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MINING LANDS SECTION

NUINSCO RESOURCES LIMITED

Report on Winter 1986 Exploration Program

ON

Property Of

TANTALUS RESOURCES LIMITED
SULLIVAN BAY

ROWAN LAKE

District of Kenora
Northwestern Ontario

May 2, 1985
Ottawa, Ontario

By: Paul L. Jones, B.Sc.,
Geologist

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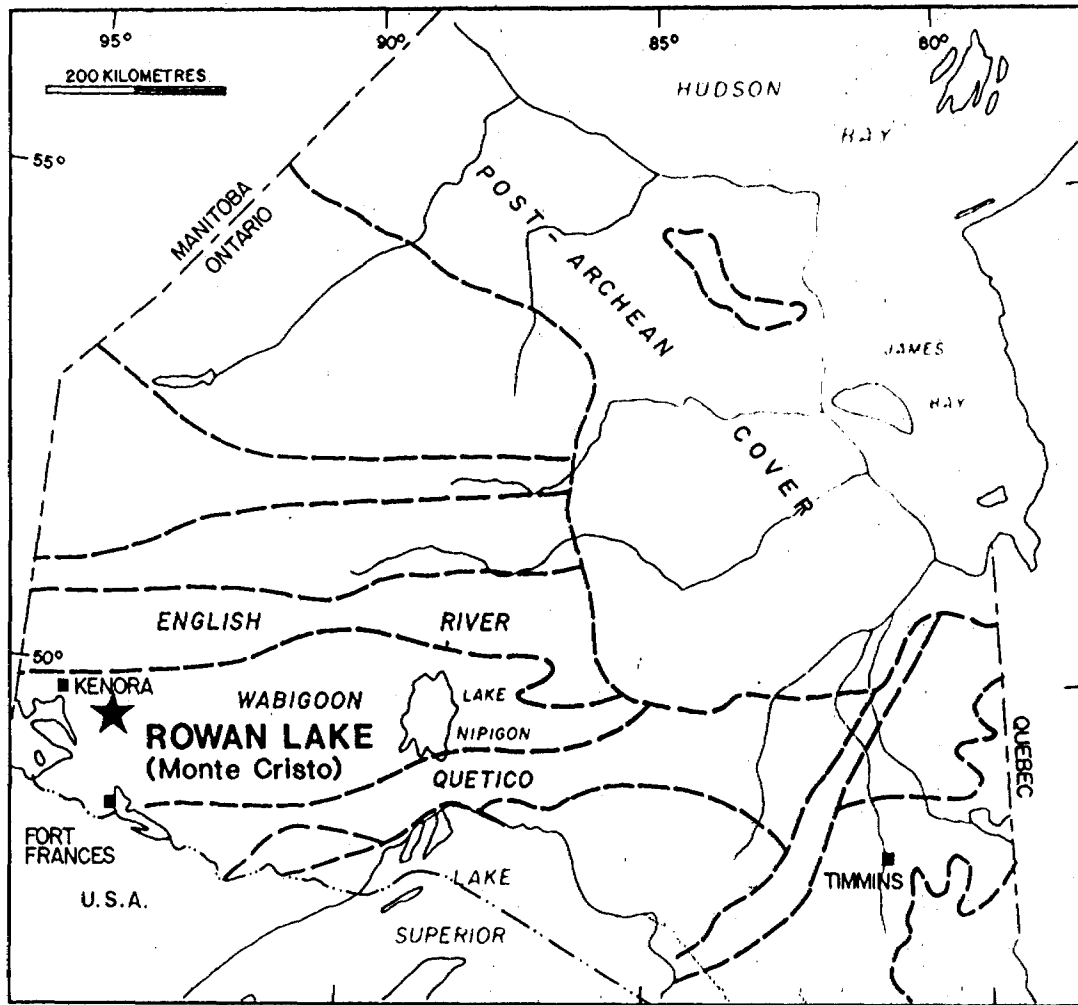
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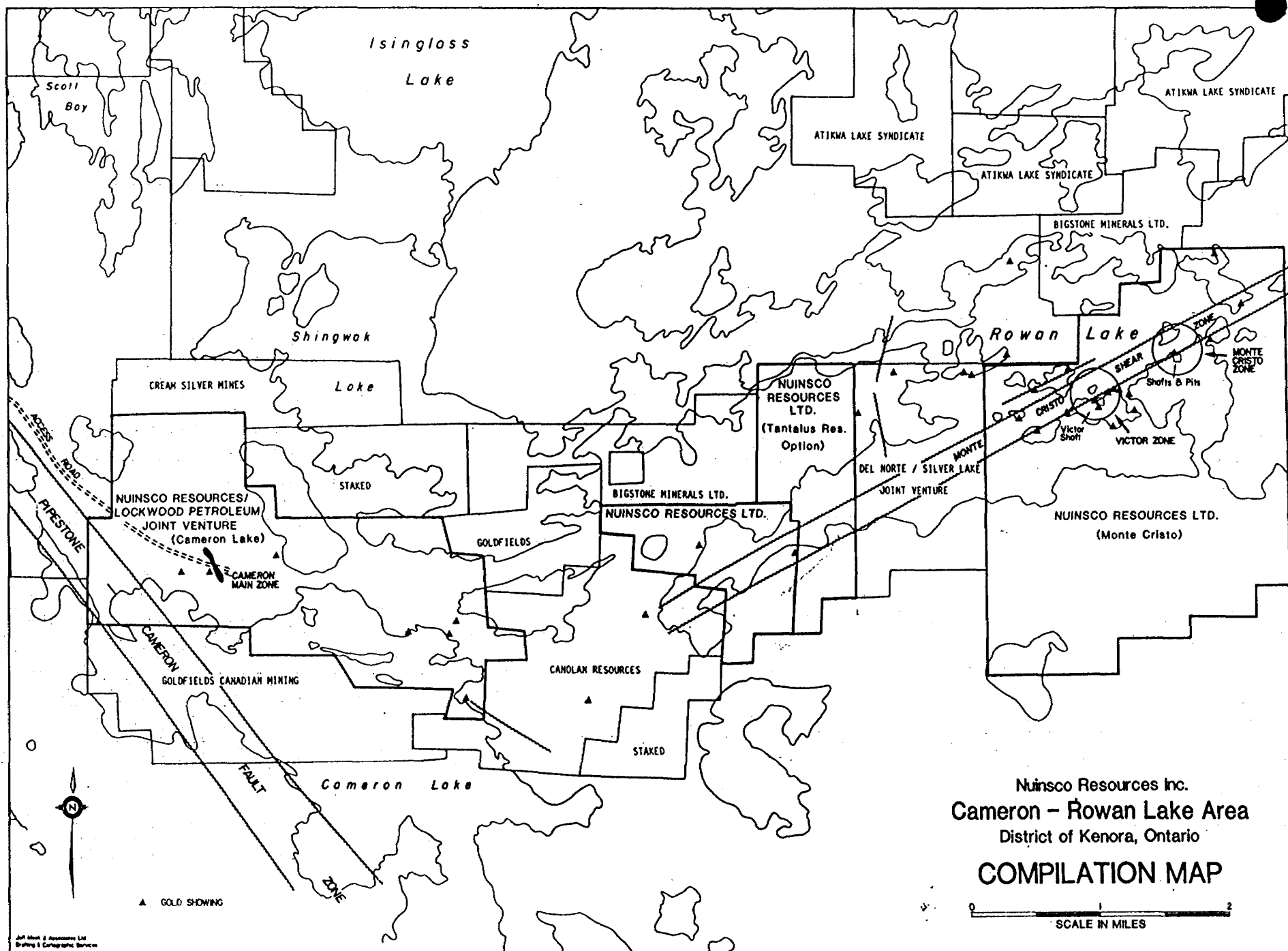
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NUINSCO RESOURCES LTD.
LOCATION MAP - ROWAN LAKE
 DISTRICT OF KENORA, ONTARIO



