

ROTARY DRILL HOLE RECORD

Drilling Started: Jan. 12, 1989
Drilling Finished: Jan. 14, 1989
Drilling Co.: Midwest

Logged By: A. Casselman
Logged: May 4, 1989
Core Size: 3.5"

Drilling Co.: Midwest Dip: -90°

Hole Length: 250.0'

Overburden Depth: 83.0'

Claim No.: P 825807

Easting: 5810 E Northing: 775 N

Azimuth: 50° 09' 08" W. 82° 08' 31" N. Location: 400.0' at 218° To Claim Post No. 1

Property: Kipling

214.5' 250.0' Kss

Core Storage:

Mineral Research Canada

1 Industrial Blvd.

R. R. # 2

Parry Sound, ON

P2A 2W8

2.16012

Hole No: 89-5

SUMMARY			
From	To 	Description	
0.0'	83.0'	Glacial Clay Till	Overburden - Pleistocene
83.0'	94.0'	Kaolin Silica Sand (Ks	The state of the s
94.0'	97.0'	Clay	RECEIVED
97.0'	99.0'	Kss & Clay interbedded	MAY 2 6 1995
99.0'	102.0'	Sandy Clay	MINING LANGO BRIANCH
102.0'	106.0'	Clay	
106.0'	121.0'	Kss	en janetagen blur in vivil de distribuigs vigen verkere bereich bis regelijne vivie – to debendigt begenniste verkere.
121.0'	127.0'	Clay	Inches / huspanca
127.0'	146.0'	Kss	Marie
146.0'	148.0'	Clay	(705) 376 × 24 / BUS (705) 278-2416
148.0'	164.0'	Kss DATE_	- /N/m./ ₁ /1//}
164.0'	173.0'	Sandy Clay	
173.0'	184.0'	Kss	
184.0'	185.0'	Clay	
185.0'	208.0'	Kss	
208.0'	214.5'	Clay	

Detail Log 89-5

From	То	Sample No.	Description
0.0'	83.0'		Glacial Clay Till - alternating brown, fine grain, silty, pliable, clast-free material with greenish grey competent, material which contains 2.0 - 5.0% carbonate clasts & 15.0% gneissic clasts up to 1.5".
83.0'	89.0'	401	Kss - well sorted, fine grain, 83.0' - 86.0' - grey, 86.0' - 89.0' - yellow. 8.38% kaolin.
89.0'	94.0'	402	Kss - as above, yellow at upper contact 93.0' - 94.0', white. 6.51% kaolin.
94.0'	97.0'	403	Clay - competent, friable, light brown/grey. 58.0% kaolin.
97.0'	99.0'	404	Kss & Clay - interbedded, kss - well sorted, fine grain, light grey/brown, clay - pliable, light brown. 39.77% kaolin.
99.0'	102.0'	405	Sandy Clay - light to medium grey, pliable, increasingly competent downsection. 25.19% kaolin.
102.0'	106.0'	406	Clay - competent, friable, light brown/grey, yellow upper contact. 61.09% kaolin.
106.0'	111.0'	407	Kss - well sorted, fine to medium grain, 106.0' - 108.0' - moderate to intense yellow - decreasing downsection, 108.0' - 111.0' - white, 9.95% kaolin.
111.0'	115.0'	408	Kss - as above. 9.49% kaolin.
115.0'	119.0'	409	Kss - as above, white to light grey. 9.29% kaolin.
119.0'	121.0'	410	Kss - well sorted, fine to medium grain, white to buff, yellow at lower contact. 73.77% kaolin.
121.0'	123.0'	411	Clay - competent, friable, light brown and brown discontinuous laminations, occasional 1.0" kss interbeds. 8.43% kaolin.

122.0'	124.0'	412	Clay - competent, disc-like, greasy, buff. 78.53% kaolin.
124.0'	126.5'	413	Clay & Lignite - fissile, chocolate brown clay and black lignite interbedded on a fine scale. 31.42% kaolin.
126.5'	127.0'	414	Clay - competent, disc-like, greasy, medium yellow/brown. 66.73% kaolin.
127.0'	130.0'	415	Kss - light brown, medium grain, minor illite. 6.84% kaolin.
130.0'	134.0'	416	Kss - medium grain, coarsening downsection to coarse grain, white, heavies as banding, minor illite. 8.35% kaolin.
134.0'	138.0'	417	Kss - medium grain with frequent coarse clasts, medium grey, vari-coloured silica - sub-angular to sub-rounded, high percentage of black shard-like pieces of lignite, fissile angular, much grease on bag, drilling debris. 6.33% kaolin.
138.0'	142.0'	418	Kss - coarse grain, light grey, vari- coloured silicas, drilling debris. 7.34% kaolin.
142.0'	146.0'	419	Kss - as above, coarsening downsection to coarse grain in a white clay matrix. 9.16% kaolin.
146.0'	148.0'	420	Clay - competent, disc-like somewhat fissile, greasy, medium brown, few yellow laminations. 62.66% kaolin.
148.0'	154.0'	421	Kss - medium grain, medium brown, clay seam as previous at 150.0' - 150.5'. 17.22% kaolin.
154.0'	158.0'	422	Kss - coarse grain, white vari-coloured silica clasts. 9.34% kaolin.
158.0'	162.0'	423	Kss - coarse grain in a medium grain matrix, medium brown. 9.44% kaolin.
162.0'	164.0'	424	Kss - medium grain, larger clasts interspersed, light brown, 10.56% kaolin.
164.0'	169.0'	425	Sandy Clay - competent, fissile fine grain, buff, minor illite. 25.87% kaolin.
169.0'	173.0'	426	Sandy Clay - as above - lighter buff. 35.37% kaolin.

173.0'	177.0'	427	Kss - fine grain, buff. 22.00% kaolin.
177.0'	181.0'	428	Kss - fine grain, coarsening downsection to medium grain, medium grey, Devonian dolomitic siltstone, fish scale, crinoids, fossiliferous, & granitic fragments in addition to frequent larger smoky quartz. 8.03% kaolin.
181.0'	184.0'	429	Kss - medium grain, rare coarser clasts, light yellow brown. 6.61% kaolin.
184.0'	185.0'	430	Sandy Clay - competent, fissile, fine grain, medium brown. 50.51% kaolin.
185.0'	187.0'	431	Kss - fine grain, medium grey, minor illite. 10.96% kaolin.
187.0'	192.0'	432	Kss - medium grain, rare coarser clasts, light yellow brown. 7.16% kaolin.
192.0'	196.0'	433	Kss - medium grain, coarsening downsection to coarse grain, light brown. 4.51% kaolin.
196.0'	200.0'	434	Kss - coarse grain, white. 5.22% kaolin.
200.0'	205.0'	435	Kss - coarse grain, light brown, 4.91% kaolin.
205.0'	208.0'	436	Kss - coarse grain, chocolate brown. 21.75% kaolin.
208.0'	214.5'	437	Clay - some silty sections with illite enrichments, mottled with lighter material at lower contact, chocolate brown, carbonaceous, minor illite. 64.20% kaolin.
214.5'	219.0'	438	Kss - medium grain, fining downsection to fine grain, chocolate brown, 214.5 - 216.0' - grading to white. 10.46% kaolin.
219.0'	222.0'	439	Kss - fine grain, coarsening downsection to medium grain, white with minor illite. 12.13% kaolin.
222.0'	226.0'	440	Kss - medium grain, white with minor illite. 10.89% kaolin.
226.0'	230.0'	441	Kss - as above. 7.85% kaolin.
230.0'	235.0'	442	Kss - as above. 7.82% kaolin.

235.0'	240.0'	443	Kss - as above.	14.46% kaolin.
240.0'	245.0'	444	Kss - as above.	7.90% kaolin.
245.0'	250.0'	445	Kss - as above.	11.16% kaolin.

EOH - 250.0'

Section 89-5

Hole Length: 250.0'

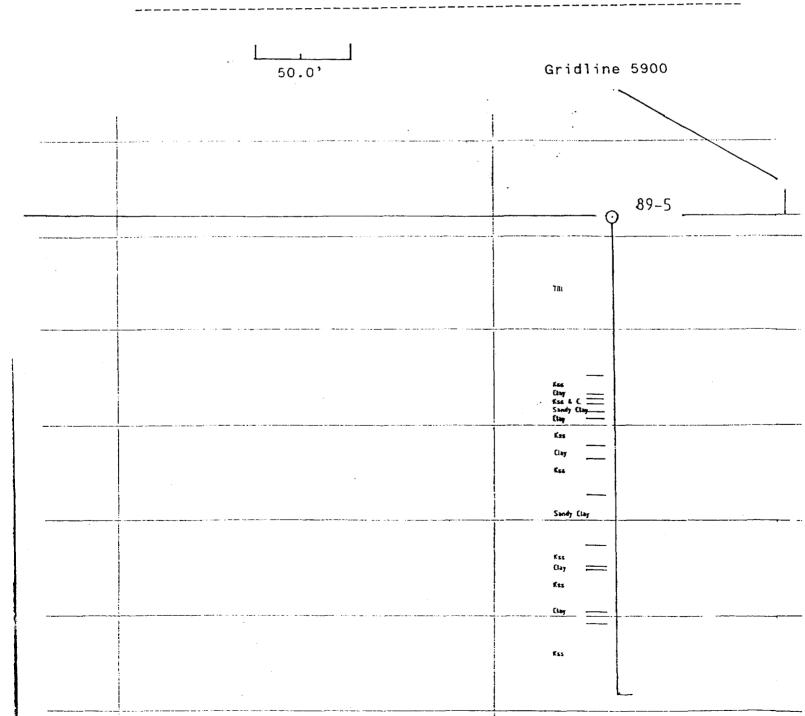
Overburden Depth: 83.0'

Astronomic Azimuth: 50° 09' 08" W. 82° 08' 31" N Location: 400.0' at 218° to claim post no. 1

Claim No.: P 825807 Easting: 5810 E Northing: 775 N

Dip: -90°

Scale: 1.0" = 50.0' or 1:600



50.0'

Gridline 5900

89-5

8.33% 6.51% 58.83% 39.77% 25.19% 61.87% 9.49% 78.73% 84.37% 78.53% 37.47% 66.73%

ROTARY DRILL HOLE RECORD

Drillin Drillin Dip: -9 Hole Le Overbur Claim N Easting Northir Azimuth	ng Finish ng Co.: M no° ength: 20 den Dept lo.: P 91 lo: 500 ng: 1275 n: 50° 09	Core Storage: Mineral Research Canada h: 75.0' R. R. # 2 135, Leased Parry Sound, On W P2A 2W
SUMMARY	, . -	MINING LANDS BRANCH
From	To	Description
0.0'	5.0'	Peat 9 1 CO 1 O
5.0'	8.5'	Fluvial Sediments 2.16012
8.5'	14.5'	Gravel
14.5'	31.0'	Fluvial Sediments
31.0'	33.0'	Sand MINERAL NESSARCH
33.0'	39.0'	Gravel Page 100 Graza
39.0'	45.0'	Fluvial Sediments FAX (705) 372-5123 NV 5005) 376-2416
45.0'	46.5'	Grave1
46.5'	47.25'	Fluvial Sediments
47.25'	48.6'	Gravel
48.5'	56.75'	Fluvial Sediments
56.75'	75.0'	Glacial Clay Till - Overburden - Pleistocene
75.0'	141.0	Kaolin Silica Sand (Kss) Cretaceous
141.0'	153.0'	Sandy Clay
153.0'	188.0'	Kss
188.0'	205.0'	Clay

Detail Log - D88-1

From	То	Sample No	o. Description
0.0'	5.0'		Peat
5.0'	8.5'		Fluvial Sediments - brown to buff clay, pliable, very fine grain, clast-free, some organics.
8.5'	14.5'		Gravel - brown to green/grey, coarse grain.
14.5'	31.0'		Fluvial Sediments - as previous, some clasts near lower contact.
31.0'	33.0'		Sand - medium brown to buff, poorly sorted, fine to medium grain, rare larger clasts up to 3.0".
33.0'	39.0'		Gravel - coarse grain with a sand matrix, carbonate and gneissic clasts, coarsening downsection to extremely coarse 3.5" at lower contact.
39.0'	45.0'		Fluvial Sediments - as previous.
45.0'	46.5'		Gravel - as previous.
46.5'	47.25'		Fluvial Sediments - as previous.
47.25'	48.5'		Gravel - as previous.
48.5'	56.75'		Fluvial Sediments - as previous.
56.75.	75.0'		Glacial Clay Till - dark green/brown, competent, calcareous, 3.0 - 5.0% carbonate clasts, 15.0% gneissic clasts, from 0.25" - 1.0".
75.0'	80.0'	17401	Kss - medium grain, white, darker at upper contact due to overburden contamination, slightly calcareous, entire hole dried, 10.56% kaolin.
80.0'	85.0'	17402	Kss - coarse grain, white, 7.65% kaolin.
85.0'	90.0'	17403	Kss - as above, 4.46% kaolin.
90.0'	95.0'	17404	Kss - as above, slightly finer, 8.08% kaolin.
95.0'	100.0'	17405	Kss - medium grain, white, 5.80%

kaolin.

100.0'	105.0'	17406	Kss - as above, some clay mottling of light buff, 22.13% kaolin.
105.0'	109.0'	17407	Kss - medium grain, white, saw dust contamination in material, 9.62% kaolin.
109.0'	112.0'	17408	Kss - as above, one clay clot, 3", light grey at 111.25', 12.00% kaolin.
112.0'	115.0'	17409	Kss - medium grain, light grey, 9.49% kaolin.
115.0'	119.0'	17410	Kss - medium grain, medium brown, 8.84% kaolin.
119.0'	123.0'	17411	Kss - medium grain as above, 9.11% kaolin.
123.0'	127.0'	17412	Kss - medium grain, light brown, haematite staining due to drilling debris, sulphureous smell, 5.49% kaolin.
127.0'	131.0'	17413	Kss - medium grain, rare coarser smoky quartz clast, light grey clay seams in lighter brown kss, moist, minor heavies, 10.99% kaolin.
131.0'	135.0'	17414	Kss - medium grain, light grey, dried, 11.97% kaolin.
135.0'	141.0'	17415	Kss - as above, clay enrichment in areas, buff in some areas, minor heavies, sulphureous smell, 17.04% kaolin.
141.0'	147.0'	17416	Sandy Clay - competent, fissile, buff, minor illite, 24.68% kaolin.
147.0'	153.0'	17417	Sandy Clay - as above, 20.33% kaolin.
153.0'	158.0'	17418	Kss - fine grain, buff, minor illite, 18.30% kaolin.
158.0'	165.0'	17419	Kss - medium grain, light brown, with a medium brown pliable clay seam of 4" at 163.25', minor heavies and illite, moist, 12.23% kaolin.
165.0'	170.0'	17420	Kss - medium grain, light brown, minor heavies, 7.70% kaolin.
170.0'	175.0'	17421	Kss - medium grain, light brown, sulphureous smell, 10.86% kaolin.

175.0'	181.0'	17422	Kss - medium grain, medium brown, 18.89% kaolin.
181.0'	188.0'	17423	Kss - as above, 21.90% kaolin.
188.0'	191.0'	17424	Clay - competent, disc-like, greasy, chocolate brown to buff downsection, exterior crystal growth, yellow crust-like, sulphureous smell, 93.04% kaolin.
191.0'	197.0'	17425	Clay - competent, disc-like, greasy, medium brown with rare yellow laminations grading to buff, 80.00% kaolin.
197.0'	201.0'	17426	Clay - competent, disc-like, greasy, buff with yellow mottling to chocolate brown carbonaceous, 82.08% kaolin.
201.0'	205.0'	17427	Clay - competent, disc-like, greasy, chocolate brown grading to buff, 87.97% kaolin.

EOH - 205.0'

Section D88-1

Claim No.: P 91135, Leased
Hole Length: 205.0'
Overburden Depth: 75.0'
Astromonic Azimuth: 50° 09' 27" W. 82° 14' 14" N.
Location: 700.0' at 243° to claim Post no. 1
Scale: 1.0" = 50.0' or 1:600
Northing: 1470 N
Easting: 4970 E
Dip: -90°

50.0' Gridline 1500

1-88d Peat/Sitty Cley Sitty Clay Gravel Silty Clay Sand Pebbly Sand/Gravel
Silty Clay
Pebbly Sand Silty Clay
Pebbly Sand
Silty Clay Till Pebbly Sand/Gravel KSS Sandy Clay KSS Sondy Clay KSS Clay(II gry-brn)

KSS
Clay(choc brn)
Clay(III brn-gry)
Clay(choc brn)
Clay(III brn-gry) 80'SCUTH

Claim No.: P 91135, Leased

Hole Length: 205.0'

Overburden Depth: 75.0'

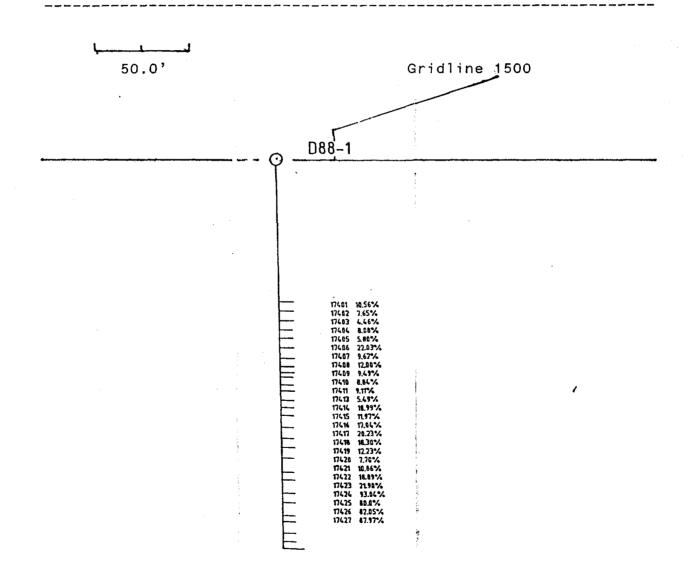
Astromonic Azimuth: 50° 09' 27" N, 82° 14' 14" W

Location: 700.0' at 243° to claim post no. 1

Scale : 1.0" = 50.0' or 1:600

Northing: 1470 N Easting: 4970 E

Dip: -90°



ROTARY DRILL HOLE RECORD

Drilling Started: November 10, 1988 Logged By: A. Casselman Drilling Finished: November 11, 1988 Logged: Oct. 11, 1989

Drilling Co.: Midwest

Dip Collar: -90 Hole Length: 250.0'

Overburden Depth: 105.0'

Claim No.: T 21582, Patented

300 W Easting: Northing: 1295 N

Azimuth: 50° 09' 28" W. 82° 14' 09"

Location: 1400.0' at 260° To Claim Post No. 1 Property: Douglas/Kipling

Core Size: 3.5" Core Storage:

Mineral Research Canada

R. R. # 2

Parry Sound, ON

P2A 2W8

Hole No: D88-2

SUMMARY

				(newspapers
From	То	Description		RECEIVED
0.0'	2.0'	Peat		MAY 2 6 1995
2.0'	23.0'	Fluvial Sediments		MINING LANDO LIKANCH
23.0'	78.0'	Glacial Clay Till		MINING EARLS EMANOR
78.0'	105.0'	Sand	Pleistoce	ene – Overburden
105.0'	170.0'	Kaolin Silica Sand	(Kss)	Cretaceous
170.0'	172.0'	Clay		
172.0'	174.5'	Kss		
174.5'	180.0'	Clay	annial the state of the state o	aller translak körklet (1800-1904 translation für die 1801-1800 traktion (1804-1800)
180.0'	186.0'	Sandy Clay	MINERAL	EFSEARCH
186.0'	200.0'	Kss	MixDussia Prast 20:	MANUS RR2
200.0'	201.0'	Clay	FAX (705) 378-5123	BUS (705) 378-2416
201.0'	202.0'	Kss	DATE	
202.0'	233.0'	Clay		
233.0'	250.0'	Kss		

From	To S	ample No	. Description
0.0'	2.0'		Peat
2.0'	12.0'		Fluvial Sediments - clay, buff to medium brown, very fine grain, pliable, silty at lower contact.
12.0'	78.0'		Glacial Clay Till - competent, dark green, 2.0 - 5.0% carbonate clasts, 10.0% gneissic clasts, from 0.25" - 1.0", silty from 33.0' - 75.0', more fissile.
78.0'	83.0'	15151	Sand (probably of glacial origin, no to very little clay, clasts of feldspar, quartz, yellow chert, and carbonates), medium grey and brown, medium grain, angular to sub-angular clasts. 12.51% kaolin.
83.0'	87.0'	15152	Sand - as above. 13.70% kaolin.
87.0'	95.0'	15153	Sand - as above (higher clay & moisture content). 13.67% kaolin.
95.0'	100.0'	15154	Sand - as above, (no clay). 9.67% kaolin.
100.0'	105.0'	15155	Sand - as above, 100.0 - 103.0'-medium to coarse grain, 103.0 - 105.0'- fine grain, some fossil wood fragments. 18.08% kaolin.
105.0'	109.0'	15156	Kss - white, medium grain (with rare larger yellow chert clasts and jasper, rounded, low clay content). 6.99% kaolin.
109.0'	115.0'	15157	Kss - as above, low clay content. 7.39% kaolin.
115.0'	120.0'	15158	Kss - medium grain, normal clay content, yellow/orange colour, minor illite and heavies. 4.73% kaolin.
120.0'	123.0'	15159	Kss - as above. 5.72% kaolin.
123.0'	126.5'	15160	Kss - coarse grain, white, (dried, rounded yellow chert, jasper, smoky quartz in a medium grain matrix). 7.16% kaolin.
126.5'	131.0'	15161	Kss - medium grey, with grey convolute laminations low clay content, minor illite and heavies. 12.30% kaolin.

131.0' 135.0'	15162	Kss - as above, with small lensic clay inclusions, light grey, pliable.
135.0' 140.0'	15163	Kss - medium grain, light yellow, low clay content. 5.27% kaolin.
140.0' 145.0'	15164	Kss - as above, coarsening downsection from fine to medium to coarse. 7.75% kaolin.
145.0' 150.0'	15165	Kss - as above medium grain. 5.80% kaolin.
150.0' 155.0'	15166	Kss - as above, some portions more clay-rich. 6.61% kaolin.
155.0' 160.0'	15167	Kss - as above. 9.77% kaolin.
160.0' 165.0'	15168	Kss - as above. 6.35% kaolin.
165.0' 170.0'	15169	Kss - as above. 1.77% kaolin.
170.0' 172.0'	15170	Clay - pliable, non-competent, light grey grading to medium purple to buff to pink. 68.41% kaolin.
172.0' 174.5'	15171	Kss - orange and brown banded, medium grain, with rare larger rounded smoky quartz clasts. 17.67% kaolin.
174.5' 175.0'	15172	Clay - greasy, non-pliable, competent, buff with lighter laminations. 68.13% kaolin.
175.0' 180.0'	15173	Clay - red and grey mottled, pliable, more red at lower contact, more grey at upper contact. 66.78% kaolin.
180.0' 186.0'	15174	Sandy Clay - grey with minor red interbeds, medium grain, varying silica contents, minor illite, some darker laminations. 26.13% kaolin.
186.0' 190.0'	15175	Kss – medium grain, light red, dried. 7.37% kaolin.
190.0' 195.0'	15176	Kss - medium grain, upper portion white, lower red, minor illite and heavies. 9.14% kaolin.
195.0' 200.0'	15177	Kss - as above, upper portion red, lower portion light brown. 5.38% kaolin.

•

•

200.0' 201.0	' 15178	Clay - black, significant yellow brown outer contamination with crystal growth, highly competent, non-pliable, greasy. 87.52% kaolin.
201.0' 202.0	' 15179	Kss - yellow/brown medium grain (dried). 7.54% kaolin.
202.0' 209.0	' 15180	Clay - chocolate brown, 201.0 - 204.0'-dried, greasy,, disc-like, 204.0 - 209.0'-lighter areas, pliable competent, minor carbonaceous fragments. 91.27% kaolin.
209.0' 213.0	15181	Clay - as above, pliable. 89.24% kaolin.
213.0' 217.0	15182	Clay - as above, dried, greasy. 75.85% kaolin.
217.0' 221.0	15183	Clay - as above, yellow at lower contact. 81.44% kaolin.
221.0'225.0	15184	Clay - highly competent, greasy, orange, white, yellow and black mottled grading to red. 70.81% kaolin.
225.0' 227.0	15185	Clay - red, some lighter and green areas, minor silica content in some portions, pliable, areas of apparent limonitic powder. 47.22% kaolin.
227.0' 233.0)' 15186	Clay - red, grading to weakly sandy clay, darker grey, weakly pliable. 69.85% kaolin.
233.0' 237.0)' 15187	Kss - medium grain, medium grey, interbedded with some minor sandy clay, medium and light grey mottled. 31.52% kaolin.
237.0' 241.0)' 15188	Kss - as above, yellow at lower contact, 2.0" rounded gneissic clasts with haematite staining. 18.84% kaolin.
241.0' 245.0)' 15189	Kss - as above, some green areas, limonite and haematite enrichments, a partially decomposed clastic band of gneissic fragments at 243.5'. 15.01% kaolin.
245.0' 250.0)' 15190	Kss - medium grain, dried, some areas of green staining, generally light brown, darker laminations, concentrations of large flake muscovite/illite. 17.09% kaolin.

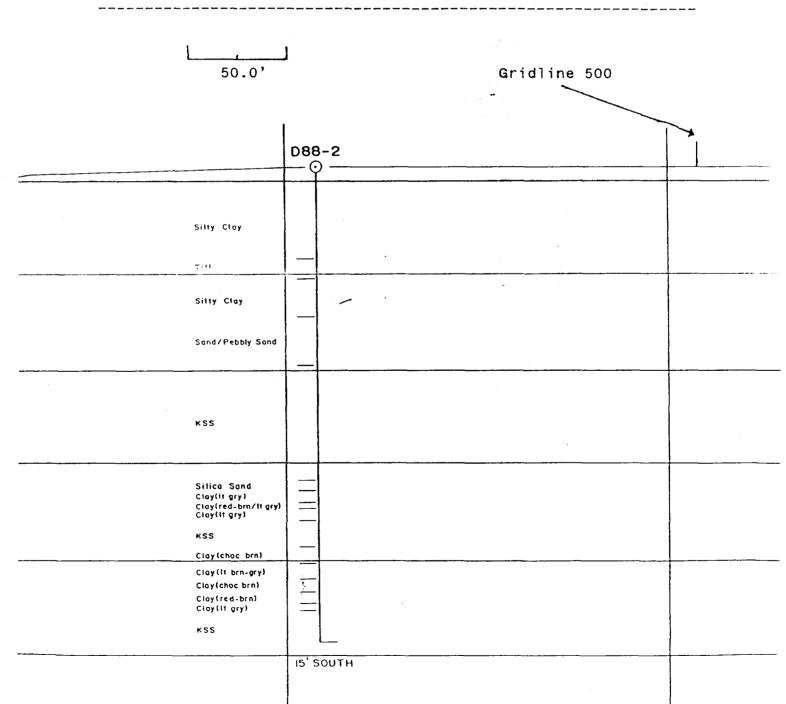
EOH - 250.0'

Claim No: Patented T 21582

Hole Length: 250.0'

Overburden Depth: 105.0' Scale: 1.0" = 50.0' or 1:600 Astronomic Azimuth: 50° 09' 28" W. 82° 14' 09" N Location: 1400.0' at 260° to claim post no. 1

Northing: 1295 N Easting: 300 W Dip Collar: -90°



Claim No: Patented T 21582

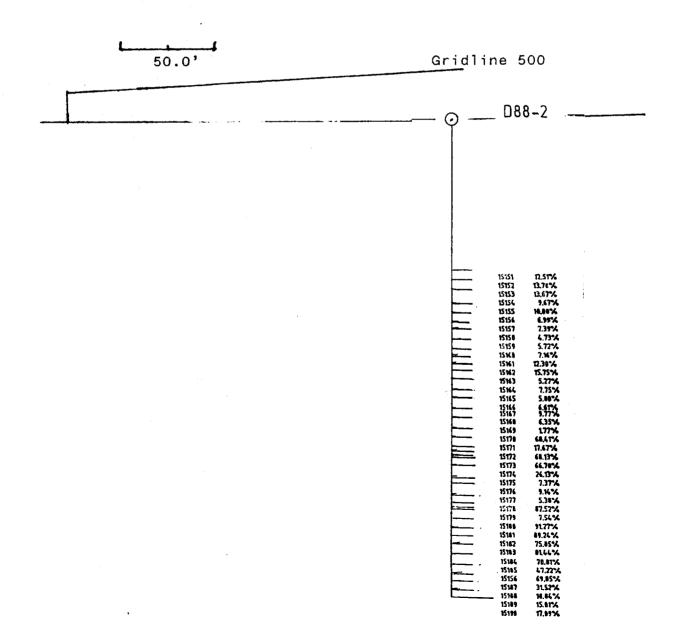
Hole Length: 250.0'

Overburden Depth: 105.0'

Scale: 1.0" = 50.0' or 1:600 Astronomic Azimuth: 50° 09' 28" W. 82° 14' 09" N

Location: 1400.0' at 260° to claim post no. 1

Northing: 1295 N Easting: 300 W Dip Collar: -90°



ROTARY DRILL HOLE RECORD

Drilling Started: Nov. 8, 1988 Logged By: A. Casselman Drilling Finished: Nov. 9, 1988 Logged: April 11, 1989 Core Size: 3.5" Drilling Co.: Midwest Dip: -90° Core Storage: Mineral Research Canada Hole Length: 195.0' Overburden Depth: 89.0' R. R. # 2 Claim No.: P 91135, Patented Parry Sound, ON P2A 2W8 Easting: 570 W Hole No.: D88-3

Northing: 1200 N Azimuth: 50° 09' 23" W. 82° 14' 15" N.

Location: 940.0'at 240° To Claim Post No. 1

Property: Douglas/Kipling 2.160-1-2

SUMMARY

From	То	Description
0.0'	4.5'	Fluvial Sediments RECEIVED
4.5'	13.0'	Grave1 MAY 2 6 1995
13.0'	40.0'	Glacial Clay Till
40.0'	62.0'	Sand
62.0'	68.0'	Glacial Clay Till
68.0'	76.0'	Sand
76.0'	89.0'	Silica Sand - Overburden - Pleistocene
89.0'	109.0'	Kaolin Silica Sand (Kss) Cretaceous
109.0'	114.0'	Kss & Sandy Clay
114.0'	133.0'	Kss
133.0'	134.5'	Clay MINERAL CHECH
134.5'	148.75'	KSS EFERT WARD, ONTARIO MADA PAR 2W8
148.75'	151.0'	Sandy Clay PAX (705) 318-5123 (705) 178-2416
151.0'	158.0'	Kss
158.0'	158.75	Sandy Clay
158.75	168.5'	Kss
168.5'	195.0'	Clay

Detail Log - D88-3

From	То	Description	
0.0'	4.5'		Fluvial Sediments - buff, very fine grain silty clay, massive, clast-free, minor organic content, at beginning of the hole.
4.5'	13.0'		Gravel - brown, coarse grain, some sandy matrix.
13.0'	40.0'		Glacial Clay Till - medium brown, fine grain silt content, clast-free, competent, fissile.
40.0'	62.0'		Sand - brown to greyish brown, medium grain, mostly silica sand with approximately 30.0% exotics, approximately 5.0% carbonate clasts, 40.0% gneissic clasts, grey competent till - 58.5' - 59.0'.
62.0'	68.0'		Glacial Clay Till - grey, fine grain silt content, competent, massive, rare larger clasts.
68.0'	70.0'		Sand - grey, medium grain, approximately 50.0% silica up to 0.25 cms.
70.0'	76.0'		Glacial Clay Till - as at 62-68.0'.
76.0'	89.0'		Silica Sand - greenish grey, fine grain, rare larger clasts up to 1.0", 30.0% exotics, minor heavies, not sent to Parry Sound - apparent washed out contact material.
89.0'	95.0'	17451	Kss - medium grain, light brown, light grey upper contact, calcareous, entire hole dried. 12.08% kaolin.
95.0'	99.0'	17452	Kss - medium grain, white, minor heavies and illite. 12.05% kaolin.
99.0'	103.0	17453	Kss - clay clotting and mottling, very light grey larger smoky quartz associated with clay enrichments, medium grain, white. 15.72% kaolin.
103.0'	109.0'	17454	Kss - coarse grain, vari-coloured silica, white. 7.04% kaolin.

109.0' 114.0'	17455	Kss & Sandy Clay - upper portion, (3/4") - buff to medium grain Kss, buff with very light coloured grey clay clotting to coarse grain Kss with vari-coloured silica, white.
114.0' 118.0'	17456	Kss - medium grain, and coarse grain alternating, white, minor illite.
118.0' 122.0'	17457	Kss - medium grain to fine grain, to coarse grain material in a medium grain matrix, white, minor illite. 8.91% kaolin.
122.0' 125.0'	17458	Kss - medium grain, white. 8.76% kaolin.
125.0' 129.0'	17459	Kss - as above. 13.95% kaolin.
129.0' 133.0'	17460	Kss - medium grain, light grey. 12.94% kaolin.
133.0' 134.5'	17461	Clay - competent, fissile, light grey to light yellow brown. 63.75% kaolin.
134.5' 139.0'	17462	Kss - medium grain, white, some medium grey sections, minor illite. 5.87% kaolin.
139.0' 144.0'	17463	Kss - as above. 8.15% kaolin.
144.0' 148.75'	17464	Kss - as above. 5.90% kaolin.
148.75'151.0'	17465	Sandy Clay - competent, fissile, buff, minor illite, saw dust in material, illite larger than normal. 24,89% kaolin.
151.0' 158.0'	17466	Kss - medium grain, light brown. 8.03% kaolin.
158.0' 158.75'	17467	Sandy Clay - competent, fissile, buff, minor illite, moulded. 56.08% kaolin.
158.75'164.0'	17468	Kss – medium grain, light brown. 13.59% kaolin.
164.0' 168.0'	17469	Kss - as above. 12.81% kaolin.
168.0' 173.0'	17470	Kss – as above. 15 95% kaolin.
173.0' 178.0'	17471	Kss - fine grain, 173.0' - 174.0' -

•

		abrupt contact with coarse, 174.0' - 178.0' - white, coarse grain, minor illite. 11.72% kaolin.
178.0' 183.0'	17472	Kss - as above (coarse grain). 11.22% kaolin.
183.0' 189.5'	17473	Kss - as above. 12.38% kaolin.
189.5' 195.0'	17474	Clay - competent, fissile, imbedded with coarse grain clasts, dark yellow, some minor red at upper contact, at 190.0' in situ sulphide formation, very dark grey, small crystalline aggregates, sulphureous smell. 87.22% kaolin.

EOH - 195.0'

Claim No: T 21582 Hole Length: 195.0'

Overburden Depth: 89.0'

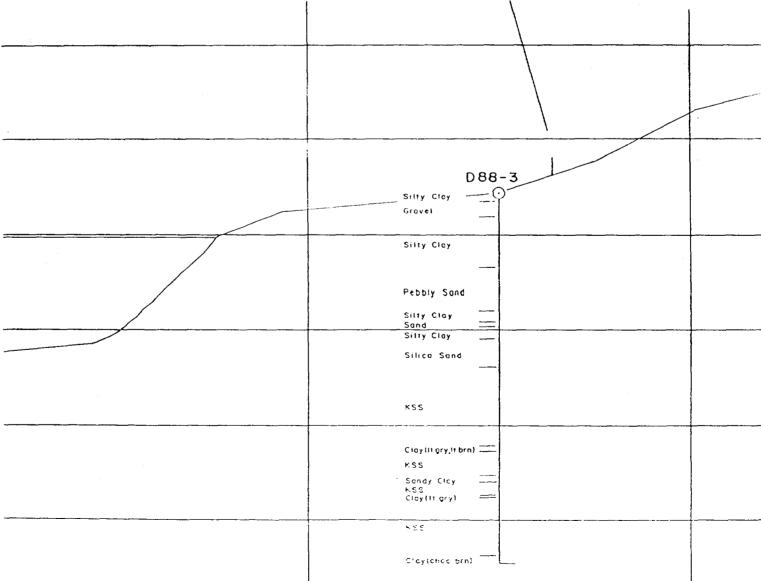
Astronomic Azimuth: 50° 09' 23" W. 82° 14' 15" N Location: 940.0' at 240° to claim post no. 1

Scale: 1" =50.0' or 1:600

Northing: 1200N Easting: 570 W

Dip: -90°

50.0' Gridline 600



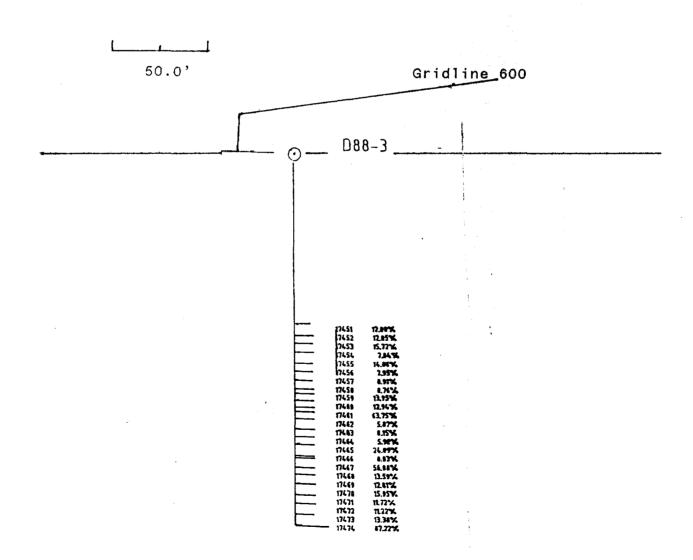
Claim No: P 91135 Hole Length: 195.0'

Overburden Depth: 89.0'

Astronomic Azimuth: 50° 09' 23" W. 82° 14' 15" N Location: 940.0' at 240° to claim post no. 1 Scale: 1" =50.0' or 1:600

Northing: 1200N Easting: 570 W

Dip: -90°



Mineral Research Canada

Core Storage:

R. R. # 2

P2A 2W8

Parry Sound, ON

Hole No.: D88-5

ROTARY DRILL HOLE RECORD

Logged By: A. Casselman Logged: April 7, 1989 Core Size: 3.5"

Drilling Started: Nov. 13, 1988 Drilling Finished: Nov. 13, 1988

Drilling Co.: Midwest

Dip: -90°

Hole Length: 250.0' Overburden Depth: 84.5'

Claim No.: T 21582, Patented

Easting: 200 W Northing: 1205 N

Azimuth: 50° 09' 24" N, 82° 14' 06" W

Location: 1180.0' at 245° To Claim Post No. 1

Property: Douglas/Kipling

SUMMARY

From	То	Description		FEGERALD
0.0'	1.0'	Peat]
1.0'	82.0'	Glacial Clay	Till	MAY 2 6 1995
82.0'	84.5'	Gravel -	Overbur	MINING LANGE IS, LOCE E
84.5'	199.0'	Kaolin Silica	Sand (Kss)	2.16012
199.0'	201.0'	Clay		6.1001 S
201.0'	203.0'	Kss		
203.0'	230.0'	Clay	MINERRAE	RESEARCH\
230.0'	246.0'	Kss	[Anal T	ATA SECONARIA
246.0'	247.5'	Clay	PARAY SO	ATTA 2WS
247.5'	247.75'	Kss	FAX (705) 378-5123 DATE	FIAS (395) 318-2416
247.75'	248.75'	Clay		
248.75'	249.0'	Kss		
249.0'	250.0'	Clay		

Det	аi	7	Log	_	D88-5
$D \in \Gamma$	α		LUS		700

From	To Sar	mple No.	Description
0.0'	1.0'		Peat
1.0'	82.0'		Glacial Clay Till - dark brown, competent, rare clasts up to 2.0", angular Devonian carbonates and Precambrian gneissic, lost core - 78.0' - 82.0'.
82.0'	85.0'		Gravel - grey to green/grey, coarse grain, some sandy matrix.
84.5'	90.0'	3401	Kss - medium grain, dark grey, poor quality due to surface contamination, 7.92% kaolin.
90.0'	95.0'	3402	Kss - medium grain, grey and brown banding due to clay impurities some yellow cherts, 7.03% kaolin.
95.0'	98.0'	3403	Kss & Sandy Clay - interbedded, kss - brown tinge, high moisture retention, yellow and pink silica clasts, coarse grain, sandy clay - light brown with grey discontinuous laminations, minor illite and heavies, 8.33% kaolin.
98.0'	105.0'	3404	Kss & Sandy Clay - as above, sandy clay becoming buff, 25.14% kaolin.
105.0'	110.0'	3405	Kss - medium grain, yellow brown, 2.58% kaolin.
110.0'	115.0'	3406	Kss - as previous, 6.74% kaolin.
115.0'	120.0'	3407	Kss - as above, 6.66% kaolin.
120.0'	122.5'	3408	Kss - fine grain, light grey, minor heavies and illite, drilling debris, 11.24% kaolin.
122.5'	128.0'	3409	Kss - medium grain, light grey, as above, 7.22% kaolin.
128.0'	135.0'	3410	Kss - high clay content, medium grain, light grey, heavies banding causing darker areas and minor illite, 12.28% kaolin.
135.0'	140.0'	3411	Kss - medium grain, (coarse clasts in a medium grain matrix), white with much yellow contamination, 20.13% kaolin.
140.0'	145.0'	3412	Kss - medium grain, fining downsection, light brown to light grey, heavies and illite as

minors, 8.84% kaolin.

145.0' 150.	.0' 3413	Kss - medium grain, light brown, darker grey sections, fining downsection to fine, darker sections due to heavies banding, minor illite and heavies, larger sub-rounded yellow chert clasts, 7.47% kaolin.
150.0' 155	.0' 3414	Kss - medium grain, with rare coarser clasts, light grey, slightly larger yellow chert clasts, 9.24% kaolin.
155.0' 160	.0' 3415	Kss - medium grain, some coarser areas with higher clay contents, white, minor heavies and illite, 8.48% kaolin.
160.0' 165	.0' 3416	Kss - fine grain, white, minor illite, 9.49% kaolin.
165.0' 170	.0' 3417	Kss - medium grain, few coarser clasts, white, minor illite, dried, 10.33% kaolin.
170.0' 174	.0' 3418	Kss - low clay content, medium grain, light brown, minor illite, dried, 8.63% kaolin.
174.0' 179	.0' 3419	Kss - medium grain, medium grey, light brown, minor illite, dried, 4.33% kaolin.
179.0' 187	.0' 3420	Kss - low clay content, medium grain, white, with some reddish bands, 8.20% kaolin
187.0' 192	.0'	Kss - medium grain, grading to fine, white, minor heavies and illite, missing at the time of sampling.
192.0' 197	.0' 3421	Kss - medium grain, medium brown, 11.14% kaolin.
197.0'199	.0' 3422	Kss - medium grain, chocolate brown, with rusty (hematitic) staining at upper bag contact, exterior crystal growth , white to light green, acicular crystals up to 3.0 cms, 12.61% kaolin.
199.0' 201	.0' 3423	Clay - competent, chocolate brown with lighter laminations, exterior crystal growth, small nodules, 91.97% kaolin.
201.0' 203	.0' 3424	Kss - medium grain, medium brown, 12.18%

kaolin.

203.0' 207.0'	3425	Clay - competent, greasy, light grey, with concord purple laminations, yellow exterior contamination, carbonaceous material, 93.87% kaolin.
207.0' 212.0'	3426	Clay - competent, disc-like, buff grading to chocolate, 81.62% kaolin.
212.0' 220.0'	3427	Clay - non-competent grading to competent semi-pliable, red\brown grading to chocolate brown carbonaceous, 84.62% kaolin.
220.0' 224.0'	3428	Clay - competent, disc-like, chocolate brown grading to green & grey mottled, 86.99% kaolin.
224.0' 230.0'	3429	Clay - competent, disc-like, less so that above, green/grey mottled to red & buff mottled, 78.38% kaolin.
230.0' 234.0'	3430	Kss - medium grain, medium brown, grading to light grey, minor illite, dried, 11.87% kaolin.
234.0' 238.0'	3431	Kss - medium grain, medium brown, minor illite and heavies, dried, 14.23% kaolin.
238.0' 242.0'	3432	Kss - clay-rich, medium grain, light brown, darker areas - more clay-rich portions, moist, 16.38% kaolin.
242.0' 246.0'	3433	Kss - medium grain, medium grey, minor illite and heavies, 13.01% kaolin.
246.0' 250.0'	3434	Clay & Kss - interbedded - clay - competent, disc-like, medium grey, grading to green/brown from 246.0' - 247.5', from 247.5' - 247.75' - kss - coarse grain white, from 247.75' - 248.75' - clay - competent, disc-like, medium green/brown, from 248.75' - 249.0' - kss - medium grain, yellow/brown, minor illite, from 249.0' - 250.0' - clay - competent, disc-like, red-brown mottled. 63.80% kaolin.

Claim No.: T 21582, Patented

Hole Length: 250.0'

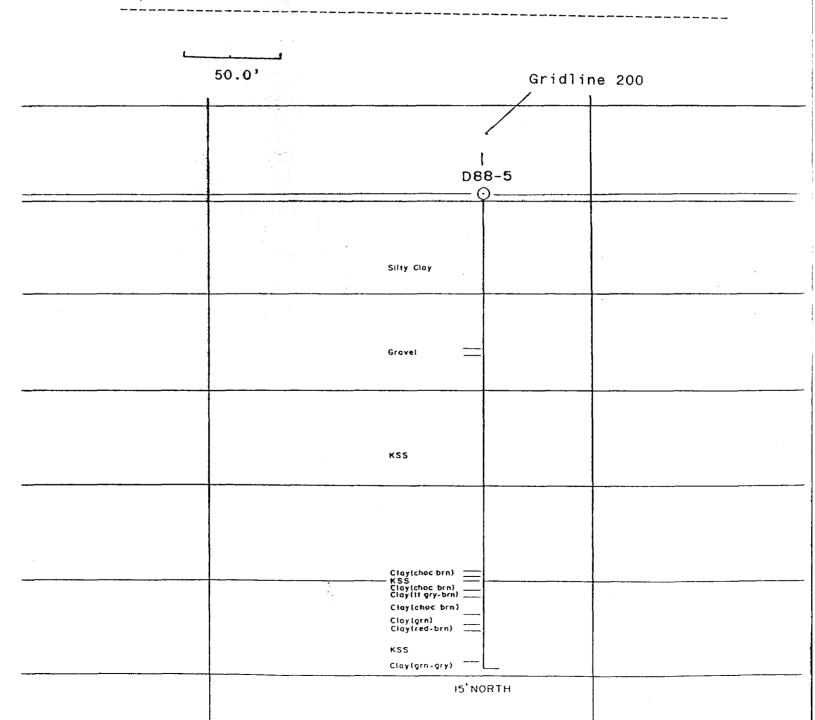
Overburden Depth: 84.5'

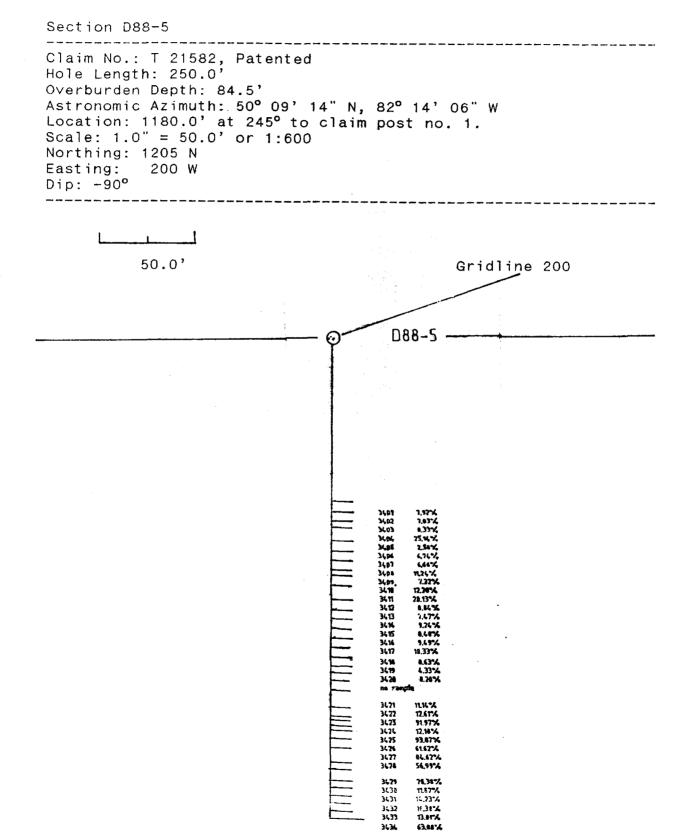
Astronomic Azimuth: 50° 09' 14" W. 82° 14' 06" N Location: 1180.0° at 245° to claim post no. 1.

