; fine to medium grained; subangular to angular; poor sorting; abundant dark minerals; massive; trace sulfides.				
919 - 923		Siltstone: grey; abundant reworked argillite inclusions; sub-round; in a matrix of arenaceous siltstone with well rounded grains; matrix grades locally to a very silty, fine grained sandstone; trace sulfides.				
923 - 933		Greywacke interbedded with Argillite: grey; coarse; very poorly sorted; abundant feldspar; calcareous; abundant cross-bedding; abundant penecontemporaneous slump structures; some reworked greywacke in argillite lenses; massive; trace sulfides.				
933 - 947		Feldspathic quartzite: pink to grey; very coarse; subangular poorly sorted; sparse dark minerals; massive; trace sulfides.				
947 - 954		Arenaceous siltstone: grey to dark grey; very fine grained; abundant interstitial sandstone; very poorly sorted; sub-round; calcareous; massive; some argillite lenses less than				

SSM-1366

FOOTAGE	LGTH.	DESCRIPTION	SAMPLE NO.			
		2" thick; trace chalcopyrite.				
954 - 1028		Feldspathic quartzite: pink to grey; coarse to very coarse; poorly sorted; subangular to subround; abundant dark minerals; abundant cross-bedding; some bedding planes at 85° to the axis of core; locally grades to subgreywacke; trace sulphides.				
1028 - 1215		Quartzite: grey; coarse; subangular to subround; fair sorting; locally abundant interstitial siltstone; abundant feldspar; cross-bedded; trace sulfides.				
1215		Espanola Formation				
1215 - 1358		Limestone: grey to light green; fine to medium grained; abundant micrite in upper 2' of the unit; locally interbedded calcareous siltstone lenses less than 7" thick contains disseminated subrounded quartz grains; some zones are arenaceous; green color probably due to locally abundant chlorite; abundant reworking; abundant penecontemporaneous slump structures; bedding planes at 80° to axis of core; trace sulfides.			1634	1358
1358 - 1834		Diabase: grey to green; diabase texture; abundant chlorite; trace sulphides; gets progressively coarser grained to 1484 and finer grained after 1494; 1484 to 1494 is very coarse grained.				
1834 - 2075		Limestone interbedded with siltstone: grey to light grey; very fine grained; siltstone is very calcareous; abundant reworking abundant penecontemporaneous slump structures; bedding planes at 85° to axis of core; trace sulfides.				



FOOTAGE	LGTH.	DESCRIPTION	SAMPLE NO.			
2075		CONTACT: Espanola Limestone/Bruce Limestone				
2075 - 2173		Limestone: light grey; medium grained; abundant penconemporaneous slumps; abundant crenulated bedding which may be due to algae structure; some reworking; abundant chlorite; contact with overlying Espanola is irregular (disconformity) and at 45° to axis of core; some interstitial micrite; trace sulphides, predominately pyrite.				
2173 - 2186		Siltstone: light grey; abundant calcareous, abundant chlorite; bedding, marked by chlorite alteration, at 85° to axis of core; trace sulphides. Abundant reworking in lower 1' of unit; could be intra formation breccia; some fracturing; sulphides less than 5% in lower 1' of unit.				
2186 - 2246		Bruce Formation Conglomerate: dark grey; polymictic with pebbles composed of quartz, grey granite, argillite; pebbles less than 4" in diameter loosely packed with pebbles making up 5% to 10% of unit; matrix is greywacke: dark grey; fine to medium grained; poorly sorted; abundant mafic constituents; trace sulphides in unit with chalcopyrite and pyrrhotite locally less than 2%. Massive; some fractures quartz-filled.				
2246 - 2462		Mississagi Formation Feldspathic quartzite: light grey to grey; medium to very coarse grained; locally fine grained; poorly sorted; predominantly subround but some grains subangular; some interstitial argillite; some alternate feldspar; occasional quartz and black and red chert pebbles less than 1/2" in diameter;				