Nuinsco Resources Inc.
Cameron - Rowan Lake Area
District of Kenora, Ontario

COMPILATION MAP

0 1 2
SCALE IN MILES

INTRODUCTION

Between January 31st and March 13th, 1986 a two part Reverse Circulation ("RC") and diamond drilling program was conducted by Nuinsco Resources Limited ("Nuinsco") under an option agreement with Tantalus Resources Limited ("Tantalus") on its 19 claim property located in the Kenora district, Northwestern Ontario.

Two fully unitized, skid mounted, rotary reverse circulation drills capable of penetrating to 350 feet (107 m) of overburden with a tricone bit were used to drill the holes. Drills were contracted from Bradley Bros., of Timmins, Ontario.

Purpose of the study was to test for dispersion trains derived from glacial erosion of rock overlain by Rowan Lake and spatially associated with the known and interpreted location of the Monte Cristo Shear Zone, a known gold bearing, structurally deformed zone which crosscuts part of the lake.

Overburden drilling has been found to be an efficient method of evaluating large tracts of land at reasonable cost per unit area. It is particularly attractive where known mineral related structures are inaccessible because of deep overburden and permits investigation of areas that display a poor response to other exploration methods (Gray, 1983).

Because of the deep water, overburden cover, and inconclusive results obtained from geophysical methods, reverse circulation drilling was considered to be a useful exploration method on Sullivan Bay.

Further, a diamond drill hole was completed to intersect lithologies underlying high anomalous gold values from one of the RC drill holes.

PROPERTY OPTION

In consideration for granting a working option on the Tantalus block of 19 claims located on Sullivan Bay, Nuinsco undertook a work program on the basis of \$75,000 in exploration expenditures prior to May 31, 1986. Should Nuinsco decide to maintain the option in good standing, further accumulative exploration expenditures would have to be completed as follows:

- a) \$150,000 by May 31, 1987 to earn a 25% interest in the property;
- b) \$400,000 by May 31, 1988 to earn a 40% interest in the property;
- c) \$650,000 by May 31, 1989 to earn a 60% interest in the property;

Further exploration expenditures will be conducted under a joint venture, subject to pro-rata dilution in the event either party fails to advance its share of expenditures. Upon any venturer being reduced below a 20% interest then such interest shall be converted to a 20% net profits interest with no further direct interest in the property, at which time the joint venture shall be deemed terminated. For a period of 10 years after termination of the joint venture, Nuinsco will hold an option to purchase, for \$250,000,

half of the Tantalus interest leaving Tantalus with a carried 10% net profits interest.