Scale: 1.0" = 50.0' or 1:600

Northing: 1205 N Easting: 200 W

Dip: -90°





ROTARY DRILL HOLE RECORD

Drilling Started: Nov. 13, 1988 Drilling Finished: Nov. 14, 1988 Drilling Co.: Midwest Dip: -90° Core Size: 3.5" Core Storage: Hole Length: 250.0' Overburden Depth: 100.0' Claim No.: T 21582, Patented Easting: 200 W Northing: 1195 N Azimuth: 50° 09' 22" N, 82° 14' 00" W Location: 700.0' at 205° To Claim Post No. 1 Property: Douglas/Kipling			
SUMMARY			MAY 2 6 1995
From	То	Description	MPRINC CARROLL SPEANCH
0.0'	69.0'	Glacial Clay Till	THE PARTY OF THE P
69.0'	74.0'	Sand	
74.0'	97.0'	Glacial Clay Till	
97.0'	100.0'	Contact Zone - Cretaceous/	Pleis enel 0
100.0'	195.0'	Kaolin Silica Sand (Kss)	Cretaceous
195.0'	220.0'	Clay	
220.0'	226.0'	Sandy Clay	
226.0'	245.0'	Kss	
245.0'	250.0'	Clay & Kss	

EOH - 250.0'

FAX (705) 378-5123

PARTIE SOUND MILKIO
CANADAY AUS

FAX (705) 378-5123

BY WILLIAM TO SAY TO

Detail Log - D88-6

From	To Sample No.	Description
0.0'	69.0'	Glacial Clay Till - competent, fissile, green/grey, very fine grain silt, clast - free, calcareous.
69.0'	74.0'	Sand - greenish grey, fine grain, some silica, 10.0% - 15.0% clasts greater than 0.25", 5.0% large clasts up to 3.0", 10.0% - 15.0% gneissic clasts & most of remainder carbonate clasts.
74.0'	79.0'	Glacial Clay Till - greenish grey, competent, 3.0% - 5.0% carbonate clasts, 10.0% gneissic clasts, clasts generally 0.25" - 3.0%, sandy near lower contact.
97.0'	100.0'	<pre>Kss/Till - pebbly clay, grey/yellow colour, medium grain, upper contact.</pre>
100.0'	105.0' 3451	Kss - light grey, some yellow areas, medium grain, 100.0' - 101.0' - 0.5" quartz clasts, mafic volcanic clast at 101.25'. 6.20% kaolin.
105.0'	109.0' 3452	Kss - as above, light yellow to orange with rare light grey areas. 4.13% kaolin.
109.0'	114.0' 3453	Kss - as above, 109.0' - 110.0' & 113.0' - 114.0', light grey to white. 6.18% kaolin.
114.0'	119.0' 3454	Kss - as above, medium grain, light grey to yellow, rare 1" orange tinged bands. 5.42% kaolin.
119.0'	125.0' 3455	Kss - light grey to white, medium grain minor heavies and illite, rare coarse grain quartz clasts. 9.42% kaolin.
125.0'	130.0' 3456	Kss - medium grain, white, minor heavies and illite, entire hole dried, small white clay clots, 9.34% kaolin.
130.0'	135.0' 3457	Kss - as above, 5.85% kaolin.
135.0'	140.0' 3458	Kss - coarse grain, white, 5.62% kaolin.
140.0'	145.0' 3459	Kss - medium grain, light grey, high percentage of heavies, 10.43% kaolin
145.0'	150.0' 3460	Kss - medium grain, rare coarser clasts, white, 9.75% kaolin.

150.0'1	55.0'	3461	Kss - as above from 150.0' - 154.5', then haematite staining near 2 pieces of decomposed garnetiferous-silicious-haematitic conglomerates, 9.39% kaolin.
155.0'1	60.0'	3462	Kss - medium grain, some finer portions, white, minor illite, 9.19% kaolin.
160.0'1	65.0'	3463	Kss - medium grain, light grey, 12.10% kaolin.
165.0' 1	68.0'	3464	Kss - medium grain, white, 7.80% kaolin.
168.0' 1	71.75'	3465	Kss - as above, 9.67% kaolin.
171.75'1	74.0'	3466	Clay - competent, greasy buff, darkening downsection (becoming moist), rare red laminations, 45.11% kaolin.
174.0' 1	79.0'	3467	Kss - medium grain, white, 7.06% kaolin.
179.0' 1	82.0'	3468	Kss - as above, 9.42% kaolin.
182.0' 1	85.0'	3469	Kss - as above, 10.38% kaolin.
185.0'1	89.0'	3470	Kss - medium grain, fining downsection to fine, grading to sandy clay - 187.75' - 188.25, minor illite, light brown, 17.06% kaolin.
189.0'1	93.0'	3471	Kss - clay-rich, fine grain, light brown, nearly sandy clay, 20.14% kaolin
193.0'1	95.0'	3472	Kss - as above, 28.20% kaolin.
195.0'1	98.0'	3473	Clay - silty upper contact, competent, disc-like, yellow to yellow and grey mottled, more grey than yellow, 64.33% kaolin.
198.0'2	201.0'	3474	Clay - competent, greasy, chocolate brown, carbonaceous, 74.76% kaolin.
201.0'2	205.0'	3475	Clay - fissile, competent, chocolate brown, 93.52% kaolin.
205.0'2	208.0'	3476	Clay - competent, weakly pliable, chocolate brown, carbonaceous, 90.41% kaolin.
208.0'2	214.0'	3477	Clay - competent, pliable, chocolate brown, 76.68% kaolin.

214.0'219.0'	3478	Clay - competent, disc-like, greasy, light grey to green/grey to grey/brown, much garnetiferous material, 82.86% kaolin.
219.0' 220.0'	3479	Clay - fissile, light grey and medium brown mottled, light grey with a haematite stained area, 86.51% kaolin.
220.0' 225.0'	3480	Sandy Clay - competent, fissile, fine grain, light grey with yellow sulphureous and black carbonaceous seams at 225.5', sulphureous smell, 79.47% kaolin.
226.0' 230.0'	3481	Kss - clay-rich, increasing downsection, medium grain, light grey, minor illite, 20.71% kaolin.
230.0' 235.0'	3482	Kss - as above, 12.51% kaolin.
235.0' 240.0'	3483	Kss - as above, 17.54% kaolin.
240.0' 245.0'	3484	Clay & Kss - interbedded, competent, disc- like, greasy, chocolate brown clay with exterior crystal growth and sulphureous smell, interbedded with yellow medium grain kss, 38.96% kaolin.

EOH - 245.0'

Claim No.: T 21585, Patented

Hole Length: 250.0'

Overburden Depth: 100.0'

Astronomic Azimuth: 50° 09' 22" W. 82° 14' 00" N

Location: 700.0' at 205° tp claim post no. 1 Scale: 1.0" = 50.0' or 1:600

Northing: 1195 N Easting: BL 000

Dip: -90°

50.0' Gridline BL 000 1400 ELEV. D88-6 1350 Sitty Clay 1300 Sand/Pebbly Sand Till 1250 KSS 1200 Clay(It gry-brn) === KSS 1150 Clay(dk gry-brn) Clay(it gry) KS\$ KSS/Claylchoc brn) 1100 15'SOUTH

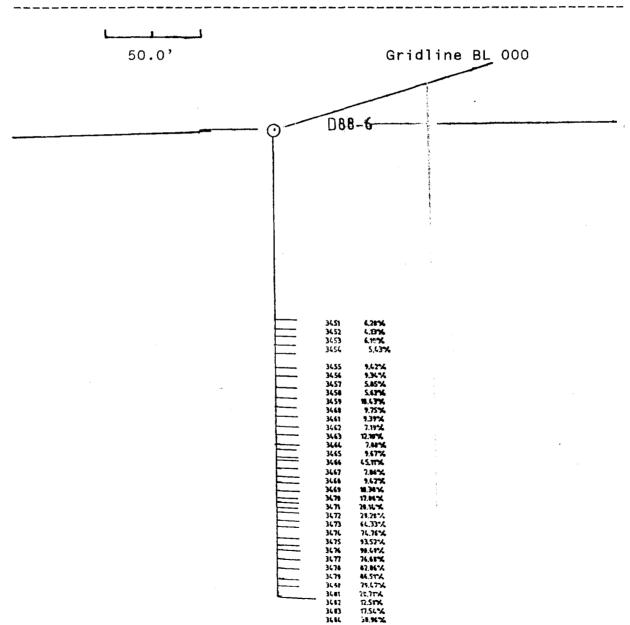
Claim No.: T 21582, Patented Hole Length: 250.0'

Overburden Depth: 100.0'

Astronomic Azimuth: 50° 09' 22" N, 82° 14' 00" W Location: 700.0' at 205° to claim post no. 1 Scale: 1.0" = 50.0' or 1:600

Northing: 1195 N Easting: BL 000

Dip: -90°



ROTARY DRILL HOLE RECORD

Logged By: A. Casselman Drilling Started: November 10, 1988 Drilling Finished: November 11, 1988 Logged: Oct. 11, 1989 Drilling Co. Midwest Core Size: 3.5" Dip Collar: -90° Core Storage: Mineral Research Canada Hole Length: 223.0' Overburden Depth: 60.0' R. R. # 2 Claim No.: P 91135, Patented Parry Sound, ON P2A 2W8 Easting: 505 W Northing: 1095 N Hole Number: D88-7 Azimuth: 50° 09' 20" W. 82° 14' 15" N. Location: 1100.0' at 216° To Claim Post No. 1 Property: Douglas/Kipling SUMMARY From To Description 0.0' 60.0' Glacial Clay Till Pleistocene - Overburden 60.0' 151.0' Kaolin Silica Sand 2.16012 151.0' 153.0' Sandy Clay 153.0' 164.0' Kaolin Silica Sand (kss) 164.0' 168.0' Kss & Clay RECEIVED 168.0' 209.0' Clay MAY 2 6 1995 209.0' 221.0' MINING LENGO DILL. 313 221.0' 223.0' Sandy Clay

EOH - 223.0'

MARINE ARCA

MINE ARCA

MARINE ARCA

MARINE

From	To Sam	ple No.	Description
0.0'	60.0'		Glacial Clay Till - medium brown, very fine grain silt content, massive, competent, areas of grey material, more silty near lower contact.
60.0'	65.0'	3251	Kss - medium grain, white, interbedded with darker clay-rich layers. 10.78% kaolin.
65.0'	68.0'	3252	Kss - as above. 8.78% kaolin.
68.0'	72.0'	3253	Kss - as above, fining downsection from coarse to medium, 0.5" - dolomitic clast, 1.0" granitic clast in coarse grain portion. 6.89% kaolin.
72.0'	76.0'	3254	Kss - coarse grain, white. 6.33% kaolin.
76.0'	80.0'	3255	Kss - medium grain, white, minor illite. 13.65% kaolin.
80.0'	84.0'	3256	Kss - medium grain, 83.0' - 84.0' - darker in colour, 2.0" clay clot, also wine coloured impurity banding. 22.71% kaolin.
84.0'	88.0'	3257	Kss - coarse grain , white, 84.0' - 84.25' - highly competent, large silica clasts - vari-coloured up to 1.0". 15.75% kaolin, 52.0% quartz, 45.0% kaolin, 3.0% illite by XRD.
88.0'	92.0'	3258	Kss - as above, clay at 87.5' - contains light grey sandy laminations. 14.35% kaolin.
92.0'	95.0'	3259	Kss - 92.0' - 92.25' interbedded with sandy clay, medium grain, white, 92.5' - 95.0' sandy clay - grey, pliable, fine grain, minor illite and heavies. 17.65% kaolin.
95.0'	100.0	3260	Kss - as above, no sandy clay. 11.80% kaolin.
100.0	104.0	3261	Kss - as above. 11.11% kaolin.
104.0	' 108.0'	3262	Kss - as above. 10.66% kaolin.
108.0	111.0	3263	Kss - as above. 10.15% kaolin.
111.0	116.0	3264	Kss - as above. 10.13% kaolin.

116.0'	121.0'	3265	Kss - as above. 6.38% kaolin.
121.0'	125.0'	3266	Kss - areas of clay enrichment, medium grain, white, entire hole dried. 5.04% kaolin.
125.0'	128.0'	3267	Kss - medium grain, light grey. 8.46% kaolin.
128.0'	131.0'	3268	Kss - medium grain grading to coarse grain, sub-rounded to sub-angular, vari-coloured silica up to 1.0", white. 8.53% kaolin.
131.0'	135.0'	3269	Kss - as above, coarse grain, some clay clotting up to 0.5", light brown. 7.11% kaolin.
135.0'	139.0'	3270	Kss - as above, buff sandy clay seam from 136.0' - 137.0' minor illite. 10.66% kaolin.
139.0'	143.0'	3271	Kss - as above with some sandy clay seams up to 4.0" similar to previous. 8.78% kaolin.
143.0'	147.0'	3272	Kss - as above from 143.0' - 145.0', 145.0' - 149.0' material becomes light brown, fine grain, yellow/brown exterior due to contamination. 12.63% kaolin.
147.0'	151.0'	3273	Kss - fine grain grading to medium grain, light brown. 6.66% kaolin.
151.0'	153.0'	3274	Sandy Clay - competent, fissile, buff, minor illite, drill gouging. 39.29% kaolin.
153.0'	159.0'	3275	Kss - fine grain, white, yellow/brown contamination, 155.0' - 157.0' - moist - apparent illite and heavies as well as drilling debris, sulphureous smell. 5.32% kaolin.
159.0'	161.0'	3276	Kss - as above, medium grain, larger amount of material for footage. 6.51% kaolin.
161.0'	164.0'	3277	Kss - low clay content, medium grain, white with an yellow/brown exterior coating, minor heavies, pink/purple mould. 7.82% kaolin.
164.0'	168.0'	3278	Clay & Kss - competent, coarse grain kss, 165.0' - 166.0' intense clay mottling, buff kss with light grey and yellow mottled clay

from 16	64.0' - 165.0',	166.0' - 167.0'
yellow	and light grey	mottled, 167.0' -
168.0'	clay-rich kss,	intensely yellow
medium	grain kss. 40.2	28% kaolin.

- 168.0' 173.0' 3279 Clay competent, disc-like, greasy, chocolate brown, carbonaceous, exterior kss contamination. 83.97% kaolin.
- 173.0' 176.0' 3280 Clay as above, some areas nearly black, some areas mangled. 91.11% kaolin.
- 176.0' 179.0' 3281 Clay competent, fissile, medium brown. 54.78% kaolin.
- 179.0' 182.0' 3282 Clay competent, fissile, light brown, yellow clotting. 84.38% kaolin.
- 182.0' 185.0' 3283 Clay competent, fissile, light grey and yellow mottled, reddish areas at lower bag contact. 82.46% kaolin.
- 185.0' 189.0' 3284 Clay competent, disc-like, greasy, medium brown, grading to chocolate brown to black to light brown with a higher silica content. 84.05% kaolin.
- 189.0' 195.0' 3285 Clay competent, fissile, medium red and light grey mottled, some yellow areas at lower contact with silty illitic light grey material. 64.66% kaolin.
- 195.0' 200.0' 3286 Clay silty upper section, competent, disc-like, light grey/yellow at 197.0' 1.0", red at 199.75' 200.0'. 54.78% kaolin.
- 200.0' 203.0' 3287 Clay competent, fissile, light grey and red mottled, some chocolate mottled into highly disrupted areas due to contamination. 70.56% kaolin.
- 203.0' 209.0' 3288 Clay competent, fissile, as above, 203.0' 206.0', 206.0' 209.0' chocolate brown, carbonaceous, illitic. 84.03% kaolin.
- 209.0' 213.0' 3289 Kss low clay content, dark yellow/brown, medium grain from 209.0' 211.0', primarily silica and hematite nodules, much heavy material, 211.0' 213.0' medium grey, illitic, fine grain, competent, fissile, sandy clay. 24.78% kaolin.
- 213.0' 221.0' 3290 Weathered Rock Fragments drill cut,

highly fissile to highly friable, decomposed, up to 4.0" thick individual sections much associated haematitic staining (yellow - some limonitic also), mostly sandstone, medium grain granular gneissic, some BIF-like, some with laminated claystone sections, associated silica sand is yellow/brown with a low clay content, much haematite, some yellow clay clots adhering to the clasts, lower contact is apparently chloritic (green) with biotite materials. 17.09% kaolin.

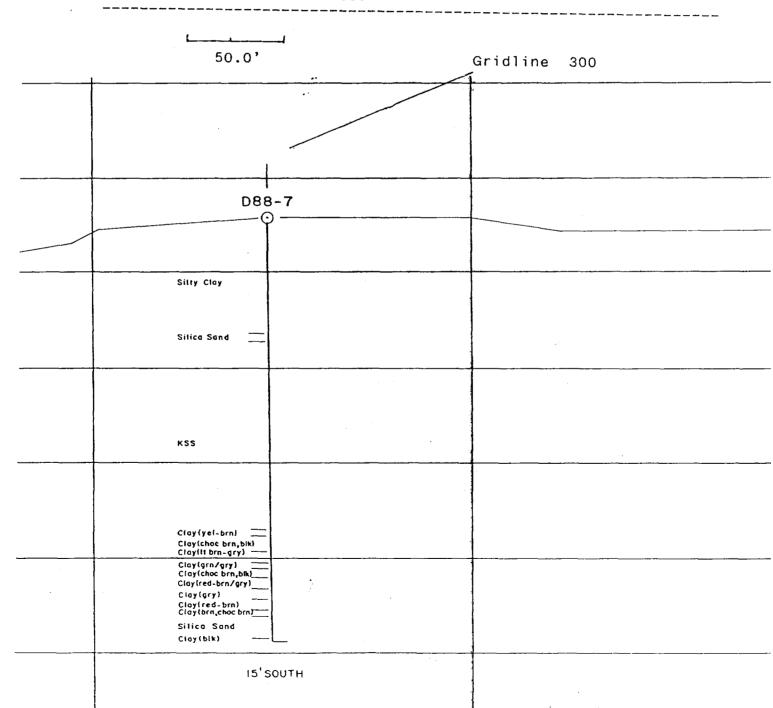
221.0' 223.0' 3291

Sandy Clay - competent, fissile, buff and black laminated due to highly carbonaceous content, carbonaceous, illitic. 73.65% kaolin.

EOH - 223.0'

Dip Collar: -90° Northing: 1295 N Easting: 300 W Hole Length: 223.0' Overburden Depth: 60.0'

Astronomic Azimuth: 50° 09' 20" W. 82° 14' 15" N. Location: 1100.0' at 216° to claim post no. 1 Claim No.: Patented, T 21584 Scale: 1.0" = 50.0' or 1:600



Section D88-7 Dip Collar: -90° Northing: 1295 N 300 W Easting: Hole Length: 223.0' Overburden Depth: 60.0' Astronomic Azimuth: 50° 09' 20" W. 82° 14' 15" N. Location: 1100.0' at 2160 to claim post no. 1 Claim No.: Patented, P 91135 Scale: 1.0" = 50.0' or 1:600Gridline _300 50.0' D88-7

Mineral Research Canada

R. R. # 2

P2A 2W8

Parry Sound, On

ROTARY DRILL HOLE RECORD

Drilling Started: November 23, 1988 Logged By: A. Casselman Drilling Finished: November 23, 1988 Logged: September 11, 1991 Drilling Co.: Midwest Core Size: 3.5" Core Storage:

Dip Collar: -90° Hole Length: 250.0'

Overburden Depth: 97.0'

Claim No.: T 19482, Patented

Easting: 010 W Northing: 995 N

Hole Number: D88-11 Azimuth: 50° 09' 18" W. 82° 14' 01" N.

Location: 450.0' at 268° To Claim Post No. 1

Property: Douglas/Kipling

188.0' 226.0' Clay

227.0' 250.0' Kss

226.0' 227.0' Sandy Clay

SUMMARY	(2.16012
From	То	Description	
0.0'	6.0'	Peat	
6.0'	58.5'	Glacial Clay Till	Charles to the Day
58.5'	60.0'	Gravel	RECEIVED
60.0'	65.0'	Glacial Clay Till	MAY 2 6 1995
65.0'	67.5'	Gravel	MINING LANDS EMANCH
67.5'	97.0'	Glacial Clay Till	Pleistocene - Overburden
97.0'	102.0'	Kaolin Silica Sand/	Overburden Contact - Cretaceous
102.0'	105.0'	Clay	
105.0'	150.0'	Kaolin Silica Sand	(Kss)
150.0'	153.0'	Clay	The second secon
153.0'	157.0'	Kss	Transfer of the many
157.0'	171.0'	Clay	hart mind
171.0'	187.0'	Sandy Clay	FAX (705)/378-5123 / Valor 705) B71-7416
187.0'	188.0'	Kss	DATE DATE

From	To Sam	ple No.	Description
0.0'	6.0'		Peat
6.0'	58.5'		Glacial Clay Till - very fine grain silt content, massive, clast-free, grey.
58.5'	60.0'		Gravel - green/grey, coarse gravel, some sand matrix.
60.0'	65.0'		Glacial Clay Till - green/grey, competent, 2.0% - 5.0% carbonate clasts, 10.0% - gneissic clasts, generally larger than 0.25".
65.0'	67.5'	ı	Gravel - as previous, some clay content near lower contact.
67.5'	81.0'		Glacial Clay Till - as previous from 67.5 - 81.0', 81.0' - 97.0' - dark green/grey to blue/grey, highly competent, clast-free, drill gouging, some clasts from 82.0' - 87.0' & 93.0' - 95.0' - only 2.0 - 5.0%.
97.0'	102.0'	15901	Kss & Overburden Contact- medium grain, matrix supported, intermixed white and red (as clots), granitic clasts (angular) that are composed of quartz, orthoclase, plagioclase, almandine, and epidote, some larger sub-angular smoky quartz clasts, high percentage of heavies and feldspar. 9.32% kaolin.
102.0'	105.0'	15902	Clay - powdered (1.0" seam) with 0.5" - 0.25" sub-rounded smoky and milky quartz clasts, red, contacting with a (1.0") clast horizon, 3.0" dark green-grey fine grain, rounded sandstone clast, also gneissic, granitic and smoky quartz clasts sub-angular to sub-rounded, with the matrix being red/brown medium grain kss with high heavies content (garnet), 1.0' kss (proper) horizon, white (slightly red tinged) medium grain, rare larger sub-rounded smoky & milky quartz clasts. 10.23% kaolin.
105.0'	108.0'	15903	Kss - coarse grain, some finer material interspersed, medium brown clay clots, sub-angular smoky and milky quartz. 9.70% kaolin.

108.0' 109	.0' 15904	Sandy Clay - buff, competent, minor illite. 37.67% kaolin.
109.0' 114	.0' 15905	Kss - medium grain, light grey, minor illite and heavies, low clay content. 8.30% kaolin.
114.0' 119	.0' 15906	Kss - medium grain, lightening downsection from yellow brown to white, heavies banding causing darker grey sections. 8.00% kaolin.
119.0' 123	.0' 15907	Kss - medium grain, white as above, with a grey greasy 3.0" clay seam at 121.0', some hematite staining at the upper contact. 17.24% kaolin.
123.0' 127	.0' 15908	Kss - as above, coarsening downsection, a yellow band, 1.0" sulphureous smell at 124.0'. 6.68% kaolin.
127.0' 131	.0' 15909	Kss - as above, slightly purple at lower contact, rare larger well rounded smoky quartz clasts. 5.19% kaolin.
131.0' 135	.0' 15910	Kss - medium grain grading to coarse grain, high percentage yellow chert and heavies, some heavies banding, white, grey/purple in areas rich in heavies. 4.89% kaolin.
135.0' 142	.0' 15911	Kss - as above, medium grain coarsening downsection. 6.48% kaolin.
142.0' 150	.0' 15912	Kss - medium grain, white, some yellow contamination, minor illite and heavies, minor yellow chert and smoky quartz, angular & slightly larger. 6.81% kaolin.
150.0' 153	.0' 15913	Clay - with large silica clasts interbedded throughout, angular, smoky quartz in a white clay matrix, highly competent. 14.23% kaolin.
153.0' 155	.5' 15914	Kss - as previous at 142.0' - 150.0'. 7.27% kaolin.
155.5' 157	.0' 15915	Kss - medium grain, high clay content, percentage clay increasing downsection, light brown, minor illite. 10.48% kaolin.
157.0' 165	.0' 15916	Clay - darker buff, some red (hematitic staining) at upper contact, greasy, darkening downsection to chocolate brown,

		a 2.0" seam of medium grain slightly yellow kss at 163.75', exterior crystal growth. generally 2.0" triangular terminated clear crystals, acicular - radiating outward from the same point. 76.81% kaolin.
165.0' 168.0'	15917	Clay - chocolate brown, pliable, previous flowage, darker and lighter wispy laminations. 65.59% kaolin.
168.0' 171.0'	15918	Clay - very dark brown, nearly black, high carbonaceous content, exterior crystal growth. 60.91% kaolin.
171.0' 172.0'	15919	Sandy Clay - buff & grey alternating layers, high illite content and carbonaceous pieces, very fine grain silica, exterior crystal growth. 31.32% kaolin.
172.0' 175.0'	15920	Sandy Clay - darkening and becoming less sandy downsection, fine laminations and illite present, some yellow sulphureous material near lower contact with clay unit, exterior crystal growth. 57.77% kaolin.
175.0' 178.5'	15921	Sandy Clay - buff sandy clay and chocolate brown clay interbedded as previously described, exterior crystal growth. 45.09% kaolin.
178.5' 182.0'	15922	Sandy Clay - buff and grey 0.5" at the upper contact, minor illite and 3.0" chocolate brown clay seam at 180.25'. 30.71% kaolin.
182.0' 187.0'	15923	Sandy Clay - as above, no carbonaceous material, 3.0" clay seam buff at 185.0, some yellow limonitic areas. 30.78% kaolin.
187.0' 188.0'	15924	Kss - light brown, grading to limonite yellow at lower contact with clay. 13.65% kaolin.
188.0' 192.0'	15925	Clay - chocolate brown, greasy, disc-like, friable, exterior crystal growth. 92.41% kaolin.
192.0' 196.0'	15926	Clay - chocolate brown and buff mottled,

		core didn't expand (appears much smaller than normal, mud cracked, tremendous crystal growth, yellow tinged, very small, quite densely packed, friable.
196.0' 201.0'	15927	Clay - as above. 89.24% kaolin.
201.0' 207.0'	15928 kao1	Clay - as above, more pliable. 74.51% in.
207.0' 212.0'	15929	Clay - light grey, grading to brown mottled as above grading to red & grey mottled, greasy, fissile. 76.86% kaolin.
212.0' 216.0'	15930	Clay - red grading to chocolate brown, pliable at 215.0'. 77.24% kaolin.
216.0' 222.0'	15931	Clay - very dark grey grading to black & orange mottled, friable, grading to very light grey, powdery. 82.91% kaolin.
222.0' 226.0'	15932	Clay - friable, light grey, as above. 82.81% kaolin.
226.0' 227.0'	15933	Sandy Clay - buff, with a central yellow patch, limonite staining. 58.89% kaolin.
227.0' 230.0'	15934	Kss - medium grain, light brown, minor illite and heavies. 14.73% kaolin.
230.0' 234.0'	15935	Kss - as above, yellow staining (limonite). 11.57% kaolin.
234.0' 238.0'	15936	Kss - as above. 14.56% kaolin.
238.0' 242.0'	15937	Kss - as above, slight grey/green tinge. 13.11% kaolin.
242.0' 246.0'	15938	Kss - as previous at 234.0 - 238.0'. 10.91% kaolin.
246.0' 250.0'	15939	Kss - as above. 19.09% kaolin.

Claim No.: T 21584, Patented

Hole Length: 250.0' Overburden Depth: 97.0'

Astronomic Azimuth: 50° 09' 18" W. 82° 14' 01" N Location: 450.0° at 268° to claim post no. 1

Scale: 1.0" = 50.0' or 1:600

Northing: 995 N Easting: 010 W

Dip: -90°

50.0' Gridline 100 11-88d 1350 Peat/Silty Clay Silly Clay 1300 Gravel Till Gravel Till Glacial Clay 1250 Silica Sand Sand/Gravel KSS 1200 Clay(gry,gry-grn) = Clay(gry-brn,(1 br<u>n)</u> Clay(brn,choc brn,bik) Sandy Clay Clay(dk gry-brn) 1150 Clay (It gry-brn,brn-gry Clay(It gry) Clay(red-brn) Clay(choc brn) Clay(It gry) Sandy Clay KSS 1100 15'SOUTH

Claim No.: T 19482, Patented

Hole Length: 250.0'

Overburden Depth: 97.0'

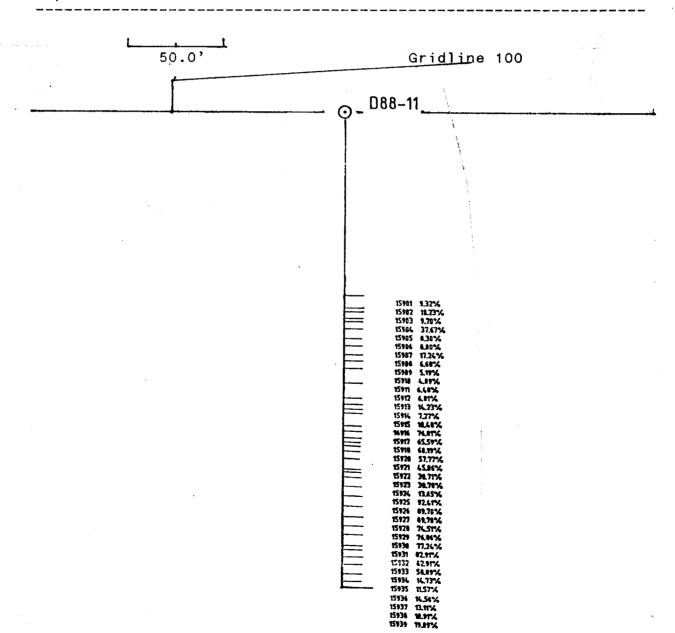
Astronomic Azimuth: 50° 09' 18" W. 82° 14' 01" N

Location: 450.0' at 2680 to claim post no. 1

Scale: 1.0" = 50.0' or 1:600

Northing: 995 N Easting: 010 W

Dip: -90°



ROTARY DRILL HOLE RECORD

Drilling Drilling Dip Col Hole Leg Overburg Claim No Easting Northing Azimuth Location	g Finished Co.: Milar: -90° ngth: 250° co.: T 194° co.	0.0'	ost No. 1
SUMMARY			
From	То	Description	MINING LANDS BRANCH
0.0' 5.0'	5.0' 11.0'	Peat Fluvial Sediments	Pleistocene – Overburden
11.0° 18.0° 20.0° 25.0° 43.0° 44.0° 78.0° 83.0° 89.0° 93.5° 120.0° 144.0° 147.0° 154.0° 158.0° 163.0° 170.0°	18.0' 20.0' 25.0' 43.0' 44.0' 78.0' 83.0' 89.0' 93.5' 120.0' 144.0' 147.0' 158.0' 163.0' 170.0'	Kaolin Silica Sand Clay Sandy Clay Kss Clay Kss Clay Kss Sandy Clay Kss Clay Sandy Clay Sandy Clay	Cretaceous 2 o 16012 MINERAL RESEARCH PARCH CARRY DIVISION FAX (705) 378-5723 BIOMORA 378-2416
172.0'	197.0'	Kss	
197.0'	200.0'	Sandy Clay	
200.0'	203.0'	Clay	
203.0'	208.0'	Kss & Sandy Clay	
208.0'	210.0'	Clay	
210.0'	250.0'	Kss	

Detail Log - D88-13

From	To	Sample No.	Description
0.0'	5.0'		Peat
5.0'	11.0'		Fluvial Sediments - brown clay, very fine grain silt content, massive.
11.0'	18.0'	15951	Kss - medium grain, coarsening downsection to coarse, light brown grading to white, entire hole dried, 8.76% kaolin.
18.0'	20.0'	15952	Clay - competent, fissile, chocolate brown, carbonaceous, minor illite, 65.87% kaolin.
20.0'	25.0'	15953	Sandy Clay - competent, fine grain, medium brown, lightening downsection to buff, minor illite, 37.22% kaolin.
25.0'	29.75'	15954	Kss - medium grain, white grading to light grey, extreme amounts of wood contamination found in the box as fibrous chunks, 7.92% kaolin.
29.75'	32.0'	15955	Sandy Clay - competent, fissile, buff, minor illite, 25.85% kaolin.
32.0'	37.0'	15956	Kss - medium grain, white, 7.11% kaolin.
37.0'	43.0'	15957	Kss - as above, 7.44% kaolin.
43.0'	44.0'	15958	Clay - competent, disc-like, white grading to very light buff, 59.04% kaolin.
44.0'	50.0'	15959	Kss - medium grain, white, 6.08% kaolin.
50.0'	55.0'	15960	Kss - white, fine grain, 12.35% kaolin.
55.0'	63.0'	15961	Kss - as above, 18.08% kaolin.
63.0'	66.0'	15962	Kss - coarse grain, white, 6.73% kaolin.
66.0'	71.0'	15963	Kss - medium grain, white, 7.37% kaolin.
71.0'	78.0'	15964	Kss - as above, 13.52% kaolin.
78.0'	83.0'	15965	Clay - competent, disc-like, buff, 64.23% kaolin.
83.0'	89.0'	15966	Kss - coarse grain, grading to medium grain, medium brown, grading to buff,

large	amount	of	material	for	indicated
footag	je, 8.6	3% F	aolin.		

			footage, 8.63% kaolin.
89.0'	93.5'	15967	Sandy Clay - competent, fine grain, buff, 54.63% kaolin.
93.5'	101.0'	15968	Kss - medium grain, light brown, 3.0" of buff clay - fissile at 99.75', 5.34% kaolin.
101.0'	107.0'	15969	Kss - medium grain, white, 8.10% kaolin.
107.0'	114.0'	15970	Kss - medium grain, white, 8.68% kaolin.
114.0'	120.0'	15971	Kss - medium grain, light brown, grading to yellow/brown with buff clay clots with large silica clasts imbedded, haematite staining, sulphureous smell, frequent hematite nodules at lower contact, 16.30% kaolin.
120.0'	125.0'	15972	Clay - light grey grading to medium brown, to chocolate brown, competent, fissile, carbonaceous, 87.27% kaolin.
125.0'	130.0'	15973	Clay - competent, fissile, chocolate brown grading to grey & red mottled, 77.29% kaolin.
130.0'	137.0'	15974	Clay - competent, fissile, becoming weakly pliable, grey & red grading to chocolate brown, nearly black, chocolate brown grading to red & buff mottled grading to medium brown, grading to yellow and buff mottled grading to medium brown, chocolate portion being carbonaceous, 82.10% kaolin.
137.0'	140.0'	15975	Clay - grading to sandy clay, competent to weakly pliable, medium brown to light grey sandy clay, minor heavies and illite, frequent heamatite nodules, 60.30% kaolin.
140.0'	144.0'	15976	Sandy Clay - grading to clay at 143.0', competent, light grey grading to red/brown, minor illite, 69.10% kaolin.
144.0'	147.0'	15977	Clay - competent, medium brown, grading to chocolate grading to yellow grading grey, 74.00% kaolin.
147.0'	154.0'	15978	Sandy Clay - competent, becoming disc- like, fine grain, light grey and yellow laminated, few red laminations, grading to medium brown, carbonaceous with minor

illite, 42.23% kaolin.

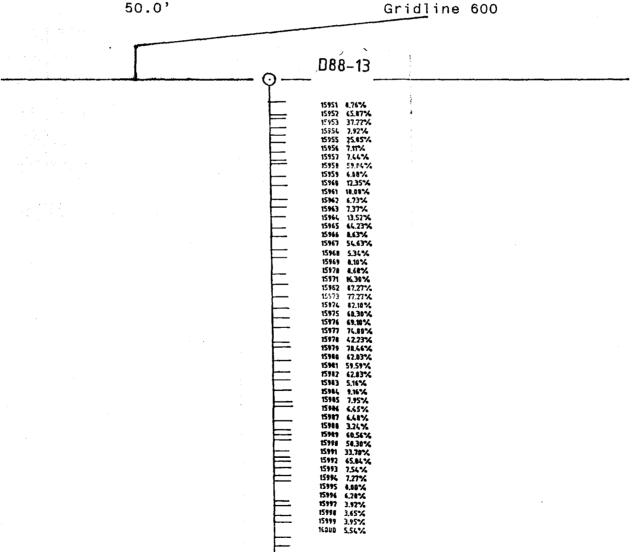
154.0'	158.0'	15979	Clay - 154.0' -155.0', competent, disc- like, chocolate brown & Sandy Clay - 155.0' - 158.0' - competent, medium yellow brown, 70.46% kaolin.
158.0'	163.0'	15980	Sandy Clay - grading to Clay, competent, disc-like, red & buff mottled grading to yellow/brown grading to red & buff mottled, 62.03% kaolin.
163.0'	169.0'	15981	Clay - competent, disc-like, red & buff mottled grading to red grading to red & grey mottled to grey sandy clay with minor illite, grading to red, 59.59% kaolin.
169.0'	170.5'	15982	Sandy Clay - light grey grading to Kss, which is medium grain, white, from competent, medium brown Sandy Clay with minor illite, 62.53% kaolin.
170.5'	179.0'	15983	Kss - medium grain, medium red, low clay content, lightening downsection, 5.16% kaolin.
179.0'	183.0'	15984	Kss - medium grain, coarsening downsection, white, minor illite, 9.16% kaolin.
183.0'	186.0'	15985	Kss - medium grain, white, minor illite, 7.95% kaolin.
186.0'	189.0'	15986	Kss - medium grain, white, rare larger clasts, smoky quartz - sub-angular, minor illite, 6.45% kaolin.
189.0'	195.0'	15987	Kss - coarse grain, coarsening downsection from 192.0' - 193.0', 193.0' - 195.0' medium grain, white, minor illite, 6.48% kaolin.
195.0'	197.0'	15988	Kss - fine grain, light yellow, possible entire contamination, drilling debris, 3.24% kaolin.
197.0'	200.0'	15989	Sandy Clay - competent, fine grain, buff grading to chocolate brown clay, minor heavies and illite in sandy clay portion, 60.56% kaolin.
200.0'	203.0'	15990	Clay - competent, disc-like, greasy, chocolate brown, carbonaceous, 58.30% kaolin.

203.0'	208.0'	15991	Kss & Sandy Clay - interbedded, competent sandy clay, chocolate brown, carbonaceous, illitic interbedded with medium grain, light brown kss, 33.70% kaolin.
208.0'	210.0'	15992	Clay - competent, disc-like, medium brown, carbonaceous - very minor, 65.04% kaolin.
210.0'	214.0'	15993	Kss - medium grain, white, minor heavies and illite, 7.54% kaolin.
214.0'	220.5'	15994	Kss - medium grain, coarsening downsection to coarse, white, grading to light grey, minor heavies and illite, 7.27% kaolin.
220.5'	224.0'	15995	Kss - medium grain, white, minor heavies and illite, 8.00% kaolin.
224.0'	228.0'	15996	Kss- competent, fine grain, white, minor illite, drilling debris, 6.28% kaolin.
228.0'	232.0'	15997	Kss - medium grain, white, minor heavies and illite, drilling debris, 3.92% kaolin.
232.0'	240.0'	15998	Kss - low clay content, medium grain, white, minor heavies and illite, drilling debris, 3.65% kaolin.
240.0'	245.0'	15999	Kss - medium grain, white, minor heavies and illite, 3.95% kaolin.
245.0'	250.0'	16000	Kss - as above, 5.54% kaolin.

EOH - 250.0'

Section D88-13 Claim No.: T 19482, Patented Hole Length: 250.0' Overburden Depth: 11.0' Astronomic Azimuth: 50° 09' 14" W. 82° 14' 16" N. Location: 2200.0' at 260° to claim post no. 1 Scale: 1.0" = 50.0' or 1:600 Northing: 875 N Easting: 530 W Dip: -90° 50.0' Gridline 600 D88-13 Peot Silty Clay KSS Sandy Clay KSS Sandy Clay Clay(it grn-gry) = KSS Clay(It grn-gry) _ KSS = Clay(II brn-gry) = KSS = Clay(II gry) KSS Clay(If brn-gry) Clay(brn,choc brn) Clay(If brn-gry) Clay(If brn-gry) Clay(brn) Clay(choc brn,bik) Clay(brn,red-brn) Clay(brn,red-brn) Clay(brn,red-brn) Clay (11 gry) Clay (gry-brn) Clay(gry,brn,red-brn) Sandy Clay KSS Clay (choc brn) KSS Sandy Clay KSS

80'SOUTH



Mineral Research Canada

Parry Sound ON P2A 2W8

Core Storage:

R. R. # 2

Hole No.: D88-15

ROTARY DRILL HOLE RECORD

Drilling Started: November 7, 1988 Logged By: A. Casselman Drilling Finished: November 8, 1988 Logged: January 2, 1991 Core Size: 3.5"

Drilling Co: Midwest

Dip Collar: -90° Hole Length: 215.0'

Overburden Depth: 5.0'

Claim No: Patented, T19482

Northing: 775 N Easting: 490 W

Azimuth: 50° 09' 10" N, 82° 14' 14" W

Location: 2100.0' at 261° to claim Post No. 1

Property: Douglas/Kipling

SUMMARY

From	То	Description 2	2.16012
0.0'	4.0' 5.0'	Peat	l Clay Till/Sandy Clay Pleistocene - Overburden
5.0' 7.5' 52.0' 55.0' 81.5' 95.0'	7.5' 52.0' 55.0' 81.5' 95.0' 100.0' 106.25'	Sandy Clay Kaolin Silica Sand (Ks Clay & Sandy Clay Kss Clay Sandy Clay Clay	MAY 2 6 1995 MINING LANDS BHANCH
106.25	109.25	Kss MIN	A TANGED N
109.25'	110.0'	Clay	PAVET SAN TONANTS). 151
110.0'	125.0'	Kss FAX (705)	78-5123 / B 91405 178-2416
125.0'	128.0'	Clay DATE	
128.0'	132.0'	Sandy Clay	
132.0'	147.0'	Clay	
147.0'	152.0'	Kss	
152.0'	156.5'	Sandy Clay	
156.5'	161.75'	Kss	
161.75'	172.0'	Clay	
172.0'	215.0'	Kss	

Detail Log D88-15

From	То	Sample No.	Description
0.0'	4.0'		Peat
4.0'	5.0'		Contact Zone - glacial calcareous material and kss, fine grain kss, light yellow/green with medium brown clots.
5.0'	7.5'	4801	Sandy Clay - grading to clay, competent, disc-like, weakly friable, fine grain, buff grading to medium brown, minor illite, drill core gouging, 47.29% kaolin.
7.5'	12.0'	4802	Kss - medium grain, white, entire hole dried at time of logging, 10.66% kaolin.
12.0'	17.0'	4803	Kss - as above, one area of medium brown, clay clotting with carbonaceous material at 155.0' - 155.25', 30.10% kaolin.
17.0'	22.0'	4804	Kss - medium grain, rare coarser sub- angular smoky quartz clasts and white clay clots up to 1.5", 17.70% kaolin.
22.0'	29.0'	4805	Kss - medium grain, white, 11.42% kaolin.
29.0'	34.0'	4806	Kss - coarse grain, white, 9.75% kaolin.
34.0'	41.0'	4807	Kss - as above with intense clay mottling, light grey at 40.0' - 40.5', medium grain, white kss, 21.11% kaolin.
41.0'	49.0'	4808	Kss - coarse grain, white, 6.81% kaolin.
49.0'	52.0'	4809	Kss - as above, with vari-coloured sub-rounded silica, 7.52% kaolin.
52.0'	55.0'	4810	Clay & Sandy Clay - interbedded, competent, fissile, light yellow/brown clay and light grey sandy clay, both are competent and fissile, minor illite in sandy clay, 75.95% kaolin.
55.0'	58.0'	4811	Kss - medium grain, medium yellow/brown, 5.32% kaolin.
58.0'	63.0'	4812	Kss - as above, minor clay enrichments associated with coarser portions

within kss, 13.42% kaolin.

63.0'	66.0'	4813	Kss - medium grain, white, 8.43% kaolin.
66.0'	71.0'	4814	Kss - as above, slightly coarser, 7.72% kaolin.
71.0'	75.0'	4815	Kss - as above, 11.87% kaolin.
75.0'	79.0'	4816	Kss - medium grain, light grey, 9.09% kaolin.
79.0'	81.5'	4817	Kss - coarse grain, white, vari - coloured, sub-angular silica, large amount of material for indicated footage, 9.95% kaolin.
81.5'	85.0'	4818	Clay - competent, disc-like, greasy, buff grading to chocolate brown, kss seam at 83.75' - 84.25', medium grain, light brown, clay after is medium brown with some yellow sections, 75.72% kaolin.
85.0'	91.0'	4819	Clay - competent, disc-like, greasy, buff - with some yellow laminations, 63.77% kaolin.
91.0'	95.0'	4820	Clay grading to sandy clay - competent, disc-like, buff grading to chocolate brown, increasing silt downsection to sandy clay, minor illite, 61.87% kaolin.
95.0'	100.0'	4821	Sandy Clay grading to clay - competent, fissile becoming disc-like, chocolate brown, carbonaceous, minor illite, exterior crystal growth, 62.10% kaolin.
100.0'	103.0'	4822	Sandy Clay - competent, fissile, as previous, non-competent, as the material is highly disrupted with flowage from the bag, chocolate brown with lighter clots, 31.70% kaolin.
103.0'	106.25	4823	Sandy Clay – as above, less disrupted, 55.42% kaolin.
106.25	109.25	4824	Kss - medium grain, light brown, 7.72% kaolin.
109.25	110.0'	4825	Clay - competent, fissile, chocolate brown, 70.19% kaolin.
110.0'	114.0'	4826	Kss - fine grain, light brown, minor

heavies and illite, 3.27% kaolin.
Kss - medium grain, light brown, 10.33% kaolin.
Kss - as above, 9.72% kaolin.
Kss - medium grain, with clay clots, white. 10.78% kaolin.
Clay - grading to Sandy Clay - competent, fissile, fine grain, chocolate brown, grading to buff, minor illite. 69.22% kaolin.
Sandy Clay - grading to Clay - buff grading to yellow/brown to red & buff mottled, minor illite. 72.73% kaolin.

Clay - competent, fissile, red & buff

			(75.0% of the material) grading to medium brown then to black, carbonaceous. 72.68% kaolin.
137.0'	142.0'	4833	Clay - competent, fissile, 130.0' - 142.0'- chocolate brown grading to red & buff mottled, grading to buff, 137.0' - 138.0' - moist, pliable, non-competent. 74.46% kaolin.
142.0'	147.0'	4834	Clay - competent, fissile, chocolate brown, carbonaceous, grading to yellow to grey to black/orange/white mottled. 79.27% kaolin.

114.0' 118.0'

118.0' 121.0'

124.0' 128.0'

128.0' 132.0'

124.0'

132.0' 137.0' 4832

156.5' 161.75' 4837

121.0'

4827

4828

4829

4830

4831

147.0'	152.0'	4835	Kss - fine grain, clay-rich, crumbling, dark yellow/brown (haematitic staining) with light grey clay clots, two angular fine grain siliceous, haematitic garnetiferous conglomerates. 29.04% kaolin.
--------	--------	------	------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

152.0'	156.5'	4836	Sandy Clay - competent, disc-like,
			carbonaceous, medium brown, minor
			illite. 64.58% kaolin.

Kss - as at 147.0' - 152.0' - numerous
conglomeratic clasts, drill cut at lower
contact, with a coating of yellow clay,
one large clast within the conglomerate,
3.0" oblate siltstone - red & brown
mottled - all clasts angular and
horizontally oriented. 22.00% kaolin.

161.75'	164.0'	4838	Clay - competent, fissile, red & yellow mottled to medium brown, carbonaceous, minor illite, yellow exterior staining, 70.61% kaolin.
164.0'	170.0'	4839	Clay - as above, medium grain, exterior crystal growth, white, fibrous, 73.70% kaolin.
170.0'	172.0'	4840	Clay - as above. 56.43% kaolin.
172.0'	175.0'	4841	Kss - fine grain, medium brown, minor illite. 18.78% kaolin.
175.0'	180.0'	4842	Kss - as above. 8.38% kaolin.
180.0'	185.0'	4843	Kss - medium grain, white, hematitic nodules. 8.25% kaolin.
185.0'	188.0'	4844	Kss - fine grain, light yellow brown, hematitic nodules. 6.05% kaolin.
188.0'	191.0'	4845	Kss - as above. 6.30% kaolin.
191.0'	195.0'	4846	Kss - medium grain, light brown, 5.32% kaolin.
195.0'	199.0'	4847	Kss - as above. 7.65% kaolin.
199.0'	203.0'	4848	Kss - as above. 6.28% kaolin.
203.0'	209.0'	4849	Kss - as above. 7.75% kaolin.
209.0'	215.0'	4850	Kss - as above, with some very light grey sandy clay seams, minor illite and heavies.