99GT-INSS

FOOTAGE	LGTH.	DESCRIPTION	SAMPLE NO.			
		local argillite partings less than 2" in diameter exhibit slump; cross-bedded; predominantly massive, with some bedding at 80° to the axis of core; argillite partially alternating to chlorite; trace sulphides throughout the unit.				
2462 - 2465		Quartzite: dark grey; medium grained; poor sorting; subangular to subround; abundant interstitial silt; massive; some cross-bedding; trace sulphides.				
2465 - 2800		Feldspathic quartzite: same as from 2246 - 2462. Noticeably less feldspar after 2600.				
2800 - 2805		Quartzite: dark grey; fine grained; abundant silt; trace sulphides; massive; poorly sorted.				
2805 - 3436		Quartzite: same as from 2246 - 2462.				
3436 - 3552		Quartzite, light grey with a greenish tinge, fine- to coarse-grained, with rare white quartz and black chert pebbles up to 1/4 inch in diameter. Cross-bedded. Other bedding planes are approximately 80° to the axis of the core. Numerous thin argillite partings. Trace of sulphides present, mostly pyrite.				
3552 - 3553		Lamprophyro dike, dark brownish grey, numerous biotite plates up to 2 mm in diameter.				
3553 - 3758		Quartzite same as from 3436 to 3552, though the unit is greyer in the last 50 feet.				
3758		Pecora Formation				
3758 - 3831		Argillite, gray to dark gray, silty in zones, interbedded with some fine-grained graywacke. The argillite zones have				

99321306  
 MSB

FOOTAGE	LGTH.	DESCRIPTION	SAMPLE NO.			
		varved type bedding from one to a few millimeters thick.				
		Bedding is approximately 80° to the axis of the core, Trace of sulphides present. Pyrite, pyrrhotite and chalcopyrite.				
3831 - 3835		Quartzite, light yellowish-gray, medium to coarse grained, cross-bedded. Bedding planes are approximately 80° to axis of core. Some sulphides concentrated along the bedding planes, mainly pyrite and pyrrhotite.				
4202		Argillite, as from 3758 to 3831 Top of the Ramsey Lake Conglomerate (Whiskey Conglomerate)				
4202 - 4210		Conglomerate, polymictic, grey granite and white quartz pebbles in a grey, dirty, quartzitic matrix. Some pebbles up to 1 1/2 inches in diameter but most are less than 1/2 inch. Poorly sorted, not well packed. Pebbles are sub-angular to sub-round and make up less than 5% of the unit. Trace of sulphides present. Grades almost imperceptibly into the unit below.				
4210		Katinenda Formation, Manfred member (formerly called Lower Mississagi Quartzite.)				←
4210 - 4227		Quartzite, light grey, coarse to very coarse grained, massive. Bedding planes approximately 75° to the axis of the core. Trace of sulphides present.				
4227 - 4914		Diabase, dark greenish grey, chloritic, with some specks of calcite within. The upper and lower parts of the unit are fine grained, grading into medium grained with typical diabase texture. A few hairline quartz filled fractures. At 4232', a 6 inch xenolith of the above quartzite. Trace of sulphides within				