Work completed on the property to date totals \$78,552 (see Schedule "A") annexed hereto. Thus Nuinsco has completed its initial work commitment and the option remains in force until May 31, 1987.

LOCATION, PHYSIOGRAPHY, AND ACCESS

The Tantalus property is situated in Northwestern Ontario, approximately 19 miles (31 km) northeast of the village of Nestor Falls which straddles Highway #71 midway between Kenora and Fort Frances.

The claim group surrounds the mid-part of Sullivan Bay on Rowan Lake. Topographic relief is pronounced on land to the north and south of the lake, and outcrops are abundant. On the property the water of Sullivan Bay ranges from less than 20 feet (6 m) to greater than 80 feet (24 m). All RC and diamond drilling was conducted this past winter from the ice surface.

During the summer access to the property is by floatplane or helicopter and a boat is necessary for local travel. An ice road from Highway #71 at Nestor Falls across Kakagi (Crow) Lake, Cameron Lake, Rowan Lake and the intervening portages has provided access during the past three winter work seasons. The bush access road, completed late in 1985 connecting Nuinsco's Cameron Lake discovery with Highway #71, has greatly facilitated access to Rowan Lake.

EXPLORATION METHOD

Between January 31st and February 4th, 1986 twenty six (26) RC holes were completed in a "first pass" of the property; two of the holes were stopped before reaching bedrock. Holes were drilled on line spacing of 600 feet (183 m) with 200 feet (61 m) separating drill holes on the lines. In this manner four lines of holes were completed (see Figure 2), totalling 2831 ft (862.9 m) of drilling.

All coarse clastic material encountered in the drill holes was sampled. The grey and brown clay which almost ubiquitously covers the lake bottom was left unsampled. The sample interval varied in some cases depending on local drilling conditions and overburden thicknesses (refer to RC drill profiles). Also, a bedrock chip sample, which varied in size from one foot to four feet (0.3-1.2 m), was collected.

Clastic samples were sent to Overburden Drilling Management Ltd., Ottawa, where visual analysis and heavy mineral concentration took place. From there the samples were forwarded to Bondar Clegg Ltd., also in Ottawa, for geochemical analysis (fire assay-atomic absorption). All bedrock chip samples were classified geologically in the field and then forwarded to Bondar Clegg for analysis (fire assay-atomic absorption). By this method a total of thirty-seven (37) overburden and twenty-four (24) bedrock chip samples were submitted.

Whilst awaiting results further RC drilling was completed on adjoining properties.

Initially geochemical results were obtained for RC hole NMO-86-107 and for even numbered holes NMO-86-108 through NMO-86-122 inclusive. Two holes within this group returned anomalous results, NMO-86-107 and NMO-86-110 (see Results section).

"Follow-up" drilling on the anomalous holes consisted of eleven (11) RC holes (odd numbered RC holes NMO-86-237 to NMO-86-257 inclusive), drilled between March 9th and March 13th. A total of 1576 feet (480.4 m) of additional drilling was completed. The holes were drilled on a 200 foot (61 m) line spacing with 200 feet separating drill holes on each line. A hole was also collared 50 feet (15.2 m) on either side of the original anomaly (see Figure 2). A further twenty-two (22) overburden samples and ten (10) bedrock chip samples were submitted for analysis.

Results from the remaining "first pass" RC holes were not received before breakup and, therefore, further "follow-up" drilling was not possible.

RESULTS

Water depth varies from 22 to 83 feet (6.7 to 25.3 m) while overburden thicknesses range from 18.5 to 90 feet (5.6 to 27.4 m), (see Figures 4 and 5).

The Quaternary stratigraphy of the property is quite simple. The first overburden encountered is the ubiquitous grey and brown glaciolacustrine and lacustrine clay. The grey clay is soft, saturated and smooth and overlies the better indurated brown clay. Speculation is that the brown clay may have been deposited in glacial Lake Agassiz.

Underlying the clay and usually overlying bedrock is the grey-green basal till which comprises the overwhelmingly dominant portion of the coarse clastic overburden. The till has a fine grey to green sand to silty-sand matrix and dominantly pebble sized clasts, although interbedded cobbly till layers are not uncommon (refer to appended cross-sections). Metavolcanic clasts are more abundant than granitoid clasts in most holes. Boulders are commonly intersected, usually of granitoid composition.

Occasionally overlying and rarely interbedded with the till are glaciofluvial sand and gravel lenses. These lenses are usually on the order of one foot to five feet (0.3 to 1.2 m) thick and usually cannot be correlated between drill holes; they are considered to be a minor component of the overburden stratigraphy here. The gravels are similar in appearance to the till but matrix grain size is larger consisting of medium to coarse grained sand while clasts (dominantly pebbles) may be rounded. The sand layers are similar in appearance to the till matrix, being composed of fine to medium grained grey sand in which clay and pebble sized material may occur.