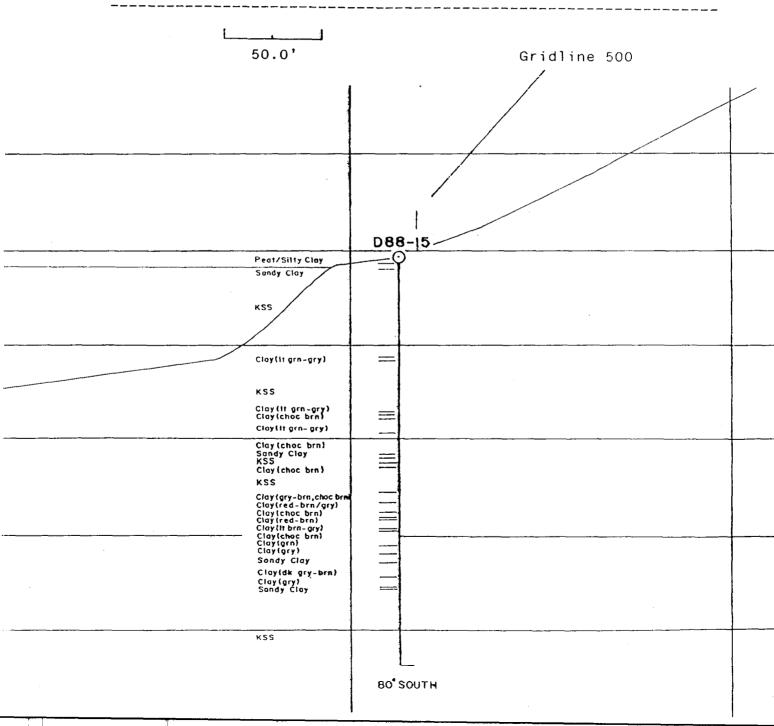
EOH - 215.0'

Dip Collar: - 90° Northing: 775 N Easting: 490 N Length: 215.0'

Overburden Depth: 5.0'

Astronomic Azimuth: 50° 09' 10" W. 82° 14' 14" N Location: 2100.0' at 261° to claim post no. 1

Scale: 1.0" = 50.0' or 1:600 Claim Number: T 19482, Patented



Dip Collar: - 90° Northing: 775 N Easting: 490 N Length: 215.0'

Overburden Depth: 5.0'

Astronomic Azimuth: 50° 09' 10" W. 82° 14' 14" N

Location: 2100.0' at 261° to claim post no. 1 Scale: 1.0" = 50.0' or 1:600

Claim Number: T 19482, Patented

50.0' Gridline 500 D88-15 4801 47.29%
4812 10.46%
4813 30.12%
4816 17.79%
4816 17.79%
4816 17.79%
4816 17.79%
4817 75.29%
4818 13.49%
4817 13.49%
4818 17.79%
4818 17.79%
4818 17.79%
4819 17.79%
4819 17.79%
4819 17.79%
4811 47.79%
4811 47.79%
4812 17.79%
4813 17.79%
4813 17.79%
4814 48.29%
4815 17.79%
4815 17.79%
4816 17.79%
4817 17.79%
4818 17.79%
4819 17.79%
4819 17.79%
4819 17.79%
4819 17.79%
4819 17.79%
4819 17.79%
4819 17.79%
4819 17.79%
4819 17.79%
4819 17.79%
4819 17.79%
4819 17.79%
4819 17.79%
4819 17.79%
4819 17.79%
4819 17.79%
4819 17.79%
4819 17.79%
4819 17.79%
4819 17.79%
4819 17.79%
4819 17.79%
4819 17.79%
4819 17.79%
4819 17.79%
4819 17.79%
4819 17.79%
4819 17.79%
4819 17.79%
4819 17.79%
4819 17.79%
4819 17.79%
4819 17.79%
4819 17.79%
4819 17.79%
4819 17.79%
4819 17.79%
4819 17.79%
4819 17.79%
4819 17.79%
4819 17.79%
4819 17.79%
4819 17.79%
4819 17.79%
4819 17.79%
4819 17.79%
4819 17.79%
4819 17.79%
4819 17.79%
4819 17.79%
4819 17.79%
4819 17.79%
4819 17.79%
4819 17.79%
4819 17.79%
4819 17.79%
4819 17.79%
4819 17.79%
4819 17.79%
4819 17.79%
4819 17.79%
4819 17.79%
4819 17.79%
4819 17.79%
4819 17.79%
4819 17.79%
4819 17.79%
4819 17.79%
4819 17.79%
4819 17.79%
4819 17.79%
4819 17.79%
4819 17.79%
4819 17.79%
4819 17.79%
4819 17.79%
4819 17.79%
4819 17.79%
4819 17.79%
4819 17.79%
4819 17.79%
4819 17.79%
4819 17.79%
4819 17.79%
4819 17.79%
4819 17.79%
4819 17.79%
4819 17.79%
4819 17.79%
4819 17.79%
4819 17.79%
4819 17.79%
4819 17.79%
4819 17.79%
4819 17.79%
4819 17.79%
4819 17.79%
4819 17.79%
4819 17.79%
4819 17.79%
4819 17.79%
4819 17.79%
4819 17.79%
4819 17.79%
4819 17.79%
4819 17.79%
4819 17.79%
4819 17.79%
4819 17.79%
4819 17.79%
4819 17.79%
4819 17.79%
4819 17.79%
4819 17.79%
4819 17.79%
4819 17.79%

THE STATE OF STATE OF

Mineral Research Canada Inc

Parry Sound ON P2A 2W8

ROTARY DRILL HOLE RECORD

Core Storage:

Hole No.: D88-23

R. R. # 2

Drilling Started: Nov. 29, 1988 Logged By: A. Casselman Drilling Finished: Nov. 30, 1988 Logged: Jan. 8, 1991 Core Size: 3.5

Drilling Co: Midwest

Dip: -90°

Hole Length: 250.0'

Overburden Depth: 102.0'

246.0' 250.0' Clay

Claim No: P 1198515

Easting: 210 W

Northing: 1375 N

Azimuth: 50° 09' 28" N, 82° 14' 06" W

Location: 350.0' at 217° to claim Post No. 1

Property: Kipling

SUMMARY

From	То	Description
0.0' 5.0' 95.0'	5.0' 95.0' 102.0'	Peat Glacial Clay Till Contact Zone - Pleistocene - Overburder
102.0' 167.0' 169.0'	167.0' 169.0' 171.0'	Kaolin Silica Sand (Kss) Cretaceous Sandy Clay Kss
171.0'	175.0'	Clay
175.0'	178.0'	Sandy Clay RECEIVED
178.0'	179.25'	Kss MAY 2 6 1995
179.25'	180.25'	Clay MINING LANDS BHANCH
180.25'	181.0'	Sandy Clay
181.0'	205.5'	Kss MINERAL HOSEARCH
205.5'	207.0'	Clay [mgn]
207.0'	209.0'	Kss (905) \$73.5:23 MAUS (705) \$78.52416
209.0'	210.0'	Clay DATE
210.0'	211.0'	Kss
211.0'	238.0'	Clay
238.0'	246.0'	Kss

Detail Log D88-23

From	То	Sample No.	Description
0.0'	5.0'		Peat
5.0'	95.0'		Glacial Clay Till - grey, some fine silt content, massive, fissile, 28.0' - 31.0' - containing 5.0% carbonate clasts & 15.0% gneissic clasts, larger than 0.25".
95.0'	102.0'		Contact Zone - medium grain silica clasts, light green, highly calcareous, entire hole dried.
102.0'	105.0'	4851	Kss - medium grain, white. 10.30% kaolin.
105.0'	110.0'	4852	Kss - medium grain, white. 6.96% kaolin.
110.0'	115.0'	4853	Kss - as above. 4.71% kaolin.
115.0'	120.0'	4854	Kss - as above, clay mottling and clay clots, white, up to 1.5". 5.65% kaolin.
120.0'	125.0'	4855	Kss - as above. 9.22% kaolin.
125.0'	129.0'	4856	Kss - as above, light grey exterior coating. 9.01% kaolin.
129.0'	135.0'	4857	Kss - as above, 0.25', seam of light yellow/cream, competent clay at 129.0', fissile with coarse smoky quartz clasts embedded. 7.52% kaolin.
135.0'	143.0'	4858	Kss - as above, slightly coarser, no clay seams. 7.29% kaolin.
143.0'	147.0'	4859	Kss - as above. 8.89% kaolin.
147.0'	151.0'	4860	Kss - medium grain, slightly finer than above, clay clotting, white, some yellow/brown sections. 7.44% kaolin.
151.0'	155.0'	4861	Kss - medium grain, light red/brown, some yellow areas and yellow (light) clay clots up to 2.0". 9.11% kaolin.
155.0'	159.0'	4862	Kss - medium grain, white, exterior yellow/brown coating. 6.30% kaolin.
159.0'	163.0'	4863	Kss - coarse grain, 159.0' - 161.75, white, 161.75 - 162.0' - clay, competent, fissile, yellow - light, with a red exterior, 162.0 - 163.0' -

			medium grain, white. 13.49% kaolin.
163.0'16	67.0'	4864	Kss - medium grain, coarser downsection, white, exterior reddish tinge. 7.11% kaolin.
167.0' 16	69.0'	4865	Clay - competent, fissile, buff, some yellow mottling. 77.72% kaolin.
169.0'1	71.0'	4866	Kss - medium grain, light red, 24.78% kaolin.
171.0' 1	75.0'	4867	Clay - competent, fissile, light grey, 68.63% kaolin.
175.0' 1	78.0'	4868	Sandy Clay - light grey, darker laminations, minor heavies and illite. 50.33% kaolin.
178.0' 1	79.25'	4869	Kss - medium grain, dark red. 8.30% kaolin.
179.25'1	80.25'	4870	Clay - fissile, competent, dark red and yellow/green mottled (25.0% yellow/green) grading to red and light grey mottled to light grey mottled. 60.03% kaolin.
180.25'1	81.0'	4871	Sandy Clay - competent, fissile, fine grain, light grey with darker laminations, minor heavies and illite. 37.85% kaolin.
181.0' 18	85.0'	4872 H	Kss - medium grain, light grey with a red exterior coating. 15.52% kaolin.
185.0' 1	91.0'	4873	Kss - as previous. 7.39% kaolin.
191.0' 1	94.0'	4874	Kss - as above. 9.01% kaolin.
194.0'1	98.0'	4875	Kss - medium grain, slightly finer than above, light grey. 7.87% kaolin.
198.0'2	01.0'	4876	Kss - medium grain, medium grey. 6.58% kaolin.
201.0'2	05.5'	4877	Kss - medium grain grading downsection to medium grain, white grain grading downsection to medium brown, heavies. 5.39% kaolin.
205.5'2	07.0'	4878	Clay - competent, disc-like, greasy, chocolate brown, carbonaceous, 92.58% kaolin.

207.0'209.0'	4879	Kss - coarse grain, medium brown, yellow at lower contact containing a hematitic, siliceous conglomerate, drill cut at 208.5'- embedded in yellow clay, 11.47% kaolin.
209.0' 210.0'	4880	Clay - medium brown, some lighter areas, competent, disc-like greasy, 91.42% kaolin.
210.0' 211.0'	4881	Kss - medium grain, medium brown, 22.51% kaolin.
211.0'215.0'	4882	Clay - as previous, grading to chocolate nearly black, drill cut, highly fissile, dried, beginning at 214.5 - 215.0'. 87.90% kaolin.
215.0' 218.0'	4883	Clay - as above - no chocolate sections, exterior crystal growth - white, only where material is moist. 67.72% kaolin.
218.0' 221.5'	4884	Clay - as above, some areas. 81.59% kaolin.
221.5' 225.5'	4885	Clay - as above, chocolate brown, some silty areas, illitic, carbonaceous. 75.77% kaolin.
225.0' 230.0'	4886	Clay - competent, fissile, light grey, some small areas of red or yellow hematitic staining, hematite nodules, some silty content. 58.94% kaolin.
230.0' 232.0'	4887	Clay - as above, more fissile, 80.58% kaolin.
232.0' 238.0'	4888	Clay - competent, disc-like, alternating carbonaceous chocolate sections and buff areas. 81.01% kaolin.
238.0' 241.0'	4889	Kss - fine grain, rare coarser clasts, light brown. 10.94% kaolin.
241.0' 246.0'	4890	Kss - medium grain, last 1.0' is yellow, generally white with a yellow exterior coating. 10.61% kaolin.
246.0'250.0'	4891	Clay - competent, disc-like, greasy, dark yellow and medium red/orange mottled, to yellow & red/orange mottled with medium grey, to medium grey (highly fissile), grading to buff then to chocolate brown. 72.53% kaolin.

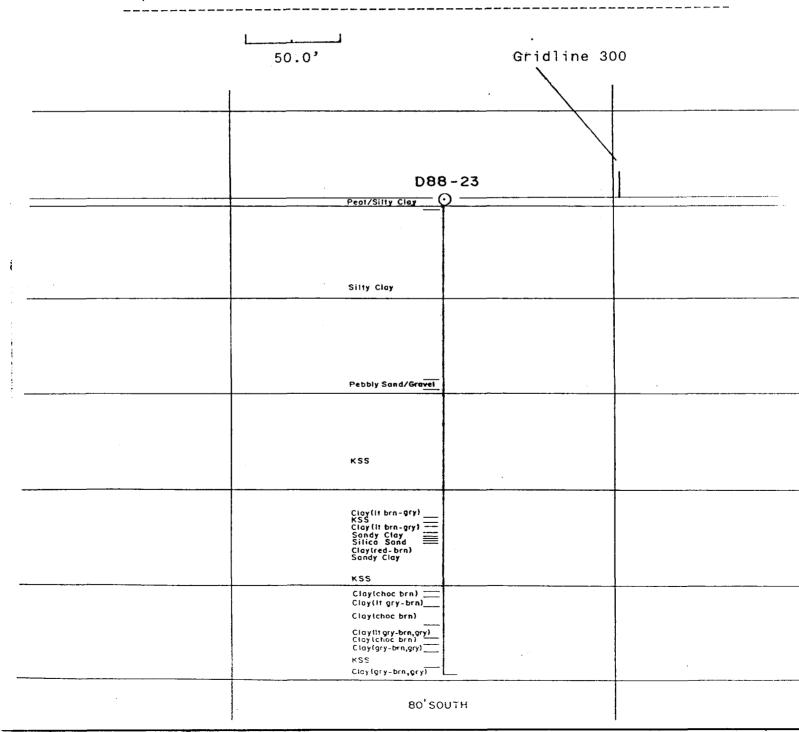
Claim No.: P 867411 Hole Length: 250.0'

Overburden Depth: 102.0'

Astronomic Azimuth: 50° 09' 28" W. 82° 14' 06" N Location: 350.0' at 217° to claim post no. 1 Scale: 1.0" = 50.0' or 1:600

Northing: 1375 N 210 E Easting:

Dip: -90°



Claim No,: P1198515 Hole Length: 250.0'

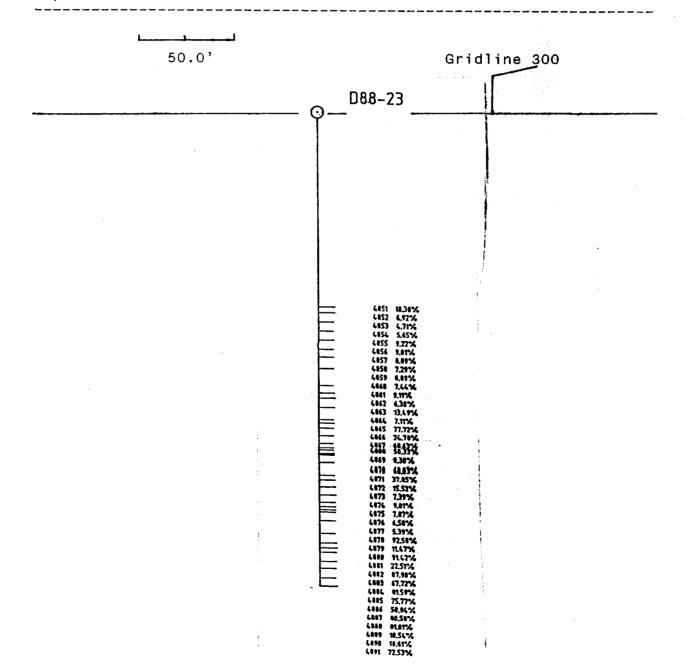
Overburden Depth: 102.0'

Astronomic Azimuth: 50° 09' 28" W. 82° 14' Location: 350.0' at 217° To Claim Post no. 1 82° 14' 06" N

Scale: 1.0" = 50.0' or 1:600

Northing: 1375 N Easting: 210 E

Dip: -90°



Section D88-15 Dip Collar: - 90° Northing: 775 N Easting: 490 N Length: 215.0' Overburden Depth: 5.0' Astronomic Azimuth: 50° 09' 10" W. 82° 14' 14" N Location: 2100.0' at 261° to claim post no. 1 Scale: 1.0" = 50.0' or 1:600 Claim Number: T 19482, Patented 50.0' Gridline_500 D88-15 4201 47.27%
4602 16.66%
4603 30.12%
4606 17.70%
4606 17.70%
4606 7.72%
4607 75.95%
4607 75.95%
4607 13.47%
4608 10.97%
4608 10.97%
4608 10.97%
4608 10.97%
4608 10.97%
4608 10.97%
4608 10.97%
4608 10.97%
4608 10.97%
4609 10.27%
4609 10.27%
4609 10.27%
4609 10.27%
4609 10.27%
4609 10.27%
4609 10.27%
4609 10.27%
4609 10.27%
4609 10.27%
4609 10.27%
4609 10.27%
4609 10.27%
4609 10.27%
4609 10.27%
4609 10.27%
4609 10.27%
4609 10.27%
4609 10.27%
4609 10.27%
4609 10.27%
4609 10.27%
4609 10.27%
4609 10.27%
4609 10.27%
4609 10.27%
4609 10.27%
4609 10.27%
4609 10.27%
4609 10.27%
4609 10.27%
4609 10.27%
4609 10.27%
4609 10.27%
4609 10.27%
4609 10.27%
4609 10.27%
4609 10.27%
4609 10.27%
4609 10.27%
4609 10.27%
4609 10.27%
4609 10.27%
4609 10.27%
4609 10.27%
4609 10.27%
4609 10.27%
4609 10.27%
4609 10.27%
4609 10.27%
4609 10.27%
4609 10.27%
4609 10.27%
4609 10.27%
4609 10.27%
4609 10.27%
4609 10.27%
4609 10.27%
4609 10.27%
4609 10.27%
4609 10.27%
4609 10.27%
4609 10.27%
4609 10.27%
4609 10.27%
4609 10.27%
4609 10.27%
4609 10.27%
4609 10.27%
4609 10.27%
4609 10.27%
4609 10.27%
4609 10.27%
4609 10.27%
4609 10.27%
4609 10.27%
4609 10.27%
4609 10.27%
4609 10.27%
4609 10.27%
4609 10.27%
4609 10.27%
4609 10.27%
4609 10.27%
4609 10.27%
4609 10.27%
4609 10.27%
4609 10.27%
4609 10.27%
4609 10.27%
4609 10.27%
4609 10.27%
4609 10.27%
4609 10.27%
4609 10.27%
4609 10.27%
4609 10.27%
4609 10.27%
4609 10.27%
4609 10.27%
4609 10.27%
4609 10.27%
4609 10.27%
4609 10.27%
4609 10.27%
4609 10.27%
4609 10.27%
4609 10.27%
4609 10.27%
4609 10.27%
4609 10.27%
4609 10.27%
4609 10.27%
4609 10.27%
4609 10.27%
4609 10.27%
4609 10.27%
4609 10.27%
4609 10.27%
4609 10.27%
4609 10.27%
4609 10.27%
4609 10.27%
4609 10.27%
4609 10.27%
4609 10.27%
4609 10.27%
4609 10.27%
4609 10.27%
4609 10.27%
4609 10.27%
4609 10.27%
4609 10.27%
4609 10.27%
4609 10.27%
4609 10.27%
4609 10.27%
4609 10.27%
4609 10.27%
4609 10.27%
4609 10.27%
4609 10.27%
4609 10.27%
4609 10.27%
4609 10.27%
4609 10.27%
4609 10.27%
4609 10.27%
4609 10.27%
4609 10.27%
4609 10.27%
4609 10.27%
4609 10

A THE STATE OF THE STATE OF

ROTARY DRILL HOLE RECORD

Drilli Dip Co Hole Lo Overbu Claim I Northir Easting Azimuth Locatio	ng Finish ng Co.: M llar: -90 ength: 21 rden Dept No.: P 11 ng: 1430 G: 600 N	Core Storage: 5.0' Mineral Research Canada Inc. R. R. # 2 Parry Sound ON P2A 2W8 Hole No.: D88-24 31" N, 82° 14' 17" W
SUMMARY		MAY 2-6 1995
From	То	Description MINING LANDS BRANCH
0.0'	28.0'	Glacial Sandy Clay Till
28.0'	32.0'	Grave? 2.16012
32.0'	36.0'	Glacial Clay Till
36.0'	38.0'	Gravel MINERAL RESEARCH
38.0'	69.0'	Glacial Clay Till MARRY SALTA ONTARIO
69.0'	73.0'	Sand FAX (705) 378-5123 (705) 378-2416
73.0'	75.0'	Glacial Clay Till
75.0'	77.0'	Sand
77.0'	113.5'	Glacial Clay Till
113.5'	115.0'	Sand - Overburden - Pleistocene
115.0'	167.0'	Kaolin Silica Sand (Kss) Cretaceous
167.0'	170.0'	Sandy Clay
170.0'	210.0'	Kss
210.0'	210.75'	Clay
210.75'	211.25'	Kss
211.25'	215.0'	Clay

Detail Log D88-24

From	То	Sample Number	Description
0.0'	28.0'		Glacial Sandy Clay Till - fissile, fine grain, light green/brown, calcareous, clast- free, apparent mica.
28.0'	32.0'		Gravel - grey to greenish grey, fining downsection, form coarse to fine grain, 50.0% silica.
32.0'	36.0'		Glacial Silty Clay Till - as previous.
36.0'	38.0'		Gravel - as previous.
38.0'	69.0'		Glacial Clay Till - as previous, 53.0' - 69.0' - 1.0 - 2.0% carbonate clasts & 10.0% gneissic clasts.
69.0'	73.0'		Sand - fine grain, grey to green/grey, approximately 50.0% silica, 5.0% larger carbonate clasts & 15.0% gneissic clasts from 0.25" - 1.25".
73.0'	75.0'		Glacial Clay Till - as previous.
75.0'	77.0'		Sand - as previous.
77.0'	113.5'		Glacial Clay Till - as previous.
113.5'	115.0'		Sand - medium grain silica, grey, presumably washed out silica, did not go to Parry Sound.
115.0'	119.0'	15301	Kss - coarse grain, light brown at upper contact, lightening downsection, entire hole dried, 11.22% kaolin.
119.0'	123.0'	15302	Kss - medium grain, white, 8.91% kaolin.
123.0'	127.0'	15303	Kss - as above, 8.68% kaolin.
127.0'	131.0'	15304	Kss - as above, 10.08% kaolin.
131.0'	135.0'	15305	Kss - coarse grain, white, one yellow sulphureous seam at

			131.75', sulphureous smell, frequent yellow chert, 5.59% kaolin.
135.0'	137.0'	15306	Kss - clay-poor, medium grain, light brown, drilling debris, 3.09% kaolin.
137.0'	141.0'	15307	Kss - as above. (Box had no lid), 3.65% kaolin.
141.0'	144.0'	15308	Kss - medium grain, coarsening downsection to coarse, white, 6.33% kaolin.
144.0'	149.0'	15309	Kss - medium grain, white, 7.54% kaolin.
149.0'	152.0'	15310	Kss - medium and coarse grain alternating, light brown, drilling debris, 6.94% kaolin.
152.0'	155.0'	15311	Kss - medium grain, light brown, 13.69% kaolin.
155.0'	158.0'	15312	Kss - medium grain grading to coarse grain downsection, light brown, 6.51% kaolin.
158.0'	162.0'	15313	Kss - medium grain, light brown, 6.30% kaolin.
162.0'	165.0'	15314	Kss - as above, 5.32% kaolin.
165.0'	167.0'	15315	Kss - as above, sulphureous smell, 8.56% kaolin.
167.0'	170.0'	15316	Sandy Clay - competent, disc-like, high silty content, dark red and brown at upper contact, becoming medium grey, minor illite, 32.35% kaolin.
170.0'	174.0'	15317	Kss - fine grain, coarsening downsection to medium grain, slightly carbonaceous, 12.15% kaolin.
174.0'	178.0'	15318	Kss - medium grain, medium brown, much red and yellow mould, 7.11% kaolin.
178.0'	182.5'	15319	Kss - as above, 7.75% kaolin.
182.5'	185.0'	15320	Kss - as above - nearly white, 5.57% kaolin.
185.0'	187.0'	15321	Kss - clay-poor, medium grain, light brown, a highly garnetiferous, siliceous, haematitic conglomerate clast of 2.0",

			angular located at 186.0', garnet material dispersed throughout, 3.59% kaolin.
187.0'	192.0'	15322	Kss - light brown, medium grain, garnet material dispersed throughtout, 3.77% kaolin.
192.0'	195.0'	15323	Kss - as above, few agglomerate clasts as previous though more hematite staining at contact with kss, 3.67% kaolin.
195.0'	199.0'	15324	Kss - as above - no agglomerate clasts, 5.34% kaolin.
199.0'	203.0'	15325	Kss - as above, much garnetiferous material dispersed throughout, 9.22% kaolin.
203.0'	207.0'	15326	Kss - coarse grain, white, 8.20% kaolin.
207.0'	210.0'	15327	Kss - coarse grain, white, 17.87% kaolin.
210.0'	210.75'	15328	Clay - competent, disc-like, greasy, light grey, carbonaceous, 78.03% kaolin.
210.75'	211.25'	15329	Kss - medium grain, medium brown, sulphureous smell, 9.29% kaolin.
211.25'	215.0'	15330	Clay - disc-like, greasy, competent, light yellow brown, carbonaceous, with concord purple laminations, 80.08% kaolin.

EOH - 215.0'

Section D88-24

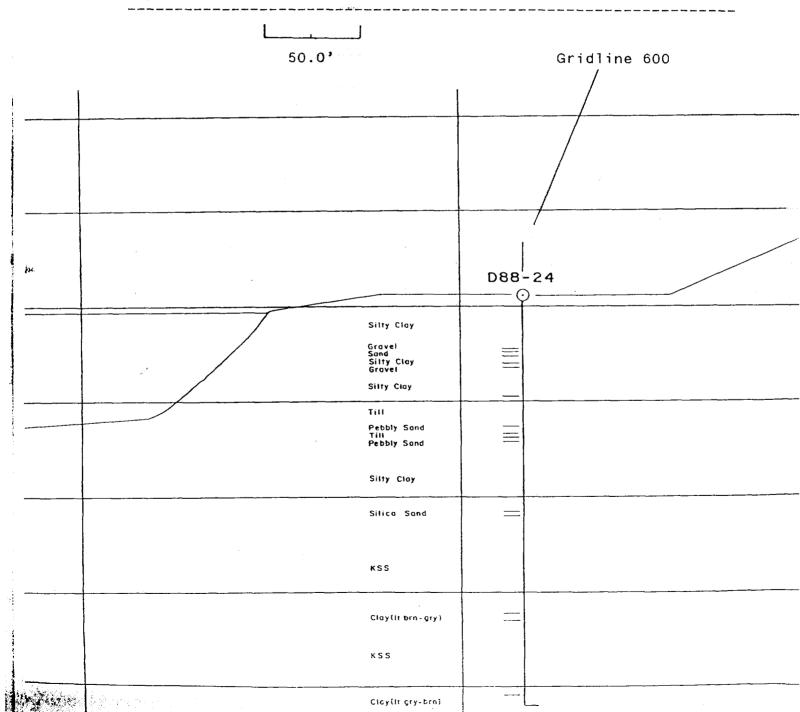
Claim No.: P 867410 Hole Length: 215.0'

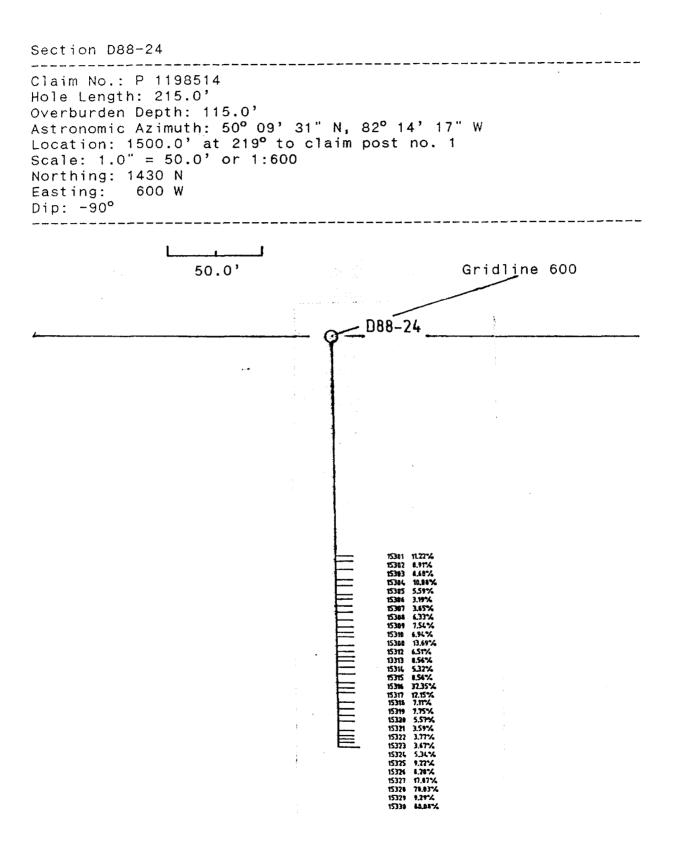
Overburden Depth: 115.0'

Astronomic Azimuth: 50° 09' 31" W. 82° 14' 17" N Location: 1500.0' at 219° to claim post no. 1 Scale: 1.0" = 50.0' or 1:600

Northing: 1430 N 600 W Easting:

Dip: -90°





Logged By: A. Casselman Logged: April 13, 1989

Mineral Research Canada

Parry Sound ON P2A 2W8

Core Size: 3.5" Core Storage:

Hole No.: PJ88-2

R. R. # 2

ROTARY DRILL HOLE RECORD

Drilling Started: Dec. 19, 1988 Drilling Finished: Dec. 20, 1988

Drilling Co.: Midwest

Dip Collar:-90°

Hole Length: 170.0'

Overburden Depth: 115.0'

Claim No.: P 825794

Easting: 4600 E

Location: 1400.0' at 270° to Claim Post No. 1

Property: Kipling

Northing: 10 N Azimuth: 50° 08' 51" N, 82° 09' 40" W

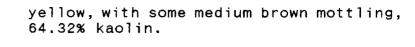
SUMMARY				
From	То	Description		,
0.0'	115.0'	Glacial Clay Till	Overburden	- Pleistocene
115.0'	120.0'	Clay & Sandy Clay - i	nterbedded	Cretaceous
120.0'	142.0'	Kaolin Silica Sand (K		
142.0'	146.0'	Clay	2.1	SO12 CEIVED
146.0'	169.0'	Sandy Clay	RE	CEIVED
169.0'	170.0'	Clay	MAY	2 6 1995
			MINING	LANDS BHANCH

EOH - 170.0'

FAX (705) 378-5123 / DATE

Detail Log PJ88-2

competent, dark us, 2.0 - 5.0% 0% gneissic clasts disc-like, light , some yellow,
own, minor illite, dy, 30.42% kaolin.
ight brown, dried.
light brown, minor kaolin.
ight brown, 10.33%
edium grey, larger minor heavies,
fining downsection grey, dried, 7.27%
like, greasy, buff minations, mottled 1% kaolin.
fine grain, buff, at upper contact,
nt, disc-like, wn, with ons at upper % kaolin.
, 55.95% kaolin.
nt, fissile, above, haematite ng debris, 44.67%
ssile, medium



EOH - 170.0'

Section PJ88-2 Claim No.: P 825794 Hole Length: 170.0' Overburden Depth: 115.0' Astronomic Azimuth: 50° 08' 51" W. 82° 09' 40" N Location: 1400.0' at 270° to claim post no.1 Scale: 1.0" = 50.0' or 1:600 Northing: 010 N Easting: 4600 E Dip: -90° 50.0' Gridline 4600 ELE PJ88-2 TRE Clay & S-Kss Clay Sandy Clay Clay

Silty Clay

Section PJ88-2 Claim No.: P 825794 Hole Length: 170.0' Overburden Depth: 115.0' Astronomic Azimuth: 50° 08' 51" N, 82° 09' 40" W Location: 1400.0' at 270° to claim post no.1 Scale: 1.0" = 50.0' or 1:600 Northing: 010 N . Easting: 4600 E Dip: -90° 50.0' Gridline 4600 PJ88-2 17751 63,37% 17253 36,22% 17253 6,32% 17254 6,37% 17255 6,33% 17256 5,33% 17257 7,27% 17259 61,78% 17259 61,78% 17261 55,35% 17261 55,35% 17261 66,67% 17263 66,37%

SONIC DRILL HOLE RECORD

Drilling Started: February 13, 1991
Drilling Finished: February 14, 1991
Drilling Co.: J. R. Drilling
Dip: -90°
Hole Length: 245.0'
Overburden Depth: 76.0'
Claim No.: P 900095
Easting: 3010 E
Northing: 525 N

Logged By: A. Casselman
Logged: May 4, 1991
Core Size: 3.5"
Core Storage:
Mineral Research Canada
R. R. # 2
Parry Sound, ON
P2A 2W8
Hole No.: 89-33

Azimuth: 50° 08' 59" W. 82° 11' 10" N.

Location: 580.0' at 270° To Claim Post No. 1

Property: Kipling

SUMMARY

From	То	Description
0.0'	12.0'	Peat RECEIVED
12.0'	13.0'	Sand
13.0'	39.0'	Glacial Clay Till MAY 2 6 1995
39.0'	40.0'	Sand MINING LANDS BRANCH
40.0	62.0'	Glacial Clay Tale 160 12
62.0'	76.0	Sand Pleistocene ~ Overburden
76.0'	84.0'	Kaolin Silica Sand (Kss) Cretaceous
84.0'	87.0'	Clay
87.0'	91.0'	Sandy Clay
91.0'	111.0'	Kss MINEMAY RESEARCH
111.0'	113.0'	Clay Mile Sive of
113.0'	115.0'	Clay Sandy Clay FAX (705) 378/518 Sys (705) 378-2416
115.0'	192.0'	
192.0'	196.0'	Sandy Clay
196.0'	237.5'	Kss
237.0'	241.0'	Sandy Clay
241.0'	245.0'	Clay

Detail Log 89 - 33

From	То	Sample No.	Description
0.0'	12.0'		Peat
12.0'	13.0'		Sand - green/grey, fine grain, minor clay matrix.
13.0'	39.0'		Glacial Clay Till - green/grey, competent, 5.0% carbonate clasts, 20.0% gneissic clasts, areas of sandy matrix.
39.0'	40.0'		Sand - green/grey, fine grain sand with a grey brown clay matrix.
40.0'	62.0'		Glacial Clay Till - as previous.
62.0'	70.0'	101	Sand - medium grain, green/grey, clay -poor. 19.75% kaolin - obviously not in the first two samples.
70.0'	76.0'	102	Sand - as above. 18.33% kaolin.
76.0'	80.0'	103	Kss - medium grain, 76.0' - 77.0' - white, 77.0' - 79.0' - yellow to light grey, 79.0' - 80.0' - light grey. 6.56% kaolin.
80.0'	84.0'	104	Kss - medium grain, white to light grey, 83.5' - 84.0' - moderately yellow, 6.56% kaolin.
84.0'	87.0'	105	Clay - pliable to friable near upper contact with kss, light brown to cream, mottled, fine kss seams at upper contact. 67.54% kaolin.
87.0'	91.0'	106	Sandy Clay - pliable, 87.0' - 88.0' - light brown to medium brown laminations, from 88.0' - 91.0' - light grey. 33.16% kaolin.
91.0'	98.0'	107	Kss - fine grain, medium grey, lightening and coarsening downsection to light grain white. 7.92% kaolin.
98.0'	100.0	' 108	Kss - medium grain, light grey to white. 7.67% kaolin.
100.0'	105.0	' 109	Kss - medium grain, frequent light brown to light grey clay clots, light grey. 15.47% kaolin.

105.0'	107.0'	110 Kss - medium grain, yellow/grey, occasional clay clot as above. 11.72% kaolin.
107.0'	111.0'	111 Kss - fine grain, yellow/grey, no clay clots. 7.52% kaolin.
111.0'	113.0'	112 Clay - rose to yellow, pliable, lightening downsection. 59.90% kaolin.
113.0'	115.0'	113 Sandy Clay - pliable, light grey. 37.59% kaolin, 60.0% kaolin, 40.0% quartz by XRD, 14.4% +325 mesh, 71.0 GE brightness.
115.0'	117.0'	114 Kss - 115.0' - 116.0' - medium grain, grey to yellow, 116.0' - 117.0' - sandy clay, pliable, light grey. 16.63% kaolin.
117.0'	122.0'	115 Kss - medium grain, white, 117.0' - 118.0' - grey, 11.04% kaolin.
122.0'	130.0'	Kss - coarse grain, with a fine grain section at 128.0 - 128.5'- grading to medium, light grey, with darker bands due to heavies banding, minor illite (entire hole to the end dried).
130.0'	134.0'	Kss - coarse grain, sandy clay band at 133.5' - 134.0', fine grain, buff, white kss, minor illite.
134.0'	140.0'	Kss - fine grain, white.
140.0'	144.0'	<pre>Kss - as above, sulphureous smell, spotty purple blue mould.</pre>
144.0'	147.0'	Kss - medium grain, buff, minor illite.
147.0'	153.0'	Kss - medium grain, white, heavies banding, minor illite.
153.0'	159.0'	Kss - coarse grain, fining downsection to fine, buff, minor heavies and illite.
159.0'	165.0'	Kss - fine grain, rare coarser clasts, white, minor illite.
165.0'	173.0'	Kss - medium grain, white, minor heavies and illite.
173.0'	178.0'	Kss - coarse grain, white.
178.0'	184.0'	Kss - as above.
184.0'	188.0'	Kss - medium grain, fine grain from 184.25' -

184.75', buff.

- 188.0' 192.0' Kss medium grain, coarsening downsection to coarse, light grey clay seam at 191.75' 192.0', silica imbedded, minor heavies.
- 192.0' 196.0' Sandy Clay competent, fissile, fine grain, light grey, minor illite.
- 196.0' 198.0' Kss fine grain, white, minor illite.
- 198.0' 202.0' Kss fine grain, medium brown, darker banding due to impurities, minor illite.
- 202.0' 206.0' Kss fine grain, medium brown, darker convoluted laminations, minor heavies and illite.
- 206.0' 210.0' Kss as above.
- 210.0' 214.0' Kss medium grain, buff, minor heavies and illite.
- 214.0' 219.0' Kss medium grain, white.
- 219.0' 223.0' Kss medium grain, coarsening downsection to coarse grain, white clay clots, in coarser portion.
- 223.0' 228.0' Kss medium grain, buff.
- 228.0' 232.0' Kss medium grain, buff, minor heavies and illite.
- 232.0' 237.0' Kss medium grain, coarsening downsection to coarse grain, light grey.
- 237.0' 241.0' Sandy Clay competent, fissile, medium brown, darker convolute laminations.
- 241.0' 245.0' Clay competent, disc-like, chocolate brown, sulphureous smell, exterior crystal growth.

EOH - 245.0'

Section 89-33 Claim No. P 900095 Dip Collar: -900 Scale: 1.0" = 50.0' or 1:600 Easting: 3010 E Northing: 525 N Hole Length: 245.0' Overburden Depth: 76.0' Astronomic Azimuth: 50° 08' 59" W. 82° 11' 10" N Location: 580.0' at 270° to claim post no. 1 50.0' Gridline 3000 89-33 Sandy Clay Kss Clay Sandy Clay

Section 89-33 Claim No. P 900095 Dip Collar: -90° Scale: 1.0" = 50.0' or 1:600 Easting: 3010 E Northing: 525 N Hole Length: 245.0' Overburden Depth: 76.0' Astronomic Azimuth: 50° 08' 59" W. 82° 11' 10" N Location: 580.0' at 270° to claim post no. 1 50.0' Gridline 3000 89-33

SONIC DRILL HOLE RECORD

Drilling Started: Feb. 21, 1989 Drilling Finished: Feb. 22, 1989 Logged By: A. Casselman Logged: Oct. 23, 1989 Drilling Co.: J. R. Drilling Core Size: 3.5" Dip: -90° Core Storage: Hole Length: 244.0' Mineral Research Canada Overburden Depth: 61.5' R. R. # 2 Parry Sound ON P2A 2W8 Claim No.: P 825802 Easting: 5400 E Elevation: 324.0' Northing: 200 S Hole No.: 89-44 Azimuth: 50° 08' 44" N, 82° 08' 51" W

Location: 1800.0' at 201° to Claim Post No. 1

Property: Kipling

SUMMARY

From	То	Description
0.0'	1.0'	Peat
1.0'	2.5'	Fluvial Sediments
2.5'	7.0'	Sand
7.0'	61.5'	Glacial Clay Till - Overburden - Pleistocene
61.5'	77.0'	Kanlin Silica Sand (kee) / Cratecous
77.0'	77.75'	Glacial Clay Till
77.75'	116.0'	Kss 2. 160 19
116.0'	127.0'	Sandy Clay
127.0'	132.0'	Kss Ming Man
132.0'	136.0'	Sandy Clay (705) 378-2416
136.0'	192.0'	Kss FAX (705) 378 × 123 M BUS (705) 878-2410
192.0'	198.0'	
198.0'	244.0'	Kss

Detail Log - 89-44

From	То	Sample No.	Description
0.0'	1.0'		Peat
0.0'	2.5'		Fluvial Sediments - green/grey clay, pliable, fine grain silt content.
2.5'	7.0'		Sand - pebbly, small percentage clay - light yellow brown, fine becoming coarse grain gravel downsection, occasional 3.0" clast, more frequent downsection.
7.0'	47.0'		Glacial Clay Till - green/grey with brown areas, especially upper portion of the unit, pliable and fissile sections interlayered, up to 15.0% Precambrian clasts.
47.0'	51.0'	12801	Glacial Clay Till - as above, 9.27% CaO.
51.0'	56.0'	12802	Glacial Clay Till - as above, 12.25% CaO.
56.0'	60.0'	12803	Glacial Clay Till - as above, 7.95% CaO.
60.0'	60.5'	12804	Glacial Clay Till - with up to 15.0% medium grain quartz clasts, 7.49% CaO.
60.5'	61.5'	12805	Glacial Clay Till - with frequent Kss clots - fine grain, white, 5.87% CaO.
61.5'	66.0'	12806	Kss - well sorted, fine grain, 64.0' - 65.0' - medium grain. 7.85% (TSL), 6.94% (Chemex) kaolin.
66.0'	71.0'	12807	Kss - as above, fining downsection. 6.63% (TSL), 6.48% (chemex) kaolin.
71.0'	77.0'	12808	Kss - as above, some light grey bands, rare 1.0" yellow clay clots. 5.80% (TSL), 5.72% (Chemex) kaolin.
77.0'	77.75'		Glacial Clay Till - as previous - not sampled.
77.75'	80.0'	12809	Kss - as previous - 1.0" - green clay bands throughout. 8.61% (TSL) 7.80% (Chemex) kaolin.

80.0'	84.0'	12810	Kss - as previous. 7.09% (TSL), 5.62% (Chemex) kaolin.
84.0'	88.0'	12811	Kss - poorly sorted from 87.25 - 88.0' - as above. 7.87% kaolin.
88.0'	92.0'	12812	Kss - as above. 7.04% kaolin.
92.0'	96.0'	12813	Kss - well sorted, medium grain, white. 8.05% kaolin.
96.0'	101.0'	12814	Kss - as above. 7.06% kaolin.
101.0'	106.0'	12815	Kss - as above. 102.75' - 102.0' - poorly sorted. 8.28% kaolin.
106.0'	111.0'	12816	Kss - as above. 9.54% kaolin.
111.0'	116.0'	12817	Kss - slight yellow colouration. 10.20% kaolin.
116.0'	122.0'	12818	Sandy Clay - pliable, light brown, some yellow at upper contact. 24.51% kaolin.
122.0'	127.0'		- competent, fissile, light brown, , pink/purple mould.
127.0'	132.0'	Kss - fine g illite, mois	rain, light brown, minor heavies and t.
132.0'	136.0'		competent, fissile, grading to fine uff darkening to medium brown, minor illite.
136.0'	144.0'	Kss - medium dried.	grain, light grey - remainder of hole
144.0'	147.0'	Kss - as abo	ve.
147.0'	151.0'	Kss - as abo	ve.
151.0'	156.0'		grain, some portions are vari- icas in a white clay matrix.
156.0'	158.0'		grain, light brown, minor heavies and r saturated - much liquid in bag.
158.0'	164.0'	Kss - medium	grain, medium brown.
164.0'	170.0'	Kss – as abo	ve.
170.0'	176.0'	Kss - medium	grain, white.

176.0'	181.0'	Kss - medium grain with rare coarser clasts, sub- angular smoky quartz up to 2.0", light grey vari- coloured silica.
181.0'	186.0'	Kss - coarse grain in a medium grain matrix, light grey.
186.0'	192.0'	Kss - as above, medium brown.
192.0'	198.0'	Sandy Clay - competent, fissile, buff, minor heavies and illite.
198.0'	203.0'	Kss - coarse grain in a medium grain matrix, light brown.
203.0'	209.0'	Kss - medium grain coarsening downsection, white, some areas of yellow/green crusting.
209.0'	215.0'	Kss - medium grain, with frequent coarse clasts, white.
215.0'	221.0'	Kss - as above.
221.0'	226.0'	Kss - fine grain, light brown, minor heavies and illite.
226.0'	232.0'	Kss - medium grain, white.
232.0'	238.0'	Kss - as above.
238.0'	244.0'	Kss - as above.

Section 89-44

Claim No.: P 825802 Hole Length: 244.0' Overburden Depth: 61.5'

Astronomic Azimuth: 50° 08' 44" N, 82° 08' 51" W Location: 1800.0' at 201° to claim post no. 1 Scale: 1.0" = 50.0' or 1:600

Northing: 200 S Easting: 5400 E

Dip: -90°

50.0'

Gridline 5400

Section 89-44

Claim No.: P 825802 Hole Length: 244.0'

Overburden Depth: 61.5'

Astronomic Azimuth: 50° 08' 44" W. 82° 08' 51" N Location: 1800.0' at 201° to claim post no. 1

Scale: 1.0" = 50.0' or 1:600

Northing: 200 S Easting: 5400 E

Dip: -90°

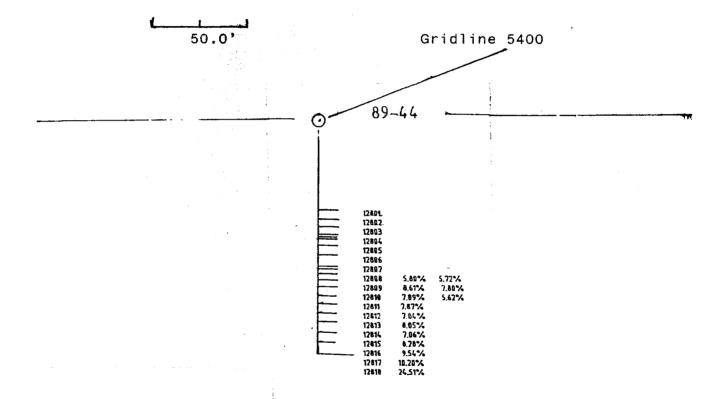
50.0 Gridline 5400 <u>-</u>○ 89-44 Peat Sand Till KSS HIT KSS Sandy Clay KSS Sandy Clay KSS Sandy Clay KSS

Claim No.: P 825802 Hole Length: 244.0'

Overburden Depth: 61.5'

Astronomic Azimuth: 50° 08' 44" W. 82° 08' 51" N Location: 1800.0' at 201^0 to claim post no. 1 Scale: 1.0" = 50.0' or 1:600

Northing: 200 S Easting: 5400 E Dip: -90°



ROTARY DRILL HOLE RECORD

Drilling Started: Feb. 25, 1989 Logged By: A. Casselman Drilling Finished: Feb. 25, 1989 Logged: April 10, 1989 Drilling Co.: Midwest Dip: -90° Core Size: 3.5" Core Storage: Mineral Research Canada Hole Length: 247.0' Overburden Depth: 36.0' R. R. # 2 Parry Sound, ON Claim No.: P 825802 Easting: 5505 E P2A 2W8 Northing: 270 N Elevation: 350.0' Azimuth: 50° 08' 58" N, 82° 08' 47" W. Location: 350.0' at 247° To Claim Post No. 1 Property: Kipling Hole No.: 89-46 SUMMARY From To Description 0.0' 4.0' Peat 4.0' 12.0' Sand 12.0' 20.0' Fluvial Sediments 20.0' 36.0' Glacial Clay Till - Overburden - Pleistocene 36.0' 101.5' Kaolin Silica Sand (Kss) Cretaceous 101.5 107.0' Clay 107.0' 109.5 Sandy Clay 109.5 110.0' Clay 110.0' 121.0' Sandy Clay 121.0' 250.0' Kss

EOH - 247.0'



Detail Log - 89-46

From	То	Sample No.	Description
0.0'	4.0'		Peat
4.0'	12.0'		Sand - fine grain, coarsening downsection to coarse grain, numerous larger clasts - up to 2.0", 6.0' - 7.0' - gravel - predominantly Devonian clasts.
12.0'	20.0'		Fluvial Sediments - dark brown clay, very fine grain silt, pliable, clast free.
20.0'	31.0'		Glacial Clay Till - dark brown, pliable sections interlayered with competent sections, up to 15.0% carbonate (Devonian) clasts up to 3.0".
31.0'	35.5'	12601	Glacial Clay Till - as above.
35.5'	36.0'	12602	Glacial Clay Till - as above, 20.0% kss type quartz.
36.0'	41.0'	12603	Kss - well sorted, fine to medium grain, grey with yellow tinge from 36.0' - 38.0', from 38.0' - 41.0' - well sorted, medium to coarse grain, light grey with a yellow tinge. 7.44% kaolin.
41.0'	44.0'	12604	Kss – as above at 38.0' – 41.0'. 9.24% kaolin.
44.0'	51.0'	12605	Kss - well sorted, fine grain, white. 9.22% kaolin.
51.0'	55.0'	12606	Kss - as above. 6.86% kaolin.
55.0'	58.0'	12607	Kss - purple, medium grain, frequent light grey clay clots from 55.0' - 55.75', from 55.75' - 58.0' - well sorted, fine grain, light grey, coarser at lower contact, 2.0" light grey pliable clay. 16.20% kaolin.
58.0'	60.0'	12608	Kss - well sorted, medium grain, coarsening downsection, light grey. 7.49% kaolin.
60.0'	66.0'	12609	Kss - well sorted, fine grain, white

coarser	from	62.0'	_	62.25'.	7.04%
kaolin.					