SSM-1366

FOOTAGE	LGTH.	DESCRIPTION	SAMPLE NO.		
4914 - 4917		Quartzite, light grey to light grey with a very slight greenish tinge. Very coarse grained, almost conglomeratic with pebbles up to pea size of white quartz. Massive. Poorly sorted, feldspathic. Faint traces of cross-bedding with some sulphides concentrated along the cross-bedding planes.			
4917 - 4918		Diabase, fine grained			
4918 - 4927		Quartzite as from 4914 - 4917			
4927 - 4980		Diabase, fine grained, with some quartz filled fractures up to 1" thick.			
4980 - 5077		Quartzite as from 4914 - 4917			
5077 - 5084		Quartzite, light grey, very coarse grained, with quartz pebbles up to pea size. Massive, fractured, with a trace of sulphides present.			
5084 - 5134		Quartzite, light grey grading to a yellowish green to a pale yellowish green. Medium to very coarse grained Feldspathic crossbedded. Other bedding planes are approximately 75° to the axis of the core. A few 6 inch zones are argillitic and silty. Trace of sulphides concentrated along some cross-bedding planes. R.A. 3x background at 5102. Shear zone			
5134		Stinson Member of the Matinenda Formation.			
5134 - 5229		Quartzite, light greyish with a faint yellowish green tint. Fine grained, massive and uniform. Contains a glassy type break. At 5137' and 5138', 6 inch zones of coarser grained quartzite (like the above unit). Most likely in interfingering of the Manfred member.			
5229 - 5231		Quartzite, coarse grained and conglomeratic, with quartz pebbles whose boundaries are indistinct up to 1/2 inch in diameter. Pebbles sub-angular to sub-round. Specks of chlorite and			



THE TOWNSHIP

Twp. 138 (M.-1213)