Lithologies observed in the bedrock chip samples include mafic metavolcanics (both flows and volcaniclastics), mafic intrusions (gabbroid), intermediate metavolcanics (volcaniclastic), and a possible felsic intrusion.

For a complete list of geochemical results refer to Figure 2 and Appendix 1. Three RC holes drilled in the "first pass" returned anomalous gold

values. NMO-86-107, located on line 142+00W at 22+00N, assayed 25,000 ppb in the lower sample where an Irregular 450 μ by 600 μ by 83 μ gold grain was observed. The bedrock chip sample assayed less than 5 ppb. NMO-86-110 on the same line at 26+00N assayed 1230 ppb in an upper till sample and 50 ppb in a lower sample; the bedrock chip sample assayed less than 5 ppb.

NMO-86-123 on line 160+00W at 30+00N assayed 4720 ppb in the single till sample collected and less than 5 ppb in the bedrock chip sample. Because of break-up, it was not possible to conduct "follow-up" drilling on this anomaly during the winter work period.

Of note are drill holes NMO-86-108 and NMO-86-136. In NMO-86-108 three small, delicate gold grains were observed suggesting a short transport distance from the bedrock source. However, assay values were low (110ppb, 145ppb, 150ppb) in the three till samples collected. Three abraded and one delicate gold grains were observed in the upper two of three till samples obtained from NMO-86-136, indicating that the gold grains may have been transported some distance from source, i.e., greater than ~~1000~~²⁰⁰ m using the same criteria as above.

"Follow-up" drilling, conducted on lines 200 ft (61 m) and 400 ft (122 m) up-ice from the anomalies identified in NMO-86-107 and NMO-86-110 produced encouraging results, (refer to Figure x). Till in hole NMO-86-237 assayed 45 ppb and 3985 ppb, while up-ice from NMO-86-110 values of 660 ppb, 570 ppb and 3120 ppb were recorded amongst several low values in holes NMO-86-243, 245 and 247 respectively. Other values of note are NMO-86-249 drilled to the south of the "first pass" anomalies produced a value of 1310 ppb in the upper of two samples, while NMO-86-251 drilled adjacent to NMO-86-107 assayed 2695 ppb in the lower of two samples collected.

These values illustrate the fact that the area in the vicinity of the boundary between the Nuinsco/Tantalus option and the Silver Lake/Del Norte is geochemically enriched in gold.

Silver Lake Resources report numerous values of greater than 1000 ppb in RC holes up-ice from those reported here by Nuinsco. The combined Nuinsco/Silver Lake results form a general northeast-southwest trend, which crosses the property boundaries and will require further examination; perhaps in a cooperative effort between Nuinsco and Silver Lake.

DIAMOND DRILLING

A diamond drill hole (NT-1) was collared on line 142+00W at 23+20N with the intention of intersecting lithologies underlying the highly anomalous overburden sample in RC hole NMO-107. At the time the hole was drilled, results of "follow-up" RC drilling were not available from the Tantalus property or that of Silver Lake/Del Norte, immediately to the east.

The single diamond drill hole, NT-1, intersected a thick package of interbedded mafic tuffs and tuffaceous-sediments and mafic flows. The hole was terminated at 703 feet (214.3 m) in pyritic tuffs. All samples from the hole assayed trace values (refer to Appendix x).

CONCLUSIONS

A total of 4407 feet (1343.3 m) of RC drilling was completed on the Tantalus option in twenty-six (26) "first-pass" and eleven (11) "follow-up" holes.

Three strong geochemical gold anomalies within till were identified in holes NMO-86-107 (gold bearing), NMO-86-110, and NMO-86-123, which would otherwise have remained undetected. In two further RC holes, NMO-86-108, and NMO-86-136, a total of seven (7) gold grains were observed.

Further drilling has identified anomalous values in tills up-ice and adjacent to the values in the holes described above, enhancing the possibility of a bedrock gold source in the area.

Although the diamond drill hole, NT-1, did intersect significant thicknesses of pyritic tuff or tuffaceous-sediment similar in appearance to that which returned gold assays elsewhere, all samples submitted returned trace values. Work to date has failed to identify a bedrock source for the gold identified in the RC basal till program.

RECOMMENDATIONS

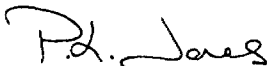
1.) Detailed prospecting should be carried out on the lithologies north of the anomalous RC values. If a likely bedrock gold source is located the option to test mineralization with short drill holes should be examined.

2.) The possibility of a diamond drill hole collared on the shoreline of Sullivan Bay to test for the possible extension of gold mineralization related to the Silver Lake occurrence near line 124+00W, should also be examined. This could take the form of a joint venture hole between Nuinsco and Silver Lake.

3.) Further RC drilling during the 1987 winter work season should be considered to follow up those anomalies for which "follow-up" drilling was not completed during the 1986 programme.