			Kaolin.
66.0'	71.0'	12610	Kss - well sorted, medium grain, white, yellow tinge. 6.30% kaolin.
71.0'	76.0'	12611	Kss - as above, 8.56% kaolin.
76.0'	80.0'	12612	Kss - as above, coarsening downsection. 9.09% kaolin.
80.0'	86.0'	12613	Kss - well sorted, fine grain, white. 10.28% kaolin.
86.0'	91.0'	12614	Kss - well sorted, medium grain, white, some light grey. 10.91% kaolin.
91.0'	96.0'	12615 I	(ss - as above from 91.0' - 93.0', 93.0' - 93.25' - clay, light brown, pliable, 93.25' - 96.0' - kss, poorly sorted, medium to coarse grain, white. 4.91% kaolin.
96.0'	101.5'	12616	Kss - from 96.0' - 100.5' - poorly sorted, medium grain, light grey, 100.5' - 101.5' - kss, well sorted, fine grain, light brown. 12.65% kaolin.
101.5'	106.0'	12617	Clay - light brown, yellow tinge, competent, friable, becoming pliable downsection, 2.0" fine grain kss seam at 109.0'. 69.65% kaolin.
106.0'	107.0'	12618	Clay - competent, friable, red/brown, section of light grey competent sandy clay at upper bag contact. 58.78% kaolin.
107.0'	109.5'	12619	Sandy Clay - competent, light grey, 107.0' - 108.0' - red/yellow bands. 33.27% kaolin.
109.5'	110.0'	12620	Clay - pliable, red/brown. 55.47% kaolin.
110.0	112.0'	12621	Sandy Clay - pliable, buff, yellow brown at upper contact. 25.59% kaolin.
112.0'	116.0'	12622	Sandy Clay - as above, 22.08% kaolin.
116.0'	121.0'	12623	Sandy Clay - as above, 22.15% kaolin.
121.0'	126.0'	12624	Kss - fine grain, light brown, minor heavies and illite, remainder of hole dried, 12.58% kaolin.

126.0'	131.0'	12625	Kss - as above, 15.95% kaolin.
131.0'	136.0'	12626	Kss - as above, grading to medium grain, white, 7.01% kaolin.
136.0'	141.0'	12627	Kss - coarse grain, in a medium grain matrix, vari-coloured silica, 11.92% kaolin.
141.0'	146.0'	12628	Kss - coarse grain, white, vari-coloured silica, angular, white, pitted Devonian siltstone clast at 143.0' with <i>in situ</i> hematite nodules on the surface, 12.96% kaolin.
146.0'	151.0'	12629	Kss - fine grain, light brown, minor heavies and illite, 9.47% kaolin.
151.0'	156.0'	12630	Kss - medium grain, light brown, upper two feet fine grain, 14.08% kaolin.
156.0'	161.0'	12631	Kss - coarse grain, white, vari-coloured silica - sub-angular to angular, larger clasts, 13.57% Kaolin.
161.0'	166.0'	12632	Kss - medium grain, light brown, minor heavies and illite, 10.35% kaolin.
166.0'	170.0'	12633	Kss - as above, with larger sub-rounded, vari-coloured silica, 8.38% kaolin.
170.0'	174.0'	12634	Kss - coarse grain, white, vari-coloured silica, 8.13% kaolin.
174.0'	178.0'	12635	Kss - coarse grain, in medium grain matrix, alternating with a white clay matrix, varicoloured silica, 11.87% kaolin.
178.0'	183.0'	12636	Kss - coarse grain in a medium grain matrix grading to medium grain, white, 10.10% kaolin.
183.0'	188.0'	12637	Kss - coarse grain in a medium grain matrix, white, vari-coloured silica, some medium grain, buff sandy clay mottled from 183.0' - 188.0', 11.90% kaolin.
188.0'	193.0'	12638	Kss - as above, 8.41% kaolin.
193.0'	197.0'	12639	Kss - medium grain, white, some areas of coarse grain vari-colured silica, 8.84% kaolin.
197.0'	202.0'	12640	Kss - as above, 3.0" of buff & medium brown mottled, competent, fissile, illitic sandy

clay at 200.0', medium grain below the sandy clay and coarse grain above, 23.04% kaolin.

202.0'	206.0'	12641	Kss - as above, 9.37% kaolin.
206.0'	210.0'	12642	Kss - as above. 7.01% kaolin.
210.0'	214.0'	12643	Kss - as above, 5.44% kaolin.
214.0'	218.0'	12644	Kss - as above, 6.03% kaolin.
218.0'	222.0'	12645	Kss - medium grain, light brown, clay clotting, competent, medium brown and buff mottled at 220.0', 9.65% kaolin.
222.0'	226.0'	12646	Kss - as above, 9.97% kaolin.
226.0'	234.0'	12647	Kss - medium grain, light brown, garnet, haematite staining, drilling debris throughout, high amount of heavies, 8.30% kaolin.
234.0'	240.0'	12648	Kss - as above, two siliceous heamatitic garnetiferous clasts at 238.0' of 1.5", subangular, granular, moist, 8.68% kaolin.
240.0'	243.0'	12649	Kss - as above, dried, 9.34% kaolin.
243.0'	247.0'	12650	Kss - as above, last 0.75'- tiger striped carbonaceous and orange brown sandy clay, competent, fissile, illitic, 13.90% kaolin.

EOH - 247.0'

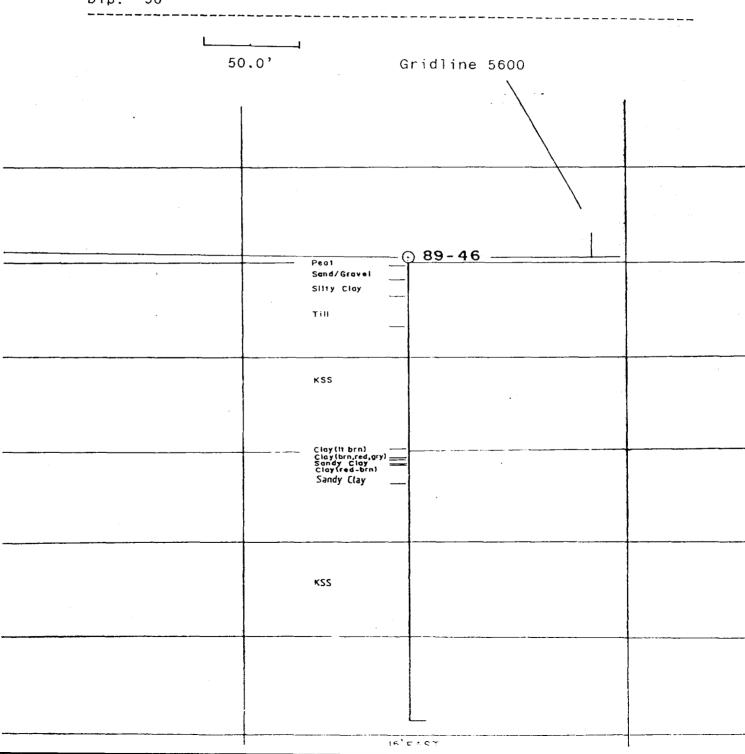
Section 89-46

Claim No.: P 825802 Hole Length: 247.0'

Overburden Depth: 36.0'

Astronomic Azimuth: 50^{0} 08' 58" W. 82^{0} 08' 47" N Location: 350.0' at 247° to claim post no. 1 Scale: 1.0" = 50.0' or 1:600

Northing: 270 N Easting: 5505 E Dip: -90°



Section 89-46 Claim No.: P 825802 Hole Length: 247.0' Overburden Depth: 36.0' Astronomic Azimuth: 50° 08' 58" W. 82° 08' 47" N Location: 350.0' at 247° to claim post no. 1 Scale: 1.0" = 50.0' or 1:600 Northing: 270 N Easting: 5505 E Dip: -90° 50.0 Gridline 5500 89-46 12601 71407 71407 71407 71407 71408 71408 71408 71407 71408 71407 71408 71407 71408 71407 71408 71407 71407 71407 71407 71407 71407 71407 71407 71407 71407 71407 71407 71407 71407 71407 71407 71407 71407 71407 71407 71407 71407 71407 71407 71407 71407 71407 71407 71407 71407 71407 71407 71407 71407 71407 71407 71407 71407 71407 71407 71407 71407 71407 71407 71407 71407 71407 71407 71407 71407 71407 71407 71407 71407 71407 71407 71407 71407 71407 71407 71407 71407 71407 71407 71407 71407 71407 71407 71407 71407 71407 71407 71407 71407 71407 71407 71407 71407 71407 71407 71407 71407 71407 71407 71407 71407 71407 71407 71407 71407 71407 71407 71407 71407 71407 71407 71407 71407 71407 71407 71407 71407 71407 71407 71407 71407 71407 71407 71407 71407 71407 71407 71407 71407 71407 71407 71407 71407 71407 71407 71407 71407 71407 71407 71407 71407 71407 71407 71407 71407 71407 71407 71407 71407 71407 71407 71407 71407 71407 71407 71407 71407 71407 71407 71407 71407 71407 71407 71407 71407 71407 71407 71407 71407 71407 71407 71407 71407 71407 71407 71407 71407 71407 71407 71407 71407 71407 71407 71407 71407 71407 71407 71407 71407 71407 71407 71407 71407 71407 71407 71407 71407 71407 71407 71407 71407 71407 71407 71407 71407 71407 71407 71407 71407 71407 71407 71407 71407 71407 71407 71407 71407 71407 71407 71407 71407 71407 71407 71407 71407 71407 71407 71407 71407 71407 71407 71407 71407 71407 71407 71407 71407 71407 71407 71407 71407 71407 71407 71407 71407 71407 71407 71407 71407 71407 71407 71407 71407 71407 71407 71407 71407 71407 71407 71407 71407 71407 71407 71407 71407 71407 71407 71407 71407 71407 71407 71407 71407 71407 71407 71407 71407 71407 71407 71407 71407 71407 71407 71407 71407 71407 71407 71407 71407 71407 71407 71407 71407 71407 71407 71407 71407 71407 71407 71407 71407 71407 71407 71407 71407 71407 71407 71407 71407 71407 71407 71407 71407 71407 71407 71407 71407 71407 71407 71407 71407 71407 71407 71407 71407 71407 71407 71407 71407 71407 71407 71407 71407 71407 71407 71407 71407 71407 71407 71407 71407 12421 12.58% 12425 15.55% 12427 15.95% 12427 15.95% 12429 15.95% 12429 15.95% 12439 12.95% 12439 12.95% 12439 12.95% 12439 12.95% 12439 12.95% 12439 12.95% 12439 12.95% 12439 12.95% 12439 12.95% 12439 12.95% 12449 12.95% 12449 12.95% 12449 12.95% 12449 12.95% 12449 12.95% 12449 12.95% 12449 12.95% 12449 12.95% 12449 12.95% 12449 12.95% 12449 12.95% 12449 12.95% 12449 12.95% 12449 12.95% 12449 12.95% 12449 12.95% 12449 12.95% 12449 12.95%

SONIC DRILL HOLE RECORD

Drilling Started: Feb. 19, 1989 Logged By: A. Casselman Drilling Finished: Feb. 20, 1989 Logged: April 29, 1989 Drilling Co.: J. R. Drilling Dip: -90° Core Size: 3.5" Core Storage: Hole Length: 250.0' Mineral Research Canada Overburden Depth: 57.0' R. R. # 2 Parry Sound, ON Claim No.: P 825802 Easting: 5500 E P2A 2W8

Northing: 100 S Elevation: 328.0'

Azimuth: 50° 08' 47" W. 82° 08' 47" N.

Location: 1380.0' at 195° To Claim Post No. 1 Property: Kipling Hole No.: 89-48

		2.10012
То	Description	
9.5	Gravel	RECEIVED
42.0'	Glacial Clay Till	MAY 2 6 1995
43.0'	Cretaceous Clay	MINING LANDS BHANCH
46.0'	Glacial Clay Till & Kaolin	The state of the s
54.0'	LOST CORE (Glacial Clay Ti	11)
58.0'	Glacial Clay Till - Over	burden - Pleistocene
117.0'	Kaolin Silica Sand (Kss)	Cretaceous
122.0'	Kss, Sandy Clay & Clay	
189.0'	Kss	
198.75'	Clay	
250.0'	Kss	
	9.5' 42.0' 43.0' 46.0' 54.0' 58.0' 117.0' 122.0' 189.0' 198.75'	9.5' Gravel 42.0' Glacial Clay Till 43.0' Cretaceous Clay 46.0' Glacial Clay Till & Kaolin 54.0' LOST CORE (Glacial Clay Ti 58.0' Glacial Clay Till - Over

EOH - 250.0' MINERAL RESEARCH DATE

Detail Log - 89-48

From	То	Sample No.	Description
0.0'	9.5'		Gravel - brown to grey/brown, coarse grain, some clay matrix.
9.5'	42.0'		Glacial Clay Till - dark brown, competent, rare clast up to 2.0", clasts are angular and quite variable in size.
42.0'	43.0'	3051	Clay - dark brown, with black discontinuous laminations, competent, pliable grading to greasy, glacial frozen block encorporation. 53.29% kaolin.
43.0'	46.0'	3052	Glacial Clay Till - from 43.0' - 44.5' - as previous, 44.5' - 46.0' - clay dark brown, highly competent, greasy, black discontinuous laminations, rare light grey clots of kss - split box, material dried out. Kaolin portion only sampled. 60.56% kaolin.
46.0'	54.0'		LOST CORE - field log indicates glacial clay till as above.
54.0'	58.0'		Glacial Clay Till - as previous.
58.0'	62.0'	3053	Kss - medium grain, surface contamination, light grey with dark brown banding due to clay impurities. 9.72% kaolin.
62.0'	66.0'	3054	Kss - as above. 9.37% kaolin.
66.0'	70.0'	3055	Kss - as above. 8.73% kaolin.
70.0'	74.0'	3056	Kss – as above – much contamination. 5.92% kaolin.
74.0'	79.0'	3057	Kss - light grey, alternating medium and coarse grain, coarse grain portions contain high amounts of pliable light grey clay. 16.58% kaolin.
79.0'	83.0'	3058	Kss - as above, minor illite and heavies, medium grain, white. 7.22% kaolin.
83.0'	87.0'	3059	Kss - as above. 6.51% kaolin.

87.0'	92.0'	3060	Kss - as above. 6.30% kaolin.
92.0'	96.0'	3061	Kss - as above, clay impurity banding. 4.18% kaolin.
96.0'	100.0'	3062	Kss - as above. 6.78% kaolin.
100.0'	104.0'	3063	Kss - as above, 2.0" clay band at 102.0'. 10.23% kaolin.
104.0'	107.0'	3064	Kss - as above, frequent clay bands. 8.99% kaolin.
107.0'	112.0'	3065	Kss – as above, finer material, darker. 10.18% kaolin.
112.0'	117.0'	3066	Kss - as above. 6.25% kaolin.
117.0'	122.0'	3067	Kss, Sandy Clay & Clay - interbedded - clay - grey, pliable, high clast content from 117.0' - 119.0', Kss - medium grain, darkening downward, 119.0' - 119.75' - sandy clay - grey, 119.75 - 120.25' - clay as above, 120.25' - 121.25' - kss - medium grain, medium brown, 121.25' - 122.0' - clay - buff with yellow tinge. 29.52% kaolin.
122.0'	128.0'	3068	Kss - very coarse grain, with white, greasy, dried, clay clots/lens, numerous rounded, jasper, smoky quartz, yellow chert, up to 1.24". 42.76% kaolin.
128.0'	133.0'	3069	Kss - medium grain, white to light grey at 128.0', dried, frequent heavies banding. 15.14% kaolin.
133.0'	137.0'	3070	Kss - medium grain, low clay content, white, with some haematite staining. 10.71% kaolin.
137.0'	141.0'	3071	Kss - medium grey, medium grain, coarsening downward, some haematite staining due to contamination by drilling debris, more competent and more dried in coarse grain material, well rounded smoky quartz, yellow chert and jasper. 8.78% kaolin.
141.0'	145.0'	3072	Kss - fine grain, light brown, poor clay content, minor illite and heavies. 27.32% kaolin.
145.0'	150.0'	3073	Kss - coarse grain, light brown, average clay content, minor illite and heavies. 9.44% kaolin

150.0'	154.0'	3074	Kss - coarse grain, coarsening downsection, lightening downward from brown with grey sections (haematite staining) to light grey, increasing clay content downsection. 9.34% kaolin.
154.0'	158.0'	3075	Kss - fine grain, rare larger well rounded smoky quartz clasts up to 0.25", concentrated at 157.75', light grey, minor illite. 13.85% kaolin.
158.0'	162.0'	3076	Kss - as above, coarsening downward, numerous larger clasts throughout, well rounded smoky quartz and yellow chert, minor illite and heavies. 15.37% kaolin.
162.0'	166.0'	3077	Kss - medium grain, white, heavies banding as well as dispersed particles, minor illite in clot-like areas of light grey, extremely fine grain sandy clay. 8.61% kaolin.
166.0'	170.0'	3078	Kss - as above. 16.89% kaolin.
170.0'	175.0'	3079	Kss - as above, 8.94% kaolin.
175.0'	180.0'	3080	Kss - darkening and fining downsection, increasing heavies content downsection, 12.13% kaolin.
180.0'	182.0'	3081	Kss - as above, intense heavies banding dark grey and brown at lower bag contact, intense sulphureous growth of yellow crust and numerous clear elongated fibrous crystals - perhaps gypsum, 8.51% kaolin.
182.0'	185.0'	3082	Kss - 182.0' - 182.5' - medium grain, 182.5' - 184.5' - extremely coarse grain, 1.0" well rounded smoky quartz, yellow chert, white, 184.5' - 185.0' - medium grain with heavies, 7.09% kaolin.
185.0'	189.0'	3083	Kss - extremely coarse grain, average grain size 0.5", as above, small white, pliable clay clots, 6.86% kaolin.
189.0'	193.0'	3084	Clay - chocolate brown, competent, greasy, small seam of 0.25' of coarse grain kss, light brown at 190.5' - then chocolate brown grading to black competent greasy clay with 0.75" well rounded milky clasts, 55.75% kaolin.
193.0'	195.0'	3085	Clay - chocolate brown with clasts as previous, fossil wood, grading to black -

194.0' - 194.25' - light brown, 48.78% kaolin.

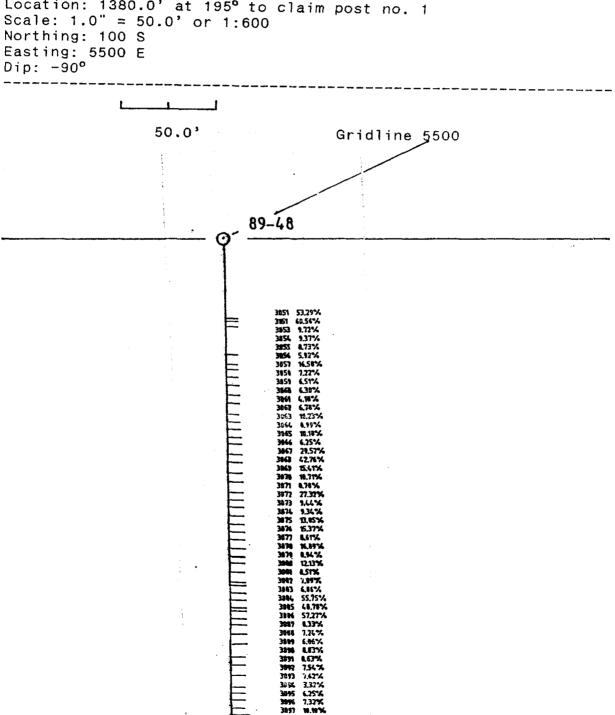
195.0'	198.75'	3086	Clay - lightening downsection, brown, competent, greasy, 57.27% kaolin.
198.75'	204.0'	3087	Kss - extremely coarse grain, white, 2 clasts up to 4.5" of grey mottled fossiliferous siliceous dolostone, coral, bryozoans, criniods, brachiopods, remainder of clasts are well rounded smoky quartz and yellow chert up to 1.0", 8.33% kaolin.
204.0'	209.0'	3088	Kss - medium grain, white, minor heavies and illite, fossiliferous clast as above, smaller, 7.24% kaolin.
209.0'	213.0'	3089	Kss - coarsening downsection to coarse from medium at 212.0' - a 2.0" reddish band, 212.5' - increased clay content, increase heavies content, minor heavies and illite, 6.86% kaolin.
213.0'	219.0'	3090	Kss - medium grain, white, minor illite and heavies, 8.03% kaolin.
219.0'	224.0'	3091	Kss - as above, darkening downsection to brown, some red areas, 8.63% kaolin.
224.0'	229.5'	3092	Kss - as previous, red as at 223.0' and 228.5', 7.54% kaolin.
229.5'	235.0'	3093	Kss - coarse grain and medium grain alternating, medium brown, minor illite and heavies, high clay content in coarser grain section, 7.62% kaolin.
235.0'	238.0'	3094	Kss - medium grain, minor illite and heavies, white, with yellow/brown areas, 3.32% kaolin.
238.0'	242.0'	3095	Kss - as above, lower clay content, 6.25% kaolin.
242.0'	246.0'	3096	Kss – as above, rare larger rounded smoky quartz up to 0.25", numerous black shale fragments, minor illite and heavies, 7.32% kaolin.
246.0'	250.0'	3097	Kss - medium grain, light grey, with clay rich areas, dried, extremely coarse areas up to 4.0", 10.10% kaolin.

Section 89-48 Claim No.: P 825802 Hole Length: 2500' Overburden Depth: 57.0' Astronomic Azimuth: 50° 08' 47" W. 82° 08' 47" N Location: 1380.0' at 195° to claim post no. 1 Scale: 1.0" = 50.0' or 1:600 Northing: 100 S Easting: 5500 E Dip: -90° 50.**0*** Gridline 5500 **O** 89-48 -Clay (chec brn) Titl Clay (chec brn) TIH KSS KSS/Clay/S.E. ~

[lay(choc brn)_

KSS

Section 89-48 Claim No.: P 825802 Hole Length: 2500' Overburden Depth: 57.0' Astronomic Azimuth: 50° 08' 47" W. 82° 08' 47" N Location: 1380.0' at 195° to claim post no. 1 Scale: 1.0" = 50.0' or 1:600



ROTARY DRILL HOLE RECORD

Drilling Started: Feb. 20, 1989 Logged By: A. Casselman Drilling Started: Feb. 20, 1989 Logged By: A. Casselma Drilling Finished: Feb. 21, 1989 Logged: Mar. 27, 1989 Drilling Co.: Midwest Core Size: 3.5" Dip: -90° Core Storage: Hole Length: 210.0' Mineral Research Canada Overburden Depth: 72.0' R. R. # 2 Claim No.: P 825805 Parry Sound ON P2A 2W8 Easting: 5705 E Elevation: 332.0' Hole No.: 89-55

Northing: 295 S Azimuth: 50° 08' 40" N, 82° 08' 35" W

Location: 2000.0' at 195° to Claim Post No. 1

Property: Kipling

SUMMARY From To Description RECEIVED 0.0' 10.0' Peat 10.0' 50.0' Glacial Clay Till MAY 2 6 1995 50.0' 53.0' Sand MINING LANGE LONG CH 53.0' 72.0' Glacial Clay Till - Overburden - Pleistocene 72.0' 91.0' Kaolin Silica Sand (Kss) Cretaceous 91.0' 98.0' Clay 98.0' 109.0' Kss SEARCH 109.0' 113.0' Clay 113.0' 115.0' Kss 115.0' 129.0' Clay 129.0' 170.0' Kss 170.0' 175.0' LOST CORE - field log indicates material as above. 175.0' 198.0' Kss 198.0' 202.0' Clay 202.0' 205.0' Kss 205.0' 210.0' Clay

Detail Log - 89-55

From	То	Sample No.	Description
0.0'	10.0'		Peat
10.0'	50.0'		Glacial Clay Till - dried, fissile, competent, dark brown, rare larger clasts up to 4.0", interbedded with 0.5" - 4.0" sand units from 31.0' - 50.0'.
50.0'	53.0'		Sand - grading to gravel.
53.0'	72.0'		Glacial Clay Till - as previous.
72.0'	73.0'	2960	Kss - medium grain, white, no surface contamination. 7.59% kaolin.
73.0'	77.0'	2961	Kss - medium grain, coarsening downward, clay impurity banding, clasts up to 0.25", 76.0' - 76.75' - clay band within interbedded kss, 76.5' - 77.0' - medium grain, white, 14.05% kaolin.
77.0'	80.0'	2962	Kss - medium grain, dark brown impurity banding. 6.94% kaolin.
80.0'	84.0'	2963	Kss - coarsening downsection, purple band at 82.0' - flat black shale fragments, non-angular. 7.82% kaolin.
84.0'	88.0'	2951	Kss - white, coarse grain, impurity grey banding. 9.54% kaolin.
88.0'	91.0'	2952	Kss - as above. 8.22% kaolin.
91.0'	96.0'	2953	Clay - grey grading to wine to buff with grey laminations, pliable, competent with rare 0.125" clasts. 69.44% kaolin.
96.0'	98.0'	2954	Clay - as above, buff to yellow/brown grading to grey, non-competent grading to sandy highly competent material. 39.11% kaolin.
98.0'	104.0'	2955	Kss - medium grey, clay impurity banding, minor heavies. 9.72% kaolin.
104.0'	107.0'	2964	Kss - coarse grain, purple band at 106.0', remainder white. 15.82% kaolin.

107.0'	109.0'	2965	Kss - coarse grain, as above. 9.95% kaolin.
109.0'	110.0'	2966	Clay - brown, pliable to yellow brown to medium brown, competent, greasy with fine grain sand seams of 1.0", possible lignite - very small flecks. 68.38% kaolin.
110.0'	113.0'	2956	Clay - dark brown, greasy, disc-like, highly competent. 73.16% kaolin.
113.0'	115.0'	2957	Kss - dark brown, coarse grain, totally contaminated. 21.01% kaolin.
115.0'	119.0'	2958	Clay - red and grey laminations, grey material contains fine grain silica, highly competent. 50.30% kaolin.
119.0'	122.0'	2959	Clay - as above, 120.0' - 122.0' - totally red clay - more pliable than above. 47.54% kaolin.
122.0'	125.0'	2967	Clay - red, some sections mottled with grey semi-pliable, high illite content, 50.63% kaolin.
125.0'	129.0'	2968	Clay - becoming sandy - red & grey mottled some portions pure red, others pure grey, minor illite, 27.47% kaolin.
129.0'	132.0'	2969	Kss - fine grain, grey, some red, minor illite and heavies, 20.38% kaolin.
132.0'	136.0'	2970	Kss - as above, 11.01% kaolin.
136.0'	141.0'	2971	Kss - white, medium grain, coarsening downsection to coarse, minor illite and heavies, 10.96% kaolin.
141.0'	146.0'	2972	Kss - coarse grain, light brown, rounded yellow chert, smoky quartz - minor illite, 13.59% kaolin.
146.0'	151.0'	2973	Kss - as above, 14.56% kaolin.
151.0'	156.0'	2974	Kss - white, medium grain, dried, yellow chert, 7.01% kaolin.
156.0'	160.0'	2975	Kss - medium grain, white, with rare yellow chert and smoky quartz clasts, angular and sub-rounded, clay clots, pliable - light grey, 12.23% kaolin.
160.0'	165.0'	2976	Kss - as above, high percentage black clasts, 13.54% kaolin.

165.0'	170.0'	2977	Kss - as above, 12.30% kaolin.
170.0'	175.0'		LOST CORE - field log indicates material as above.
175.0'	179.0'	2978	Kss - as above, higher clay content, as well as angular chert, 25.09% kaolin.
179.0'	185.0'	2979	Kss - as above, clots of fine grain white material, large angular (2.0") sandstone clasts, white with garnets of various sizes and tourmalines or spinel, also green chert with small red areas and orange interbedded within the sandstone three pieces, 8.86% kaolin.
185.0'	191.0'	2980	Kss - as above, without sandstone clasts. 11.92% kaolin.
191.0'	195.0'	2981	Kss - as above, with very irregular 2.5" sandstone clasts - dark grey weathered surface - very fossiliferous - crinoid-rich, kss coarsens downsection to an average clast size of 0.5 - 1.5" - dark grey and brown, 10.05% kaolin.
195.0'	198.0'	2982	Kss - as above, dried, coarse grain, 10.38% kaolin.
198.0'	200.0'	2983	Clay - black, competent, greasy, fissile, minor lignite with well rounded yellow chert, interbedded with 4.0" of coarse grain black kss, 36.48% kaolin.
200.0'	202.0'	2984	Clay - medium brown, grading to black - some sandy sections within the black portion, the brown section is dried, 62.40% kaolin.
202.0'	203.0'	2985	Kss - grading from grey to yellow, fine grain, with convolute darker grey laminations at the upper contact, 14.41% kaolin.
203.0'	205.0'	2986	Kss - as above, interbedded with black clay as described at 200.0' - 202.0' - from 0.25" - 4.0" units, 62.61% kaolin.
205.0'	210.0'	2987	Clay - chocolate brown, greasy, dried, fissile, disc-like, with minor lignite, 70.51% kaolin.

EOH - 210.0'

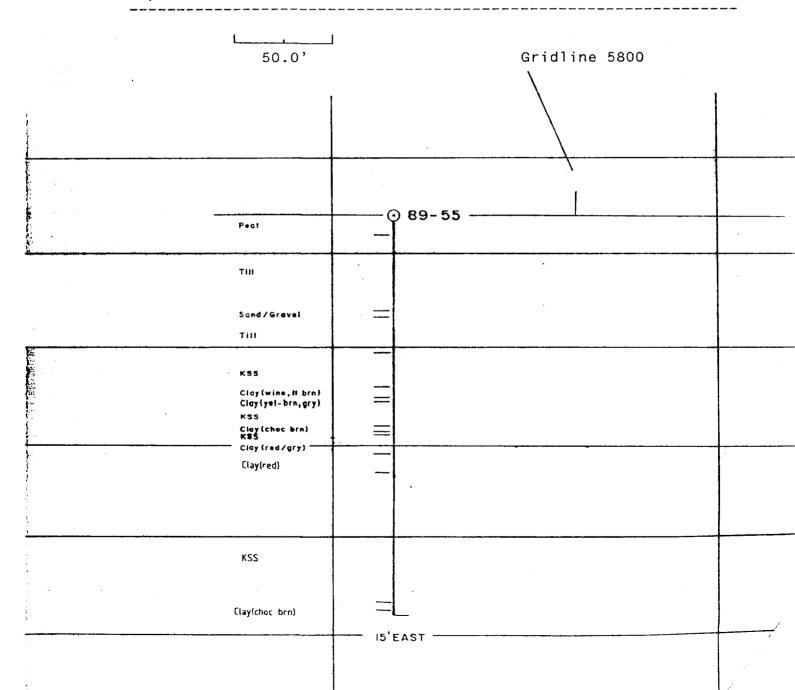
Claim No.: 89-55 Hole Length: 210.0' Overburden Depth: 72.0'

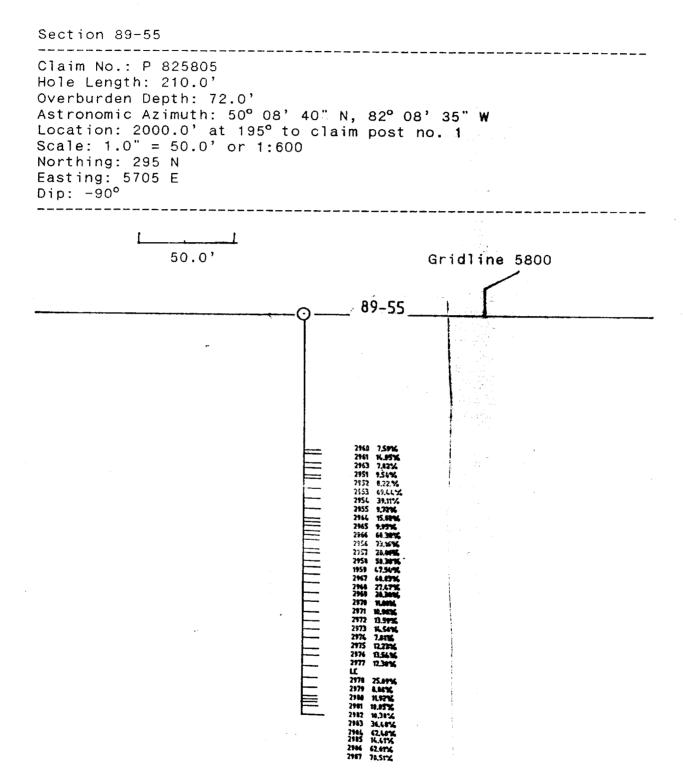
Astronomic Azimuth: 50° 08' 40" W. 82° 08' 35" W

Location: 2000.0' at 1950 to claim post no. 1

Scale: 1.0" = 50.0' or 1:600

Northing: 295 N Easting: 5705 E Dip: -90°





ROTARY DRILL HOLE RECORD

Drilling Started: Feb. 28, 1989 Logged By: A. Casselman Drilling Finished: Feb. 28, 1989 Logged: April 25, 1989 Core Size: 3.5" Drilling Co.: Midwest Dip: -90° Core Storage: Hole Length: 251.0' Mineral Research Canada Overburden Depth: 47.0' R. R. # 2 Claim No.: P 825797 Parry Sound, ON Easting: 5205 E P2A 2W8 Northing: BL 00 Elevation: 320.0' Azimuth: 50° 08' 50" N, 82° 09' 04" W Location: 400.0' at 260° To Claim Post No. 1 Property: Kipling Hole No.: 89-64

SUMMARY	•			PROPERTY OF THE PROPERTY OF TH
From	То	Description		RECEIVED
0.0' 5.0' 7.0' 10.0'	5.0' 7.0' 10.0' 47.0'	Peat Fluvial Sediments Sand Glacial Clay Till	- Overbui	MAY 2 6 1995 Mining Preference
47.0' 69.5' 70.0' 70.5' 72.0' 75.5' 81.0' 86.0' 89.0' 92.0'	69.5' 70.0' 70.5' 72.0' 75.5' 81.0' 86.0' 89.0' 92.0' 96.0'	Kaolin Silica Sand Clay Kss Sandy Clay Kss Sandy Clay Kss Kss & Clay Sandy Clay		Cretaceous 2.16012
96.0' 100.5' 115.0' 116.0' 116.5' 117.5' 121.0' 126.0' 149.0' 150.0'	100.5' 115.0' 116.0' 116.5' 117.5' 121.0' 126.0' 149.0' 150.0' 197.0' 199.0'	Sandy Clay Kss Clay Kss Clay Kss Sandy Clay Kss Sandy Clay Kss Clay		VAINE BOAR FOR SAFECIA AREY SO MAYORIO CA SUA PRA 2VO (705) BIG-5123 AAB M5/378-2416

EOH - 251.0'

199.0'

200.0'

202.0'

203.0' 218.0'

218.0' 251.0'

200.0'

202.0'

203.0'

Kss

Kss

Kss

Clay

Sandy Clay

Detail Log - 89-64

From	To Sample No.	Description
0.0'	5.0'	Peat
5.0'	7.0'	Fluvial Sediments - green/grey, darker laminations, pliable clay.
7.0'	10.0'	Sand - coarsening downsection to gravel, low percentage green clay.
10.0'	47.0'	Glacial Clay Till - dark brown competent, rare 2.0" gneissic & carbonate clasts, some sections dried fissile and segmented.
47.0'	50.0' 13651	Kss - coarse, white, 1.0", pliable, light grey clay clots, minor illite and heavies. 11.29% kaolin.
50.0'	54.0' 13652	Kss - as above. 6.53%
54.0'	58.0' 13653	Kss - as above, coarsening downsection, 54.0' - 56.5' - purple, 56.5' - 58.0' - white, medium grain, minor illite and heavies, yellow at 54.0'. 7.01% kaolin.
58.0'	63.0' 13654	Kss - as above, medium grain, white, minor illite and heavies. 6.30% kaolin.
63.0'	68.0' 13655	Kss - as above, high moisture rententions from 63.0' - 67.0', 67.0' - 68.0' - slightly coarser, normal moisture content. 7.85% kaolin.
68.0'	69.5' 13656	Kss - as above. 7.77% kaolin.
69.5'	70.0' 13657	Clay - medium brown, pliable, minor illite and silica. 56.33% kaolin.
70.0'	70.5' 13658	Kss - medium grain, white, minor illite and heavies. 8.61% kaolin.
70.5'	72.0' 13659	Sandy Clay - buff, pliable, fine grain, minor illite and heavies. 22.51% kaolin.
72.0'	75.5' 13660	Kss - medium grain, brown, 1.0" sandy clay seam (as above) at 72.25', polydrill contamination. 8.18% kaolin.
75.5'	78.0' 13661	Sandy Clay - as previous, with dark brown pliable clay clots. 40.61% kaolin.
78.0'	81.0' 13662	Sandy Clay - as above, no clay clots.

17.92% kaolin.

81.0'	84.0'	13663	Kss - fine grain, white, minor illite and heavies. 9.75% kaolin.
84.0'	86.0'	13664	Kss - coarse grain, high clay content grey - grading into clay with coarse silica interbedded, clay - dark brown, pliable. 17.97% kaolin.
86.0'	89.0'	13665	Kss & Clay - alternating units, medium grain, white kss with minor illite and heavies, clay - dark brown pliable. 28.23% kaolin.
89.0'	92.0'	13666	Sandy Clay - buff grading to light grey, minor illite and heavies, purple clots. 29.27% kaolin.
92.0'	96.0'	13667	Clay - competent, buff & yellow, red & green mottled areas, some light grey laminations, carbonaceous seams. 72.61% kaolin.
96.0'	100.5'	13668	Sandy Clay - buff, fine grain, as previous. 53.72% kaolin.
100.5	106.0	13669	Kss - medium grain, light grey with frequent purple, minor illite and heavies. 9.97% kaolin.
106.0'	111.0'	13670	Kss - as above. 9.39% kaolin.
111.0'	115.0'	13671	Kss - as above. 7.39% kaolin.
115.0'	116.0'	13672	Clay - buff grading to dark brown, pliable, competent, minor illite. 68.13% kaolin.
116.0'	116.5'	13673	Kss - white, medium grain. 8.25% kaolin.
116.5'	117.75	'13674	Clay - buff, sandy grading to medium brown to dark brown to black at lower contact, silica clasts imbedded in clay. 61.97% kaolin.
117.75	'118.0'	13675	Kss - medium grain, white. 9.77% kaolin.
118.0'	121.0'	13676	Kss - as above. 34.08% kaolin.
121.0'	126.0'	13677	Sandy Clay - near kss at lower contact, lessening clay downsection, light grey, 23.95% kaolin.
126.0'	131.0'	13678	Kss - white, some areas of grey - low clay

	content, high percentage heavies, yellow chert and smoky quartz, 8.33% kaolin.
131.0' 136.0' 13679	Kss - as above, no grey, 7.85% kaolin.
136.0' 141.0' 13680	Kss - coarse grain in a clay matrix, white to light grey, yellow chert and smoky quartz, dried, minor illite, 10.89% kaolin.
141.0'149.0'13681	Kss - as above, alternating medium and coarse grain sections, coarse portion has a high clay content, medium grain lower, 13.47% kaolin.
149.0' 150.0' 13682	Sandy Clay - light grey, silica rich and poor sections, minor illite and heavies, 48.81% kaolin.
150.0' 156.0' 13683	Kss - white, medium grain, clay-poor sections, interbedded with sections that are clay-rich coarse grain, yellow chert and smoky quartz in a white clay matrix, minor illite and heavies, 12.18% kaolin.
156.0' 161.0' 13684	Kss - as above, dried, 13.72% kaolin.
161.0'166.0'13685	Kss - as above, rounded grey sandstone clasts 0.5", 10.94% kaolin.
166.0' 171.0' 13686	Kss - white, very low clay content, minor illite and heavies, rare quartz clasts, 5.47% kaolin.
171.0' 176.0' 13687	Kss - as above, slightly higher clay content with jasper, some areas of apparent disseminated garnet, orange/red in colour, 5.95% kaolin.
176.0' 181.0' 13688	Kss - as previous, coarse clay-rich and medium grain clay-poor interbedded - high heavies content, 9.82% kaolin.
181.0' 186.0' 13689	Kss - as above, 185.5' - 186.0' - sandy clay with some purple in buff, 11.34% kaolin.
186.0'191.0'13690	Kss - medium grain fining downsection to coarse, white, minor illite, high heavies content, high percentage yellow chert and smoky quartz - banding of heavies, 10.84% kaolin.
191.0' 197.0' 13691	Kss - as above, medium and coarse grain, 2.0" siliceous dolostone clast - light grey

	fossiliferous - darker fresh surface, Devonian, containing metallics & possiblely chlorite, 16.30% kaolin.
197.0' 199.0' 13692	Clay - chocolate brown, with lighter laminations, upper contact 3.0" of tiger striped sandy clay with fossil wood fragments (orangy & black alternating laminations), 57.87% kaolin.
199.0' 200.0' 13693	Kss - medium grain, white, some darker laminations, 5.72% kaolin.
200.0' 202.0' 13694	Clay - as previous, 68.10% kaolin.
202.0' 203.0' 13695	Kss - as previous, medium brown with some laminations of black carbonaceous material, 13.62% kaolin.
203.0' 218.0' 13696	Sandy Clay - chocolate brown, minor carbonaceous seams & clay seams - high illite content, much mould contamination, 55.59% kaolin.
218.0' 226.0' 13697	Kss - black, low clay content grading to white high clay content - much contamination due to above black clay, drilling debris & the addition of moisture, 9.27% kaolin.
226.0'236.0'13698	Kss - as above, dried, sandstone fragments, 0.5", irregular dark and light grey laminations, 5 Devonian clasts, 11.77% kaolin.
236.0' 246.0' 13699	Kss - as above, much red contamination on outside of core, 10.81% kaolin.
246.0' 251.0' 13700	Kss - medium grain, light red, minor illite and heavies, 5.90% kaolin.

Claim No.: P 825797 Hole Length: 251.0'

Overburden Depth: 47.0'

Astronomic Azimuth: 50° 08' 50" W. 82° 09' 04" N Location: 400.0' at 260° to claim post no. 1 Scale: 1.0" = 50.0' or 1:600

Northing: BL 00 Easting: 5205 E Dip: -90°

50.0' Gridline 5300 O 89-64 Peat Lac Clay Sand/Gravel TIII KSS Sendy Clay/KSS KSS Clay(brn)/KSS Sandy Clay KSS Sandy Clay KSS Clay(choc brn) _ KSS/Clay(brn) Sandy Clay ____ KSS

Section 89-64 Claim No.: P 825797 Hole Length: 251.0' Overburden Depth: 47.0' Astronomic Azimuth: 50° 08' 50" N, 82° 09' 04" W Location: 400.0' at 260° to claim post no. 1 Scale: 1.0" = 50.0' or 1:600 Northing: BL 00 Easting: 5205 E Dip: -90° 50.0 Gridline 5300 89-64 9451 11.29% 19452 6.53% 19453 7.87% 19454 6.30% 19454 7.77% 19457 56.33% 19458 8.47% 19459 22.51% 19441 6.47% 19442 17.22% 19442 17.22% 19444 17.22% 19444 17.22% 19444 17.22% 19444 17.22% 19445 28.237% 13667 72.ET% 13668 53.77% 1849 2.37% 1849 2.39% 1847 4.137% 1847 4.137% 1847 4.137% 1847 2.25% 1847 2.25% 1847 3.48% 1847 2.25% 1848 1.25% 1848 1.27% 1848 1.27% 1848 1.27% 1848 1.27% 1848 1.27% 1848 1.27% 1848 1.27% 1848 1.27% 1848 1.27% 1848 1.27% 1848 1.27% 1848 1.27% 1848 1.27% 1848 1.27% 1848 1.27% 1848 1.27% 1848 1.27% 1848 1.27% 1848 1.27% 1848 1.27% 1848 1.27% 1848 1.27% 1848 1.27% 1848 1.27% 1848 1.27% 1848 1.27% 1848 1.27% 1848 1.27% 1848 1.27% 1848 1.27% 1848 1.27% 1848 1.27% 1848 1.27% 1848 1.27% 1848 1.27% 1848 1.27% 1848 1.27% 13690 10.84% 13691 16.38% 13692 57.87% 13693 57.27% 13694 68.18% 13696 55.59% 13697 9.27% 13698 11.77% 13698 11.77% 13798 5.88%

0000080

ROTARY DRILL HOLE RECORD

Drilling Drilling Dip: -90 Hole Ler Overburg Claim No Easting: Northing Azimuth:	Finish Co.: M Igth: 21 Ien Dept Co.: P 82 5298 E G: 010 N 50° 08	ed: February 28 idwest 6.0' h: 46.0' 5798 ' 51" W. 82° 08 0' at 169° To C	, 1991 3' 59" N.	Logged By: A. Casselman Logged: May 6, 1991 Core: 3.5" Core Storage: Mineral Research Canada R. R. # 2 Parry Sound, ON P2A 2W8 Elevation: 322.0' No. 1 Hole No.: 89-66
SUMMARY				
From	То	Description		
0.0'	11.0'			
11.0'	15.0'	Sand		
15.0'	46.0'	Glacial Till	Pleist	ocene - Overburden
46.0'	77.0'	Kaolin Silica	Sand (Kss	c) Cretaceous
77.0'	78.0'	Clay		
78.0'	78.75'	Kss		
78.75'	80.25'	Clay		
80.25'	82.0'	Kss	MIN	WRAL RESEARCH
82.0'	83.0'	Clay	IT A	MADA AND AND AND AND AND AND AND AND AND
83.0'	84.5'	Kss	EAX (705)	ACCADA JELA ZW8 / 378-5127 BUS (705) 378-2416
84.5'	90.0'	Clay	DATE	3,934,
90.0'	92.0'	Sandy Clay		
92.0'	208.5'	Kss		
208.5'	211.5'	Clay		
211.5'	212.0'	Kss		
212.0'	216.0'	Clay		

Detail	Log 89-6	6	
From	To Sam	ple Number	Description
0.0'	11.0'	 	Peat
11.0'	15.0'		Sand - medium grain, green/grey.
15.0'	46.0'		Glacial Clay Till - green/grey, clay- rich pebbly till, pliable sections, interlayered with competent sections, up to 15.0% clasts, average 1.0", 10.0% crystalline clasts (Precambrian).
46.0'	51.0'	12401	Kss - 46.0' - 46.5' - coarse grain, light grey, 1.0" light grey clay at 49.5', 49.5' - 51.0' - kss - fine grain, white. 8.28% kaolin.
51.0'	55.0'	12402	Kss - fine grain, white, rare coarse clast, 9.65% kaolin.
55.0'	60.0'	12403	Kss - from 55.0' - 56.75' - medium grain, white rare yellow/brown clay clots, 56.75' - 60.0' - kss, fine grain, white, light brown clay clots. 15.85% kaolin.
60.0'	61.5'	12404	Kss - as above, fewer clay clots. 9.72% kaolin.
61.5'	64.0'	12405	Kss - fine grain, yellow, frequent 1.0" layers of light brown clay as well as clots. 19.67% kaolin.
64.0'	68.0'	12406	Kss - fine grain, white, from 64.0' - 66.5', 66.5' - 68.0' - medium grain, white, yellow discolouration at lower poly-sleeve contact. 11.65% kaolin.
68.0'	72.0'	12407	Kss - medium grain, white, 5.0% coarse silica, weak to moderate yellow discolouration. 7.06% kaolin.
72.0'	76.0'	12408	Kss - 72.0' - 73.0' - fine grain, white, 5.0% coarse grain silica, 73.0' - 76.0' - medium grain, white with weak yellow colour. 8.53% kaolin.
76.0'	77.0'	12409	Kss - medium grain, light grey, occasional 1.0" clay layers, light green/yellow. 38.86% kaolin.

77.0'	78.0'	12410	Clay - pliable, to weakly friable, light yellow/brown. 83.80% kaolin.
78.0'	78.75'	12411	Kss - medium grain, yellow brown. 12.84% kaolin.
78.75'	80.25'	12412	Clay - as previous. 81.67% kaolin.
80.25'	82.0'	12413	Kss - as previous, with rare clay clots. 11.95% kaolin.
82.0'	83.0'	12414	Clay - as previous. 70.76% kaolin.
83.0'	84.5'	12415	Kss - as previous, 16.41% kaolin.
84.5'	87.0'	12416	Clay - pliable, to friable, light yellow/green/grey. 61.65% kaolin.
87.0'	90.0'	12417	Clay - pliable to weakly friable, light grey. 53.14% kaolin.
90.0'	92.0'	12418	Sandy Clay - light grey, with thin grey, 1.0" bands. 15.09%.
92.0'	96.0'	12419	Kss - medium grain, white, 94.25' - 94.5', yellow discolouration. 8.61% kaolin.
96.0'	101.0'	12420	Kss - medium grain, white, light grey clay bands. 10.20% kaolin.
101.0'	106.0'	12421	Kss - medium grain, white to grey. 11.59% kaolin.
106.0'	110.0'	12422	Kss - medium grain, 5.0% coarse clasts, white with 1.0 - 2.0" grey clay laminations. 9.04% kaolin.
110.0'	114.0'	12423	Kss - as above, moisture saturated. 11.34% kaolin.
114.0'	118.0'	12424	Kss - as above. 8.30% kaolin.
118.0'	122.0'	12425	Kss - as above, much less liquid, rare light grey clay clots. 7.59% kaolin.
122.0'	126.0'		medium grain, coarsening downsection, slightly darker downsection, minor heavies lite.

126.0' 130.0' Kss - medium grain, white, minor heavies and illite.