137

DISTRICT OF  
ALGOMA

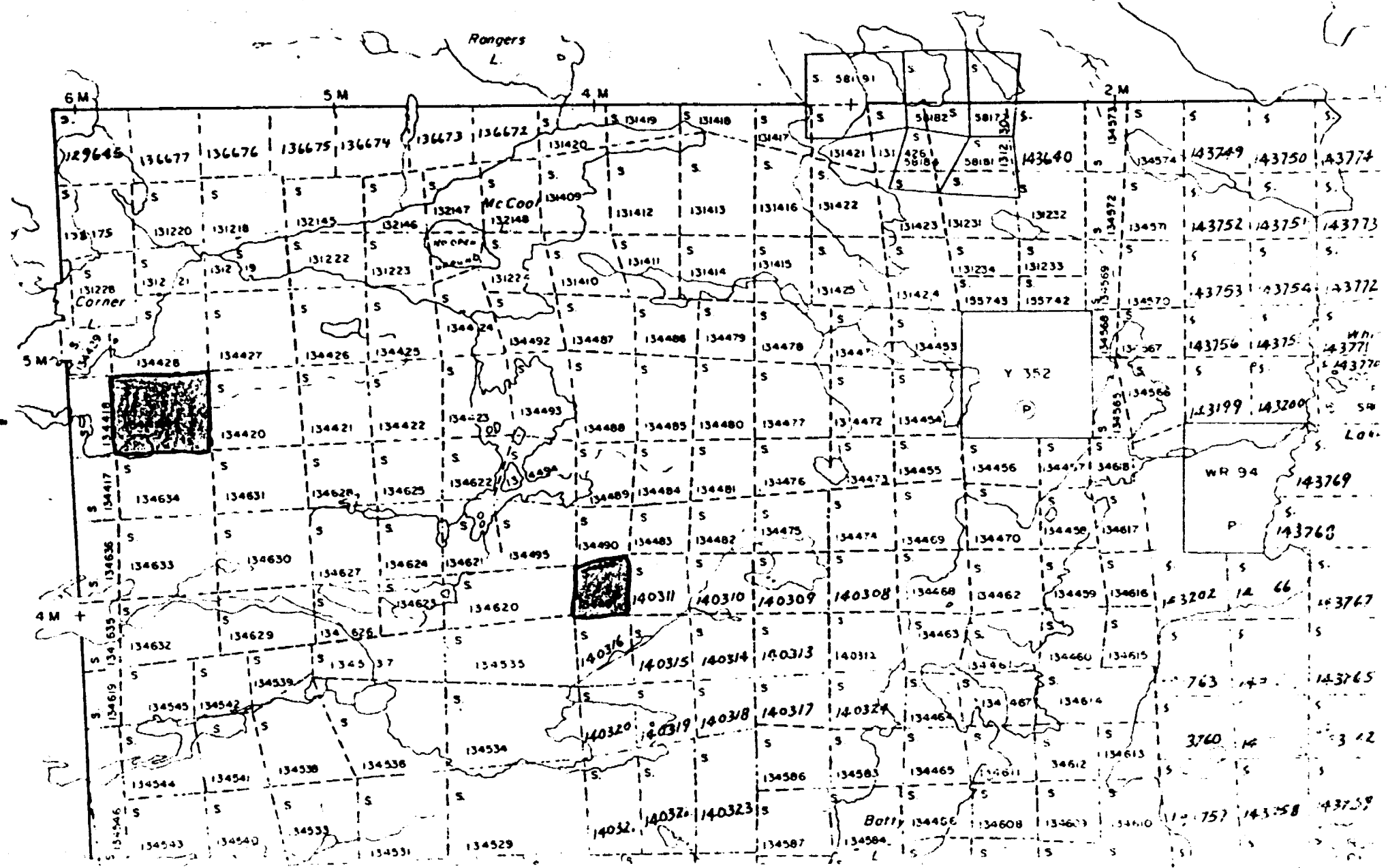
SUDBURY  
MINING DIVISION

SCALE: 1-INCH 40 CHAINS

1" = 40'

KERR-MOGEE  
CORP

M.-1215)



DEPARTMENT OF MINES

Core specimens and logs are available for examination by the resident geologist of the Ontario Department of Mines and Northern Affairs, 250 St. Mary

Company

*KERR-MCGEE CORP*

Hoist no.