Because work to be carried out on the property during the summer period will consist largely of prospecting and reconnaissance work upon which further work will depend, no budget is being allocated at this time.

Respectfully submitted



Paul Jones
Geologist

REFERENCES

Gray, R. S., 1983

Overburden Drilling As A Tool For Gold Exploration,
Text of a Paper Presented at the 1983 CIM Annual
General Meeting, April 17-20, 1983, 32 pp.

Sauerbrei, J. A., E. F. Pattison, S. A. Averill, 1985

Till Sampling In The Casa Berardi Area, Quebec.
A Case History In Orientation And Discovery;
Text of a Paper Presented at the 11th International
Geochemical Symposium, Toronto, April 30, 1985, 29 pp.

EXPLORATION EXPENDITURESTantalus Option
to

May 2, 1986

Property Examination including:

Geological reconnaissance, examination of drill sites, checking drill core, etc.;	\$ 900.00
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Reverse Circulation drilling:

4,407 ft @ \$11.35/ft *	50,019.45
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Diamond Drilling:

DDH #NT-1, 703ft	17,050.00
Assays, core trays, shipping, etc.	<u>337.00</u>

	<u>68,306.45</u>
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Infrastructure, supervision & overhead @ 15%	<u>10,245.97</u>
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Total Expenditures:	<u>78,552.42</u>
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* Breakdown of Reverse Circulation Costs

RC drilling on all properties in area totalled 31,440 ft at an all-in cost of \$356,863.00; therefore, average cost per ft = \$11.35.

Tantalus share = $4407/31440 = 14.02\%$.

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BB  BB  CCC  SSS  TTT  A  TTT  SSS
BB  BBB  CCC  SSS  TTT  AAAAAA  TTT  SSS
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Rondar-Class Geochemical Statistics Package

NUINSCO - OVBURDEN SAMPLES
NUINSCO

Data Listings

Sample Identifier SAMPID	Gold Au Test W AU TESTWT PPB sm	
NMO-86-001-01-3/4	275	*.*
NMO-86-002-01-3/4	2740	6.00
NMO-86-002-01-G	<5	*.*
NMO-86-005-01-3/4	180	6.00
NMO-86-008-01-3/4	60	6.20
NMO-86-009-01-3/4	70	6.50
NMO-86-009-02-3/4	150	5.30
NMO-86-010-01-3/4	545	*.*
NMO-86-010-02-3/4	55	*.*
NMO-86-011-01-H	90	3.50
NMO-86-012-01-3/4	60	8.90
NMO-86-012-02-3/4	285	*.*
NMO-86-013-01-H	6270	0.92
NMO-86-014-01-3/4	175	8.00
NMO-86-014-02-3/4	280	4.20
NMO-86-015-01-3/4	50	*.*
NMO-86-016-01-H	120	1.22
NMO-86-016-02-3/4	275	*.*
NMO-86-017-01-3/4	90	3.90
NMO-86-020-01-3/4	40	8.90
NMO-86-021-01-3/4	120	3.60
NMO-86-021-02-3/4	160	*.*
NMO-86-021-03-3/4	125	6.60
NMO-86-022-01-3/4	295	*.*
NMO-86-023-01-H	865	1.47
NMO-86-025-01-3/4	315	9.20
NMO-86-026-01-3/4	178	4.10
NMO-86-026-02-3/4	660	7.40
NMO-86-026-03-3/4	640	7.88
NMO-86-026-04-3/4	80	2.50
NMO-86-028-01-H	25	3.00
NMO-86-029-01-3/4	30	2.30
NMO-86-030-03-3/4	170	9.20
NMO-86-031-01-3/4	145	8.20
NMO-86-033-01-H	322	0.77
NMO-86-034-01-3/4	1445	*.*
NMO-86-034-01-G	<5	*.*
NMO-86-035-01-H	75	2.23
NMO-86-037-01-H	270	2.84
NMO-86-038-01-3/4	240	*.*
NMO-86-038-02-3/4	465	*.*
NMO-86-039-01-3/4	425	*.*
NMO-86-039-02-3/4	130	8.40
NMO-86-040-01-3/4	105	*.*
NMO-86-040-02-3/4	235	*.*
NMO-86-040-03-3/4	145	*.*
NMO-86-041-01-3/4	1300	4.00
NMO-86-041-01-G	<5	*.*
NMO-86-042-01-3/4	35	6.00
NMO-86-042-02-3/4	50	*.*