- 130.0' 134.0' Kss coarse grain, in a medium grain matrix, light brown at upper poly-sleeve contact grading to white, minor illite. dried.
- 134.0 138.0' Kss coarse grain, in a medium grain matrix, some reddish areas light brown areas, minor yellow chert.
- 138.0' 142.0' Kss medium grain, and coarse alternating, then coarse grain, very high clay content, red/brown, medium and coarse are light grey, vari-coloured silica, drill gouging.
- 142.0' 146.0' Kss coarse grain, grading to clay-rich fine grain, drill gouging, medium grey, some yellow brown sections, high percentage heavies and illite.
- 146.0' 150.0' Kss with clay clots, medium grain, grading to coarse clasts in a clay matrix, light grey to medium grey, sub-angular to sub-rounded silica clasts.
- 150.0' 154.0' Kss coarse grain, in a medium grain matrix, medium brown, minor heavies and illite, yellow chert present.
- 154.0' 158.0' Kss coarse grain, in a medium grain, matrix, white, minor heavies and illite.
- 158.0' 162.5' Kss coarse grain, in a medium grain matrix, grading to extremely coarse grain, in a white clay matrix, minor illite and heavies, varicoloured silica, one green area of clay.
- 162.5' 166.0' Kss medium grain, white, minor heavies and illite.
- 166.0' 170.0' Kss medium, grain, with numerous sub-rounded coarse clasts, light brown, (2) silicious dolostone clasts pitted, dark grey exterior surface, light grey in interior surface, fossiliferous criniodal, Devonian.
- 170.0' 174.0' Kss medium grain, with coarse clasts and high clay content, light brown, grading to medium grain, buff, low clay content, minor illite.
- 174.0' 178.0' Kss as above.
- 178.0' 182.0' Kss low clay content, medium grain, white, minor heavies & illite.
- 182.0' 186.0' Kss medium grain, white, relatively low clay

content, minor heavies and illite.

186.0'	190.0'	Kss - medium grain, white, minor heavies and illite.
190.0'	196.0'	Kss - low clay content, light brown, minor heavies & illite, large flakes.
196.0'	201.0'	Kss - medium grain, white, as above, high moisture content, low clay content.
201.0'	206.0'	Kss - medium grain, as above, grading to coarse grain matrix supported, medium brown, at coarse buff becoming lighter, minor heavies and illite.
206.0'	208.5'	Kss - coarse grain, grading downsection to medium grain, white, minor heavies and illite.
208.5'	211.5'	Clay - competent, disc-like, greasy, medium brown, darkening downsection to chocolate, carbonaceous.
211.5'	212.0	Kss - medium grain, medium brown, minor illite.
212.0'	216.0'	Clay - competent, disc-like, chocolate brown,

EOH - 216.0'

carbonaceous.

Claim No.: 825798 Hole Length: 216.0' Overburden Depth: 46.0'

Astronomic Azimuth: 50° 08' 51" W. 82° 08' 59" N

Location: 1680.0' at 169° to claim post no. 1

Scale: 1.0" = 50.0' or 1:600 Dip Collar: -90°

Dip Collar: -90° Northing: 010 N Easting: 5298 E

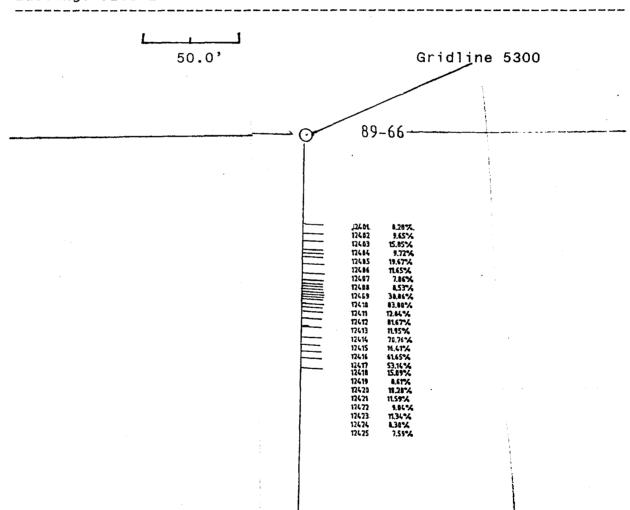
Gridline 5300 Ö 89-66 — Till KSS Clay(yel-brn)/KSS Clay(yel,grn,gry) = Clay(it gry) = Sandy Clay KSS Claylchoc brn) 30' NORTH

Claim No.: 825798 Hole Length: 216.0'

Overburden Depth: 46.0'

Astronomic Azimuth: 50° 08' 51" W. 82° 08' 59" N Location: 1680.0' at 169^0 to claim post no. 1 Scale: 1.0" = 50.0' or 1:600

Dip Collar: -90° Northing: 010 N Easting: 5298 E



ROTARY DRILL HOLE RECORD

Drilli Drilli Dip: - Hole L Overbu Claim Eastin Northi Azimut Locati	ng Finis ng Co.: 90° ength: 1 rden Dep No.: P 8 g: 5195 ng: 097 h: 50° 08	46.0' th: 56.5' 25797 E S 8' 47" W. 82° O' at 232° To	1989	No. 1	a
SUMMAR				2.16012	
From	То	Description			·
0.0'	4.0'	Peat			
4.0'	5.0'	Fluvial Sedi	ments	RECEIVED	
5.0'	11.0'	Sand		MAY 2 6 1995	
11.0'	15.0'	Grave1			
15.0'	56.5'	Glacial Clay	Till - 0v	MINING LANGE ENGINEEN erburden - Pleistocene	
56.5'	87.0'		_~	s) Cretaceous	
87.0'	91.0'	Kss & Clay			
91.0'	116.0'	Kss	r		
116.0'	121.0'	Kss & Clay	M	INERAL RESEARCH	
121.0'	121.5'	Clay		CANADA HVDUSTICIAL BLYDYRIZ PAIRTY SQUAD DISTARIO	
121.5'	136.0'	Kss	FAX (70	Crown P2A 2W8 15) 378-5123 MBUS (705) 178-2416	
136.0'	146.0'	Clay	DATE	/11(

Detail Log - 89-67

From	To Sample No	. Description
0.0'	4.0'	Peat
4.0'	5.0'	Fluvial Sediments - green/grey clay, very fine grain, pliable.
5.0'	11.0'	Sand - fine grain, green/grey.
11.0'	15.0'	Gravel - clasts up to 5.0".
15.0'	56.5'	Glacial Clay Till - green/grey, pliable sections interbedded with competent sections, 15.0% clasts from 1.0 - 3.0".
56.5'	62.0' 14201	Kss - 56.5' - 57.5' - well sorted, medium grain, grey, 57.5' - 62.0' - well sorted, medium grain, white. 7.19% kaolin.
62.0'	67.0' 14202	Kss - 62.0' - 65.5' - as above, 65.5' - 67.0' - poorly sorted, coarse grain. 9.65% kaolin.
67.0'	72.0' 14203	Kss - as above, rare 1.0" light grey clay clots. 8.41% kaolin.
72.0'	77.0' 14204	Kss - well sorted, medium grain, white. 9.11% kaolin.
77.0'	82.0' 14205	Kss - 77.0' - 80.0' - as above, 80.0' - 81.0' - well sorted, fine grain. 7.59% kaolin.
82.0'	87.0' 14206	Kss - well sorted, fine grain, white. 6.43% kaolin.
87.0'	91.0' 14207	Kss & Clay - interbedded, kss - well sorted, fine grain, white, becoming brown downsection, clay - pliable, brown laminations concentrated from 89.0' - 91.0'. 10.53% kaolin.
91.0'	96.0' 14208	Kss - well sorted, fine to medium grain, white. 26.13% kaolin.
96.0'	101.0' 14209	Kss - well sorted, medium grain, white to light grey, rare dark yellow 1.0" clay impurity banding. 6.61% kaolin.
101.0'	106.0' 14210	Kss - as above, 9.13% kaolin.
106.0'	111.0' 14211	Kss - as above. 6.99% kaolin.

111.0'	116.0'	14212	Kss - as above, 111.5' - 112.5' - intensely orange. 8.30% kaolin.
116.0'	121.0'	14213	Kss & Clay - interbedded, kss - well sorted, medium grain, light brown, clay - pliable to weakly friable, light brown to medium brown banding - layers 0.5" - 1.0". 7.49% kaolin.
121.0'	121.5'		Clay - pliable, medium brown, with lighter laminations.
121.5'	126.0'	14214	Kss - medium grain, medium brown, with lighter laminations, rounded smoky quartz, minor illite. 11.42% kaolin.
126.0'	131.0'	14215	Kss - as above, light grey - minor illite and heavies, moist, rare larger smoky quartz.
131.0'	136.0'	14216	Kss - as above.
136.0'	141.0'	14217	Clay - chocolate brown grading to black greasy with carbonaceous seams, highly competent. 72.61% kaolin.
141.0'	146.0'	14218	Clay - greasy, medium brown, and lighter brown sandy clay interbedded sections with illite and carbonaceous material.

EOH - 146.0'

Claim No.: P 825797 Hole Length: 146.0'

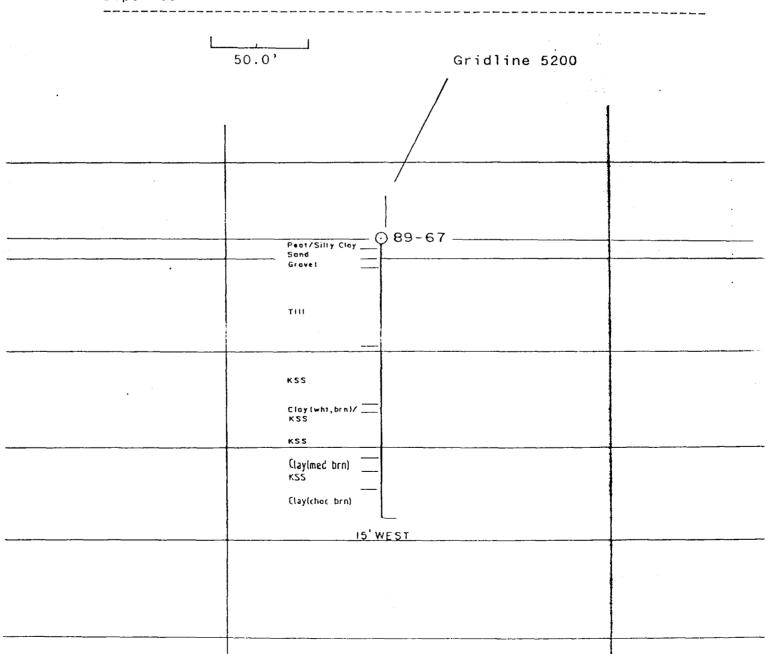
Overburden Depth: 56.5'

Astronomic Azimuth: 50° 08' 47" W. 82° 09' 06" N

Location: 590.0' at 232° to claim post no. 1

Scale: 1.0" = 50.0' or 1:600

Northing: 097 S Easting: 5195 E Dip: -90°

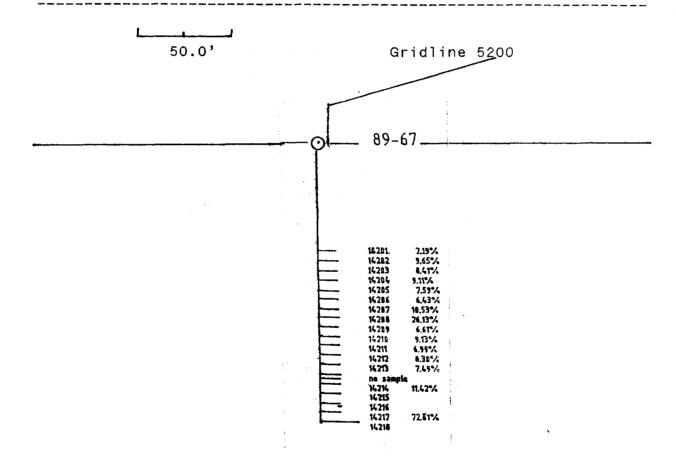


Claim No.: P 825797 Hole Length: 146.0'

Overburden Depth: 56.5'

Astronomic Azimuth: 50° 08' 47" W. 82° 09' 06" N Location: 590.0' at 232° to claim post no. 1 Scale: 1.0" = 50.0' or 1:600

Northing: 097 S Easting: 5195 E Dip: -90°



ROTARY DRILL HOLE RECORD

Drilling Drilling Dip: -90° Hole Leng Overburde Claim No. Easting: Northing:	Finished: Co.: Midw th: 256.0 n Depth: : P 82580 5305 E : 200 N 50° 08' 5)' 48.0'	Logged By: A. Casselman Logged: April 28, 1989 Core Size: 3.5" Core Storage: Mineral Research Canada R. # 2 Parry Sound, ON P2A 2W8 Hole No.: 89-69 3" W. Post No. 1 RECEIVED
SUMMARY			MAY 2 6 1995
From	То	Description	MINING-LANDS BRANCH
0.0' 6.0' 12.0' 19.0' 25.0' 45.0' 46.0'	6.0' 12.0' 19.0' 25.0' 45.0' 46.0' 48.0'	Peat Sand Fluvial Sediment Sand Glacial Clay Til Sand Glacial Clay Til	:s 2 2225
48.0' 60.5' 62.75'	60.5' 62.75' 74.5'	Kaolin Silica Sa Clay Kss	and (Kss) Cretaceous
74.5'	78.0'	Clay	
78.0'	86.0'	Sandy Clay	MINERAL RESEARCH
86.0'	153.75'	Kss	MINDUSTRIAL SEMPRO
153.75'	154.0'	Clay	FAX (705) 378-5123 PUS (705) 378-2416
154.0'	184.0'	Kss	DATE
184.0'	188.0'	Sandy Clay	
188.0'	209.0'	Kss	
209.0'	214.5'	Sandy Clay	
214.5'	216.0'	Kss	
216.0'	236.0'	Sandy Clay	
236.0'	256.0'	Kss	

Detail Log - 89-69

From	То	Sample No.	Description
0.0'	6.0'		Peat
6.0'	12.0'		Sand - medium grain, feldspar, quartz, amphibolite clasts.
12.0'	19.0'		Fluvial Sediments - medium brown clay, pliable, laminated.
19.0'	25.0'		Sand - as previous, rare larger clast up to 1.0".
25.0'	45.0'		Glacial Clay Till - competent, dark brown, rare clast up to 3.0", angular to sub-angular.
45.0'	46.0'		Sand - as previous.
46.0'	48.0'		Glacial Clay Till - as previous.
48.0'	53.0'	14101	Kss - medium grain, coarsening downsection, white, minor illite and heavies. 9.09% kaolin.
53.0'	58.0'	14102	Kss - coarse and medium grain alternating, yellow brown. 10.63% kaolin.
58.0'	60.5'	14103	Kss - coarse grain, white, light grey, 1.0" pliable clay clots. 16.30% kaolin.
60.5'	62.75'	14104	Clay - buff to yellow brown, pliable, 0.5" kss bands, purple within clay, grey discontinuous laminations. 54.84% kaolin.
62.75'	68.0'	14105	Kss - fine grain, white, minor illite and heavies. 7.42% kaolin.
68.0'	73.0'	14106	Kss - medium grain, minor illite and heavies, white.
73.0'	74.5'	14107	Kss - as above, gradationally higher clay content downsection at 74.0' - yellow brown clay with minor silica. 22.25% kaolin.
74.5'	78.0'	14108	Clay - yellow, competent, rare silica clasts up to 0.125" concentrated along certain horizons, becoming light grey sandy clay at 77.0' - 78.0' - pliable,

			minor illite and heavies, 76.0' - 78.0' - polydrill. 63.29% kaolin.
78.0'	82.0'	14109	Sandy Clay - competent, light grey, pliable, minor illite and heavies. 52.25% kaolin.
82.0'	85.0'	14110 8	Sandy Clay - competent, very pliable, light grey, some yellow brown laminations, minor illite and heavies, heavies as banding, high moisture retention. 30.43% kaolin.
85.0'	86.0'	14111	Sandy Clay - as above, less moisture retention. 24.35% kaolin.
86.0'	89.0'	14112	Kss - medium grain, white, minor illite and heavies. 13.37% kaolin.
89.0'	92.0'	14113	Kss - as above, heavies banding. 12.43% kaolin.
92.0'	95.0'	14114	Kss - as above, yellow chert, 1.0" clasts. 12.94% kaolin.
95.0'	98.0'	14115	Kss - as above. 10.86% kaolin.
98.0'	102.0'	14116	Kss - as above. 8.96% kaolin.
102.0'	105.0'	14117	Kss - as above. 9.29% kaolin.
105.0'	109.0'	14118	Kss - as above. 8.08% kaolin.
109.0'	112.0'	14119	Kss - as above, polydrill. 8.63% kaolin.
112.0'	116.0'	14120	Kss - as above, no polydrill. 17.47% kaolin.
116.0'	120.0'	14121	Kss - as above. 9.27% kaolin.
120.0'	124.0'	14122	Kss - white, coarse grain, prevalent yellow chert & larger smoky quartz clasts, sub- angular coarsening downsection, 11.80% kaolin.
124.0'	129.0'	14123	Kss - coarse grain, smoky quartz clasts sub-angular, few vari-coloured cherts in a white clay matrix, dried, powdery, high clay content, 15.95% kaolin.

129.0' 136.0' 14124 Kss - medium grain, white, minor illite and

136.0' 140.0'

heavies, dried, 8.51% kaolin.

14125 Kss - light to medium brown, vari-coloured cherts and smoky quartz, larger sub-

			angular, highly competent, higher clay content, 12.28% kaolin.
140.0'	146.0'	14126	Kss - medium grain, with rare larger sub- angular smoky quartz clasts, white to light brown, one area of rust coloured banding - competent white higher clay content downsection, sulphureous smell, 7.85% kaolin.
146.0'	148.0'	14127	Kss - 1.0" of grey sandy clay with larger sub-rounded clasts of smoky quartz, coarsening downsection to medium grain kss with minor rust banding at 147.75', minor illite, 13.39% kaolin.
148.0'	152.0'	14128	Kss - medium grain, light grey, minor illite and heavies, some grey convolute banding radiating out from a central brown area, 15.11% kaolin.
152.0'	156.0'	14129	Kss - nearly sandy clay, competent, light buff, high illite content, from 152.5' - 153.75' - medium grain, darkening downsection to dark purple grey, from 153.75' - 154.0' - clay - buff with numerous silica clasts - sub-angular smoky quartz, pliable from 154.0' - 156.0' - kss - larger 2.5" prolate silica clasts at upper contact, medium grain, white, minor illite and heavies with further frequent silica clasts at upper contact, medium grain, white, 14.10% kaolin.
156.0'	160.0'	14130	Kss - coarse grain with frequent larger sub-rounded to rounded smoky and milky quartz, yellow chert and black cherty clasts, 6.33% kaolin.
160.0'	164.0'	14131	Kss - as above, dried, 9.57% kaolin.
164.0'	168.0'	14132	Kss - white clay (powder) as a matrix to extremely larger clasts, average 1.0", subangular to well rounded, 2 unusual clasts, a siltstone, medium grey, sub-rounded, brachiopods, crinoids, silica clast - dark grey with lighter sections, entirely composed of truncated spherical structures, some folding, sub-angular, primarily prolate - grapestone like, 8.43% kaolin.

168.0'	172.0'	14133	Kss - sections of above material with irregular white clay clots, interbedded with medium grain kss - white, high illite in coarse grain portions, 7.62% kaolin.
172.0'	176.0'	14134	Kss - as above - 172.0' - 174.0', 174.0' - 176.0' - medium grain, with minor illite, white, high heavies, no larger clasts, 9.14% kaolin.
176.0'	180.0'	14135	Kss - 176.0' - 177.0' - clay-rich sections with high illite and convolute darker grey and brown laminations, minor illite, 7.90% kaolin.
180.0'	184.0'	14136	Kss - clay-matrix, minor amounts of medium grain silica, with larger rounded smoky quartz and black quartz clasts, as well as rounded yellow chert, extremely high percentage of heavies banding, giving purple/blue appearance (specular haematite) at 183.5' - 183.75' - sandy clay seam with darker laminations, 183.75' - 184.0' - medium grain kss - light grey, minor illite and heavies, 11.06% kaolin.
184.0'	188.0'	14137	Sandy Clay - medium brown with darker laminations, competent, 3.0" of clay - medium brown with darker laminations, slightly darker than sandy clay - pliable at 185.25', 37.27% kaolin.
188.0'	192.0'	14138	Kss - near sandy clay - at upper contact, convolute laminae of brown and the lower most laminae medium grey, coarsening downsection to medium grain from fine grain, white with minor illite and heavies, 8.28% kaolin.
192.0'	196.0'	14139	Kss - white, medium grain, minor illite and heavies, 7.06% kaolin.
196.0'	201.0'	14140	Kss - fine grain, coarsening downsection to medium grain, white darkening downsection, a central area of yellow then red with high heavies content, 5.34% kaolin.
201.0'	206.0'	14141	Kss - red, coarse grain, high heavies - 201.0' - 203.0', 203.0' - 206.0' - kss - fine grain, coarsening downsection to medium grain, white, minor illite and high heavies concentration at lower contact,

8.48% kaolin.

206.0'	209.0'	14142	Kss - light reddish darkening and coarsening downsection to medium grain, high heavies, 12.23% kaolin.
209.0'	214.5'	14143	Sandy Clay - medium brown with darker laminations as well as carbonaceous laminations, competent, near lower contact, chocolate brown interbeds of pliable clay, 34.0% kaolin.
214.5'	221.0	14144	Kss from 214.5' - 216.0'- rapidly grading to sandy clay - as above, with some carbonaceous laminations, from 216.0' - 221.0' - sandy clay - highly uniform, medium brown, minor illite, 21.85% kaolin.
221.0'	226.0'	14145	Sandy Clay - as previous, darker brown. 36.23% kaolin.
226.0'	231.0'	14146	Sandy Clay - as above, lower clay content, yellow crusting and sulphureous smell. 17.29% kaolin.
231.0'	236.0'	14147	Sandy Clay - as above, convolute darker laminations near organic laminations. 13.42% kaolin.
236.0'	244.0'	14148	Kss - fine grain, light brown with darker laminations, high percentage heavies, some banding of heavies, minor illite, from 241.0' - 244.0' - kss - as above, some medium brown banding, light grey, sulphureous smell, clear acicular crystals & yellow crusting. 5.37% kaolin.
244.0'	250.0'	14149	Kss - coarse grain, slightly reddish at sharp upper contact, darkening and coarsening downsection, lower 2.0" black organics from 245.0' - 246.0' - kss - fine grain, sharp upper contact, light brown, rare larger smoky quartz clasts, subrounded, sulphureous smell, yellow crust, clear acicular crystals on core surface. 7.95% kaolin.
250.0'	256.0'	14150	Kss - as above, darkening downsection to blue (darker - nearly purple), rare larger rounded smoky quartz clasts, sulphureous smell, yellow crust, clear acicular crystals. 4.03% kaolin.

ROTARY DRILL HOLE RECORD

Drilling Drilling Dip: -90 Hole Ler Overburd Claim No Easting: Northing Azimuth: Location	Finished Co.: Mid of the 250. den Depth: co.: P 8257 5290 E g: 205 S 50° 08'	Core Storage: Mineral Research Canada R. R. # 2 Parry Sound, ON P2A 2W8 Elevation: 342.0' N. at 193° To Claim Post No. 1
SUMMARY		Description
From 	To 	Description
	70.0'	
	112.0	
112.0'		Clay
113.25'	114.25'	Kss 2.16012
114.25'	115.25'	Clay
115.25'	116.0'	Kss
116.0'	118.0'	Sandy Clay
118.0'	138.75'	Kss MINTRAL PESEARCH
138.75'	139.5'	Clay PARCO CANADA PZA 2W8
139.5'	140.0'	KSS FAX (705) 37878/23 BUS (705) 378/2416 DATE
140.0'	143.0'	Sandy Clay
143.0'	146.0'	Clay
146.0'	150.25'	Sandy Clay
150.25'	172.5'	Clay
172.5'	249.25'	Kss
249.25'	250.0'	Sandy Clay

Detail Log 89-70

From	To S	ample No.	Description
0.0'	1.0'		Peat
1.0'	70.0'		Glacial Clay Till - green/grey, pliable sections interbedded with competent sections, up to 20.0% clasts from 0.5" - 3.0", gneissic.
70.0'	73.0'	13751	Kss - well sorted, fine grain, white frequent till clots. 14.58% kaolin.
73.0'	77.0'	13752	Kss - as above, 3.0" clay layer at 75.0'. 12.25% kaolin.
77.0'	81.0'	13753	Kss - well sorted, fine grain, white, yellow layers. 7.97% kaolin.
81.0'	85.0'	13754	Kss - as above, more intensely yellow. 7.39% kaolin.
85.0'	90.0'	13755	Kss - as above, less yellow. 8.56% kaolin.
90.0'	95.0'	13756	Kss - as above, 94.0' - 95.0', white. 5.24% kaolin.
95.0'	100.0'	13757	Kss - as above. 3.49% kaolin.
100.0'	105.0'	13758	Kss - as above, 102.5' - 105.0' - light grey, medium grain. 6.76% kaolin.
105.0'	109.0'	13759	Kss - as above, weak yellow colouration. 5.52% kaolin.
109.0'	112.0'	13760	Kss - as above, white. 6.30% kaolin.
112.0'	113.25'	13761	Clay - pliable, light yellow. 71.65% kaolin.
113.25'	114.25'	13762	Kss - well sorted, medium grain, light grey/yellow. 11.59% kaolin.
114.25'	115.25'	13763	Clay - as previous. 67.06% kaolin.
115.25'	116.0'	13762	Kss - as previous. 11.59% kaolin.
116.0'	118.0'	13764	Sandy Clay - competent, light grey clay and contacts. 37.42% kaolin.
118.0'	120.0'	13765	Kss - well sorted, medium grain, white to light brown, some yellow colouration,

minor	illite	and heavies.	9.75%	kaolin.
-------	--------	--------------	-------	---------

120.0'	122.0'	13766	Kss - medium grain, white, min	or illite and	
			heavies, 6.48% kaolin.		

- 122.0' 124.0' 13767 Kss as above, 8.05% kaolin.
- 124.0' 126.0' 13768 Kss as above, rare larger rounded smoky quartz clasts, 7.06% kaolin.
- 126.0' 130.0' 13769 Kss as above, 3.0", pliable clay clots, centre grey, buff rim, 9.59% kaolin.
- 130.0' 134.5' 13770 Kss as above, 6.86% kaolin.
- 134.5' 138.75' 13771 Kss medium grain, coarsening downsection, becoming increasingly clay-rich, 19.49% kaolin.
- 138.75' 139.5' 13772 Clay buff with darker brown and purple laminations, pliable, purple kss clot 0.5" medium grain, 70.89% kaolin.
- 139.5' 140.0' 13773 Kss medium grain, buff, darker laminations low clay content, 17.04% kaolin.
- 140.0' 143.0' 13774 Sandy Clay high silica content, buff with carbonaceous areas, grading into very fine grain chocolate brown with darker laminations, minor kss, medium grain chocolate brown clots at upper contact, minor illite, 49.44% kaolin.
- 143.0' 146.0' 13775 Clay chocolate brown, fissile, disc-like, toward lower contact frequent sandy interbeds, high illite content, highly mould contaminated, lignite fragments, 65.22% kaolin.
- 146.0' 150.25' 13776 Sandy Clay as previous, pliable, chocolate brown clay interbeds, 66.28% kaolin.
- 150.25' 156.0' 13777 Clay as previous, highly contaminated, 68.61% kaolin.
- 156.0' 161.0' 13778 Clay as previous less lignite, more friable, 64.20% kaolin.
- 161.0' 166.0' 13779 Clay as above, highly contaminated, crystal growth on outer surface, 59.95% kaolin.
- 166.0' 169.0' 13780 Clay as previous minor sandy interbeds, 60.58% kaolin.

169.0'	172.5'	13781	Clay - as above, 59.39% kaolin.
172.0'	180.0'	13782	Kss - upper contact very dark brown, medium grain, grading to light brown downsection, low clay content, high illite and mafics, 6.68% kaolin.
180.0'	183.0'	13783	Kss - medium grain, clay-poor, dark brown, 9.27% kaolin.
183.0'	188.0'	13784	Kss - medium grain, as above, 11.42% kaolin.
188.0'	193.0'	13785	Kss - medium grain, white to light grey, 2.0" grey clay clot, high heavies content, 10.28% kaolin.
193.0'	198.0'	13786	Kss - as above, rare larger clasts, yellow chert and smoky quartz clasts - rounded, 7.70% kaolin.
198.0'	202.0'	13787	Kss - as above, medium grain, white and light grey, high heavies content, minor illite, some coarse material, 9.59% kaolin.
202.0'	207.0'	13788	Kss - as above, medium grain, white to light grey, high heavies, rare light grey clay clots, 12.18% kaolin.
207.0'	211.0'	13789	Kss - white and grey, medium grain, some coarser material, minor illite, high heavies, 7.11% kaolin.
211.0'	217.0'	13790	Kss — as above, rare larger jasper, pink, green and yellow chert, 7.27% kaolin.
217.0'	218.0'	13791	Kss - fine grain, white, minor illite and heavies, 6.25% kaolin.
218.0'	221.0'	13792	Kss - coarse and medium grain interbedded, highly yellow brown contaminated, 7.57% kaolin.
221.0'	225.0'	13793	Kss - as above, 7.39% kaolin.
225.0'	229.0'	13794	Kss - medium grain, high mafic content, low clay content, white, rare larger clasts, 4.18% kaolin.
229.0'	233.0'	13795	Kss - as above, much drilling debris, rust staining, ear muff in box, 3.34% kaolin.
233.0'	237.0'	13796	Kss - as above, less debris, 4.00% kaolin.

237.0' 242.0' 13797 Kss - as above, 2.66% kaolin.

242.0' 246.0' 13798 Kss - as above, 2.89% kaolin.

246.0' 249.25' 13799 Kss - as above, with minor sandy clay seam - medium brown, competent, high illite content at 248.0', 12.23% kaolin.

249.25' 250.0' Sandy Clay - as above.

EOH - 250.0'

Section 89-70

Claim No.: P 825797 Hole Length: 250.0'

Overburden Depth: 70.0'

Astronomic Azimuth: 50° 08' 44" W. 82° 09' 00" N

Location: 740.0' at 193° to claim post no. 1 Scale: 1.0" = 50.0' or 1:600

Northing: 205 S Easting: 5290 E Dip: -90°

50.0' Gridline 5300

89-70

Section 89-70

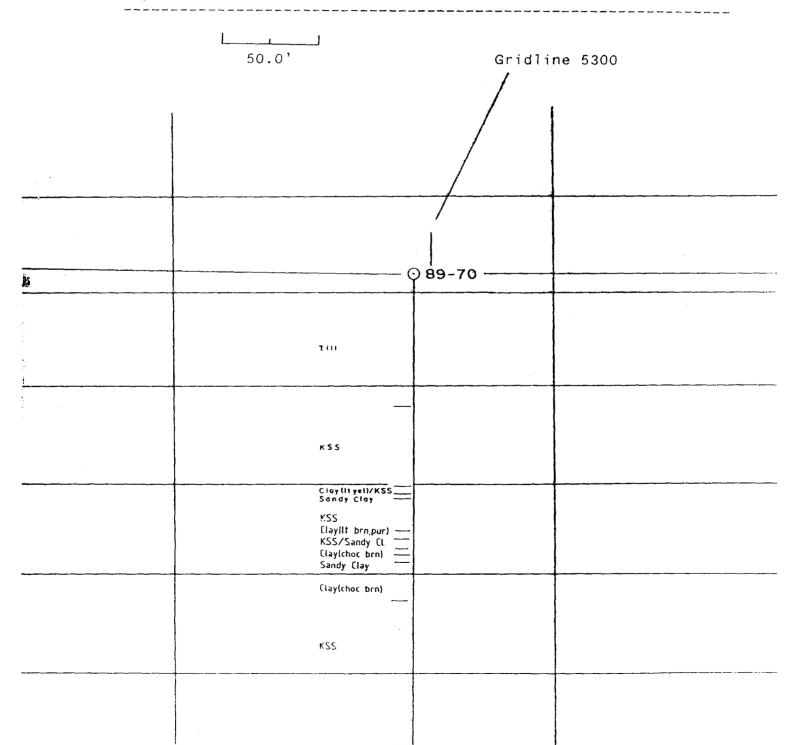
Claim No.: P 825797 Hole Length: 250.0' Overburden Depth: 70.0'

Astronomic Azimuth: 50° 08' 44" W. 82° 09' 00" N

Location: 740.0' at 193° to claim post no. 1 Scale: 1.0" \approx 50.0' or 1:600

Northing: 205 S Easting: 5290 E

Dip: -90°



ROTARY DRILL HOLE RECORD

Drilling Started: Mar. 1, 1989 Logged By: A. Casselman Drilling Finished: Mar. 2, 1989 Logged: April 24, 1989

Drilling Co.: Midwest Core Size: 3.5" Core Storage:

Dip: -90°

Hole Length: 220.0'

Overburden Depth: 54.0' Claim No.: P 825802

Easting: 5355 E

Azimuth: 50° 08' 52" N, 82° 08' 55" W

Location: 1180.0' at 225° to Claim Post No. 1

Northing: 060 N Property: Kipling

Parry Sound ON P2A 2W8 Hole No.: 89-71

Mineral Research Canada

R. R. # 2

2.16012

SUMMARY

From	То	Description		HECEIVED
0.0' 9.0' 13.5' 16.0' 18.0' 48.0' 53.5'	9.0' 13.5' 16.0' 18.0' 48.0' 53.5' 54.0'	Sand Gravel Glacial Clay Till Gravel Glacial Clay Till Kaolin Silica Sand Glacial Clay Till		MAY 2 6 1995 Mining Lands Bhanch
54.0' 54.5' 77.0'	54.5' 77.0' 78.0'	Clay Kss Clay		
78.0'	84.0'	Kss	The second secon	TOTA PCH
84.0'	92.0'	Clay	MINE	CANADA CANADA CANADA
92.0'	121.0'	Kss	The state of the s	RESCONTATION TARIO
121.0'	126.0'	Sandy Clay	FAX (705) B78	BUS 378-2416
126.0'	139.0'	Kss	DAIL	
139.0'	147.0'	Clay		The second secon
147.0'	151.5'	Sandy Clay & Clay		
151.5'	215.0'	Kss		
215.0'	216.5'	Sandy Clay		
216.5'	218.0'	Kss		
218.0'	220.0'	Sandy Clay		

Detail Log - 89-71

b

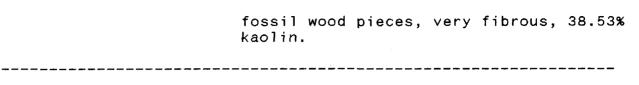
From	То	Sample No.	Description
0.0'	9.0'		Sand - fine grain, well sorted, coarsening downsection, yellow brown.
9.0'	13.5'		Gravel - high clay content, green/brown, gneissic clasts.
13.5'	16.0'		Glacial Clay Till - dark brown, competent, rare clast up to 3.0".
16.0'	18.0'		Gravel - as previous.
18.0'	21.0'		Glacial Clay Till - as previous.
21.0'	23.0'		Gravel - as previous.
23.0'	48.0'		Glacial Clay Till - dried, fissile, segmented, clast-free, dark green/brown.
48.0'	51.0'	13351	Kss - dark grey, high clay content, medium grain. 12.58% kaolin.
51.0'	53.5'	13352	Kss - as above. 10.63% kaolin.
53.5'	54.0'		Glacial Clay Till - as previous, non-dried.
54.0'	54.5'	13353	Clay - medium brown, pliable, some kss interbedding. 57.19% kaolin.
54.5'	61.0'	13354	Kss - medium grain, white, minor illite and heavies, heavies banding, light grey, pliable clay clots. 9.87% kaolin.
61.0'	66.0'	13355	Kss - as above, purple band at 63.0'-63.5'. 8.08% kaolin.
66.0'	71.0'	13356	Kss - as previous. 13.16% kaolin.
71.0'	76.0'	13357	Kss - as above. 6.89% kaolin.
76.0'	77.0'	13358	Kss - coarser grain, minor illite and heavies, white. 8.86% kaolin.
77.0'	78.0'	13359	Clay - medium brown, lighter and darker discontinuous laminations, gradationally lighter, pliable. 65.11% kaolin.

78.0'	84.0'	13360	Kss - clay-rich areas at contact, medium grain, white, minor illite and heavies. 15.62% kaolin.
84.0'	86.0'	13361	Clay - pliable, competent, grey at lower contact, buff/yellow, rare silica clast - 0.125". 69.72% kaolin.
86.0'	92.0'	13362	Clay - as above grading to light grey sandy clay, purple and blue laminations. 68.41% kaolin.
92.0'	96.0'	13363	Kss - medium grain, white, polydrill saturated. 10.73% kaolin.
96.0'	101.0'	13364	Kss - medium grain, white, minor illite and heavies. 8.89% kaolin.
101.0'	106.0'	13365	Kss - as above. 9.39% kaolin.
106.0'	111.0'	13366	Kss - as above. 9.22% kaolin.
111.0'	116.0'	13367	Kss - as above, fine grain - 111.0' - 112.0'. 9.22% kaolin.
116.0'	121.0'	13368	Kss - as above, high clay content, purple band at 117.5', clay seam of 0.75' at 118.0', kss interbedded - grey sandy, pliable, non-competent, then fine grain kss. 22.48% kaolin.
121.0'	126.0'	13369	Sandy Clay - grey, fine grain, minor illite and heavies, competent, 20.05% kaolin.
126.0'	131.0'	13370	Kss - medium grain, white, minor illite and heavies, 7.75% kaolin.
131.0'	136.0'	1,3371	Kss - medium grain coarsening downsection, red toward lower bag contact, minor illite and heavies, white, 7.70% kaolin.
136.0'	139.0'	13372	Kss - as above, no red, coarse at lower contact, 10.53% kaolin.
139.0'	141.0'	13373	Clay - pliable, buff grading to buff with wine coloured laminations, grading to buff with large carbonaceous sections, chocolate brown with limonitic stained portions, competent with minor illite, 60.94% kaolin.
141.0'	144.0'	13374	Clay - chocolate brown grading to black, highly competent, greasy with areas of

.

			sandy clay - fine grain chocolate brown with high illite content, minor lignite, black fibrous and chocolate brown kss that grades from medium to coarse, 36.58% kaolin.
144.0'	147.0'	13375	Clay - black grading into near sandy clay - black and chocolate brown alternating laminations, clay is competent and greasy, 55.16% kaolin.
147.0'	150.0'	13376	Clay & Sandy Clay - interbedded chocolate brown and medium brown as above, 39.09% kaolin.
150.0'	151.5'	13377	Sandy Clay & Clay - as previous, 43.95% kaolin.
151.5'	154.0'	13378	Kss - white grading to light yellow/brown, some areas of clay-rich material with associated coarse grain clasts- remainder medium grain, minor illite, 10.78% kaolin.
154.0'	158.0'	13379	Kss - as above, primarily coarse grain, 2 sandstone clasts, typical dark grey weathered surface, light grey interior - fossiliferous - brachiopods, bryozoans, other - pitted, porous light grey, found within reddish portion of kss - both 2.0" - Devonian, 8.56% kaolin.
158.0'	162.0'	13380	Kss - clay-rich portions with associated angular clasts up to 1.0", red/brown with some small clay clots, alternating with medium grain, darker areas, 11.65% kaolin.
162.0'	166.0'	13381	Kss - medium grain, fining downsection, alternating white and brown/grey units, minor illite, high percentage heavies (garnet?) - rare larger rounded smoky quartz and yellow chert, 9.97% kaolin.
166.0'	170.0'	13382	Kss - medium grain, as above, 11.09% kaolin.
170.0'	173.0'	13383	Kss - coarse grain, medium brown & grey, high clay content with 1.0" light grey pliable clay clots, 1 sandstone clast, grey laminated, flat smooth fragments, 9.22% kaolin.
173.0'	177.0'	13384	Kss - as above, medium grain with dark yellow/brown portions, lower clay content, minor illite and heavies, 7.92% kaolin.

177.0'	180.0'	13385	Kss - medium grain, medium grey and brown, lightening downsection to light grey, rare larger rounded clasts of smoky quartz, 2.0" of sandy clay - light grey at 179.0'-very high percentage heavies - garnet? - altered cpx?, non-magnetic, 10.18% kaolin.
180.0'	184.0'	13386	Kss - fining downsection from medium to fine, lightening downsection from medium to light grey, minor heavies banding, high illite, high moisture content in fine grain portion, 5.57% kaolin.
184.0'	188.0'	13387	Kss - fine grain, grading to medium grain, white, frequent coarse grain, rounded smoky quartz, jasper and yellow chert, 8.35% kaolin.
188.0'	192.0'	13388	Kss - coarse grain with rare larger clasts, 1.5" of sandy clay at 192.0' - buff after medium grain kss, white, minor illite and heavies, 2.5" bands of yellow and grey clay at the lower portion of sandy clay, 12.30% kaolin.
192.0'	196.0'	13389	Kss - white, medium grain, minor illite and heavies, 6.61% kaolin.
196.0'	200.0'	13390	Kss - as above, 7.57% kaolin.
200.0'	204.0'	13391	Kss - as above, 8.48% kaolin.
204.0'	208.0'	13392	Kss - as above, some rust stained areas, 6.43% kaolin.
208.0'	212.0'	13393	Kss - as above, coarser than previous, 7.92% kaolin.
212.0'	215.5'	13394	Kss - yellow brown, medium grain, 21.01% kaolin.
215.0'	216.5'	13395	Sandy Clay - chocolate brown grading to black, high illite and carbonaceous areas, spots of yellow powder - limonite, 40.76% kaolin.
216.5'	218.0'	13396	Kss - medium grain, medium brown with black, chocolate brown and medium brown clay laminations in 2.5" sections, 2.5" clasts with <i>in situ</i> pyrite growth, some having cubic form, 13.72% kaolin.
218.0'	220.0'	13397	Sandy Clay - as previous, black with large



EOH - 220.0'

Section 89-71 Claim No.: P 825802 Hole Length: 220.0' Overburden Depth: 54.0' Astronomic Azimuth: 50° 08' 52" W. 82° 08' 55" N Location: 1180.0' at 225° to claim post no. 1 Scale: 1.0" = 50.0' or 1:600Northing: 060 N Easting: 5355 E Dip: -90° 50.0' Gridline 5400 ⊕89-71 Sand Gravel Till Gravel Till Gravel Till Till Clay(bin) KSS Clay(brn) KSS
Clay(It brn,yel) == Clay(It brn,lt grx) KSS Sandy Clay KSS Clay(buff, wine, choc) Sandy (lay/(lay_ KSS KSS/Sandy Clay

Section 89-71 Claim No.: P 825802 Hole Length: 220.0' Overburden Depth: 54.0' Astronomic Azimuth: 50° 08' 52" N, 82° 08' 55" W Location: 1180.0' at 225° to claim post no. 1 Scale: 1.0" = 50.0' or 1:600 Northing: 060 N Easting: 5355 E Dip: -90° 50.0' Gridline 5400 89-71 13351 12.58% 13352 8.48% 13353 57.19% 13355 8.48% 13355 8.48% 13355 8.48% 13353 8.48% 13353 8.48% 13353 15.62% 13363 15.62% 13363 15.62% 13363 15.62% 13363 15.62% 13363 15.62% 13363 15.62% 13363 15.62% 13363 15.62% 13363 15.62% 13363 15.62% 13363 15.62% 13363 15.62% 13363 15.62% 13363 15.62% 13363 15.62% 13373 16.58% 13373 16.58% 13373 16.58% 13373 16.58% 13373 16.58% 13373 16.58% 13373 16.58% 13373 16.58% 13373 16.58% 13373 16.58% 13373 16.58% 13373 16.58% 13373 16.58% 13373 16.58% 13373 16.58% 13373 16.58% 13373 16.58% 13373 16.58% 13374 16.58% 13384 16.5% 13384 16.5% 13384 16.5% 13384 16.5% 13384 16.5% 13384 16.5% 13384 16.5% 13384 16.5% 13384 16.5% 13384 16.5% 13384 16.5% 13384 16.5% 13384 16.5% 13384 16.5% 13384 16.5% 13384 16.5% 13384 16.5% 13384 16.5% 13384 16.5% 13384 16.5% 13384 16.5% 13384 16.5% 13384 16.5% 13384 16.5% 13384 16.5% 13384 16.5% 13384 16.5% 13384 16.5% 13384 16.5% 13384 16.5% 13384 16.5% 13384 16.5% 13366 13389 13398 13391 13392 13394 13395 13396 13392 6.63% 13393 7.92% 13394 71.97% 13396 13.72% 13396 13.72% 13397 34.53%

SONIC DRILL HOLE RECORD

Drilling Drilling Dip: -90 Hole Ler Overburg Claim No Easting: Northing Azimuth Location	g Started g Finish g Co.: J ngth: 25 den Dept co.: P 82 : 5400 E g: 110 N : 50° 08° n: 950.0 y: Kipli	MAY 2 6 1995	
SUMMARY			MINING LANDS BRIANCH
From	То	Description	
0.0'	9.0'	Sand	
9.0'	45.0'	Glacial Clay Till	- Overburden - Pleistocene
45.0'	85.0'	Kaolin Silica Sand (F	(ss) Cretaceous
85.0'	87.0'	Clay	.ss, setacess 40012
87.0'	89.0'	Kss	
89.0'	93.0'	Clay	
93.0'	123.0'	Kss	/ MINERAL RESEARCH
123.0'	140.0'	Sandy Clay	CANADA
140.0'	158.0'	Kss	M' Plank CO. J. MAN.
158.0'	163.0'	Sandy Clay	PAX (705) 378-4123 BUS (705) 308-2410 DATE
163.0'	247.0'	Kss	
247.0'	250.0'	Clay	

Detail Log - 89-74

From	То	Sample No.	Description
0.0'	9.0'		Sand - yellow brown, coarsening downsection, very little clay, predominantly gneissic clasts, poorly sorted.
9.0'	45.0'		Glacial Clay Till - dark brown, highly to moderately competent, rare clast up to 3.0", predominantly carbonate, 38.0' 45.0' - fine grain silt within the clay matrix.
45.0'	48.0'	13201	Kss - medium grain, dark brown, lighte sections. 9.34% kaolin.
48.0'	53.0'	13202	Kss - light brown and white alternating sections, medium grain. 8.48% kaolin.
53.0'	58.0'	13203	Kss - white with purple sections, coarsening downsection from medium grain to coarse. 8.30% kaolin.
58.0'	63.0'	13204	Kss - medium grain, coarsening downsection, 4.0" light grey pliable clast 61.5', brown at lower contact. 12.569 kaolin.
63.0'	68.0'	13205	Kss - medium grain, coarsening downsection, white, rare smoky quartz clasts up to 1.0", minor illite and heavies. 6.28% kaolin.
68.0'	73.0'	13206	Kss - as above. 5.72% kaolin.
73.0'	76.0'	13207	Kss - as above, 3.0" light grey pliabl clay clots at 73.5". 8.86% kaolin.
76.0'	80.0'	13208	Kss - as above, no clay clots. 7.67% kaolin.
80.0'	85.0'	13209	Kss - as above. 7.34% kaolin.
85.0'	87.0'	13210	Clay - buff, pliable, poorly disc-like 64.13% kaolin.
87.0'	89.0'	13211	Kss - medium brown, medium grain, 1.0 medium brown pliable clay clots. 10.84 kaolin.
89.0'	90.0'	13212	Clay - buff, pliable, competent, fain

darker laminations. 77.42% kaolin.

90.0'	93.0' 13	3213	Clay - as above. 66.76% kaolin.
93.0'	94.0' 13	3214	Kss - water saturated, coarse grain, light brown, fishy smell. 9.06% kaolin.
94.0'	100.0' 13	3215	Kss - white, medium grain with dark to medium brown clay clots and mottling. 22.13% kaolin.
100.0'	106.0' 13	3216	Kss - as above. 19.57% kaolin.
106.0'	110.0'13	3217	Kss - medium grain, greyish, darker areas, minor illite and heavies. 9.92% kaolin.
110.0'	115.0'13	3218	Kss - as above, water saturated, rare 1.0" smoky quartz. 9.87% kaolin.
115.0'	121.0' 13	3219	Kss - as above, less moisture. 6.99% kaolin.
121.0'	123.0'13	3220 I	Kss - medium grain, white, minor illite and heavies.
123.0'	125.0' 13	3221	Sandy Clay - competent, medium grey, rare purple laminations, medium grain, minor illite and heavies, 27.11% kaolin.
125.0'	133.0' 13	3222	Sandy Clay - as above, 13.19% kaolin.
133.0'	135.0'13	3223	Sandy Clay - as above, polydrill saturated, 18.38% kaolin.
135.0'	140.0' 13	3224	Sandy Clay - as above, some areas grading to kss, 26.08% kaolin.
140.0'	145.0'13	3225	Kss - medium grain, white, minor illite and heavies, heavies also occur as banding, 7.90% kaolin.
145.0'	150.0' 1:	3226	Kss - white, grading downsection to purple/blue to grey/brown, to buff to purple blue, medium grain, 7.29% kaolin.
150.0'	154.0' 13	3227	Kss - white grading downsection to medium grey, grading downsection from medium to coarse grain with minor illite and heavies, 5.32% kaolin.
154.0'	158.0'13	3228	Kss - coarse grain, 0.25" rounded clasts, yellow chert and smoky quartz in a light brown clay matrix, 11.82% kaolin.