*187-2*

Footage sampled

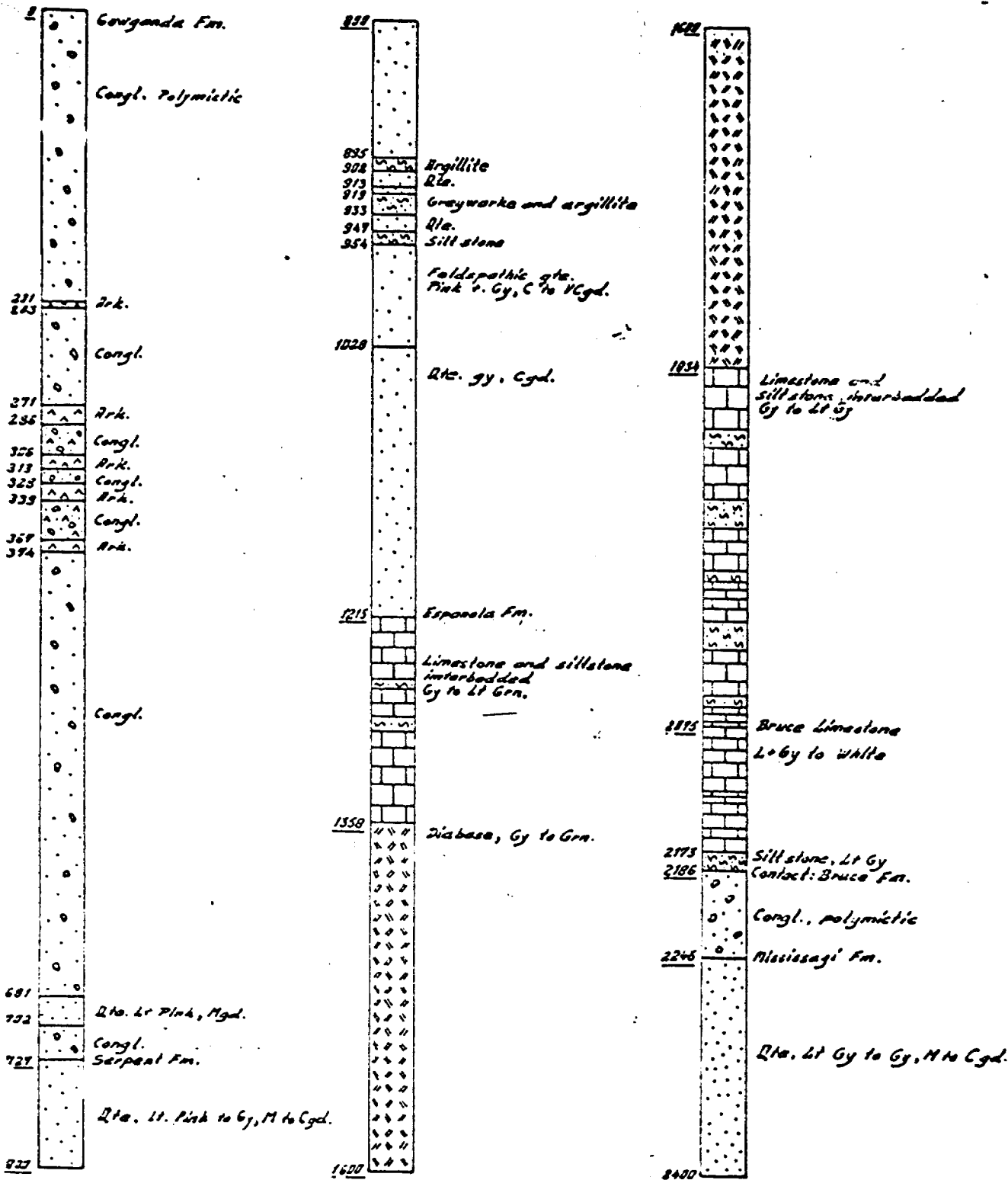
*0' - 5343'*

Rack no.

*C-9-274 C-11-1*

File no.