NUINSCO - OVERBURDEN SAMPLES
NUINSCO

Data Listings

Sample Identifier SAMPID	Gold Au PPE	Test W TESTWT gm
NMO-86-042-03-3/4	40	1.22
NMO-86-044-01-3/4	75	1.11
NMO-86-044-01-G	45	1.11
NMO-86-044-02-3/4	1050	1.11
NMO-86-045-01-3/4	920	3.50
NMO-86-045-01-G	45	1.11
NMO-86-047-01-3/4	1125	3.00
NMO-86-047-01-G	45	1.11
NMO-86-048-01-3/4	100	4.00
NMO-86-048-02-H	65	2.00
NMO-86-048-03-3/4	100	4.00
NMO-86-049-01-H	295	3.50
NMO-86-051-01-3/4	410	5.50
NMO-86-052-01-3/4	350	1.11
NMO-86-053-01-G	45	1.11
NMO-86-053-01-H	930	1.35
NMO-86-054-01-3/4	310	1.11
NMO-86-055-01-3/4	360	7.00
NMO-86-057-01-3/4	415	4.00
NMO-86-060-01-3/4	60	1.11
NMO-86-060-02-3/4	590	1.11
NMO-86-060-03-3/4	150	1.11
NMO-86-061-01-3/4	500	1.11
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NMO-86-066-01-3/4	120	1.11
NMO-86-069-01-3/4	75	1.11
NMO-86-070-01-H	105	1.34
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NMO-86-073-01-3/4	150	9.80
NMO-86-073-02-3/4	200	1.11
NMO-86-073-03-3/4	245	1.11
NMO-86-075-01-3/4	170	1.11
NMO-86-076-01-H	120	1.11
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NMO-86-078-01-3/4	110	1.11
NMO-86-081-01-H	90	1.11
NMO-86-082-01-3/4	130	1.11
NMO-86-082-02-3/4	85	1.11
NMO-86-084-01-3/4	80	1.11
NMO-86-084-02-3/4	35	1.11
NMO-86-085-01-3/4	210	1.11
NMO-86-087-01-H	3120	1.11
NMO-86-088-01-3/4	465	1.11
NMO-86-089-01-3/4	170	1.11
NMO-86-091-01-3/4	500	1.11
NMO-86-093-01-H	85	1.11
NMO-86-094-01-3/4	25	1.11
NMO-86-096-01-H	50	1.11

NUINSCO - OVERBURDEN SAMPLES
NUINSCO

Data Listings

Sample Identifier SAMPID	Gold Au PPB	Test # TESTWT gm
NMO-86-097-01-3/4	35	*.*
NMO-86-098-01-H	300	*.*
NMO-86-099-01-3/4	95	*.*
NMO-86-101-01-3/4	60	*.*
NMO-86-102-01-3/4	140	*.*
NMO-86-103-01-3/4	<20	*.*
NMO-86-104-01-H	110	*.*
NMO-86-105-01-3/4	110	*.*
NMO-86-106-01-3/4	>20000	*.*
NMO-86-107-01-3/4	1425	*.*
NMO-86-107-02-3/4	>20000	*.*
NMO-86-108-01-3/4	100	*.*
NMO-86-108-02-3/4	150	*.*
NMO-86-108-03-3/4	145	*.*
NMO-86-109-01-3/4	180	*.*
NMO-86-110-01-3/4	1230	*.*
NMO-86-110-02-3/4	50	*.*
NMO-86-111-01-3/4	105	*.*
NMO-86-112-01-3/4	35	*.*
NMO-86-113-01-3/4	60	*.*
NMO-86-114-01-3/4	130	*.*
NMO-86-115-01-3/4	325	*.*
NMO-86-116-01-3/4	200	*.*
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NMO-86-116-04-3/4	120	*.*
NMO-86-117-01-3/4	100	3.00
NMO-86-117-02-3/4	115	*.*
NMO-86-118-01-3/4	570	*.*
NMO-86-119-01-3/4	125	5.00
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NMO-86-121-01-3/4	45	*.*
NMO-86-122-01-3/4	200	*.*
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NMO-86-124-01-3/4	95	*.*
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NMO-86-126-01-3/4	95	*.*
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NUINSCO - OVERBURDEN SAMPLES
NUINSCO

Data Listings

Sample Identifier SAMPID	Gold Au AU PPB	Test W TESTWT gm
NMO-86-131-09-3/4	225	8.00
NMO-86-131-10-3/4	60	6.00
NMO-86-131-11-3/4	210	*.**
NMO-86-132-01-3/4	50	*.**
NMO-86-133-01-H	205	1.60
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NMO-86-135-01-3/4	15	7.00
NMO-86-135-02-3/4	45	*.**
NMO-86-136-01-3/4	150	*.**
NMO-86-136-02-3/4	120	*.**
NMO-86-136-03-3/4	170	8.00
NMO-86-137-01-3/4	465	*.**
NMO-86-137-02-3/4	165	*.**
NMO-86-138-01-3/4	105	8.00
NMO-86-138-02-3/4	80	5.00
NMO-86-139-01-3/4	960	*.**
NMO-86-140-01-3/4	140	6.00
NMO-86-141-01-3/4	150	6.00
NMO-86-141-02-3/4	990	*.**
NMO-86-142-01-H	2345	1.60
NMO-86-142-02-3/4	400	4.00
NMO-86-142-03-3/4	100	7.00
NMO-86-142-04-3/4	3280	8.00
NMO-86-142-05-3/4	570	8.00
NMO-86-142-06-3/4	500	9.00
NMO-86-142-07-3/4	90	7.50
NMO-86-142-08-3/4	55	8.00
NMO-86-143-01-3/4	370	*.**
NMO-86-143-02-3/4	305	2.00
NMO-86-143-03-3/4	665	8.00
NMO-86-143-04-3/4	365	*.**
NMO-86-144-01-3/4	100	*.**
NMO-86-144-02-3/4	110	*.**
NMO-86-145-01-3/4	810	*.**
NMO-86-145-02-3/4	265	*.**
NMO-86-145-03-3/4	1970	*.**
NMO-86-145-04-3/4	650	2.00
NMO-86-146-01-3/4	575	3.00
NMO-86-146-02-H	130	1.00
NMO-86-146-03-3/4	375	1.50
NMO-86-146-04-3/4	135	1.50
NMO-86-146-05-3/4	160	9.00
NMO-86-146-06-H	225	2.00
NMO-86-146-07-3/4	115	3.00
NMO-86-147-01 H	25	2.00
NMO-86-150-01-3/4	160	6.00
NMO-86-150-02-3/4	185	*.**
NMO-86-151-01 3/4	620	9.00
NMO-86-152-01-3/4	745	2.00
NMO-86-152-02-H	235	1.50