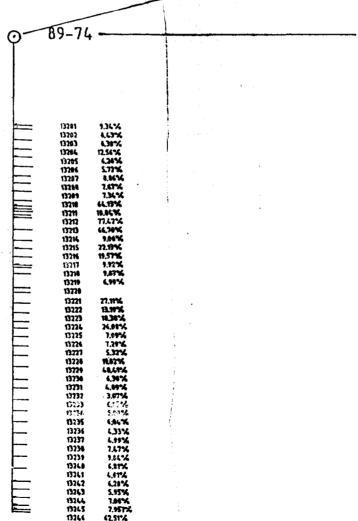
158.0'	163.0'	13229	Sandy Clay - buff, high illite content, with clay interbeds, pliable, yellow buff, chocolate brown, also clay-rich kss, coarse grain, brown, interbeds in 3.0" - 5.0" sections, 48.41% kaolin.
163.0'	168.0'	13230	Kss - medium/fine grain, dark to medium grey, some haematite stained sections, minor illite and heavies, heavies banding and lower clay content, 6.38% kaolin.
168.0'	174.0'	13231	Kss - as above, 4.89% kaolin.
174.0'	180.0'	13232	Kss - as above, slightly higher clay content, 3.87% kaolin.
180.0'	185.0'	13233	Kss - medium brown, medium grain, large section of drill casing, rust staining surrounding, 6.05% kaolin.
185.0'	191.0'	13234	Kss - medium brown as above, 185.0' - 186.0', then becoming white, medium grain, minor illite and heavies as banding, 5.80% kaolin.
191.0'	197.0'	13235	Kss - as above, rare larger rounded clasts, smoky quartz, 6.84% kaolin.
197.0'	203.0'	13236	Kss - as above, 4.33% kaolin.
203.0'	209.0'	13237	Kss - as above, some areas of low clay content, 4.99% kaolin.
209.0'	214.0'	13238	Kss - as above, alternating with coarse grain areas, medium grain with larger rounded clasts, 7.47% kaolin.
214.0'	221.0'	13239	Kss - coarse material as above, until 216.0', then dark to medium grey, fine grain kss, heavies banding, purple convolute laminations at upper contact, minor illite and heavies, 9.04% kaolin.
221.0'	226.0'	13240	Kss - fine as above, light grey only, 6.81% kaolin.
226.0'	233.0'	13241	Kss - medium grain, darkening downsection from dark grey to light grey to dark yellow brown, 2.0" dark weathered fossiliferous sandstone, - brachiopods & criniods, Devonian, 4.61% kaolin.
233.0'	238.0'	13242	Kss - medium grey, white, coarsening downsection, minor illite and heavies,

6.20% kaolin.

238.0'	241.0'	13243	Kss - medium and coarse grain alternating - as above, minor illite and heavies, 5.95% kaolin.
241.0'	245.0'	13244	Kss - as above from 241.0' - 244.0', 244.0' - 245.0' - buff to brown as well as laminations of black carbon-rich material, 7.06% kaolin.
245.0'	247.0'	13245	Kss - coarse grain, dried, larger clasts rounded smoky quartz in reddish areas, 7.95% kaolin.
247.0'	250.0'	13246	Clay - chocolate brown, greasy, highly competent, carbonaceous seams, 62.51% kaolin.

EOH - 250.0'

Section 89-74 Claim No.: P 825802 Hole Length: 250.0' Overburden Depth: 45.0' Astronomic Azimuth: 50° 08' 53" W. 82° 08' 52" N Location: 950.0' at 225° to claim post no. 1 Scale: 1.0" = 50.0' or 1:600Northing: 110 N Easting: 5400 E Dip: -90° 50.0' Gridline 5400 **⊙ 89-74** Sand Titt KSS Clay(II brn) KSS Clay(II brn) Sandy Clay KSS Sandy Clay



ROTARY DRILL HOLE RECORD

Drilling Started: Mar. 3, 1989 Logged By: A. Casselman Drilling Finished: Mar. 3, 1989 Logged: April 18, 1989 Drilling Co.: Midwest Dip: -90° Core Size: 3.5" Core Storage: Hole Length: 135.0' Mineral Research Canada Overburden Depth: 45.0' R. R. # 2 Claim No.: P 825802 Parry Sound, ON P2A 2W8 Easting: 5450 E Northing: 050 N Hole No.: 89-77

Azimuth: 50° 08' 52" W. 82° 08' 49" N. Location: 950.0' at 211° To Claim Post No. 1

Property: Kipling

SUMMARY

From	То	Description
0.0'	1.0'	Peat
1.0'	8.25'	Sand
8.25'	16.0'	Fluvial Sediments
16.0'	45.0'	Glacial Clay Till -Overburden -Pleistocene
45.0'	46.0'	Kaolin Silica Sand (Kss) Cretaceous
46.0'	47.0'	Clay
47.0'	86.0'	Kss
86.0'	90.0'	Clay
90.0'	135.0'	Kss

EOH - 135.0'

Casing Stuck - 125.0'



Detail Log - 89-77

From	То	Sample No.	Description
0.0'	1.0'		Peat
1.0'	8.25'		Sand - yellow/brown, medium grain, coarsening downsection.
8.25'	16.0'		Fluvial Sediments - pliable, competent clay, yellow/brown, clast-free, darker laminations.
16.0'	45.0'		Glacial Clay Till - dark brown; o", competent, rare clasts up to 3:0", calcareous.
45.0'	46.0'	12551	Kss - medium grain, grey & brown, white sections, pliable light grey clay seam (1.0") at 45.0', yellow and red chert clasts. 19.16% kaolin.
46.0'	47.0'	12552	Clay - medium brown, grading downsection to light grey, higher frequency of kss interbedding downsection. 52.13% kaolin.
47.0'	50.0'	12553	Kss - medium grain, white, minor heavies and illite, well sorted. 9.14% kaolin.
50.0'	55.0'	12554	Kss - medium grain, white, as above, rare larger clast. 10.30% kaolin.
55.0'	59.0'	12555	Kss - as above, 57.0' - 59.0' - dark grey and medium brown, high moisture & clay content. 12.96% kaolin.
59.0'	64.0'	12556	Kss - medium grain, minor illite and heavies, white, light grey pliable clay seams, heavies banding. 9.54% kaolin.
64.0'	68.0'	12557	Kss - as above, no clay. 5.52% kaolin.
68.0'	73.0'	12558	Kss - as above, clay clots, purple banding. 9.72% kaolin.
73.0'	77.0'	12559	Kss - as above. 6.58% kaolin.
77.0'	81.0'	12560	Kss - as above. 6.86% kaolin.
81.0'	85.0'	12561	Kss - as above. 6.28% kaolin.

85.0'	86.0'	12562	Kss - as above, some brown banding, slightly coarser. 7.95% kaolin.
86.0'	90.0'	12563	Clay - light grey, pliable with coarse grain silica in patches. 40.53% kaolin.
90.0'	95.0'	12564	Kss - white, medium grain, high moisture content, possible polydrill contamination. 6.96% kaolin.
95.0'	100.0'	12565	Kss - as above, no polydrill. 9.29% kaolin.
100.0'	105.0'	12566	Kss - as above. 5.59% kaolin.
105.0'	110.0'	12567	Kss - as above, more coarse, jasper and amphibole. 6.78% kaolin.
110.0'	115.0'	12568	Kss - as above, finer after 111.0'. 8.73% kaolin.
115.0'	118.0'	12569	Kss - as above, medium grain grading to fine. 7.65% kaolin.
118.0'	121.0'	12570	Kss - as above. 7.52% kaolin.
121.0'	125.0'	12571	Kss - medium grain, grading downsection to fine grain, white, minor illite and heavies, 9.11% kaolin.
125.0'	130.0'	12572	Kss - fine grain, as above, some haematite staining due to drilling debris, heavies also occurring as convolute banding, 8.63% kaolin.
130.0'	135.0'	12573	Kss - fine grain coarsening downsection to medium grain, as above, some areas of medium grey, 7.62% kaolin.

EOH - 135.0'

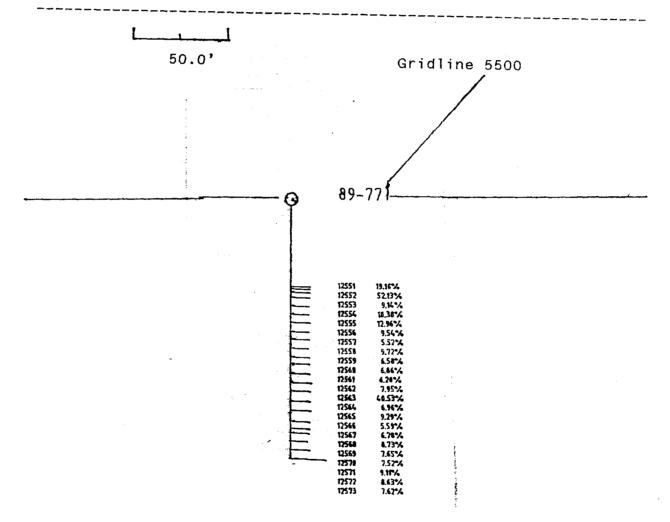
Section 89-77 Claim No.: P 825805 Hole Length: 135.0' Overburden Depth: 45.0' Astronomic Azimuth: 50° 08' 52" W. 82° 08' 49" N Location: 950.0' at 211° to claim post no. 1 Scale: 1.0" = 50.0' or 1:600 Northing: 050 N Easting: 5450 E Dip: -90 50.0' Gridline 5500 ⊙ 89-77 Sand Loc Clay Till KSS Clay(brn,It gry) = KSS Clay(II gry) KSS

Section 89-77

Claim No.: P 825802 Hole Length: 135.0' Overburden Depth: 45.0'

Astronomic Azimuth: 50° 08' 52" W. 82° 08' 49" N Location: 950.0' at 211° to claim post no. 1 Scale: 1.0" = 50.0' or 1:600

Northing: 050 N Easting: 5450 E Dip: -90°



\$\$auco

Mineral Research Canada

Parry Sound ON P2A 2W8

Elevation (original): 328.0'

Elevation (current): 330.0'

R, R. # 2

ROTARY DRILL HOLE RECORD

Logged By: A. Casselman Drilling Started: Mar. 4, 1989 Logged: April 14, 1989 Drilling Finished: Mar. 5, 1989 Core Size: 3.5" Drilling Co.: Midwest Core Storage:

Dip: ~90°

Hole Length: 245.0'

Overburden Depth: 63.75'

210.0' 212.0' Sandy Clay

Kss

212.0' 245.0'

Claim No.: P 825802

Easting: 5447 E

Northing: 154 S

Azimuth: 50° 08' 45" N 82° 08' 49" W

Location: 1580.0' at 199° to Claim Post No. 1
Property: Kipling Hole No

Hole No.: 89-78

Propert	y: Kiplin	9	HOTE NOTE 102-76			
SUMMARY	,		2_1_60- <u>1</u> -2-			
From	To	Description				
0.0' 5.0' 9.0' 46.75' 48.0' 59.0'	9.0' 46.75' 48.0'	Gravel Fluvial Sediments Glacial Clay Till Kaolin Silica San Glacial Clay Till Contact Zone (glac	d (Kss) MAY 2 6 1995			
63.75' 112.0'	112.0' 112.5'	Kss Clay	Cretaceous			
112.5'	112.75	Kss				
112.75	' 125.0'	Sandy Clay				
125.0'	157.0'	Kss	MINERAL RESEARCH			
157.0'	159.0'	Sandy Clay	1 ENDUSTRONE BEVOLURE REMARKS OF THE BENDER BIO			
159.0'	160.0'	Kss	FAX (705) 378-5123 Pus (705) 378-2416			
160.0'	163.0'	Sandy Clay	DATE			
163.0'	167.0'	Kss & Sandy Clay				
167.0'	196.25'	Kss				
196.25	' 200.0'	Clay				
200.0'	210.0'	Kss				

Detail Log - 89-78

From	To	Sample No.	Description
0.0'	5.0'		Gravel - bi-modal distribution of coarse gravel & sand.
5.0'	9.0'		Fluvial Sediments - green/grey clay with light brown areas, fine grain silt, pliable, clast-free.
9.0'	43.0'		Glacial Clay Till - green/grey, pliable to moderately fissile, competent, sandy matrix, Precambrian & Devonian clasts up to 2.0", from 3.0 - 5.0% clasts, calcareous.
43.0'	46.75'	4251	Glacial Clay Till - as above.
46.75'	48.0'	4252	Kss - well sorted, medium grain, yellowish white, glacial encorporation. 9.44% kaolin.
48.0'	59.0'	4253-5	Glacial Clay Till - as previous.
59.0'	63.75'	4256	Till/Kss - grey/green, yellowish grey kaolin within till.
63.75'	68.0'	4257	Kss - well sorted, medium grain, white, rare yellow bands and clots. 8.86% kaolin.
68.0'	72.0'	4258	Kss - medium grain, poorly sorted, some yellow. 8.18% kaolin.
72.0'	75.0'	4259	Kss - 72.0' - 73.0' - as above, 73.0' - 75.0' - yellow/green. 8.89% kaolin.
75.0'	77.0'	4260	Kss - well sorted, medium grain, white, high, moisture content. 6.46% kaolin.
77.0'	80.0'	4261	Kss - as above, with yellow band less than 1.0". 7.24% kaolin.
80.0'	83.0'	4262	Kss - as above, higher moisture content,light grey. 7.06% kaolin.
83.0'	86.0'	4263	Kss - as above, high moisture content from 84.0' - 85.0' - coarse grain, poorly sorted. 9.57% kaolin.
86.0'	89.0'	4264	Kss - well sorted, fine grain, white

			occasional yellow colouration, 88.0' - 88.5', sandy clay - fine grain, light grey fine laminations, 88.5' - 89.0' - kss - fine grain, white, well sorted. 10.94% kaolin.
89.0'	93.0'	4265	Kss - 89.0' - 92.6' - kss - as above, 92.5' - 93.0' - sandy clay - as above. 16.08% kaolin.
93.0'	97.0'	4266	Kss - well sorted, fine grain, white. 10.43% kaolin.
97.0'	103.0'	4267	Kss - as above. 9.65% kaolin.
103.0'	108.0'	4268	Kss – as above, rare larger silica clasts, smoky quartz. 8.96% kaolin.
108.0'	112.0'	4269	Kss - as above. 10.73% kaolin.
112.0'	112.5'	4270	Clay - pliable, wine coloured. 54.66% kaolin.
112.5'	112.75'	4271	Kss - well sorted, medium grain, white to yellow. 15.01% kaolin.
112.75'	113.5'	4272	Clay - light yellow brown. 45.23% kaolin.
113.5'	118.0'	4273	Sandy Clay - fine grain, white to light grey. 24.35% kaolin.
118.0'	121.0'	4274	Sandy Clay - as above, from 118.0' - 120.75', kss from 120.75' - 121.0' - well sorted, fine grain, white, 25.06% kaolin.
121.0'	125.0'	4275	Sandy Clay - competent, disc-like, fine grain sandy clay grading to fine grain kss, buff, minor illite, remainder of hole dried, 33.75% kaolin.
125.0'	133.0'	4276	Kss - medium grain, medium brown, minor heavies and illite, much contamination due to drilling debris, 11.22% kaolin.
133.0'	135.0'	4277	Sandy Clay - competent, fissile, buff, minor illite, last 2.0', 25.11% kaolin.
135.0'	141.0'	4278	Kss - fine grain grading to medium, buff, minor illite, 11.75% kaolin.
141.0'	148.0'	4279	Kss - coarse grain in a medium grain matrix, slight coarsening downsection,

white,	minor	illite,	vari-coloured	silica,
8.84%	kaolin.	ı		

148.0'	152.0'	4280	Kss - coarse grain, some areas of white clay matrix, vari-coloured silica, 8.66% kaolin.
152.0'	159.0'	4281	Sandy Clay - competent, fissile, fine grain, buff, minor illite, some kss areas, 15.11% kaolin.
159.0'	163.0'	4282	Sandy Clay - fine grain, buff, minor illite, some kss areas, 21.42% kaolin.
163.0'	167.0'	4283	Kss & Sandy Clay - alternating, coarse grain, kss in a white clay matrix, buff illitic sandy clay, 22.25% kaolin.
167.0'	171.0'	4284	Kss - fine grain, light grey, minor illite, 10.20% kaolin.
171.0'	175.0'	4285	Kss - medium grain, light grey, minor illite, 11.72% kaolin.
175.0'	180.0'	4293	Kss - medium grain, grading to coarse grain, white, 5.59% kaolin.
180.0'	183.0'	4286	Kss - grading from medium to fine grain with some coarse clasts, light grey, minor illite, high percentages heavies concentrated in thick bands, 8.84% kaolin.
183.0'	187.0'	4287	Kss - medium grain grading to coarse grain, light brown, 10.08% kaolin.
187.0'	191.0'	4294	Kss - coarse grain in a white clay matrix, vari-coloured silicas, 11.92% kaolin.
191.0'	196.25	' 4288	Kss - medium grain, with frequent coarse clasts, 7.85% kaolin.
196.25'	200.0'	4289	Clay - competent, disc-like, greasy, medium brown to black to chocolate brown, carbonaceous, 74.00% kaolin.
200.0'	205.0'	4290	Kss - coarse grain, white, 7.90% kaolin.
205.0'	210.0'	4291	Kss - medium grain, rare coarse clasts, light grey, 5.75% kaolin.
210.0'	212.0'	4292	Sandy Clay - competent, disc-like, buff, some illite, 33.97% kaolin.
212.0'	217.0'	4295	Kss - coarse grain, fining downsection to medium grain, light grey, 6.81% kaolin.

•

217.0'	222.0'	4296	Kss - fine grain, white, minor illite, 6.81% kaolin.
222.0'	227.0'	4297	Kss - as above, 13.24% kaolin.
227.0'	234.0'	4298	Kss - medium grain, chocolate brown - 227.0' - 229.0' - much drilling debris, moist, 229.0' - 234.0' - light brown, dried, 7.90% kaolin.
234.0'	240.0'	4299	Kss - coarse grain, light brown, 9.24% kaolin.
240.0'	245.0'	4300	Kss – coarse grain, light brown, 8.08% kaolin.

EOH - 245.0'

Section 89-78

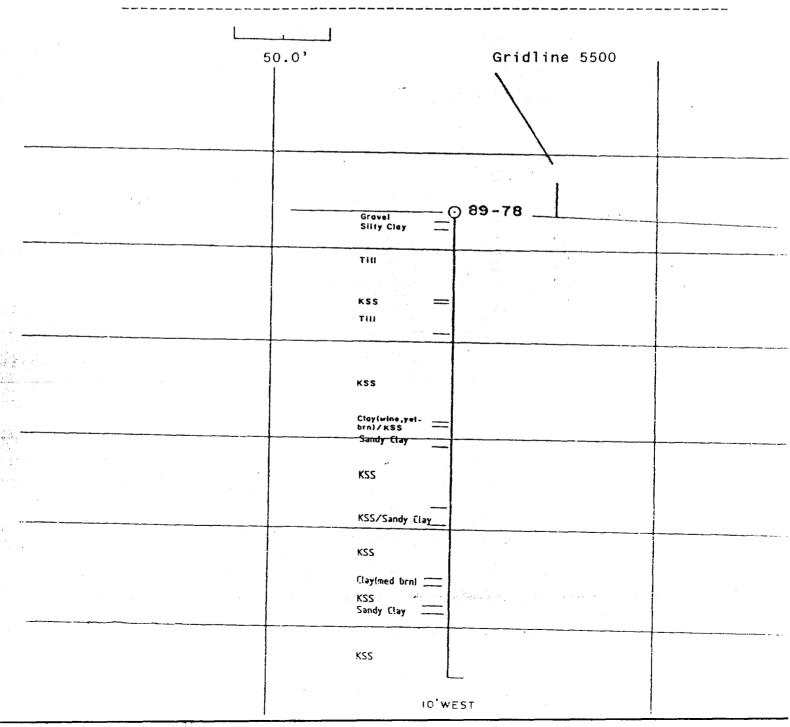
Claim No.: P 825802 Hole Length: 245.0'

Overburden Depth: 63.75' Astronomic Azimuth: 50° 08' 45" W. 82° 08' 49" N Location: 1580.0' at 1990 to claim post no. 1

Scale: 1.0" = 50.0' or 1:600

Northing: 154 S Easting: 5447 E

Dip: -90°



Claim No.: P 825802 Hole Length: 245.0'

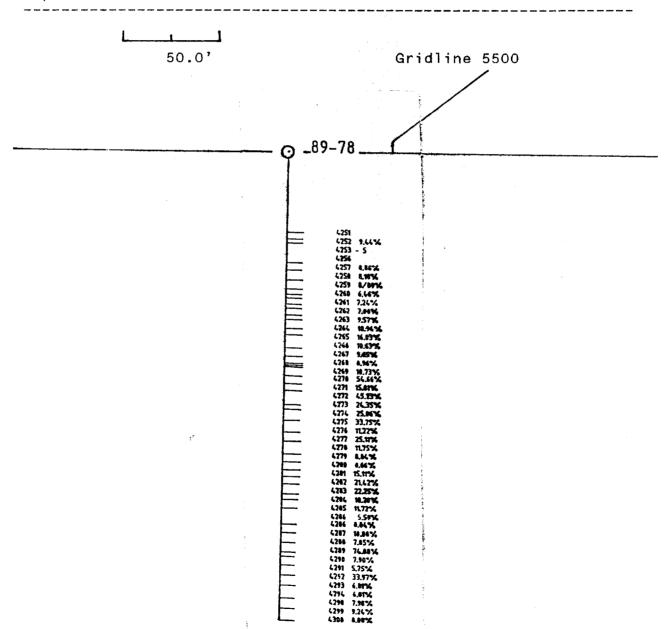
Overburden Depth: 63.75'

Astronomic Azimuth: 50° 08' 45" N, 82° 08' 49" W Location: 1580.0' at 199° to claim post no. 1

Scale: 1.0" = 50.0' or 1:600

Northing: 154 S Easting: 5447 E

Dip: -90°



ROTARY DRILL HOLE RECORD

ROTARY DRILL HO	JLE RECORD
Drilling Started: Mar.9, 1989 Drilling Finished: Mar.10, 1989 Drilling Co.: Midwest Dip: -900 Hole Length: 185.0' Overburden Depth: 45.5' Claim No.: P 825802 Easting: 5500 E Northing: BL OO Azimuth: 50° 08' 50" W. 82° 08' 47 Location: 1090.0' at 199° To Claim Property: Kipling	Elevation(current): 330.0' Hole No.: 89-80

SUMMARY	_		2.16012	
 From	То	Description		
0.0' 1.0' 8.0' 12.0'	1.0' 8.0' 12.0' 13.0'	Peat Sand Gravel Fluvial Sediments	MAY 2 6 1995	
13.0'	35.0'	Glacial Sandy Clay	Til Mining Lands Bhanch	
35.0'	39.5'	Sand		
39.5'	40.5'	Fluvial Sediments		
40.5'	45.5'	Glacial Clay Till -Overburden -Pleistocene		
45.5	88.0'	Kaolin Silica Sand (Kss) Cretaceous		
88.0'	90.0'	Sandy Clay		
90.0'	107.0'	Kss		
107.0'	110.0'	Sandy Clay & Kss		
110.0'	115.0'	Sandy Clay	MINERAL RESEARCH	
115.0'	116.0'	Sand	PARTY SOUND AND RR2	
116.0'	122.0'	Sandy Clay	PAN (705) 378-5123 BUNNOS) 378-2416	
122.0'	165.0'	Kss	DATE	
165.0'	167.0'	Clay		
167.0'	185.0'	Kss		

Detail Log - 89-80

From	То	Sample No.	Description
0.0'	1.0'		Peat
1.0'	8.0'		Sand - fine grain, some yellow/brown clay content, coarsening downsection.
8.0	12.0'		Gravel - poorly sorted, yellow/brown, larger clasts in finer grain sand, generally gneissic clasts, percentage of slight clay content decreases downsection.
12.0'	13.0'		Fluvial Sediments - non-competent clay, pliable, medium brown with fine black laminations.
13.0'	35.0'		Glacial Clay Till - dark brown, dried fissile segmented areas interlayered with less competent pliable sections, sections of fine grain sand and rare larger clasts, clast size increasing downsection, kss-type clots at 19.0'.
35.0'	39.5'		Sand - as previous.
39.5'	40.5'		Fluvial Sediments - competent, medium brown, pliable, some fine grain, silica, clast-free.
40.5'	45.5'		Glacial Clay Till - as previous.
45.5'	51.0'	3601	Kss - medium grain, white, lightening downsection, dark at upper contact with till. 7.47% kaolin.
51.0'	54.0'	3602	Kss - as above, minor illite and heavies, heavies also as banding, some areas appear washed out. 6.43% kaolin.
54.0'	60.0'	3603	Kss - as above, rare larger clasts up to 0.5". 5.52% kaolin.
60.0'	65.0'	3604	Kss - almost sandy clay, medium grain interbedded with coarse grain in a light brown clay matrix, pliable, kss at 60.0' - 61.0' - coarse grain. 17.80% kaolin.
65.0'	70.0'	3605	Kss - light grey, coarse grain, rare light grey, pliable clay clots. 11.97% kaolin.

70.0'	75.0'	3606	Kss - light grey, medium grain - 70.0' - 73.0', brown 73.0' - 75.0'. 11.59% kaolin.
75.0'	80.0'	3607	Kss - white, medium grain, minor illite and heavies. 6.43% kaolin.
80.0'	85.0'	3608	Kss - as above, 7.27% kaolin.
85.0'	87.0'	3609	Kss - medium grain, medium grey/brown, with medium brown clay clots. 8.43% kaolin.
87.0'	88.0'	3610	Kss - coarse grain, poorly sorted, clay impurity banding, dark brown. 5.62% kaolin.
88.0'	90.0'	3611	Sandy Clay - grey, with yellow cross-bedding in seams, minor illite and heavies. 50.99% kaolin.
90.0'	93.0'	3612	Kss - brown, rust staining throughout, some lighter areas, medium grain. 6.94% kaolin.
93.0'	96.0'	3613	Kss - as above, higher portion of white areas. 6.18% kaolin.
96.0'	100.0'	3614	Kss - as above, some 1.0" clay clots, light grey, pliable. 6.94% kaolin.
100.0'	103.0'	3615	Kss - as above. 7.06% kaolin.
103.0'	107.0'	3616	Kss - 103.0' - 104.0' - brown, 104.0' - 106.5' - white, 106.5' - 107.0' - concord purple, medium grain, minor illite and heavies. 7.49% kaolin.
107.0'	110.0'	3617	Kss & Sandy Clay - medium grain, brown kss interbedded with sandy clay seams and clots, fine grain silica in wine coloured clay, some yellow tinged areas. 20.91% kaolin.
110.0'	115.0'	3618	Sandy Clay - grey, fine grain, clots and laminations of purple and yellow. 31.67% kaolin.
115.0'	116.0'	3619	Sand - apparent true sand (eg quartz, feldspar, amphibole, high clay content, medium brown, reddish at lower contact. 8.05% kaolin.
116.0'	118.0'	3620	Sandy Clay - light grey, pliable, darker laminations, minor illite and heavies, some areas retaining more moisture than others. 19.80% kaolin.

118.0'	122.0, 3621	Sandy Clay - as above. 22.35% (TSL) 23.57% (Chemex) kaolin.
122.0'	126.0' 3622	Kss - nearly sandy clay - fine grain, some areas more clay-rich, purple laminations, minor illite and heavies, 11.32% kaolin.
126.0'	130.0, 3623	Kss - fine grain, white, low clay content, minor illite and heavies, 10.53% kaolin.
130.0'	134.0' 3624	Kss - as above, medium grain, 8.05% kaolin.
134.0'	138.0, 3625	Kss - as above, high percentage yellow chert, 7.14% kaolin.
138.0'	142.0' 3626	Kss - coarse grain in a medium grain matrix, yellow/brown in areas of high moisture content, light brown in dried areas, 14.20% kaolin.
142.0'	146.0' 3627	Kss - as above, coarsening down to coarse rounded clasts of yellow chert and smoky quartz in a white clay matrix, 10.18% kaolin.
146.0'	151.0' 3628	Kss - as above, sharp contact at 148.0' with medium grain, yellow brown, minor illite, 8.08% kaolin.
151.0'	155.0' 3629	Kss - fine grain, light grey, minor illite and heavies, heavies also present as banding, 10.86% kaolin.
155.0'	159.0' 3630	Kss - medium grain, white to medium grey, minor illite and heavies, rare larger rounded smoky quartz in upper section, 7.16% kaolin.
159.0'	163.0' 3631	Kss - fine grain, as above, coarsening downsection to coarse, white with well rounded clasts, high percentage illite, minor heavies in fine grain portion, 8.78% kaolin.
163.0'	165.0' 3632	Kss - as above, 6.68% kaolin.
165.0'	167.0' 3633	Clay - medium brown, competent, semi- pliable, weakly fissile, reddish laminations, 65.75% kaolin.
167.0'	171.0' 3634	Kss - as previous (3632), with frequent clay interbeds up to 4.0" of the above described clay material, some darker laminations, areas of dark yellow brown in kss, 34.10% kaolin

kaolin.

- 171.0' 175.0' 3635 Kss fine grain, coarsening downsection and darkening downsection from white to medium grey at 174.75' extremely coarse, average clasts size 0.5", smoky quartz, rounded in a medium grain matrix, minor illite and heavies, 10.23% kaolin.

 175.0' 179.0' 3636 Kss coarse grain, as above, up to 3.0" clasts, sub-angular to sub-rounded, yellow
- 175.0' 179.0' 3636 Kss coarse grain, as above, up to 3.0" clasts, sub-angular to sub-rounded, yellow chert and smoky quartz, areas of dark blue/grey, 7.09% kaolin.
- 179.0' 182.0' 3637 Kss coarse grain, fewer larger clasts, reddish at lower contact, generally white, some brown and grey areas, minor illite and heavies, 7.80% kaolin.
- 182.0' 185.0' 3638 Kss medium and coarse grain alternating units darkening downsection to chocolate brown, 2.0" of chocolate brown pliable clay at lower contact, clots, seam? at end of hole, 10.25% kaolin.

EOH - 185.0'

Section 89-80 Claim No.: P 825802 Hole Length: 185.0' Overburden Depth: 45.5' Astronomic Azimuth: 50° 08' 50" W. 82° 08' 47" N Location: 1090.0' at 199° to claim no. : Scale: 1.0" = 50.0' or 1:600 Northing: BL 00 Easting: Dip: -90° 5500 50.0' Gridline 5500 <u>-089-80 -</u> Peat Sand Gravel Sifty Clay Till Sifty Clay T 111 Sond Loc Clay Till KSS Sandy Clay == KSS KSS/Sandy Clay
Sandy Clay
Silica Sand KSS (lay(brn)

Clay(choc brn)

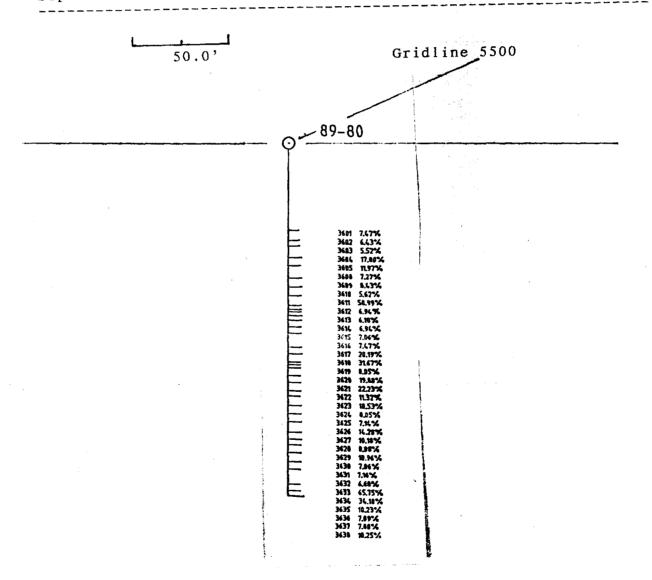
Claim No.: P 825802 Hole Length: 185.0,

Overburden Depth: 45.5'

Astronomic Azimuth: 50° 08' 50" W. 82° 08' 47" N

Location: 1090.0' at 199^0 to claim no. 1 Scale: 1.0" = 50.0' or 1:600

Northing: BL 00 5500 Easting: Dip: -90°



637753

ROTARY DRILL HOLE RECORD

Drilling Started: Mar. 11, 1989 Logged By: A. Casselman Drilling Finished: Mar. 12, 1989 Logged: April 13, 1989

Drilling Co.: Midwest Core Size: 3.5" Dip Collar: -90° Core Storage:

Mineral Research Canada Hole Length: 255.0'

Overburden Depth: 64.0' R. R. # 2

Claim Number: P 825802 Parry Sound, ON

Easting: 5500 E P2A 2W8

Northing: 200 S Elevation: 330.0'

Azimuth: 50° 08' 44" W. 82° 08' 47" N.

Location: 1720.0' at 193° To Claim Post No. 1

Property: Kipling Hole No.: 89-81

SUMMARY			Fined there was Fines F. L. & Elin, Legs
From	To	Description	
0.0' 5.0' 9.0' 13.0' 15.0'	5.0' 9.0' 13.0' 15.0' 64.0'	Fluvial Sediments Gravel Glacial Clay Till Gravel Glacial Clay Till	MINING LANDS BRANCH
64.0' 117.0' 117.5' 117.75' 118.75'	117.0' 117.5' 117.75' 118.75' 119.0'	Kaolin Silica San Clay Kss Clay Kss	cretaceous 2 . I COI2
119.0'	120.0'	Clay	
120.0'	121.0'	Sandy Clay	
121.0'	122.0'	Clay	
122.0'	135.0'	Sandy Clay	MINERAL DESERROH
135.0'	144.0'	Kss	PARADA ESALVE
144.0'	145.0'	Clay	FAX (705) 378-5123 BUS (705) 378-2416 DATE
145.0'	156.0'	Sandy Clay	
156.0'	244.0'	Kss	
244.0'	248.0'	Sandy Clay	
248.0'	249.0'	Clay	
249.0'	255.0'	Sandy Clay	

Detail Log - 89-81

From	То	Sample No.	Description
0.0'	5.0'		Fluvial Sediments - pliable clay, clast-free, yellow brown.
5.0'	9.0'		Gravel - coarsening downsection, clasts up to 4.0", predominantly gneissic, small percentage yellow brown clay.
9.0'	13.0'		Glacial Clay Till - dark brown, fine grain, competent, rare clast up to 1.0".
13.0'	15.0'		Gravel - average clast size up to 6.0", very little clay.
15.0'	64.0'		Glacial Clay Till - dark brown, competent, rare clast size up to 3.0", 13.0' - 16.0' - polydrill saturated, dried fissile segments interbedded.
64.0'	65.0'	4151	Kss - medium grain, 64.0' - 64.5' - dark grey due to surface contamination, 64.5' - 65.0'- white, - box containing rabbit faeces. 10.94% kaolin.
65.0'	66.0'	4152	Kss - medium grain, white, water saturated, minor illite and heavies. 8.84% kaolin.
66.0'	70.0'	4153	Kss - medium grain, occasional yellow band. 6.23% kaolin.
70.0'	75.0'	4154	Kss - as above from 70.0' - 72.5', 72.5' - 73.0' - purple, 73.0' - 75.0' - dark yellow/brown. 5.77% kaolin.
75.0'	79.0'	4155	Kss - brown as above, until 78.75' - 79.0' - white. 4.56% kaolin.
79.0'	83.0'	4156	Kss - medium grain, white. 6.73% kaolin.
83.0'	87.0'	4157	Kss - medium grain, white grading into light brown, grading to coarse grain at 84.0', coarse material is medium grey, high clay content, coarsening downsection, maximum clast size of 1.0". 5.72% kaolin.
87.0'	91.0'	4158	Kss - coarse grain from 87.0' - 88.0', 88.0' - 91.0' - medium grain, brown,

minor	illite	and	heavies,	some	purple	clay
clots.	4.969	6 kad	olin.			

			TOTOLOT TIOON NACTINE
91.0'	95.0'	4159	Kss - medium grain, brown and white alternating bands from 92.0' - 95.0', poorly sorted, coarse grain, medium grey, high clay content. 8.53% kaolin.
95.0'	100.0'	4160	Kss - 95.0' - 97.0' - coarse grain, fining downsection and darkening downsection, 96.0' - dark grey, high heavies content, 97.0' - 98.0' - near sandy clay, light grey, pliable 98.0' - 100.0' - medium grain, white, minor illite and heavies. 14.56% kaolin.
100.0'	105.0'	4161	Kss - medium grain, white, minor illite and heavies. 9.19% kaolin.
105.0'	108.0'	4162	Kss - as above. 10.15% kaolin.
108.0'	112.0'	4163	Kss - as above. 8.84% kaolin.
112.0'	114.0'	4164	Kss - as above. 9.82% kaolin.
114.0'	117.0'	4165	Kss - as previous, darkening downsection. 9.95% kaolin.
117.0'	117.5'	4166	Clay - upper contact very fine dark grey layer, then a light grey layer, pliable, competent grading to wine then grading into buff coloured. 53.14% kaolin.
117.5'	117.75'	4167	Kss - medium brown, medium grain, some lighter areas. 13.52% kaolin.
117.75'	118.75'	4168	Clay - buff with discontinuous red laminations, pliable. 51.01% kaolin.
118.75'	119.0'	4169	Kss - medium brown, medium grain. 25.16% kaolin.
119.0'	120.0'	4170	Clay - buff & red mottled, pliable. 47.97% kaolin.
120.0'	121.0'	4171	Sandy Clay - grey, pliable, high illite and heavies. 37.95% kaolin.
121.0'	122.0'	4172	Clay - as previous. 47.34% kaolin.
122.0'	123.0'	4173	Sandy Clay - as previous. 42.08% kaolin.
123.0'	129.0'	4174	Sandy Clay - grey, fine grain, competent, purple laminations.

129.0'	135.0'	4175	Sandy Clay - as above, some yellow laminations associated with the purple laminations. 16.86% kaolin
135.0'	144.0'	4176	Kss - fine grain coarsening downsection to medium, lightening downsection from dark grey to white, increasing clay content downsection - large illite flakes. 6.28% kaolin
144.0'	145.0'	4177	Clay - yellow and grey banded, pliable, more yellow at upper contact. 84.23%
145.0'	156.0'	4178	Sandy Clay - light grey, large flake illite, especially at the upper contact. 18.89% kaolin.
156.0'	165.0'	4179	Kss - fine grain, white, with high illite content, minor heavies, increasing clay content, darker in high clay portions, large rounded smoky quartz and yellow 10.53% kaolin.
165.0'	175.0'	4180	Kss - as above, medium grain, with 2.0" medium grey with dark weathered surface dolostone clasts, fossiliferous - bryozoans - Devonian. 9.92% kaolin.
175.0'	183.0'	4181	Kss - medium grain, white, minor illite and heavies. 8.56% kaolin.
183.0'	190.0'	4182	Kss - coarse grain clasts in a clay-rich medium grain medium brown matrix. 8.35% kaolin.
190.0'	195.0'	4183	Kss - medium grain, white, low clay content, some grey and brown areas. 6.08% kaolin.
195.0'	198.0'	4184	Kss - as above from 195.0' - 196.5', 196.5' - 198.0' - coarse grain, rounded clasts in a clay matrix with light grey pliable clay clots. 9.85% kaolin.
198.0'	201.0'	4185	Kss - 198.0' - 199.5' - coarse as above, 199.5' - 201.0' - medium grain as above. 16.15% kaolin.
201.0'	203.0'	4186	Kss - medium grain, light grey - some haematite staining, minor illite and heavies. 8.71% kaolin.

203.0'	207.0'	4187	Kss - medium grain as above, red/brown & yellow/brown at lower contact. 6.76% kaolin.
207.0'	211.0'	4188	Kss - medium grain, coarsening downsection to coarse, some reddish areas at lower contact. 8.76% kaolin.
211.0'	215.0'	4189	Kss - alternating medium and coarse grain, as above. 7.47% kaolin.
215.0'	220.0'	4190	Kss - medium grain, coarsening downsection to coarse, at 217.0' - an irregular dark grey fossiliferous dolostone clast of 2.5", - crinoids, brachiopods, staining surrounding clay, dark grey. 6.86% kaolin.
220.0'	225.0'	41.91	Kss - coarse grain as above, minor illite and heavies, 8.86% kaolin.
225.0'	228.0'	4192	Kss - medium grain, low clay content, 5.24% kaolin.
228.0'	231.0'	4193	Kss - as above, 4.28% kaolin.
231.0'	235.0'	4194	Kss - as above, more clay, 5.49% kaolin.
235.0'	239.0'	4195	Kss - as previous, lower clay content, 5.29% kaolin.
239.0'	241.0'	4196	Kss - coarse grain, prevalent yellow brown colouration, 5.37% kaolin.
241.0'	244.0'	4197	Kss - fining downsection from coarse to medium grain, white, rounded clasts of smoky quartz, minor illite and heavies, 6.45% kaolin.
244.0'	248.0'	4198	Sandy Clay - buff, fine grain with chocolate brown clay laminations, 24.20% kaolin.
248.0'	249.0'	4199	Clay - competent, greasy, non-pliable, chocolate brown with lighter laminations, some carbonaceous material. 65.67% kaolin.
249.0'	255.0'	4200	Sandy Clay - as previous, interbedded with medium grain medium brown kss, minor illite. 27.14% kaolin.

EOH - 255.0'

Section 89-81

Claim No.: P 825805 Hole Length: 255.0' Overburden Depth: 64.0'

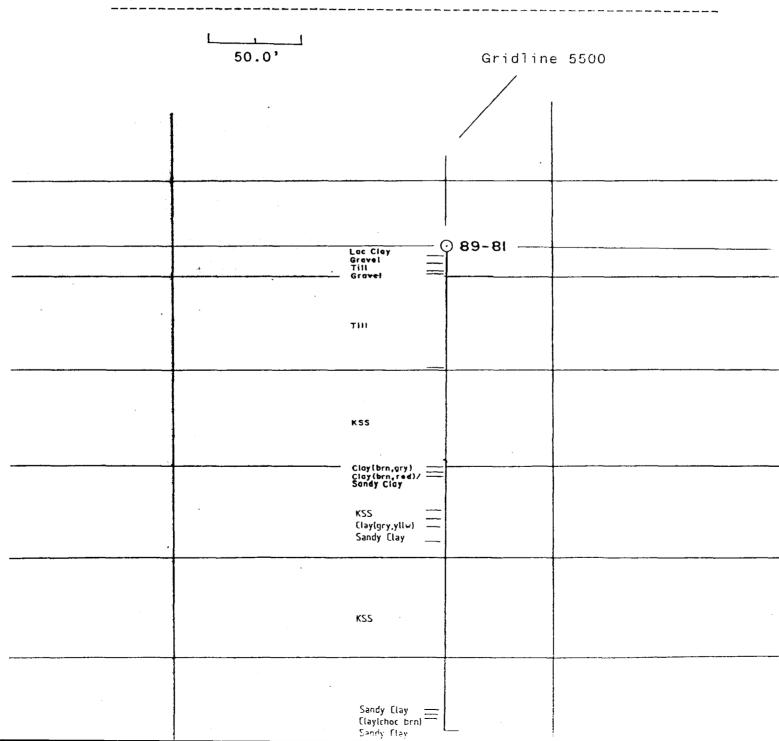
Astronomic Azimuth: 50° 08' 44" W. 82° 08' 47" N

Location: 1720.0' at 1930 to claim no. 1

Scale: 1.0" = 50.0' or 1:600 Northing: 200 S

Northing: 200 S Easting: 5500 E

Dip: -90°



Section 89-81

Claim No.: P 825802 Hole Length: 255.0'

Overburden Depth: 64.0'

Astronomic Azimuth: 50° 08' 44" W. 82° 08' 47" N Location: 1720.0' at 193° to claim no. 1 Scale: 1.0" = 50.0' or 1:600

Northing: 200 S Easting: 5500 E Dip: -90°

89-81 Gridline 5500 4151 10.94%
4152 8.84%
4153 6.23%
4154 6.23%
4155 6.57%
4155 6.56%
4157 5.72%
4158 6.95%
4159 8.55%
4161 11.95%
4161 11.95%
4161 11.95%
4161 11.95%
4161 11.95%
4161 11.95%
4161 11.95%
4161 11.95%
4161 11.95%
4161 11.95%
4161 11.95%
4172 47.34%
4173 47.34%
4173 47.34%
4173 47.34%
4174 6.28%
4175 18.55%
4176 6.28%
4177 42.88%
4178 8.56%
4178 8.56%
4179 8.56%
4179 6.56%
4179 6.56%
4179 6.56%
4179 6.67%
4179 6.67%
4179 6.67%
4179 6.67%
4179 6.67%
4179 6.65%
4179 6.67%
4179 6.67%
4179 6.67%
4179 6.65%
4179 6.67%
4179 6.65%
4179 6.65%
4179 6.65%
4179 6.65%
4179 6.65%
4179 6.65%
4179 6.65%
4179 6.65%
4179 6.65%
4179 6.65%
4179 6.65%
4179 6.65%
4179 6.65%
4179 6.65%
4179 6.65%
4179 6.65%
4179 6.65%
4179 6.65%
4179 6.65%
4179 6.65%
4179 6.65%
4179 6.65%
4179 6.65%
4179 6.65%
4179 6.65%
4179 6.65%
4179 6.65%
4179 6.65%
4179 6.65%
4179 6.65%
4179 6.65%
4179 6.65%
4179 6.65%
4179 6.65%
4179 6.65%
4179 6.65%
4179 6.65%
4179 6.65%
4179 6.65%
4179 6.65%
4179 6.65%
4179 6.65%
4179 6.65%
4179 6.65%
4179 6.65%
4179 6.65%
4179 6.65%
4179 6.65%
4179 6.65%
4179 6.65%
4179 6.65%
4179 6.65%
4179 6.65%
4179 6.65%
4179 6.65%
4179 6.65%
4179 6.65%
4179 6.65%
4179 6.65%
4179 6.65%
4179 6.65%
4179 6.65%
4179 6.65%
4179 6.65%
4179 6.65%
4179 6.65%
4179 6.65%
4179 6.65%
4179 6.65%
4179 6.65%
4179 6.65%
4179 6.65%
4179 6.65%
4179 6.65%
4179 6.65%
4179 6.65%
4179 6.65%
4179 6.65%
4179 6.65%
4179 6.65%
4179 6.65%
4179 6.65%
4179 6.65%
4179 6.65%
4179 6.65%
4179 6.65%
4179 6.65%
4179 6.65%
4179 6.65%
4179 6.65%
4179 6.65%
4179 6.65%
4179 6.65%
4179 6.65%
4179 6.65%
4179 6.65%
4179 6.65%
4179 6.65%
4179 6.65%
4179 6.65%
4179 6.65%
4179 6.65%
4179 6.65%
4179 6.65%
4179 6.65%
4179 6.65%
4179 6.65%
4179 6.65%
4179 6.65%
4179 6.65%
4179 6.65%
4179 6.65%
4179 6.65%
4179 6.65%
4179 6.65%
4179 6.65%
4179 6.65%
4179 6.65%
4179 6.65%
4179 6.65%
4179 6.65%
4179 6.65%
4179 6.65%
4179 6.65%
4179 6.65%
4179 6.65%
4179 6.65%
4179 6.65%
4179 6.65%
4179 6.65%
4179 6.65%
4179 6.65%

50.0

SONIC DRILL HOLE RECORD

Drilling Started: Mar. 4, 1989 Drilling Finished: Mar. 4, 1989

Drilling Co.: J. R. Drilling Dip: -90°

Hole Length: 250.0' Overburden Depth: 54.0' Claim Number: P 825802

Easting: 5550 E Northing: 050 N

Azimuth: 50° 08' 52" W. 82° 08'43" N.

Location: 830.0' at 193° To Claim Post No. 1

Property: Kipling

204.0' 212.0'

250.0'

212.0'

Logged By: A. Casselman Logged: April 12, 1989

Core Size: 3.5" Core Storage:

Mineral Research Canada

R. R. # 2

Parry Sound, ON

P2A 2W8

Hole No.: 89-82

SUMMARY			DESCRIPTION OF THE CASE OF THE
From	To	Description	
0.0'	5.0'	Peat	MAY 2 6 1995
5.0'	7.0'	Glacial Clay T	ill MINING LANDS BRANCH
7.0'	9.0'	Sand	
9.0'	54.0'	Glacial Clay T	ill- werburten Pleistocene
54.0'	87.75'	Kaolin Silica (
87.75'	90.0'	Clay	
90.0'	124.5'	Kss	MINERAL RESEARCH
124.5'	134.0'	Sandy Clay	MAKEY SOUND, OF THE MO
134.0'	204.0'	Kss	CANADA PRO LW8 FAX (705) 378-5128 M BUS (797) 378-2418
		į.	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \

EOH - 250.0'

Clay

Kss

Detail Log - 89-82

From	То	Sample No.	Description
0.0'	5.0'		Peat
5.0'	7.0'		Glacial Clay Till - dark brown, rare clast - predominantly gneissic and carbonate - up to 2.0", competent.
7.0'	9.0'		Sand - fine grain coarsening downsection to medium grain.
9.0'	54.0'		Glacial Clay Till - as above.
54.0'	61.5'	4201	Kss - well sorted, fine grain, white, 54.0' - 55.0' - yellow colouration, 57.0' - 59.0' - light grey/brown. 12.05% kaolin.
61.5'	65.0'	4202	Kss - well sorted, fine grain, light grey. 10.08% kaolin.
65.0'	70.0'	4203	Kss - 65.0' - 69.5' - as above, high moisture content, some yellow banding, 69.5' - 70.0' - well sorted, medium grain, light grey. 76.85% GE brightness. 6.76% kaolin.
70.0'	75.0'	4204	Kss - as above, white. 70.66 GE brightness. 7.92% kaolin.
75.0'	78.0'	4205	Kss - well sorted, fine grain, dark grey to yellow brown, high moisture content. 65.90% GE brightness. 8.10% kaolin.
78.0'	82.0'	4206	Kss - well sorted, medium grain, light grey to white, some yellow. 66.67% GE brightness. 6.86% kaolin.
82.0'	87.75	4207	Kss - as above, with 1.0" light grey clay clots from 82.0' - 87.0', 87.0' - 87.75' - coarser grain, increased percentage of clay clots. 75.15 GE brightness. 9.65% kaolin.
87.75'	90.0'	4208	Clay - light grey to yellow, competent, friable, more pliable downsection. 64.20 GE brightness. 71.47 % kaolin.
90.0'	96.0'	4209	Kss - well sorted, medium grain, light grey to yellow. 62.74 GE brightness. 12.89% kaolin.