*SDN 1366*



DRILL PROGRESS LOG

DRILL HOLE NUMBER 137-2

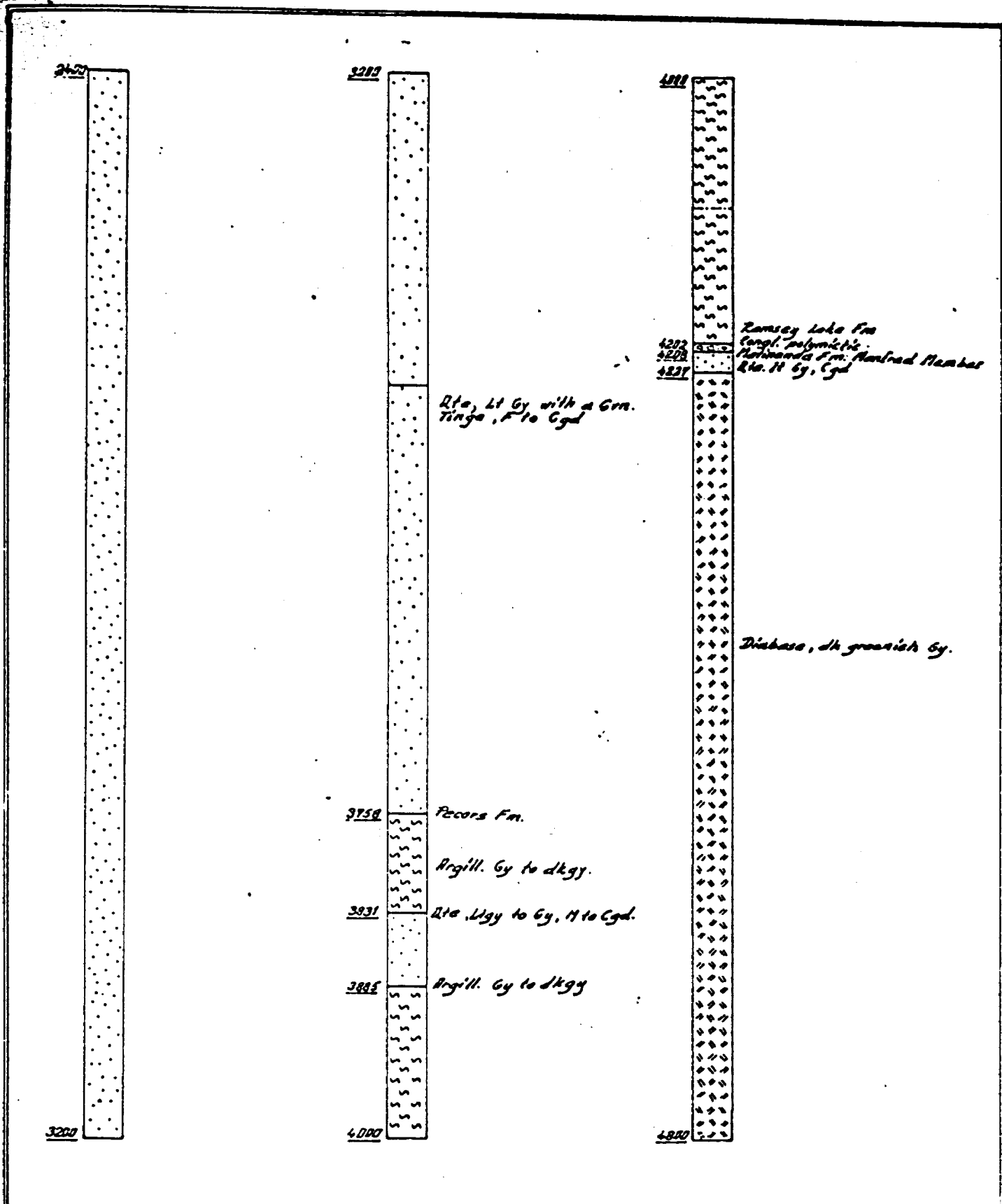
Date

KERR-McGEE CORPORATION

ELLIOT LAKE PROJECT

Scale 0 100 feet





DRILL PROGRESS LOG

KERR-McGEE CORPORATION

DRILL HOLE NUMBER 137-2

ELLIOT LAKE PROJECT

Date

Scale 0  100 feet

4989

4994

4997

4999

5134

5305

5363

5602

*Rte.*

*Diabase, fgd*

*Rte, 11 Gy. Ucgd*

*Rte, 11 Gy to yellowish grn.  
A to C'gd.*

*Sinson Member*

*Rte, 11 grayish, yellow  
green. fgd*

*Rte, 11 Gy to gy, fgd*

*Archaean metarolcanics,  
granstone*



DRILL PROGRESS LOG

DRILL HOLE NUMBER 137-2

Date

KERR-McGEE CORPORATION

ELLIOT LAKE PROJECT

Scale 0  100 feet

HOLE #137-2

ACID TESTS

<u>Depth</u>	<u>Degree</u>
30	90
100	90
200	88.5
300	89
400	89
500	89
700	89.5
800	89
900	88
1000	88
1100	88
1200	89
1300	88
1400	89
1500	89
1600	89
1700	88.5
1800	88.5
1900	89
2000	90
2100	89
2200	88
2400	86
2500	88
2600	85
2700	85
2800	86.5
2900	87
3100	85
3200	84
3300	82
3500	81
3600	80
3700	79
3900	78
4000	76
4100	75
4200	75
4400	75
4500	75
4600	75
4800	76
4900	75
5000	75
5100	75

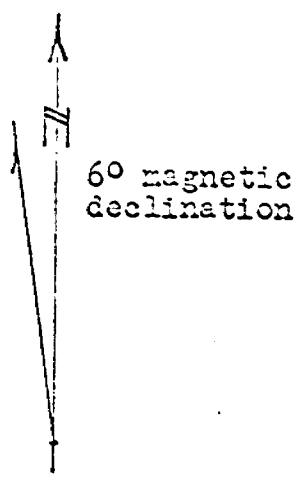
TROPARI TESTS

<u>Depth</u>	<u>Azmuth</u>	<u>Degree</u>
610	157	89
1200	161	88
1950	163	87
3000	131	85
3410	119	81
3790	111	78
4260	114	75
4740	119	76