NUINSCO - OVERBURDEN SAMPLES
NUINSCO

Data Listings

Sample Identifier SAMPID	Gold Au PPB	Test W TESTWT sm
NMO-86-152-03-3/4	125	2.50
NMO-86-153-01 3/4	45	4.00
NMO-86-154-01-3/4	80	6.00
NMO-86-154-02-H	105	3.00
NMO-86-154-03-3/4	665	4.00
NMO-86-155-01 3/4	35	3.00
NMO-86-156-01 H	40	2.00
NMO-86-156-01-3/4	935	2.00
NMO-86-156-02-3/4	150	*.**
NMO-86-157-01 3/4	545	*.**
NMO-86-158-01 3/4	275	*.**
NMO-86-158-02 3/4	145	5.00
NMO-86-160-01 3/4	1060	3.00
NMO-86-161-01 3/4	590	*.**
NMO-86-162-01 3/4	115	3.00
NMO-86-163-01 H	90	1.00
NMO-86-164-01 3/4	215	*.**
NMO-86-164-02 3/4	995	4.00
NMO-86-165-01 3/4	600	*.**
NMO-86-165-02 3/4	420	*.**
NMO-86-167-01 3/4	235	*.**
NMO-86-168-01 3/4	35	9.00
NMO-86-168-02 3/4	65	*.**
NMO-86-171-01 3/4	35	9.00
NMO-86-172-01 3/4	140	9.00
NMO-86-172-02 3/4	1630	5.00
NMO-86-173-01 3/4	30	8.00
NMO-86-174-01 3/4	105	*.**
NMO-86-175-01 3/4	715	5.00
NMO-86-177-01 3/4	30	*.**
NMO-86-178-01 3/4	50	5.00
NMO-86-179-01 3/4	1015	7.00
NMO-86-179-02 3/4	1610	2.00
NMO-86-180-01 3/4	825	5.00
NMO-86-181-01 3/4	125	5.00
NMO-86-183-01 3/4	1160	5.00
NMO-86-184-01 H	2280	0.50
NMO-86-185-01 H	1070	2.00
NMO-86-185-02 H	140	0.80
NMO-86-186-01 3/4	435	*.**
NMO-86-187-01 3/4	245	*.**
NMO-86-188-01 3/4	110	3.00
NMO-86-189-01 H	55	2.00
NMO-86-190-01 3/4	115	*.**
NMO-86-191-01 3/4	1780	3.00
NMO-86-192-01 H	<15	3.00
NMO-86-192-02 3/4	75	*.**
NMO-86-193-01 3/4	220	7.00
NMO-86-194-01 3/4	85	*.**
NMO-86-195-01 3/4	25	3.00

NUINSCO - OVERBURDEN SAMPLES
NUINSCO

Data Listings

Sample Identifier SAMPID	Gold Au Test W AU TESTWT PPR gm	
NMO-86-196-01-3/4	350	6.00
NMO-86-197-01 3/4	135	*.**
NMO-86-198-01-3/4	1775	4.00
NMO-86-199-01 3/4	990	5.00
NMO-86-199-02 H	60	2.00
NMO-86-200-01-3/4	120	4.00
NMO-86-201-01 3/4	80	1.00
NMO-86-202-01-3/4	1160	*.**
NMO-86-204-01-3/4	835	*.**
NMO-86-204-02-3/4	100	6.00
NMO-86-204-03-3/4	<20	3.00
NMO-86-206-01-3/4	570	7.00
NMO-86-207-01-3/4	30	5.00
NMO-86-207-02-3/4	215	4.00
NMO-86-208-01-3/4	680	4.00
NMO-86-209-01-3/4	1875	5.00
NMO-86-210-01-3/4	980	8.00
NMO-86-211-01-3/4	170	*.**
NMO-86-212-01-3/4	85	3.00
NMO-86-214-01-3/4	265	*.**
NMO-86-215-01-3/4	440	4.00
NMO-86-216-01-3/4	25	2.00
NMO-86-217-01-3/4	215	6.00
NMO-86-218-01-3/4	<55	0.95
NMO-86-219-01-3/4	130	*.**
NMO-86-219-02-3/4	470	6.00
NMO-86-220-01-3/4	145	*.**
NMO-86-221-01-3/4	40	4.00
NMO-86-222-01-3/4	175	6.00
NMO-86-224-01-3/4	3380	*.**
NMO-86-225-01-3/4	95	4.00
NMO-86-226-01-3/4	435	4.50
NMO-86-227-01-3/4	125	*.**
NMO-86-228-01-3/4	500	1.00
NMO-86-229-01-3/4	160	*.**
NMO-86-230-01-3/4	180	6.00
NMO-86-230-02-3/4	55	8.00
NMO-86-230-03-3/4	240	*.**
NMO-86-231-01-3/4	570	4.00
NMO-86-232-01-3/4	90	4.00
NMO-86-232-02-H	380	1.00
NMO-86-233-01-3/4	140	3.00
NMO-86-234-01-3/4	6190	6.50
NMO-86-235-01-3/4	30	5.00
NMO-86-235-02-3/4	795	5.00
NMO-86-235-03-3/4	260	3.00
NMO-86-236-01-H	310	2.50
NMO-86-237-01 3/4	45	4.00
NMO-86-237-02	3985	1.55
NMO-86-238-01-3/4	280	*.**