96.0'	100.0'	4210	Kss - as above. 69.21 GE brightness. 12.89% kaolin.
100.0'	105.0'	4211	Kss - 100.0' - 102.25' - as above - light grey, 102.25' - 103.0' - yellow colour, 103.0' - 104.0' - sandy clay - light grey, 104.0' - 105.0' - kss - well sorted, medium grain, yellow/grey to light yellow. 75.38 GE brightness. 15.65% kaolin.
105.0'	109.0'	4212	Kss - 105.0' - 108.0' - well sorted, fine grain, yellow, 108.0' - 108.5' - sandy clay - fine grain, yellow/white, 108.5' - 109.0' - fine grain, light grey to white. 68.29 GE brightness. 8.00% kaolin.
109.0'	113.0'	4213	Kss - 109.0' - 112.0' - as above, 112.0' - 113.0' - white/yellow. 66.98% GE brightness. 5.95% kaolin.
113.0'	117.0'	4214	Kss - as above, with yellow clots. 72.00 GE brightness. 7.72% kaolin.
117.0'	122.0'	4215	Kss - well sorted, medium grain, white, coarser from 121.0' - 122.0'. 7.47% kaolin.
122.0'	124.5'	4216	Kss - medium grain, coarsening downsection, increasing clay content downsection, white grading downsection to yellow/brown. 18.37 GE brightness, 7.29% kaolin.
124.5'	127.0'	4217	Clay - pliable, red and buff mottled, dark purple/red at upper contact, 51.06% kaolin.
127.0'	129.0'	4218	Sandy Clay - red & buff mottled as above, grading downsection into typical grey sandy clay with purple laminations, minor illite and heavies. 75.00 GE brightness, 37.95% kaolin.
129.0'	134.0'	4219	Sandy Clay - as above, with darker convolute laminations. 73.64% GE brightness, 21.52% kaolin.
134.0'	139.0'	4220	Kss - lightening downsection, decreasing clay content downsection, light grey. 73.49 GE brightness, 14.46% kaolin.
139.0'	144.0'	4221	Kss - coarsening downsection from fine grain to medium grain, minor light grey clay clots, heavies banding and minor illite. 69.40 GE brightness, 7.37% kaolin.
144.0'	149.0'	4222	Kss - as above, medium to coarse grain.

74.55	GE	brightness,	7.	. 19%	kaolin	
-------	----	-------------	----	-------	--------	--

149.0'	154.0' 4223	Kss - coarse grain, high percentage yellow chert, average to low clay content, minor illite and heavies. 75.00 GE brightness, 6.48% kaolin.
154.0'	158.0' 4224	Kss - fining downsection from coarse to medium grain, light grey, minor illite and heavies. 74.97 GE brightness, 7.90% kaolin.
158.0'	162.0' 4225	Kss - medium grain, white, purple clay clots at 161.75' - high clay content. 66.77 GE brightness, 12.84% kaolin.
162.0'	166.0' 4226	Kss - as above, no purple. 75.16 GE brightness, 10.18% kaolin.
166.0'	170.0' 4227	Kss - as above, increasing clay content downsection - some brown clay bands at 169.75'. 74.39 GE brightness, 12.61% kaolin.
170.0'	175.0' 4228	Kss - as above from 175.0' - 174.5', 174.5' - 175.0' - medium grain with coarser clasts, rounded yellow chert and smoky quartz. 72.78 GE brightness, 17.67% kaolin.
175.0'	179.0' 4229	Kss - coarse grain to extremely coarse grain, medium grey to white with pliable light brown finely laminated clay clots and seams, grading downsection to medium grain. 74.23 GE brightness, 12.35% kaolin.
179.0'	183.0' 4230	Kss - fining and lightening downsection to light grey, 0.5" of coarse grain material at upper contact. 72.13 GE brightness, 6.20% kaolin.
183.0'	187.0' 4231	Kss - medium grain, white, minor illite and heavies, some areas of higher clay content. 78.73 GE brightness, 7.97% kaolin.
187.0'	193.0' 4232	Kss - medium grain, with purple grey sections with frequent larger 0.75" - 0.5" rounded clasts of yellow chert and smoky quartz. 75.07 GE brightness, 5.77% kaolin.
193.0'	197.0' 4233	Kss - coarse grain, medium grey, minor illite and heavies. 71.95 GE brightness, 8.25% kaolin.
197.0'	201.0' 4234	Kss - medium grain, medium to dark grey, high heavies content, minor illite, sharp

contact with very coarse grain material with clasts up to 3.0", smoky quartz and yellow chert in a light grey clay matrix at 199.0', also a 3.0" siliceous dolostone clast, light grey with a darker weathered surface, fossiliferous - colonial coral - Devonian. 75.75 GE brightness, 7.82% kaolin.

Kss - as above, some minor light grey pliable clay clots. 77.34 GE brightness,

			fossiliferous – colonial coral – Devonian. 75.75 GE brightness, 7.82% kaolin.
210.0'	204.0'	4235	Kss - white, coarse grain, minor illite and heavies, 3.92% kaolin.
204.0'	210.0'	4236	Clay - competent, weakly pliable, colour gradation from grey to yellow to yellow/brown to red/brown, to buff/green to green & red mottled to red & buff mottled, kss - white medium grain at 204.75' - 205.25', 65.22% kaolin.
210.0'	212.0'	4237	Clay - black, competent, fissile grading to black sandy clay, high illite content, grading to medium brown pliable clay interbedded with medium grain, medium brown kss, 42.61% kaolin.
212.0'	217.0'	4238	Kss - white, medium grain, minor illite and heavies. 72.73 GE brightness, 11.39% kaolin.
217.0'	222.0'	4239	Kss - as above, coarsening downsection. 76.59 GE brightness, 8.28% kaolin.
222.0'	225.0'	4240	Kss - as above, medium to coarse grain, dried. 74.92 GE brightness, 9.34% kaolin.
225.0'	230.0'	4241	Kss - medium to light grey, alternating medium and coarse grain, sections, areas of high clay content, 0.5" light grey pliable clay clots, minor illite and heavies. 73.90 GE brightness, 12.81% kaolin.
230.0'	235.0'	4242	Kss - as above, high illite content. 72.00 GE brightness, 10.03% kaolin.
235.0'	240.0'	4243	Kss - coarse grain clasts in a medium grain matrix alternating with medium grain, minor illite and heavies, dried. 79.78 GE brightness, 10.00% kaolin.
240.0'	245.0'	4244	Kss - medium grain, white, minor illite and heavies. 78.29 GE brightness, 6.96% kaolin.

245.0' 250.0' 4245

-	_	701	1	7		
1	ч	/ 4%	ka	\cap 1	1 1	<u>ე</u>

EOH - 250.0'

Section 89-82 Claim No.: P 825802 Hole Length: 250.0' Overburden Depth: 54.0' Astronomic Azimuth: 50° 08' 52" W. 82° 08' 43" N Location: 830.0' at 1930 to claim post no. 1 Scale: 1.0" = 50.0' or 1:600 Northing: 050 N Easting: 5550 E Dip: -900 50.0' Gridline 5600 0 89-82 Peat Titt KSS Clay(It gry,yel) == Clayfred, Ithrn) Sandy Clay KSS Clay(blk)

KSS

367

ROTARY DRILL HOLE RECORD

Location: 21 Property: Ki	1 ished: Ma Midwest 221.0' 2 epth: 65. 3: P 82580 50 E 60 S 08' 39" W	r. 15, 1989 O' 5 W. 82° 08' 39" 99° To Claim Po	
SUMMARY			
From	To	Description	
0.0' 5.0'	5.0' 18.0'	Peat Sand	
18.0'	20.0'	Gravel	2,16012
20.0'	65.0'	Glacial Clay	Till-Overburden - Pleistocene
65.0'	69.0'	Kaolin Silica	a Sand (Kss)
69.0'	71.0'	Clay	RECEIVED
71.0'	94.0'	Kss	MAY 2 6 1995
94.0'	95.0'	Clay	MINING LANDS BRANCH
95.0'	107.5'	Kss	
107.5'	108.5'	Clay	MINERAL ASSEARCH
108.5'	111.5'	Sandy Clay	mu 100 100
111.5'	113.5'	Clay	FAX (705) 378-5123 BUS (705) 378-2416

Clay

Sandy Clay

Sandy Clay

Kss

Clay

Kss

133.0'

193.0'

196.0'

197.0'

208.0'

221.0'

113.5'

133.0'

193.0'

196.0'

197.0'

208.0'

Detail Log - 89-104

From	То	Sample No.	Description
0.0'	5.0'		Peat
5.0'	18.0'		Sand - green/grey, medium to coarse grain.
18.0'	20.0'		Gravel - grey with light green colour, coarse clasts up to 5.0".
20.0'	65.0'	12301 12302	Glacial Clay Till - green/grey colour (light grey/black colour from 20.0' - 25.0') up to 15.0% clasts that range from 0.5" - 2.0", predominantly carbonate lithologies, 60.0' - 65.0' - kss encorporations.
65.0'	69.0'	12303	Kss - poorly sorted, fine to coarse grain, white to light grey, 2.0" clay layer, light green, yellow at 67.0', 68.5' - 69.0' - yellow. 12.84% kaolin.
69.0'	70.0'	12304	Clay - 69.0' - 69.25' - pliable, light yellow/green, 69.25' - 70.0' - kss - well sorted, medium grain, light brown. 31.34% kaolin.
70.0'	71.0'	12305	Clay - medium competency, pliable to friable, light brown. 69.11% kaolin.
71.0'	76.0'	12306	Kss - well sorted, fine grain, 71.0' - 72.0' - light grey/yellow, 72.0' - 74.0' - white, 74.0' - 76.0' - light grey. 8.15% kaolin.
76.0'	81.0'	12307	Kss - 76.0' - 80.0' - well sorted, medium grain, white and grey banding, 80.0' - 81.0' - poorly sorted, medium grain, light grey, 8.46% kaolin.
81.0'	86.0'	12308	Kss - 81.0' - 85.0' - poorly sorted, medium to coarse grain, light grey to white, 85.0' - 86.0' - kss - well sorted, fine grain, white. 7.95% kaolin.
86.0'	91.0'	12309	Kss - well sorted, fine to medium grain, occasional large clast of 0.25", white to light grey. 8.30% kaolin.

91.0'	94.0'	12310	Kss - poorly sorted, medium to coarse grain, light grey & yellow at lower contact, clay contamination. 9.37% kaolin.
94.0'	95.0'	12311	Clay - medium competency, pliable, light yellow at upper contact, contaminated with silica, medium brown. 72.91% kaolin.
95.0'	101.0'	12312	Kss - well sorted, fine grain, 95.0' - 98.0' - white to light grey, 98.0' - 101.0' - white with faint yellow tinge. 8.23% kaolin.
101.0'	106.0'	12313	Kss - well sorted, medium grain, white with rare yellow clots. 9.39% kaolin.
106.0'	107.5'	12314	Kss - poorly sorted, medium grain, grey from 107.0' - 107.5', yellow/brown, rare thin pliable clay layers. 19.24% kaolin.
107.5'	108.5'	12315	Clay - pliable, rust to wine coloured. 70.13% kaolin.
108.5'	111.5'	12316	Sandy Clay - light grey, light green at upper contact. 33.92% kaolin.
111.5'	113.5'	12317	Clay - as previous. 46.89% kaolin.
113.5'	114.25'	12318	Sandy Clay - competent, light brown to red brown. 50.25% kaolin.
114.25'	120.0'	12319	Sandy Clay - fine grain, light grey - 118.0' - 118.5' - apparent peat. 24.71% kaolin.
120.0'	126.0'	12320	Sandy Clay - grading from buff to grey, fine grain, pliable, minor illite and some purple staining, 30.33% kaolin.
126.0'	131.0'	12321	Sandy Clay - grey, some haematite staining, some purple at 130.5', pliable, minor illite and heavies, 20.81% kaolin.
131.0'	133.0'	12322	Sandy Clay - as above, 21.24% kaolin.
133.0'	141.0'	12323	Kss - medium to fine grain, white to light grey - low clay content, minor illite and heavies, some rust staining in lower portion, slight coarsening downsection, higher clay content downsection, 6.61% kaolin.
141.0'	146.0'	12324	Kss - coarsening downsection to medium

grain, as above, 9.11% kaolin.

146.0'	151.0'	12325	Kss - fining downsection to medium grain from coarse grain, light brown, darkening downsection, lesser clay content, 5.90% kaolin.
151.0'	156.0'	12326	Kss - as above, rare larger rounded smoky quartz in a medium grain matrix, 5.47% kaolin.
156.0'	161.0'	12327	Kss - medium grain, low clay content, rare larger smoky quartz, minor illite, 9.55% kaolin.
161.0'	166.0'	12328	Kss - as above, dried, some areas of larger silica in a clay matrix, large percentage yellow chert, darkening downsection, large fossiliferous (colonial coral) - Devonian sandstone clast, grey - dark weathered surface, light grey fresh surface, 12.91% kaolin.
166.0'	171.0'	12329	Kss - as above, rare light grey pliable clay clots - 0.25", some purple, 18.03% kaolin.
171.0'	176.0'	12330	Kss - rust brown, medium grain, low clay content, minor coarse interbedding, 7.37% kaolin.
176.0'	181.0'	12331	Kss - as above, 9.55% kaolin.
181.0'	186.0'	12332	Kss - as above, 9.72% kaolin.
186.0'	191.0'	12333	Kss - as above, 10.15% kaolin.
191.0'	193.0'	12334	Kss - as above, coarse portion at lower contact, 9.06% kaolin.
193.0'	196.0'	12335	Clay - light brown grading to chocolate brown, minor kss seams with large clast size, rounded yellow chert and smoky quartz, 56.68% kaolin.
196.0'	197.0'	12336	Kss - black, coarse grain, with larger clasts - rounded yellow chert and smoky quartz, 11.06% kaolin.
197.0'	202.0'	12337	Sandy Clay - black & chocolate brown, high illite, an area/seam of high illite & rounded yellow chert clasts, <i>in situ</i> pyrite/marcasite formation prolate - some yellow sulphureous seams, 46.03% kaolin.

202.0'	208.0'	12338	Sandy Clay - as above, 49.70% kaolin.
208.0'	213.0'	12339	Clay - black, pliable, large fossiliferous wood pieces - polydrill, 77.70% kaolin.
213.0'	219.0'	12340	Clay - as above, no polydrill, 73.20% kaolin.
219.0'	221.0'	12341	Clay - some sulphureous sections, 63.70% kaolin.

EOH - 221.0'

Section 89-104 Claim No.: P 825805 Hole Length: 220.0' Overburden Depth: 65.0' Overburden Depth: 65.0° Astronomic Azimuth: 50° Q8' 39" W. 82° Q8' 39" N Location: 2140.0' at 1990 to claim post no. 1 Scale: 1.0" = 50.0' or 1:600 Northing: 340 S Easting: 5650 E Dip: -90° 50.0' Gridline 5700 0 89 - 104 Pent Sond Gravel Titt KSS Cloy(yel-grnVKSS) Cloy(it yel-brn) KSS Clay(It yet) KSS
Clay(rust,wine)
Sandy Clay
Clay(rust,wine) Sandy Clay KSS Clay(It brn,choc Sandy Clay Clay(blk)

Section 89-104 Claim No.: P 825805 Hole Length: 220.0' Overburden Depth: 65.0' Astronomic Azimuth: 50° 08' 39" N, 82° 08' 39" W Location: 2140.0' at 199° to claim post no. 1 Scale: 1.0" = 50.0' or 1:600 Northing: 340 S Easting: 5650 E Dip: -90° 50.0' Gridline 5700 89-104 12381 12302 12303 12.86%
12304 31.36%
12305 49.11%
12306 8.15%
12307 8.66%
12308 9.37%
12309 6.30%
12318 9.37%
12319 9.37%
12313 9.39%
12313 9.39%
12313 9.39%
12314 6.89%
12317 66.89%
12317 66.89%
12318 58.25%
12319 26.87%
12312 12.16%
12313 12.55%
12313 12.55%
12314 12.55%
12313 12.55%
12313 12.55%
12313 12.55%
12313 12.55%
12313 12.55%
12313 12.55%
12313 12.55%
12313 12.55%
12313 12.55%
12313 12.55%
12313 12.55%
12313 12.55%
12313 12.55%
12313 12.55%
12313 12.55%
12313 12.55%
12313 12.55%
12313 12.55%
12313 12.55%
12313 12.55%
12313 12.55%
12313 12.55%
12313 12.55%
12313 12.55%
12313 12.55%
12313 12.55%
12313 12.55%
12313 12.55%
12313 12.55%
12313 12.55%
12313 12.55%
12313 12.55%
12313 12.55%
12313 12.55%
12313 12.55%
12313 12.55%
12313 12.55%
12313 12.55%
12313 12.55%
12313 12.55%
12313 12.55%
12313 12.55%
12313 12.55%
12313 12.55%
12313 12.55%
12313 12.55%
12313 12.55%
12313 12.55%
12313 12.55%
12313 12.55%
12313 12.55%
12313 12.55%
12313 12.55%
12313 12.55%
12313 12.55%
12313 12.55%
12313 12.55%
12313 12.55%
12313 12.55%
12313 12.55%
12313 12.55%
12313 12.55%
12313 12.55%
12313 12.55%
12313 12.55%
12313 12.55%
12313 12.55%
12313 12.55%
12313 12.55%
12313 12.55%
12313 12.55%
12313 12.55%
12313 12.55%
12314 12.55%
12315 12.55%
12315 12.55%
12315 12.55%
12315 12.55%
12315 12.55%
12315 12.55%
12315 12.55%
12315 12.55%
12315 12.55%
12315 12.55%
12315 12.55%
12315 12.55%
12315 12.55%
12315 12.55%
12315 12.55%
12315 12.55%
12315 12.55%
12315 12.55%
12315 12.55%
12315 12.55%
12315 12.55%
12315 12.55%
12315 12.55%
12315 12.55%
12315 12.55%
12315 12.55%
12315 12.55%
12315 12.55%
12315 12.55%
12315 12.55%
12315 12.55%
12315 12.55%
12315 12.55%
12315 12.55%
12315 12.55%
12315 12.55%
12315 12.55%
12315 12.55%
12315 12.55%
12315 12.55%
12315 12.55%
12315 12.55%
12315 12.55%
12315 12.55%
12315 12.55%
12315 12.55%
12315 12.55%
12315 12.55%
12315 12.55%
12315 12.55%
12315 12.55%
12315 12.55%
12315 12.55%
12315 12.55%
12315 12.55%
12315 12.55%
12315 12.55%
12315 12.55%
12315 12.55%
12315 12.55%
12315 12.55%
12315 12.55%
12315 12.55%
12

SONIC DRILL HOLE RECORD

Drilling Started: Mar. 14, 1992
Drilling Finished: Mar. 15, 1992
Drilling Co.: J. R. Drilling
Dip: -90°
Hole Length: 250.0'
Overburden Depth: 145.5'
Claim No: P 825792
Easting: 4900 E

Logged By: A. Casselman
Logged: Sept. 8, 1992
Core Size: 3.5"
Core Storage:
Mineral Research Canada
R. R. # 2
Parry Sound ON P2A 2W8
Hole No.: 92-3

Easting: 4900 E Northing: 840 N

Azimuth: 50° 09' 10" N, 82° 09' 32" W

Location: 530.0' at 253° to Claim Post No. 1

Property: Kipling

SUMMARY

2.16012

From	То	Description	RECEIVED
0.0'	145.5'	Glacial Clay Till - Over	burden – Pleistocene
145.5'	165.0'	Clay	MAY 2 6 1995 Cretaceous
165.0'	177.5'	Kaolin Silica Sand (Kss)	MINING LANDS BRANCH
177.5'	182.0'	Clay	
182.0'	186.0'	Sandy Clay	IMERAL RESEARCH
186.0'	240.0'	Kss	PARRY SOUND, ONTARIO PANADA F24/2W8
240.0'	242.75'	Sandy Clay FAX (7 DATE	05) 378 51331 80 (755) 378-2416
242.75'	250.0'	Kss	

From	То	Sample	No. Description
0.0'	134.0'		Glacial Clay Till - highly competent, calcareous, 129.0' - 130.0' - interlayered red & medium grey, 130.0' - dark green, highly calcareous, up to 35.0% clasts, predominantly carbonate, some gneissic angular, red, highly calcareous also, pieces of drill bit, medium grey sandy clay, red exterior coating - kaolin based - non-calcareous, competent, weakly pliable, 130.0' - 134.0' - predominantly red, mould in exposed sections.
134.0'	141.5'	16401	Glacial Clay Till - red as above, 49.08% kaolin.
141.5'	146.5'	16402	Glacial Clay Till - interbedded red & dark green (typical till) from 141.5 - 145.5', at 145.5' - a 0.5" kss seam centre white, red exterior coating and contacts, lower contact with 1.0" dark green till contacting with medium grey/brown Cretaceous clay, finely laminated with light grey, dark brown & red, 67.54% kaolin.
146.5'	152.0'	16403	Clay - pliable, competent, 145.5' - 149.0' - red and light grey mottled - predominantly red, kss - 0.25" at 146.25' - medium grain, red, some black with the light grey, 149.0 - 151.0' - light to medium grey mottled, high illite content, grey alternating with grey to red to buff mottled then yellow/brown (red & yellow/brown) together in a wavy pattern, 0.5" wider band of 1.0" medium and light grey to yellow brown, 0.5" of medium & light grey with some mottling, to red with minor buff mottling 0.25', then 0.25' of grey with minor red mottling, 151.0' - 152.0' - 0.75' of red with minor buff mottling, last 0.25' - medium grey with minor red, much darker, minor carbonaceous pieces, 63.49% kaolin.
152.0'	155.0'	16404	Clay - competent, pliable, more gooey than above, medium grey, some carbonaceous material, red/brown, mottling, not as

strong as above, predominantly grey, 154.5' - 154.75' - mottling with light yellow/green/red/grey, 68.58% kaolin.

fissile, carbonaceous mater downsection, chocolate bro black, fissility increasin chocolate brown containing discontinuous laminations, fragments at 158.0' - black 159.0', 70.56% kaolin.	own grading to ng downsection, g darker lignite
--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	----------------------------------------------------------

- 159.0' 163.0' 16406 Clay black, fissile, competent, some dark brown discontinuous laminating, carbonaceous, 60.51% kaolin.
- 163.0' 165.0' 16407 Clay black, highly fissile, becoming more pliable, downsection, at contact with kss, there is approximately 5.0" of black sandy clay with high illite content, relatively sharp contact with kss, disc-like greasy conchoidal-like fracture, 57.39% kaolin.
- 165.0' 167.0' 16408 Kss first 0.75' 0 hematite/limonite stained rusty yellow colour, then a dark grey band bimodal distribution medium grain, in a fine grain matrix with some coarser smoky quartz and yellow chert well rounded to white at 166.0' 2.0" chocolate brown kss under finer grain grading to previous material from yellow/brown to white, 7.04% kaolin.
- 167.0' 172.0' 16409 Kss white, medium grain, frequent larger rounded smoky quartz & yellow chert, minor illite and heavies, some purple sections especially in clay-rich lower section, chocolate brown exterior coating, clasts up to 1.0", lower section has a large percentage chocolate brown, probably due to drill action, lower section is coarse grain in a white clay matrix, Devonian sandstone angular fragment at 169.0', powdery limonite areas as contacts with yellow chert, 18.33% kaolin.
- 172.0' 177.5' 16410 Kss medium grey, very coarse grain, in a fine grain matrix, grading downsection to a medium grain matrix, rounded larger clasts of smoky quartz and yellow chert up to 1.0", minor clay clots, pliable buff, red exterior coating, minor illite and heavies, sharp contact with underlying

clay, 14.87% kaolin.

172.0'	181.0'	16411	Clay - medium grey with red and yellow mottling, red centrally, yellow exterior and yellow bands, some purple from 177.5' - 179.0', 5.0" of kss - white medium grain, red exterior coating at 179.0', 179.0' - 181.0' - red with light buff mottling, more buff downsection - 2.0" of buff & yellow at upper contact with kss, some green with upper yellow, highly competent, fissile becoming predominantly mouldy, red most pliable, 45.59% kaolin.
181.0'	182.0'	16412	Clay - red, some buff mottling at lower sandy clay contact, competent, and fissile, illitic, 46.86% kaolin.
182.0'	184.0'	16413	Sandy Clay - buff, illitic, darker discontinuous laminations, some purple and yellow areas, 182.5' - clay seam of 4.0" - weakly red & yellow - one very fine concord purple lamination at the lower contact, very fine grain silica, 41.87% kaolin.
184.0'	186.0'	16414	Sandy Clay - buff, pliable, illitic, as above, no yellow, 40.41% kaolin.
186.0'	190.0'	16415	Kss - reddish at upper contact, white, minor illite and heavies, one sandy clay seam - buff, pliable with purple sections at 187.0' - 1.5", exterior red and yellow coating, 11.37% kaolin.
190.0'	196.0'	16416	Kss - as above, upper 2.0', more illite- rich, 6.91% kaolin.
196.0'	198.0'	16417	Kss - white, medium grain, rare larger smoky quartz clasts, minor illite and heavies, increasing percentage downsection, 7.77% kaolin.
198.0'	203.0'	16418	Kss - medium grain, light buff, frequent larger smoky quartz, coarser grain, in a medium grain matrix, high percentage heavies, minor illite, 198.0' - 201.0' - from 201.0' - 202.25' - white, medium grain, much lower percentage of heavies and illite, no larger clasts, 202.25' - 203.0' - as previous, extremely high concentration of heavies, dark grey clay, yellow chert, 6.46% kaolin.

203.0' 208.0' 16419 Kss - at 203.0' - 233.25' - dark grey

extremely high percentage heavies with large rounded smoky quartz and yellow chert in medium grain, 203.25' - 203.75' - medium grain, white, minor illite and heavies, 203.75' - 204.0' - dark grey as previous, 204.0' - 205.0' - white, fine grain, coarsening downsection to medium grain, minor illite and heavies, some heavies banding causing grey sections, at 204.5' - 2.0" band of coarse clasts - up to 1.5" rounded vari-coloured silicas with a buff clay coating, 6.23% kaolin.

- 208.0' 211.0' 16420 Kss medium grain, white, minor illite and heavies banding creating darker sections, 5.67% kaolin.
- 211.0' 217.0' 16421 Kss coarse grain, white, some medium grey sections, especially at 213.5', 4 Devonian fragments found, angular, dark grey, coral, bryozoans, crinoids, brachiopods, quite pitted, vari-coloured rounded to sub-rounded silica, bi-modal very coarse in a coarse grain matrix, 7.57% kaolin.
- 217.0' 221.0' 16422 Kss coarse grain, as above, grading to less clay-rich rusty buff, coarse grain with fewer very large clasts, minor illite and heavies, vari-coloured silicas, 5.32% kaolin.
- 221.0' 225.0' 16423 Kss coarse grain, clasts up to 1.5", light buff, minor illite and heavies, 2.0" sandstone clast, fine grain, sub-rounded dark brown, weathered surface, lighter interior, pitted, one aster-like brown section, some darker laminations, apparent exterior in situ sulphide formation pyrite crust in certain areas as well as some pits, Devonian, 10.61% kaolin.
- 225.0' 229.25' 16424 Kss extremely coarse grain in a medium grain matrix, light grey, minor illite and heavies, sub-rounded to rounded varicoloured silicas, 8.15% kaolin.
- 229.25' 233.0' 16425 Kss medium grain, white, minor illite and heavies, higher than normal percentage illite, larger flake than normal, minor heavies banding, clay-enrichments in bands, garnet banding, very fine grain garnet, 7.65% kaolin.
- 233.0' 237.0' 16426 Kss as above, 5.85% kaolin.

237.0'	240.0'	16427	Kss - medium grain, white, minor illite and heavies, 2.0" buff pliable clay clot at lower contact with sandy clay, heavies as banding, coarse at contact, 10.00% kaolin.
240.0'	242.75'	16428	Sandy Clay - buff, pliable, minor purple sections, minor illite and heavies, 35.34% kaolin.
242.75'	245.0'	16429	Kss - light grey, fine grain, high percentage heavies, minor illite, 13.39% kaolin.
245.0'	250.0'	16430	Kss - fine grain, as above, coarsening downsection to medium grain portion, minor illite and heavies, & heavies as banding, 7.54% kaolin.

EOH - 250.0'

Section 92-3

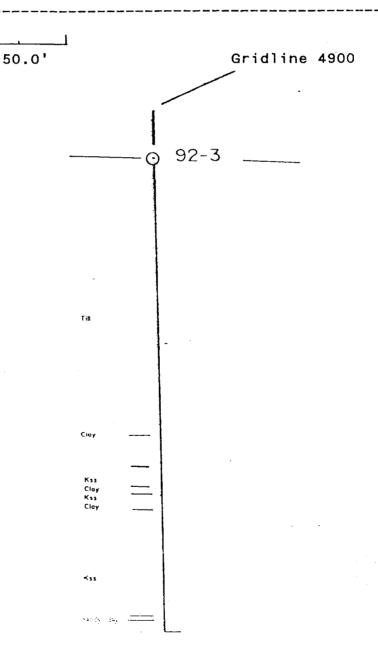
Claim No.: P 825792 Hole length: 250.0'

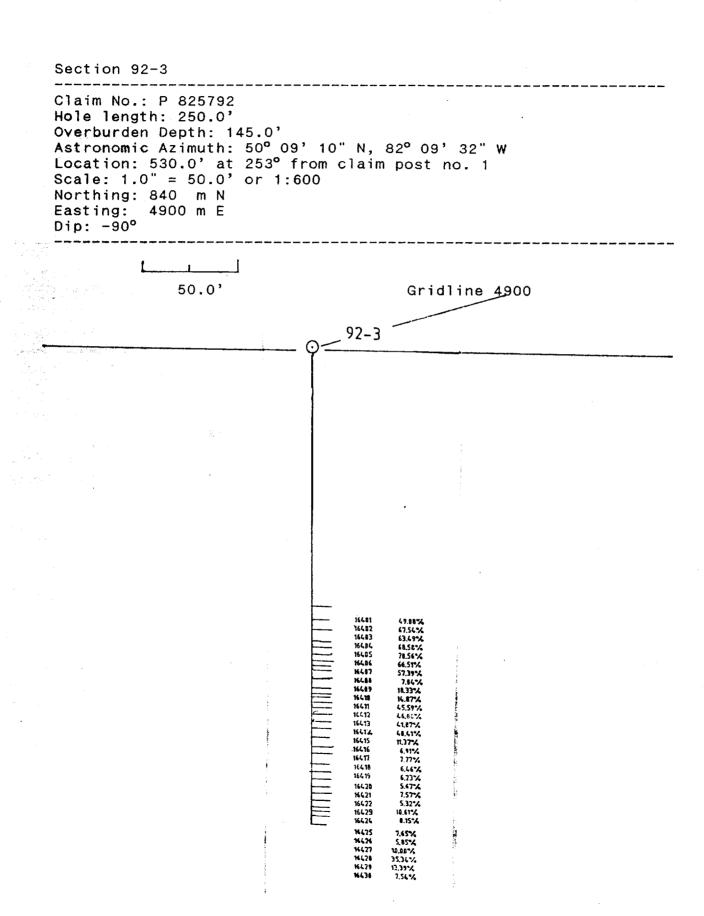
Overburden Depth: 145.0'

Astronomic Azimuth: 50° 09' 10" W. 82° 09' 32" N Location: 530.0' at 253° from claim post no. 1 Scale: 1.0" = 50.0' or 1:600

Northing: 840 m N Easting: 4900 m E

Dip: -90°





ROTARY DRILL HOLE RECORD

Drilling Started: Feb. 9, 1989 Logged By: A. Casselman Drilling Finished: Feb. 10, 1989 Logged: April 5, 1993 Drilling Co.: Midwest Dip: -90° Core Size: 3.5" Core Storage: Hole Length: 196.0' Mineral Research Canada R. R. # 2 Overburden Depth: 191.25' Claim No.: P 1089109 Parry Sound, ON P2A 2W8 Easting: 14200 E Northing: BL 000 Hole No.: 89-203

Azimuth: 50° 08' 50" W. 82° 00' 43" N.

Location: 1650.0' at 222° To Claim Post No.1

Property: Emerson

SUMMARY			2.	16012
From	То	Description		
0.0'	4.0'	Peat		
4.0'	9.5'	Fluvial Sediments		
9.5'	191.25'	Glacial Clay Till & Sand		Pleistocene
191.25'	196.0'	Sandy Clay		Cretaceous

EOH - 196.0'

RECEIVED

MAY 2 6 1995

MINING LANDS BRANCH

Detai	1 Log -	89-203
-------	---------	--------

	•		
From	То	Sample No.	Description
0.0'	4.0'		Peat
4.0'	9.5'		Fluvial Sediments - medium brown, very fine grain silty clay, pliable, clast-free.
9.5'	191.2	5'	Glacial Clay Till & Sand — alternating, till — competent, calcareous, dark green/brown, some areas silty with a conchoidal fracture, frequent gneissic and carbonate clasts, alternating with sections of sand & gravel, slight clay content, dark green, predominantly carbonate and silica fragments, biotite, etc., lower contact large rounded gneissic clasts.
191.25'	196.0	' 17051	Sandy Clay - buff, illitic, competent, disc-like, dried, grading to buff clay, competent, disc-like, dried, highly moulded, 49.90% kaolin.

EOH - 196.0'

Section 89-203

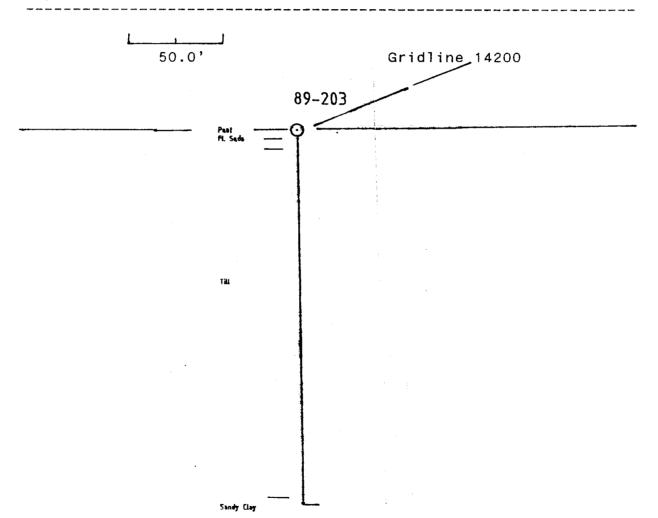
Claim No.: P 1089109 Hole Length: 196.0'

Overburden Depth: 191.25'

Astronomic Azimuth: 50° 08' 50" W. 82° 00' 43' N Location: 1650.0' at 222° to claim post no. 1 Scale: 1.0'' = 50.0' or 1:600

Northing: BL 000 Easting: 14200 E

Dip: -90°



Section 89-203

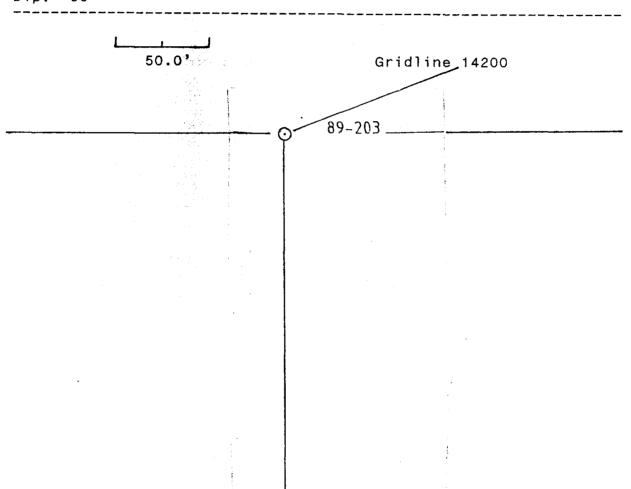
Claim No.: P 1089109 Hole Length: 196.0'

Overburden Depth: 191.25' Astronomic Azimuth: 50° 08' 50° W. 82° 00' 43' N Location: 1650.0' at 2220 to claim post no. 1

Scale: 1.0" = 50.0' or 1:600

Northing: BL 000 Easting: 14200 E

Dip: -90°



RECEIVED

MAY 2 6 1995

b00080

ROTARY DRILL HOLE RECORD

MINING LANDS BHANCH

Drilling Started: Feb. 12, 1989 Drilling Finished: Feb. 12, 1989

Drilling Co.: Midwest

Dip: -90°

Hole Length: 150.0'

Overburden Depth: 111.0'

Claim No.: P 1090037 Easting: 11800 E

Northing: 800 N

Azimuth: 50° 09' 12" N, 82° 02' 56" W

Location: 1150.0' at 269° To Claim Post No. 1

Logged By: A. Casselman Logged: April 6, 1989

Core Size: 3.5" Core Storage:

Mineral Research Canada

R. R. # 2

Parry Sound, ON

P2A 2W8 P2A 2W8 Hole No.: 2-21216012

Property: 89-212

SUMMARY

From	То	Description
0.0'	4.75'	Peat
4.75'	47.0'	Glacial Clay Till
47.0'	54.25'	Sand MINERAL RESEARCH
54.25'	57.0'	Glacial Clay Till PARKY 200 DP. ONTARIO CANADA P2A 2W8
57.0'	73.0'	Sand FAX (705) 378-5125/ 105/378-29185
73.0'	94.0'	Glacial Clay Till
94.0'	107.0'	Sand
107.0'	111.0'	Glacial Clay Till - Overburden - Pleistocene
111.0'	123.0'	Clay - Cretaceous
123.0'	125.0'	Sandy Clay
125.0'	130.0'	Clay & Sandy Clay
130.0'	133.0'	Clay
133.0'	135.0'	Clay, Sandy Clay & Kss
135.0'	138.0'	Kss
138.0'	140.0'	Clay
140.0'	145.0'	Clay & Lignite
145.0'	150.0'	Clay

Detail Log - 89-212

From	То	Sample No.	Description
0.0'	4.75'		Peat
4.75'	47.0'		Glacial Clay Till - green/grey, fine grain silt in some sections, competent, massive, 2.0" sand layer at upper contact, in silt-free sections, 10.0 - 15.0% carbonate clasts and 10.0% gneissic clasts up to 1.5".
47.0'	54.25'		Sand - green/grey, fine grain sand, numerous larger clasts (10.0 - 15.0%) throughout, generally 0.25", predominantly carbonate lithologies & 30.0% gneissic clasts.
54.25'	57.0'		Glacial Clay Till - as previous, 55.0' - 55.24' - granitic boulder.
57.0'	73.0'		Sand - green/grey, poorly sorted, medium grain, approximately 85.0% silica, remainder exotics, approximately 10.0% larger clasts.
73.0'	94.0'		Glacial Clay Till - as previous, 90.5' - 90.75' - sand seam.
94.0'	107.0'		Sand - gravel for first foot - very light green, clay-rich zone with coarse clasts up to 0.25", occasional organic layers, 103.25' - 104.0' - silty clay layer.
107.0'	111.0'		Glacial Clay Till - fissile, fine grain, yellow/brown, contact zone with Cretaceous.
111.0'	114.0'	16551	Clay - competent, fissile, light grey & yellow mottled to medium yellow to yellow/brown, highly overburden contaminated, calcareous, 67.22% kaolin.
114.0'	119.0'	16552	Clay - silica contamination is high, competent, conchoidal fracture, light grey, garnetiferous at 115.0', highly overburden contaminated, calcareous, 69.82% kaolin.
119.0'	123.0'	16553	Clay - competent, disc-like, fissile

			at upper contact, light grey at 119.0', haematite staining, red & yellow, parted concentrations of overburden, calcareous, 66.10% kaolin.
123.0'	125.0'	16554	Sandy Clay - competent, disc-like, light grey at 124.5' - 2.0" thick drill cut phaneritic sandstone, medium brown, small black crystals, very haematite stained, red on 2 sides, 53.32% kaolin.
125.0'	128.0'	16555	Clay - competent, fissile, increasing downsection, medium brown, grading to chocolate, 73.57% kaolin.
128.0'	130.0'	16556	Clay - grading to Sandy Clay - competent, disc-like with yellow laminations, sulphureous, carbonaceous and illitic material in sandy clay, sulphureous smell, exterior crystal growth, 66.05% kaolin.
130.0'	133.0'	16557	Clay - competent, fissile, chocolate brown, 73.80% kaolin.
133.0'	135.0'	16558	Clay to Sandy Clay to Kss - competent to very fissile, fine grain kss, chocolate brown, sulphureous smell, exterior crystal growth, 62.43% kaolin.
135.0'	137.0'	16559	<pre>Kss - grading to clay - competent, medium grain, chocolate brown, sulphureous smell, 23.11% kaolin.</pre>
137.0'	140.0'	16560	Clay - fissile, medium brown, with rare red laminations, some yellow haematitic staining, entire hole has much flowage from bag into box, 77.85% kaolin.
140.0'	145.0'	16561	Clay to Lignite to Clay - competent, disc- like, to fissile lignite to competent, disc-like chocolate brown to black/brown lignite to dark grey/brown with red and yellow haematitic laminations, exterior crystal growth on lignite fragments, 69.29% kaolin.
145.0'	150.0'	16562	Clay - as above, less carbonaceous and haematitic areas, much organic growth, 53.22% kaolin.

Section 89-212

Claim No.: P 1090037 Hole Length: 150.0'

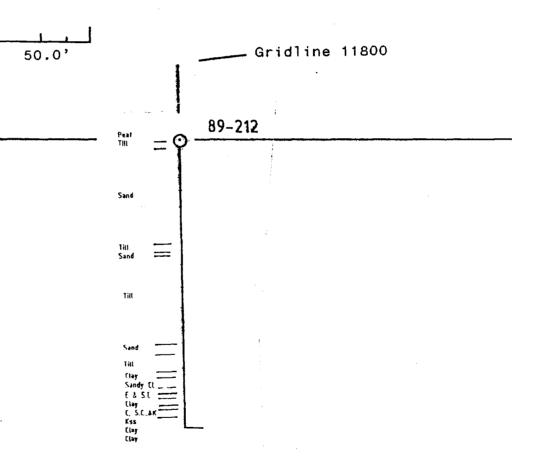
Overburden Depth: 111.0'

Astronomic Azimuth: 50° 09' 12" W. 82° 02' 56" N Location: 1150.0' at 269° to claim post no. 1

Scale: 1.0" = 50.0' or 1:600 Northing: 800 N

Easting: 11800 E

Dip: -90°



Section 89-212

Claim No.: P 1090037 Hole Length: 150.0'

Overburden Depth: 111.0'

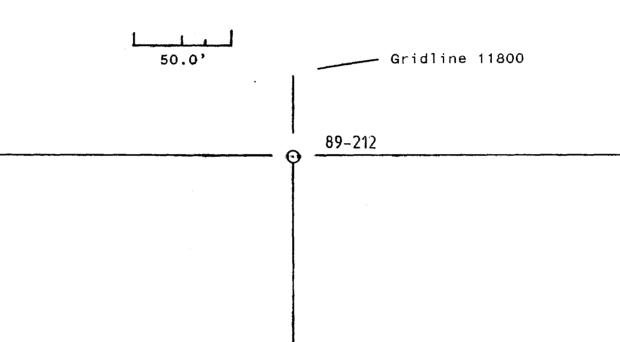
Astronomic Azimuth: 50° 09' 12" W. 82° 02' 56" N Location: 1150.0' at 269° to claim post no. 1

16551 67.27% 16557 69.82% 16554 69.82% 16554 59.12% 16555 73.57% 16557 73.57% 16557 73.77% 16559 73.77% 16559 73.77% 16561 62.97% 16561 63.27% 16562 53.22%

Scale: 1.0" = 50.0' or 1:600 Northing: 800 N

Easting: 11800 £

Dip: -90°



ROTARY DRILL HOLE RECORD

Drilling Started: Mar. 2, 1989 Drilling Finished: Mar. 2, 1989 Drilling Co.: Midwest Drip: -90° Hole Length: 241.0' Overburden Depth: 40.0' Claim No.: P 825802 Easting: 5395 E Northing: 005 N Azimuth: 50° 08', 51" N, 82° 08', 52" W. Location: 1150.0' at 215° To Claim Post No. 1 Elevation (Current): 330.0' Hole No.: 89-75 SUMMARY From To Description O.0' 10.0' Peat 10.0' 11.0' Gravel 11.0' 37.5' Glacial Clay Till 37.5' 40.0' Fluvial Sediments 40.0' 46.0' Kaolin Silica Sand (Kss) 40.0' 51.5' Glacial Clay Till Overburden - Pleistocene 51.5' 54.5' Clay 54.5' 55.0' Kss 55.0' 56.0' Clay 86.0' 81.0' Kss 84.5' 86.0' Sandy Clay 86.0' 91.0' Clay 91.0' 114.0' Kss 114.0' 115.5' Clay 22.0' 236.0' Sandy Clay 236.0' 241.0' Kss	~		R	OTARY DRI	LL HOLE RECORD	
From To Description RECEIVED 0.0' 10.0' Peat 10.0' 11.0' Gravel 11.0' 37.5' Glacial Clay Till 37.5' 40.0' Fluvial Sediments 40.0' 46.0' Kaolin Silica Sand (Kss) 40.0' 51.5' Glacial Clay Till Overburden - Pleistocene 51.5' 54.5' Clay 54.5' 55.0' Kss 55.0' 56.0' Clay 66.0' 80.0' Kss 80.0' 83.5' Clay 83.5' 84.5' Kss 84.5' 86.0' Sandy Clay 86.0' 91.0' Clay 91.0' 114.0' Kss 114.0' 115.5' Clay 115.5' 222.0' Kss 222.0' 236.0' Sandy Clay	Dril Dip: Hole Over Clai East Nort Azim Loca Prope	lling Co. -90° Length: burden D m No.: P ing: 539 hing: 00 uth: 50° tion: 11 erty: Ki	arted: Mar nished: Mar : Midwest : 241.0' Pepth: 40.0' 825802 5 E 5 N 08' 51" N,	. 2, 1989 . 2, 1989	Logged B Logged: C Core Size Core Stor Mineral R. R. # Parry Sc P2A 2W8 Elevation 52" W.	Cot. 23, 1989 3: 3.5" age: Research Canada 2 ound, ON (original): 327.0
0.0' 10.0' Peat 10.0' 11.0' Gravel 11.0' 37.5' Glacial Clay Till 37.5' 40.0' Fluvial Sediments 40.0' 46.0' Kaclin Silica Sand (Kss) 40.0' 51.5' Glacial Clay Till Overburden - Pleistocene 51.5' 54.5' Clay 54.5' 55.0' Kss 55.0' 56.0' Clay 80.0' 83.5' Clay 83.5' 84.5' Kss 84.5' 86.0' Sandy Clay 86.0' 91.0' Clay 91.0' 114.0' Kss 114.0' 115.5' Clay 115.5' 222.0' Kss 222.0' 236.0' Sandy Clay						
10.0° 10.0° Peat 10.0° 11.0° Gravel 11.0° 37.5° Glacial Clay Till 37.5° 40.0° Fluvial Sediments 40.0° 46.0° Kaolin Silica Sand (Kss) 40.0° 51.5° Glacial Clay Till - Overburden - Pleistocene 51.5° 54.5° Clay 54.5° 55.0° Kss 55.0° 56.0° Clay 56.0° 80.0° Kss 80.0° 83.5° Clay 83.5° 84.5° Kss 84.5° 86.0° Sandy Clay 86.0° 91.0° Clay 91.0° 114.0° Kss 114.0° 115.5° Clay 115.5° 222.0° Kss 222.0° 236.0° Sandy Clay	~~~~		Descript	ion		RECEIVED
11.0' 37.5' Glacial Clay Till 37.5' 40.0' Fluvial Sediments 40.0' 46.0' Kaolin Silica Sand (Kss) Glacial Clay Till - Overburden - Pleistocene 51.5' 54.5' Clay 54.5' 55.0' Kss 55.0' 56.0' Clay 80.0' 83.5' Clay 83.5' 84.5' Kss 84.5' 86.0' Sandy Clay 86.0' 91.0' Clay 91.0' 114.0' Kss 114.0' 115.5' Clay 115.5' 222.0' Kss 222.0' 236.0' Sandy Clay						
37.5' 40.0' 46.0' Fluvial Sediments 40.0' 51.5' Glacial Clay Till - Overburden - Pleistocene 51.5' 54.5' Clay 54.5' 55.0' Kss 55.0' 56.0' Clay 80.0' 83.5' Clay 83.5' 84.5' Kss 84.5' 86.0' Sandy Clay 86.0' 91.0' Clay 91.0' 114.0' Kss 114.0' 115.5' Clay 115.5' 222.0' Kss 22.0' 236.0' Sandy Clay	11.0'	37.5	, ,	01		MAY 2 6 1995
40.0' 51.5' Glacial Clay Till - Overburden - Pleistocene 51.5' 54.5' Clay 54.5' 55.0' Kss 55.0' 56.0' Clay 80.0' 83.5' Clay 83.5' 84.5' Kss 84.5' 86.0' Sandy Clay 86.0' 91.0' Clay 91.0' 114.0' Kss 114.0' 115.5' Clay 115.5' 222.0' Kss 20 Para (No.) 376-2416 DATE MINERAL P. EARCH FAX (705) 376-2416 DATE DATE 115.5' 222.0' Kss 222.0' 236.0' Sandy Clay		40.0'	Fluvial	Sedimenta		& diamate.
51.5' 54.5' Clay 54.5' 55.0' Kss 55.0' 56.0' Clay 80.0' 83.5' Clay 83.5' 84.5' Kss 84.5' 86.0' Sandy Clay 86.0' 91.0' Clay 91.0' 114.0' Kss 114.0' 115.5' Clay 115.5' 222.0' Kss 2.16012 MINERAL RATEARCH FAX (705) 375 April 74. BUS (105) 378-2416 DATE Overburden - Pleistocene Cretaceous 2.16012 MINERAL RATEARCH FAX (705) 375 April 74. BUS (105) 378-2416 DATE			Kaolin S	ilica San	n /) /	MINING LANDS BRANCH
54.5' 55.0' Kss 55.0' 56.0' Clay 56.0' 80.0' Kss 80.0' 83.5' Clay 83.5' 84.5' Kss 84.5' 86.0' Sandy Clay 91.0' 114.0' Kss 114.0' 115.5' Clay 115.5' 222.0' Kss 22.0' 236.0' Sandy Clay	 51.5'			31ay Till 	- Overburden	- Pleistocene
55.0' 56.0' Clay 56.0' 80.0' Kss 80.0' 83.5' Clay 83.5' 84.5' Kss 84.5' 86.0' Sandy Clay 86.0' 91.0' Clay 91.0' 114.0' Kss 114.0' 115.5' Clay 115.5' 222.0' Kss 2.16012 MINERAL INFERRICH FAX (705) 378.0416 DATE DATE		0110	Clay			~~~~~~~~~~~
2.16012 80.0' 83.5' Clay 83.5' 84.5' Kss 84.5' 86.0' Sandy Clay 86.0' 91.0' Clay 91.0' 114.0' Kss 114.0' 115.5' Clay 115.5' 222.0' Kss 2.16012 MINERAL RESEARCH PAX (705) 378-9413 DATE DATE	54.5	55.0'	Kss			- , 0 : 40 60 03
80.0' 83.5' Clay 83.5' 84.5' Kss 84.5' 86.0' Sandy Clay 86.0' 91.0' Clay 91.0' 114.0' Kss 114.0' 115.5' Clay 115.5' 222.0' Kss 222.0' 236.0' Sandy Clay	55.0'	56.0'	Clay		9 1	00.
80.0' 83.5' Clay 83.5' 84.5' Kss 84.5' 86.0' Sandy Clay 86.0' 91.0' Clay 91.0' 114.0' Kss 114.0' 115.5' Clay 115.5' 222.0' Kss 222.0' 236.0' Sandy Clay	56.0'	80.0'	Kss		~. 1	0012
84.5' 86.0' Sandy Clay 86.0' 91.0' Clay 91.0' 114.0' Kss 114.0' 115.5' Clay 115.5' 222.0' Kss 222.0' 236.0' Sandy Clay	80.0'	83.5'	Clay			
86.0' 91.0' Clay 91.0' 114.0' Kss 114.0' 115.5' Clay 115.5' 222.0' Kss 222.0' 236.0' Sandy Clay	83.5'	84.5'	Kss		MINERAL	TEARCHO !
86.0' 91.0' Clay 91.0' 114.0' Kss 114.0' 115.5' Clay 115.5' 222.0' Kss 222.0' 236.0' Sandy Clay	84.5'	86.0'	Sandy Clay	<i>t</i>	L June	Tal Asma
91.0' 114.0' Kss 114.0' 115.5' Clay 115.5' 222.0' Kss 222.0' 236.0' Sandy Clay	86.0'	91.0'			FAX (705) 378 51743	BUS (105) 378-2416
115.5' 222.0' Kss 222.0' 236.0' Sandy Clay	91.0'	114.0'	Kss		DATE	
222.0' 236.0' Sandy Clay	114.0'	115.5'	Clay			į
Sandy Clay	115.5'	222.0'	Kss			
	222.0'	236.0'	Sandy Clay			
	236.0'					

Detail Log - 89-75

From	То	Sample No.	Description
0.0'	10.0'		Peat
10.0'	11.0'		Gravel - green/grey, coarse sandy gravel, coarse clasts up to 3.0".
11.0'	32.0'		Glacial Clay Till - green/grey, with brown near upper contact, pliable and competent sections interbedded with competent sections, up to 15.0% clasts from 0.5" - 3.0", carbonate.
32.0'	37.5'	12851	Glacial Sandy Clay Till - as above, high percentage fine sand.
37.5'	40.0'	12852	Fluvial Sediments - 37.5' - 39.0' - dark brown pliable clay, 5.0% carbonate and quartz clasts, 39.0' - 40.0' - layered dark brown and green/grey 1.0" with 10% clasts.
40.0'	46.0'	12853	Kss - well sorted, medium grain, light grey, some yellow sections. 9.29% kaolin.
46.0'	51.5'	12854 & 5	Glacial Clay Till - as previous.
51.5'	54.5'	12856	Clay - alternating dark and light brown layers of 1.0", competent, pliable becoming friable, quartz clasts at upper contact, 51.5' - 51.75' - clay, 51.75' - 52.0' - GLACIAL CLAY TILL.
54.5'	55.0'	12857	Kss - poorly sorted, medium grain, light grey. 11.01% kaolin.
55.0'	56.0'	12858	Clay - medium brown, pliable interbedded with medium grain kss. 41.75% kaolin.
56.0'	61.0'	12859	Kss - well sorted, medium grain, white. 8.81% kaolin.
61.0'	66.0'	12860	Kss - as above. 8.25% kaolin.
66.0'	71.0'	12861	Kss - from 66.0' - 70.0' - as above, 70.0' - 71.0' - fine grain. 8.91% kaolin.
71.0'	76.0'	12862	Kss - as above. 8.98% kaolin.
76.0'	80.0'	12863	Kss - as above, occasional 1.0" light

grey clay clots. 21.77% kaolin.