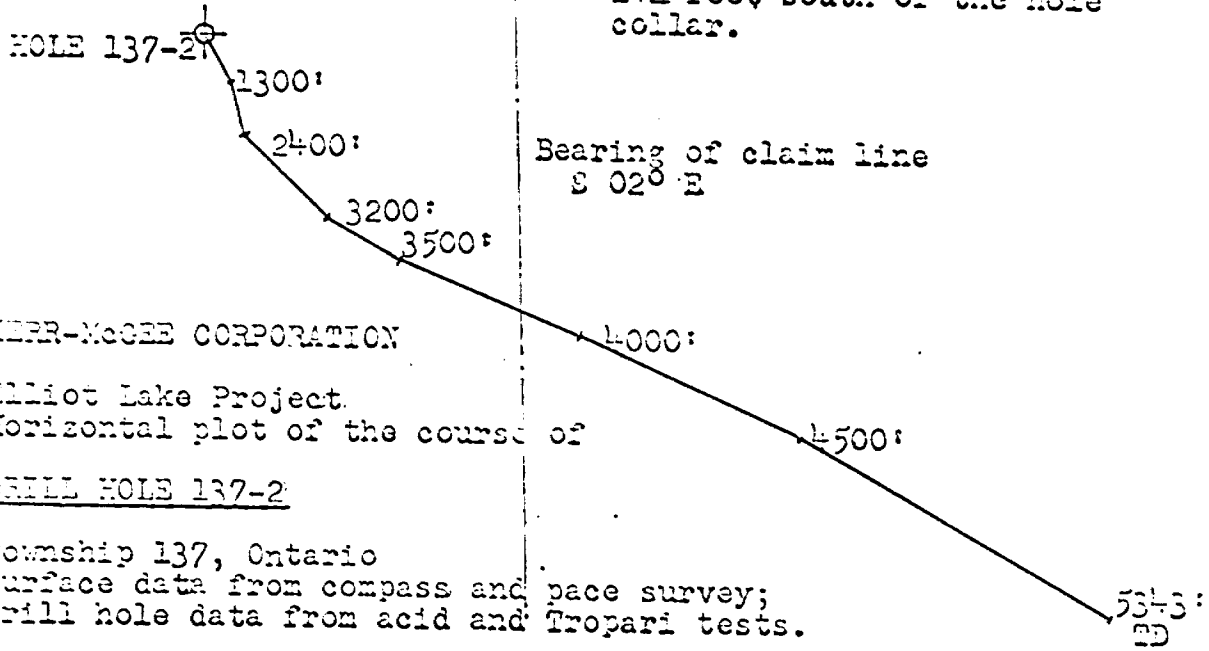
SSM-1366

S-134+28  
S-134+19

S-134+27  
S-134+20

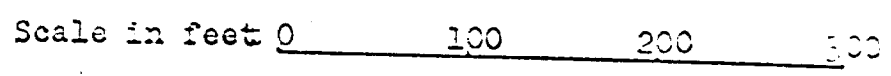


Hole 137-2 intersects the vertical projection of the claim line at a drill hole depth of 3850 feet at a point 170 feet east and 142 feet south of the hole collar.



MERR-McGEE CORPORATION  
Elliot Lake Project.  
Horizontal plot of the course of  
DRILL HOLE 137-2

Township 137, Ontario  
Surface data from compass and pace survey;  
drill hole data from acid and Tropani tests.



Plotted by \_\_\_\_\_  
K. G. Hatfield, P. Eng.

KERR-McGEE CORPORATION  
D. D. H # 137-2