80.0'	81.0'	12864	Clay - pliable, light yellow/brown. 79.72% kaolin.
81.0'	83.5'	12865	Clay - competent, friable to slightly pliable, lighter brown than above. 73.95% kaolin.
83.5'	84.5'	12866	Kss - poorly sorted, medium grain, light grey, frequent clay clots and seams that are light grey with a purple tinge. 57.24% kaolin.
84.5'	86.0'	12867	Sandy Clay - light grey, form 85.75' - 86.0' - interbedded with yellow/grey clay. 31.92% kaolin.
86.0'	91.0'	12868	Clay - 86.0' - 87.5' - pliable to friable, light yellow/green, 87.5' - 90.0', competent, friable, yellow/green and red, 90.0' - 91.0' - competent, friable, light grey. 73.57% kaolin.
91.0'	96.0'	12869	Kss - well sorted, medium grain, white. 6.05% kaolin.
96.0'	101.0'	12870	Kss - as above. 10.25% kaolin.
101.0'	106.0'	12871	Kss - as above. 8.71% kaolin.
106.0	111.0'	12872	Kss - as above. 8.43% kaolin.
111.0'	114.0'	12873	Kss - as above, rare light grey clay clots. 7.57% kaolin.
114.0'	115.5'	12874	Clay - pliable to friable, light grey at upper contact grading to yellow. 47.67% kaolin.
115.5'	116.5'	12875	Kss - poorly sorted, medium grain, light yellow/grey, occasional light grey 1.0" clay seams. 28.53% kaolin.
116.5'	121.0'	12876	Kss - well sorted, fine grain, white. 13.27% kaolin.
121.0'	126.0'	12877	Kss - medium grain, yellow/brown at upper contact grading to white, minor illite and heavies, 6.66% kaolin.
126.0'	131.0'	12878	Kss - coarse grain in a white clay matrix, yellow chert and smoky quartz prevalent, minor illite, 11.63% kaolin.

131.0'	136.0'	12879	Kss - coarse grain, as above, with jasper, 2.0" dark and light grey fossiliferous siliceous dolostone, brachiopods, Devonian, 18.43% kaolin.
136.0'	141.0'	12880	Kss - coarse grain, as above from 136.0' - 138.5', white, minor illite and heavies, 12.68% kaolin.
141.0'	146.0'	12881	Kss - medium grain, as above, 8.28% kaolin.
146.0'	151.0'	12882	Kss - as above, with yellow and pink cherts, 8.18% kaolin.
151.0'	156.0'	12883	Kss - clay-rich, light brown, coarse grain, with shale fragments, 8.23% kaolin.
156.0'	161.0'	12884	Kss - medium grain and extremely coarse grain (clasts of 0.5" - 1.0"), rounded smoky quartz and yellow chert in a white pliable clay matrix interbedded with medium grain kss, 3.0" grey dolostone clast, subrounded, colonial coral, Devonian, 15.09% kaolin.
161.0'	166.0'	12885	Kss - as above, grey dolostone clast, 2.5", more irregular than previous, brachipods, crinoids, Devonian, 10.25% kaolin.
166.0'	171.0'	12886	Kss - as above, 9.16% kaolin.
171.0'	175.0'	12887	Kss - coarse grain, until 171.5' with some pink staining, 171.5' - 175.0' - fine grain, minor illite and heavies, heavies as banding as well as dispersed, rare larger rounded smoky quartz, 13.19% kaolin.
175.0'	181.0'	12888	Kss - coarsening downsection from medium grain to coarse, rust stained sections, minor illite and heavies, rare larger rounded smoky quartz clasts, 9.82% kaolin.
181.0'	186.0'	12889	Kss - coarse grain, from 181.0' - 183.0', 183.0' - 186.0' - fine grain, high clay content, minor illite and high percentage heavies, 10.08% kaolin.
186.0'	191.0'	12890	Kss - fine grain, as above, intense convolute heavies banding, 5.01% kaolin.
191.0'	196.0'	12891	Kss - as above, 8.15% kaolin.
196.0'	201.0	12892	Kss - as above, 4.30% kaolin.

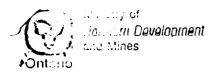
201.0'	206.0'	12893	Kss - as above, some clay-rich mottled seams, 16.94% kaolin.
206.0'	211.0'	12894	Kss - as above, less heavies, fewer clay-rich seams, 6.38% kaolin.
211.0'	216.0'	12895	Kss - medium grey, fine and medium grain alternating layers, minor illite and heavies, 16.76% kaolin.
216.0'	222.0'	12896	Kss - medium grain grading to coarse grain, white, 3.0" grey sandy clay seam at 217.0', 10.63% kaolin.
222.0'	223.0'	12897	Sandy Clay - fine grain, black carbonaceous seams, minor illite and heavies, 50.89% kaolin.
223.0'	231.0'	12900	Sandy Clay - as above, with chocolate brown clay seams and clots of 0.25", 46.51% kaolin.
231.0'	236.0'	12899	Sandy Clay - as above, 16.56% kaolin.
236.0'	241.0'	12888	Kss - medium grain, with carbonaceous seams, medium brown, 10.63% kaolin.

EOH - 241.0'

Section 89-75 Claim No.: P 825802 Hole Length: 241.0' Overburden Depth: 40.0' Astronomic Azimuth: 50° 08' 51" W. 82° 08' 52" N Location: 1150.0' at 215^0 to claim post no. 1 Scale: 1.0" = 50.0' or 1:600 Northing: 005 N Easting: 5395 E Dip: -90° Gridline 5400 0 89-75-Peat Till Lac Clay KSS Till Claylchocbrn_en brn Claylchocbrn_en brn Claylchon)/KSS KSS Clay(yel-brn,ltbrn) KSS Sandy Clay Clay(yel-grn,rust) Clay(It gry) KSS

Sandy Clay

KSS



Report of Work Consuction After Recording Claim

N 9560.00111

Transaction No

Mining Act

Personal information collected on this form is obtained under the authority of the Minithis collection should be directed to the Provincial Manager, Mining Lands, M Sudbury, Ontario, P3E 6A5, telephone (705) 670-7264.

- Instructions: Please type or print and submit in duplicate.
 - Refer to the Mining Act and Regulations for ra Recorder.



900

- A separate copy of this form must be completed for each Work Group.

PORCURNE MEAST DIMISION

- Technical reports and maps must accompany this form in duplicate.

- A sketch, showing the claims the work is assigned to, must accompany this form. Recorded Holder(s) To: From: Work Performed (Check One Work Group Only) Work Group Type Geotechnical Survey Physical Work, Including Drilling Rehabilitation Other Authorized 1995 Work **Assays** Assignment from Reserve Total Assessment Work Claimed on the Attached Statement of Costs 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 UL41W21 (attach à 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 JAN. 23/95 by the current recorded holder. Certification of Work Report

its completion and annexed report is true.

					
Name and Address of Persop	∕Zertifying :				
	sselman - a	5 9600			
Televoné No.	Date		Certified By (Signature		
(705) 378-24	16 Jub. 8	1995		a lman	
			79		
For Office Us. Only				MECE	गामाना ।
Total Value Cr. : recorded	Date Recorded	Mining Reco	A TED	Rec	
•	Deemed Approval Date	Date Approv	red	MAR :	Y KOS O'N
1 199.	JUNE 5, 199				
1 1 7	Date Notice for Amendments S	Sent		¬ \	

I certify that I have a personal knowledge of the facts set forth in this Work report, having performed the work or witnessed ε ...te during and/or after

0241 (03/91)

terrain (aisant Nobjet c travaux (m. c. 6 exècr

alutit el eup eitines el

Les crédits doivent être réduits selon l'ordre donné en annexe. 3. Les crédits doivent être réduits également entre tous les claims figurant dans le présent rapport. 5. Les crédits doivent être réduits en commençant par le dernier claim sur la liste. 1 Les crédits que vous réclamez dans le présent rapport peuvent être réduits. Afin de diminuer les conséquences défavorables de telles réductions, veuillez indiquer l'ordre dans lequel vous désirez au'elles soient appliquées à vos claims. Veuillez cocher (V) l'une des options suivantes :

Si vous n'avez pas choisi d'option, la première sera appliquée.

eain faisant l'objet de lettres patentes ou d'un bail, veuillez re apir ce qui suità 🐠 na sėtuoėxe ėtė tno 🗵 Note 2: Si des trave aux claims. Examples d'intérêts bénéficiaires : cessions non enregistrées, ententes sur des options, protocoles d'entente, etc. relatifs : I SION

se rénéficiaire sur le la moment cù les tunip no satuated sattle enregistré possedait un Signature Date

The same of the same of the same

													_						
Reserve: Work to be Claimed at a Future Date	0	0	٥	0	0	\mathcal{C}	1646	0		0	Q	0	656 1	897		0	2	6618	Total Reserve
Value Assigned from this Claim	3041	3099	1684	116	16/	563	4384	340		744	30	762	0	0	0	0	0	000 /11	Total Assigned From
Value Applied to this Claim	0	0	0	0	0	0	0	0	\	0	0	0	0	0	900	120	1400	14/000	Total Value Work Applied
Value of Assessment Work Done on this Claim	3041	8000	1.687	110	101	569	6000	940		· hh	30	762.	656	897	0	0	·0	17199	Total Value Work Done
Number of Claim Units	•	•	•	•	•	•	•	•		•	•	•	•	•	~	_			
Claim Number (see Note 2)	119482	121582	P91/35	P\$25792	P875794	P\$35797	952550-2	P8,35805		7082589	P1089109	P109037	4128611g	71198515	7112317	11/23/5	11123117	35+13	Total Number of Claims
Vork Report Number for Applying Reserve	M	4	A	A	4			4	i	7	4	*	*	7	4	4	1		-

In the event that you have not specified your choice of priority, option one will be implemented. Credits are to be cut back as priorized on the attached appendix. .ε Credits are to be cut back equally over all claims contained in this report of work. Credits are to be cut back starting with the claim listed last, working backwards. Credits you are claiming in this report may be cut back. In order to minimize the adverse effects of such deletions, please indicate from which claims you wish to priorize the deletion of credits. Please mark (v) one of the following:

to the mining claims. Note 1: Examples of beneficial interest are unrecorded transfers, option agreements, memorandum of agreements, etc., with respect

Note 2: If work has been performed on patented or leased land, please complete the following:

Signature

or leased land at the time the work was performed. I certify that the recorded holder had a beneficial interest in the patented

toegaan di	iy, ,,ott	ា 'ន មួន	រខិ៤៤៤ ឃ	s to mu	ibnsioi	ദ ് ധാധ	tnəmə	១។ខ្លួន ពឲ	s' obțic	anster:	rded tr	oot.:un	ens tee	l intere	នាំ១ពិទុក នេះជានេះ	a ot be	xamtic xamtic	я :r' 1	, eto!
топ еза	oibni e	see, ' ':	enoitele	encµ qe	:6սլ/	e follow ards. work	e ol Ih backwi	no (~) crking this re tix.	mark last, we ned in	Please listed contai	redits. e claim claims the att	on of c with thiw over all no bas	arting arting qually o	osck st osck ed osck ed	oing of I fub ed I fub ed I fub ed	wish use to be to to be	o one uor co (emie s stibero s stibero s stibero s stibero	6h (18)	1. 2. 3.
Reserve: Work to be Claimed at a Futtre Date	8	¢.	0	Ø	0	0	0	0	٥	P	0	0	Ø	0	P				Total Reserve
Value Assigned from this Claim	0	6	0	0	0	0	0.	0	0	0	0	0	Ø	0	0				Total Assigned From
Value Applied to this Claim	cof	3	400	700	400	400	400	400	400	400	400	400	400	400	100				Total Value Work Applied
Value of Assessment Vork Done on this Cicim	0	0	0	O	0	0	0	0	0	0	0	0	Ò	0	0	1407 1407			Total Value Work
Number of Claim Units	,	, ,	~	/	,	1	1	-		_	1	,		/					
Claim Number (see Note 2)	P1117337	P11/2339	P1112339	P1112340	P112341	P1112342	P112343	P1112344	17111345	0/10346	P1112347	21112348	P11/2345	P1112350	P11/2351				Total Number of Claims
Work Report Number for Applying Reserve	1114	MILL	11/19	61/13	th/ /"	1119	NIA	MIR	NIM	AIM	NIA	NIA	NIM	N/H	MIN				

Signature

916

I certify that the recorded holder had a beneficial in erest in the patented or leased land at the time the work was parturmed.

Note 2: If work has been performed on permitted or leased land, please complete the following:



in Development 1.25

3 du Davel spement du Nord

et do limines

Statement of Costs for Assessment Credit

État des coûts aux fins du crédit d'évaluation

Mining Act/Loi sur les mines

Fransaction (IIII) de Transaction W9560.00111

Les renseignements personnels contenus dans la présente formule so recueillis en venu de la Loi sur les mines et serviront à tenir à jour un registi des concessions minières. Adresser toute quesiton sur la collece de ce renseignements au chef provincial des toriains miniers, ministère c Développement du Nord et des Mines, 159, roa Cedar, 4º étage, Sudbu (Ontario) P3E 6A5, téléphone (705) 670-7264.

1. Direct Costs/Coûts directs

Туре	Description	Amount Montant	Totals Total global
Wages Salaires	Labour Main-d'oeuvre		
	Field Supervision Supervision sur le terrain		
Contractor's and Consultant's Fees Droits de l'entrepreneus	Type 64/ X WRA 13 X 30 X 6 X	19.26~	14,019 161 690 116
et de l'expart- conseil	17 X 62 X	30.50	518 1695
Supplies Used Fournitures utilisées	Туре		
Equipment Rental Location de matériel	Туре		
	Total Dir Total des coû	rect Costs its directs	17,199

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.

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

2. Indirect Costs/Coûts Indirects

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

Туре	Description	Amount Montant	Totals Total globa
Transportation Transport	Туре		
	2.160	12	
	A second		
Food and Lodging Nourriture et hébergement			
Mobilization and Demobilization Mobilisation et démobilisation			
	Sub Total of I. Total partiel des c		
	(not greater than 20% c: (n'excedant pas 20 % c:		
Total Value of Asso (Total of Direct and a Indirect costs)	Allowable d'éval (Total	cule du crédit cult cults directs aumissibles	

Note: Le titulaire enregistré sera tenu de véril. : les dépenses demandées dar le présent état des coûts dans les 30 juicrs suivant une demande à ce effet. Si la vérification n'est pas effections, le ministre peut rejeter tou ou une partie des travaux d'évaluation présentés.

1. Les travaux déposés dans les deux ans ouivant leur achèvement sont

remboursés à 100 % de la valeur totale sus contionnée du crédit d'évaluatio

Filing Discounts

Work filed within two years of completion is claimed at 100% of the above Total Value of Assessment Credit.

all or persof the assessment work submitted.

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
× 0.50 =	

susmentionné. Voir les calculs ci-des : . . is.

Remises pour dépôt

2. Les travaux déposés trois, quatre ou cian ans après leur achèvement sont remboursés à 50 % de la valeu ptale du crédit d'évaluatic

Valeur totale du crédit d'évaluation \times 0,50 = Evaluation totale demandee

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 PRESIDENT
(Is added Holder, Agent, Position in Company) _ I am authorized

to make this sertification

Attestation de l'état des coûts

J'atteste par la présente :

que les montants indiqués sont le plu exact possible et que ce dépenses ont été engagées pour effection les travaux d'évaluation sur les terrains indiqués dans la formule de rapport de travail ci-joir

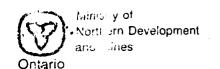
Et qu'à titre de je suis autoris (titulaire enragistré, représentant, poste des par dans la compagnie)

à faire cette attestation.

Signature

Nota : Dans cette formule, lorsqu'il désigne des personnes, le massaulin est utilisé au sens neut

0212 (04/91)



Report of Work Conducted After Recording Claim

Tra Gion Nun at W9560.00112

Mining Act

Personal information collected on this form is obtained under the authority of the Mining Act. This information will be uned for correspondence. Questions about this collection should be directed to the Provincial Manager, Mining Lands, Ministry of Northern Development and Lines, Fourth Floor, 159 Cedar Street, Sudbury, Ontario, P3E 6A5, telephone (705) 670-7264. 2.1601

Instru	ctions	S
--------	--------	---

0241 (03/01)

- : Please type or print and submit in duplicate.
 - Refer to the Mining Act and Regulations for requirements of filing assessment work or consult the Mining
 - copy of this form must be completed for each Work Group

- Techni	cal reports and maps must accompany this form in duplicate. ch, showing the claims the work is assigned to, must accompany the	SCART D	
Recorded Holder(s)	, should be stanted the work to doors, much doors, party the	Slient No.	
	LAKES KAOLIN INC.	22/553 Telephone No.	
daress		Telephone No.	
Ining Division	LEY AVE. KITCHENER UN N23 2EI NE KIPLING	(3//) +44-	5750
PORCOPA Dates	NE RIPLING		
Work From: Performed	0124/10 To: Con 5	<i>-</i> 23	·
	k One Work Group Only)	_	
Work Group	Туре		
Geotechnical Survey			
Physical Work, Including Drilling			
Rehabilitation			
Other Authorized Work	Subsection 13 (9)		
Assays			
Assignment from		· · · · · · · · · · · · · · · · · · · 	
Reserve	Claimed on the Attached Statement of Costs \$ 10,360 + (D JAWIN O	<u></u>
ersons and Survey C	ompany Who Performed the Work (Give Name and Address of Allahae	Hor of R. port)	
Tharing Tha	Instrain RR 2 Parry Sound	11 8212	1018
Detection of the	277,000		
	·		
attach a schedule if neo	essary)		
ertification of Benefi	cial Interest * See Note No. 1 on reverse side	~	
	vork was performed, the claims covered in this work	folder or joint (Signature))
report were recorded in the ci by the current recorded hol	urrent holder's name or held under a beneficial interest 14 N. 23/95 der.	Contract of the second	
Contification of Work E	lanort		
•	nal knowledge of the facts set forth in this Work report, having performed the work	vitnessed same during a	nd/or after
its completion and annexed ame and Address of Person	Certifying		
Hearina	malmstrom - As alver		
elepone No. (705) -378-2416	Date Starring Scarring Section Certified By (Signature) Lawrence Section	Emstrom	
or Office Use Only			
Total Value Cr. Recorded	Date Recorded Almining Recordes Recel	DECENTOR	m
_	Mining Recorded Not 104 TKD		
a_{0} .	Deemed Approval Date Date Approved	LAD TO HOOL	74
10,360.	JUNE 5,1995	MAN (134)	1
(-)	Date Notice for Amendments Sent		1
		PORCUPINE MINING 5	IVISION

In the event that you have not specified your choice of priority, option one will be implemented. Credits are to be cut back as priorized on the attached appendix. Credits are to be cut back equally over all claims contained in this report of work. Credits are to be cut back starting with the claim listed last, working backwards. Credits you are claiming in this regard may be cut back, in order to minimize the adverse effects of such deletions, please indicate from which claims you wish to priorize the deletion of credits. Please mark (>) one of the following:

to the mining staims. Examples of beneficial in the corded transfers, option agreements, memorandum of agreements, etc., with respect : F efoN

tion potential or leased land, please complete the following:

I certify that the recorder or leased land at the time ini leicil**e**nod betneted edt ni te order ha

ichiad c

Note 2: It work has b

mon) ets	soileaf	s, plea	snoitele	op yons	o stoe	ards.	ряскм	orking	last, w	bətsil ı	e clain	di riliv	v gnihs	ack st	e cnt p	ed of and	s stiber	
Reserve: Work to be Cleimed at a Future Date	0	D	0	0	0	0	0	þ	0	Q	0		2	ı	6	0 1	2	Total
Value Assigned from this Claim	0	0	0	0	0	0	0	0	0	0	0			77 ST 3	27	10,31		T T T T T T T T T T T T T T T T T T T
Velue Applied to this Claim	d C C	005	004	HOO	ÜΟΉ	400	700	400	400	HOĞ	400							Total Value
Value of Assessment / Work Done on this Claim	Q	0	0	0	0	0	5	0	0	0	Q							Total Value Work
Number of Cleim Unite						_		_			-							
Claim Numbor (cc: Note 2)	1112296	1112297	1112298	11122 99	11/2300	1112301	1112302	1112303	1112304	1112305	1112306							Total Member
Work Report Number for Applying Reserve	N/A	101/4	M/A	N/A	NR	NIA	N/A	NIA	ή/	N)4	NIA							

Signature

Note 1: Examples of beneficial interest are unrecorded transfers, option agreements, memorandum of agreements, etc., with respect

In the event that you have not specified your choice of priority, option one will be implemented.

3. Credits are to be cut back as priorized on the attached appendix.

a person joury bleese complete the tollowing:

Note St. It work has politicities on performed on performance on performance of the perfo

to the mining claims.

3 02 pement du Nord mines

Statement or Co. for Assessment Credit

État des coûts aux fins du crédit d'évaluation

Mining Act/Loi sur les mines

Personal information collected on this form is obtained under the authority of the b, ${\rm ming}$. In This information will be used to maintain a record and the mining claim(s). Questions about this collection should be directed to the Provincial Manager, Minings Lands, Ministry of Northern Development to at Mines, 4th Floor, 159 Cedar Street, Sudbury, Ontario P3E 6A5, telc_i... one (705) 670-7264.

Les renseignements personnels contenus cans la présente formule so recueillis en vertu de la Loi sur les mines et perviront à tenir à jour un regist des concessions minières. Adresser toute coesiton sur la collece de c renseignements au chef provincial des terrains miniers, ministère developpement du Nord et des Mines, 159, de Cedar, 4º étage, Sudbu (Ontario) P3E 6A5, téléphone (705) 670-726...

W9566,00112

1. Direct Couts/Coûts directs

Тура	Description	Amount Montant	Totals Total global
Wages Salaires	Labour Main-d'oeuvre		
	Field Supervision Supervision sur le terrain		
Contractor's and Consultant's	Type & 74 RCTAPS x 105=	\$7770	
Fees Droits de l'entrepreneu/	74 MOISTURES x 45	⁹ 3330	
et de l'experi- conseil	74 SEDIGRAPHS × 130=	si 9620	20720
Supplies Usc. Fournitures utilisées	Туре		,
		,	
Equipment Rental	Туре		
Location de matériel			
	Total Dir Total des coû	ect Costs ts directs	20 720

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.

	Туре	Description	Amount Montant	Totals Total globs
	Transportation Transport	Туре		
		2.150	12	
į			~	
		1 *N to (2)		
	Food and Lodging Nourriture et hébergement		č 190	İ
	Mobilization and Demobilization Mobilisation et démobilisation	188 - 1983		
•		Sub Total of Total partiel des c		
		(not greater than 20% c (n'excédant pas 20 %	,	
(Total Value of Asso Total of Direct and	Allowable d'évai d' (Total d	ale du crédit on péis directs admissibles	

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

Note : Le titulaire enregistré sera tenu de véri... « les dépenses demandées dar suivant une demande à c le présent état des coûts dans les 30 ; ು, le ministre peut rejeter to effet. Si la vérification n'est pas effec. ou une partie des travaux d'évaluation présentés.

Filing Discounts

- 1. Work fite , within two years of completion is claimed at 100% of the above Total Value of Assessment Credit.
- 2. Work fill 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 As	sessment Cl	aimed
\$ 20720 ×	0.50 =	#10	360	
		/		

Remises pour dépôt

- 1. Les travaux déposés dans les deux ans suivant leur achèvement son remboursés à 100 % de la valeur totale sugnantionnée du crédit d'évaluatic
- 2. Les travaux déposés trois, quatre ou clar, ans après leur achèveme sont remboursés à 50 % de la valeu sotale du crédit d'évaluation

	Valeur totale du crédit d'évaluation			Evaluation	totale	demandés
	×	0,50	==			
ļ	_ 		-			

Certification Verifying Statement of Costs

I hereby certify:

to make this cartification

that the amount is 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	- PRESIDENT	lam	authorized
	(Fig. road Holder, Agent, Position in Company)		

Attestation de l'état des coûts

J'atteste par la présente :

que les montants indiqués sont le plus exact possible et que c dépenses ont été engagées pour effectuer les travaux d'évaluati sur les terrains indiqués dans la formule de rapport de travail ci-joi

Et qu'à titre de	je suls autor
(titulaire enregistré, représentant, poste .	une dans la compagnie)

CALL SECTION OF THE S

à faire cette attestation.

) }	Signati	156	2//			//	
	1/	K	KZ				
***	formula	lorequ'il	tácione	des	Derso	nnes	le n

JAN. 23/95

Nota: Dans cette formule, lorsqu'il désigne d 0212 (04/91)



Ministry of Northern Development and Mines Ministère du Développement du Nord et des Mines Geoscience Approvals Section 933 Ramsey Lake Road 6th Floor Sudbury, Ontario P3E 6B5

May 31, 1995

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

Our File: 2.16012

Mining Recorder
Ministry of Northern
Development & Mines
60 Wilson Avenue, 1st Floor
Timmins, Ontario
P4N 2S7

Dear Mr. White:

subject: APPROVAL OF ASSESSMENT WORK CREDITS ON MINING CLAIMS

825797 et al. IN KIPLING TOWNSHIP

Assessment work credits have been approved as outlined on the report of work form. The credits have been approved under Section 17 (Assays) and Section 18(9) of the Mining Act Regulations.

The approval date is May 30, 1995.

If you have any questions regarding this correspondence, please contact Steven Beneteau at (705) 670-5858.

Yours sincerely,

Ron Cooking.

Ron C. Gashinski

Senior Manager, Mining Lands Section Mining and Land Management Branch

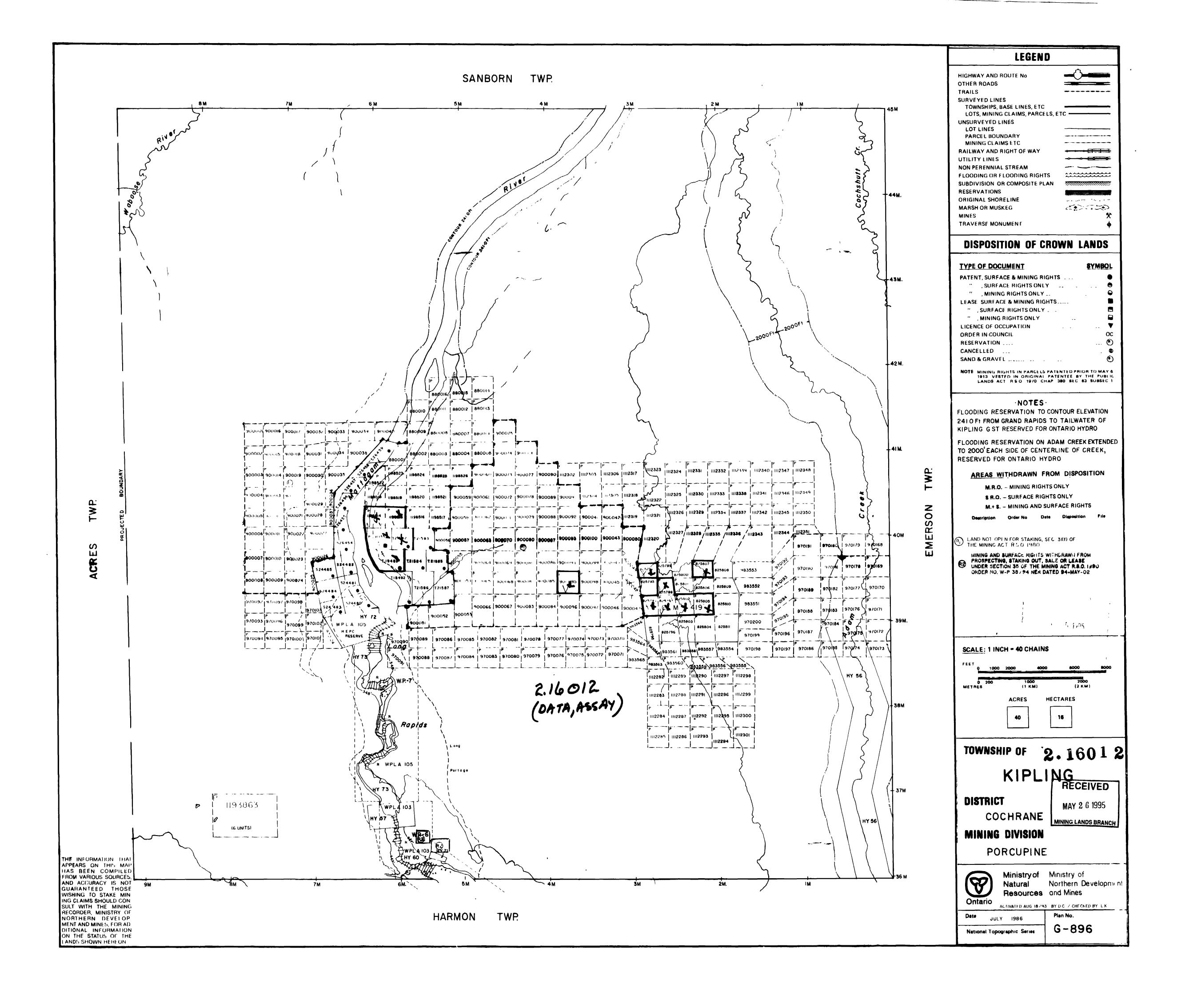
Mines and Minerals Division

SBB/dl

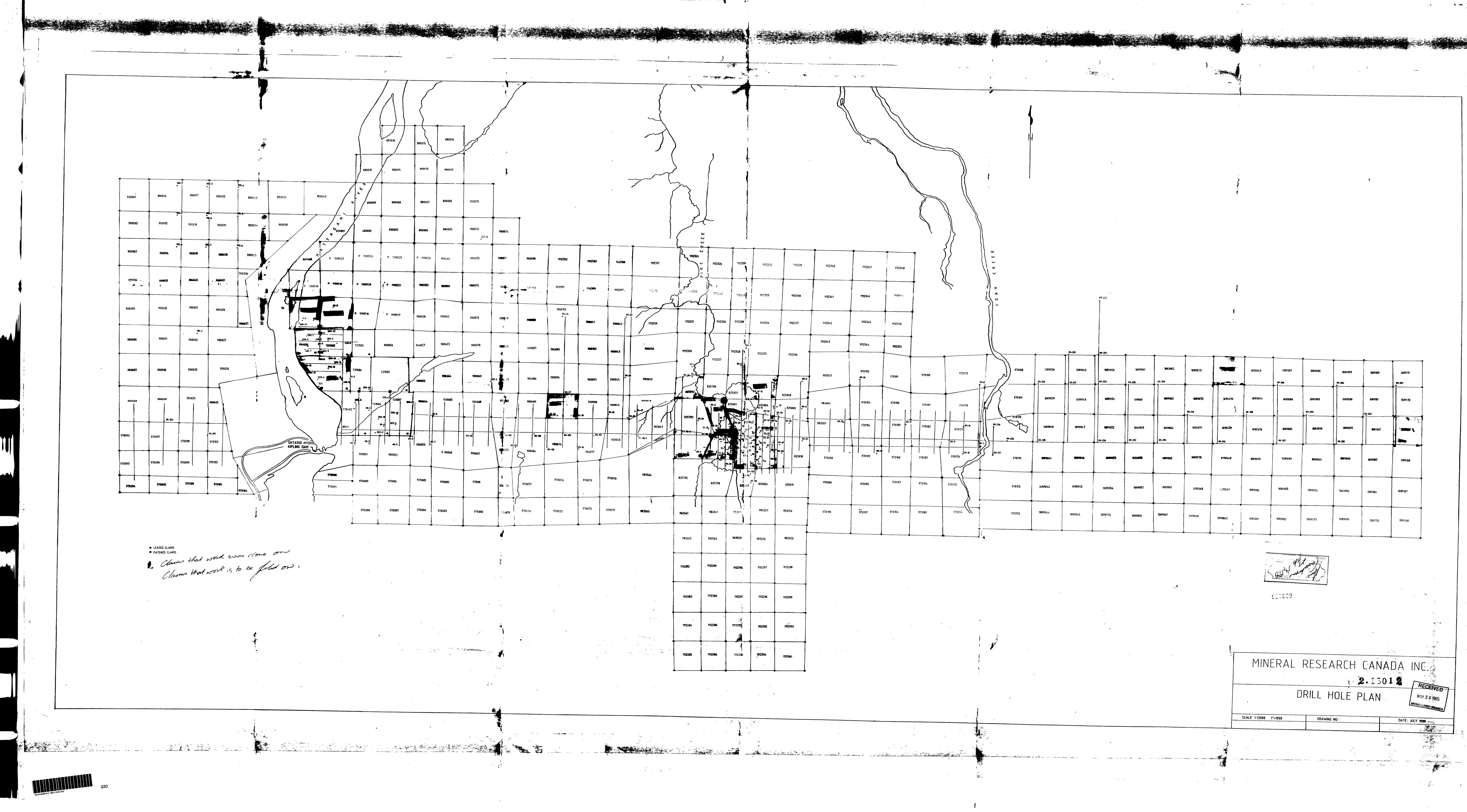
cc: Resident Geologist Timmins, Ontario Assessment Files Library $\mathcal L$ Sudbury, Ontario

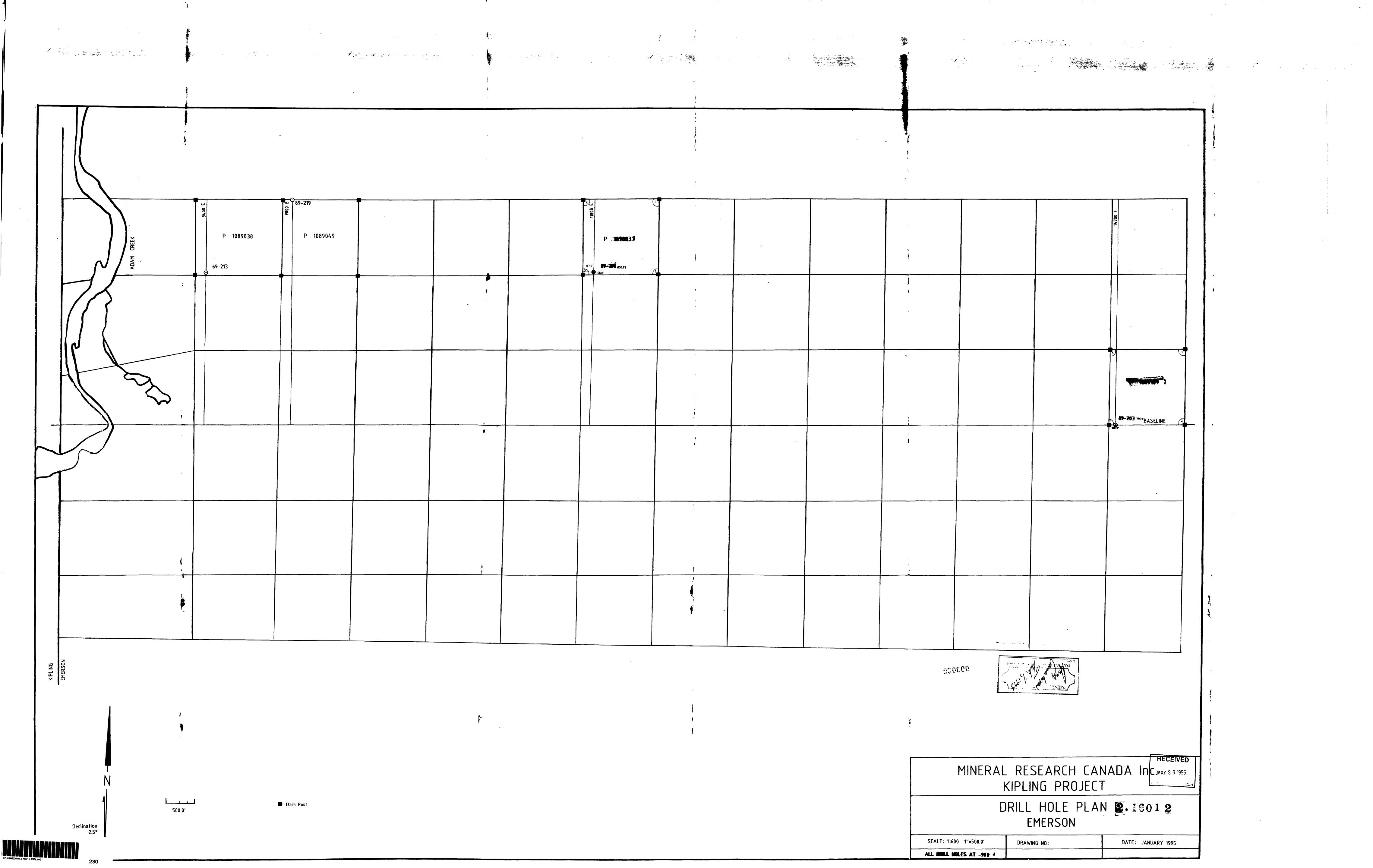
SURVEYS AND MAPPING BRANCH PORCUPINE MINING
SCALE: 40 CHAINS DIVISION IINCH LEGEND CANCELLED PATENTED LAND 400' Surface rights reservation around all lukes and rivers CROWN LAND SALL Areas withdrawn from staking under Section LEASES 43 of the Mining Act, RSO 1970
Order No File Date Disposition LOCATIO LAND LICENSE OF OCCUPATION _ 0 THE INFORMATION THAT APPEARS ON THIS MAP HAS BEEN COMPILED FROM VARIOUS SOURCES AND ACCURACY IS NOT GUARANTEED THOSE WISHING TO STAKE MIN ING CLAIMS SHOULD CON SUIT WITH THE MINING RECORDER, MINISTRY OF NORTHERN DEVELOP MENT AND MINES FOR ADDITIONAL INFORMATION 435 CON THE STATUS OF THE LANDS SHOWN HEREON MININU RIUMTS (NO MRO FLOODING RIGHTS RESERVED TO 2000 FT FACH SIDE OF CENTRE LINE OF ADAMS CREEK SURFACE KILHIS C. HECLA TO ONTARIO HYDRO 015 Spe plat (16 + 1911 () EXPLORATOR 14890 EXPLORATORY EXPLORATORY LICENCE OF OCCUPATION No. 14 889 - -1193186 89046 | 1089053 | 1089058 | 1089065 | 1089070 | 1090040 | 10890 1 | 1089091 | 743091 | 1089091 | 108303 1089042 1089045 1089054 1089057 1089068 1089069 1090041 1041 4 1041 4 1081 145 1089 1

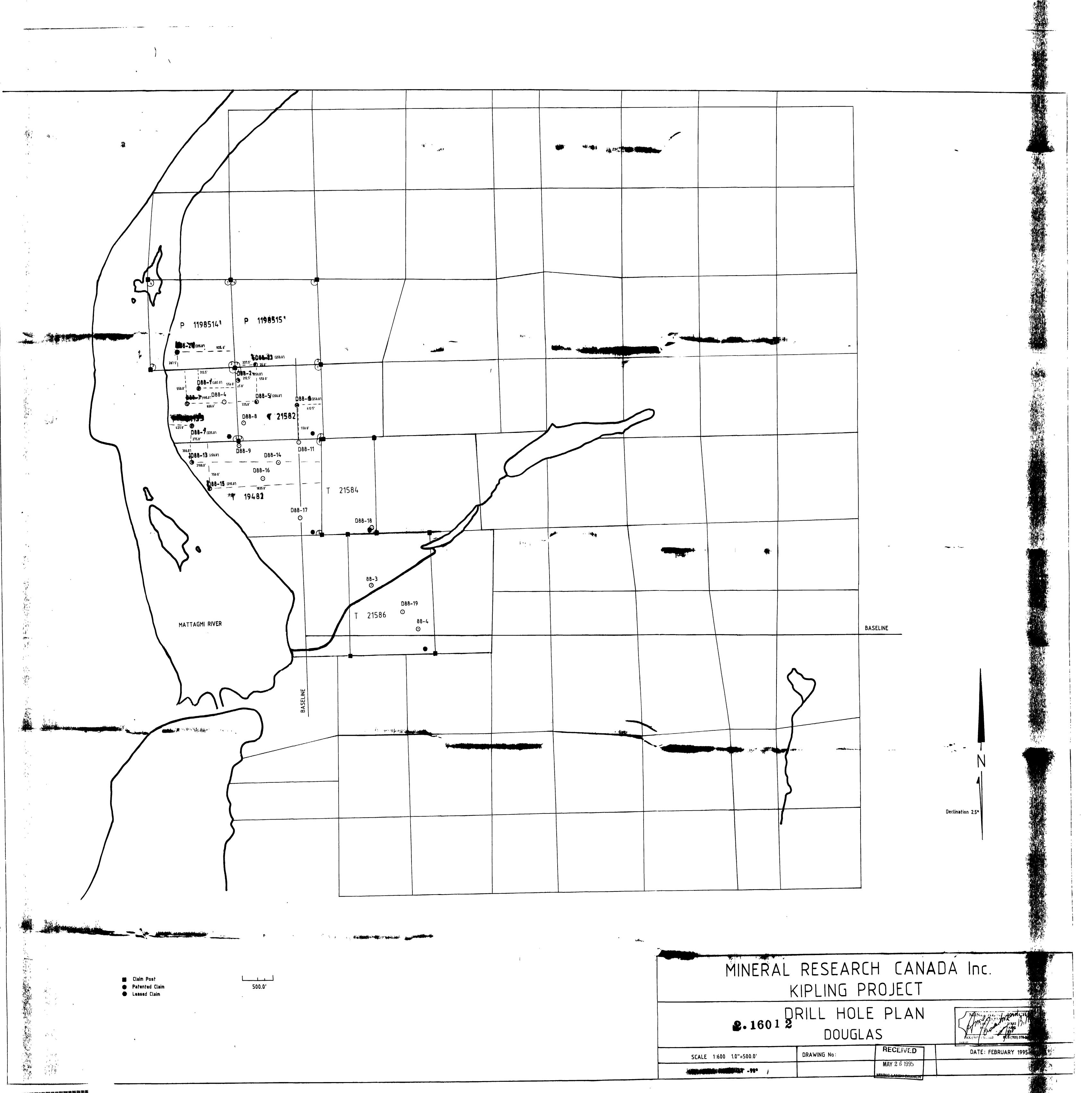












42J01NE001B 2 18012 KIPLING

000033

42/01NE0018 2.16012 KIPLING

P 900092 SCHEDULE 267 956 CLM 419 P 825792,P 825793,P 825794,P 825795,P 825796,P 825797,P 825798, P 825799,P 825800,P 825801,P 825802,P 825803,P 825804,P 825805,P 825806,P 825807,P 825808,P 825809,P 825810 /!'D P 825811 KIPLING TOWNSHIP 1000 自身 **性情**感激化的 TOWNSHIP OF KIPLING ٠, DISTRICT OF COCHRANE

SCALE - 1 inch = 400 feet P 1112335 e 1112530 P 1112320 400.0 P 1112343 1 1112 501 P 1112328 1:4200 O 89-6 - P 983553 89-20 O P 807 1. In Late -2011-P 825808 P 825800 92-12 P 825792 P 900044 P 955552 89-33 1245.87 P 825806 F 825869 P 820801 Declination 2.5° p 825793 P 825798 92-29 P900048 P 900045 THE SCLAR SCLAR OF SERVATION **33000951** 92-27 SOLAR OBSERVATION 89-18 92-28 - -Pristo P 820606 P 825802 6.34 P 8257941 P 825797 PJ88-1 O 89-113 89-120 3.70'(120m)RES = 246.09Ac(29.589ho) **⊙** 89-16 P 770200 REM LAND = 416.64Ac(168.367he) 89-114 P 900047 TOTAL = 662.13Ac(267.956ho) - 5/5511 P 825803 P 520804 89-119 · · · · · · · _____ P 900097 P 900096 MINERAL RESEARCH CANADA Inc. BEARINGS ARE ASTRONOVIC AND ARE DERIVED FROM SOLAR OBSERVATIONS AT CORNER 2E CLM 419 (LONGTUDE 82'06'50") AND REFERRED TO THE MERIDIAN THROUGH THE CENTRE OF KIPLING TOWNSHIP (LONGTUDE 82'10'30") KEY PLAN