NUINSCO - OVERBURDEN SAMPLES
NUINSCO

Data Listings

Sample Identifier SAMPID	Gold Au Test W AU TESTWT PPB sm	
NMO-86-238-02-3/4	125	8.50
NMO-86-238-03-3/4	200	*.##
NMO-86-238-04-3/4	355	7.00
NMO-86-239-01	255	5.00
NMO-86-240-01-3/4	250	*.##
NMO-86-240-02-3/4	105	8.00
NMO-86-241-01 3/4	225	*.##
NMO-86-241-03 3/4	85	*.##
NMO-86-242-01-3/4	330	1.00
NMO-86-243-01 3/4	160	*.##
NMO-86-243-02 3/4	265	*.##
NMO-86-243-03 3/4	660	8.00
NMO-86-243-04 3/4	150	6.50
NMO-86-244-01a-3/4	815	4.50
NMO-86-244-01b-3/4	480	*.##
NMO-86-244-02 3/4	320	*.##
NMO-86-245-01 3/4	570	4.00
NMO-86-245-01-3/4	340	9.00
NMO-86-246-01 3/4	270	7.00
NMO-86-247-01 3/4	80	*.##
NMO-86-247-01-3/4	110	3.00
NMO-86-247-02 3/4	3120	*.##
NMO-86-247-02-3/4	100	1.30
NMO-86-249-01 3/4	1310	*.##
NMO-86-249-02 3/4	225	*.##
NMO-86-250-01 3/4	465	*.##
NMO-86-251-01-3/4	120	7.00
NMO-86-251-02 3/4	55	7.50
NMO-86-251-03 3/4	2695	*.##
NMO-86-254-01 3/4	195	5.50
NMO-86-255-02 3/4	295	*.##
NMO-86-255-03 3/4	485	*.##
NMO-86-255-04-3/4	75	*.##
NMO-86-256-01-3/4	85	*.##
NMO-86-256-02-3/4	105	*.##
NMO-86-257-01-3/4	495	*.##
NMO-86-257-02-3/4	120	*.##
NMO-86-258-01-3/4	210	9.00
NMO-86-258-02-3/4	45	3.00
NMO-86-258-03-3/4	75	2.00
NMO-86-259-01-3/4	90	2.00
NMO-86-259-02-3/4	55	3.00
NMO-86-259-03-3/4	320	3.00
NMO-86-260-01-3/4	<50	1.00
NMO-86-261-01-3/4	<25	2.00
NMO-86-261-02-3/4	400	0.15
NMO-86-262-01-3/4	90	4.00
NMO-86-262-02-3/4	50	*.##
NMO-86-262-03-3/4	105	*.##
NMO-86-262-04-3/4	15	*.##

NUINSCO - OVERBURDEN SAMPLES
NUINSCOData Listings

Sample Identifier SAMPID	Gold Au Test W AU TESTWT PPB Sm	
NMD-86-263-01-3/4	135	***
NMD-86-264-01-3/4	2045	***
NMD-86-264-02-3/4	>20000	***
NMD-86-264-03-3/4	190	***
NMD-86-265-01-3/4	125	***
NMD-86-267-01-3/4	140	***
NMD-86-267-02-3/4	465	***
NMD-86-267-03-3/4	900	***



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MINING LANDS SECTION

Rowan Lake Gold Property
(Monte Cristo Project)

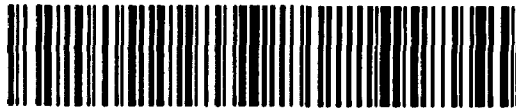
District of Kenora
Northwestern Ontario

REVERSE CIRCULATION (RC) OVERBURDEN DRILLING

Report on Exploration Activities
Winter 1986

May 2, 1986
Ottawa, Ontario

P. L. Jones, B.Sc.,
Geologist



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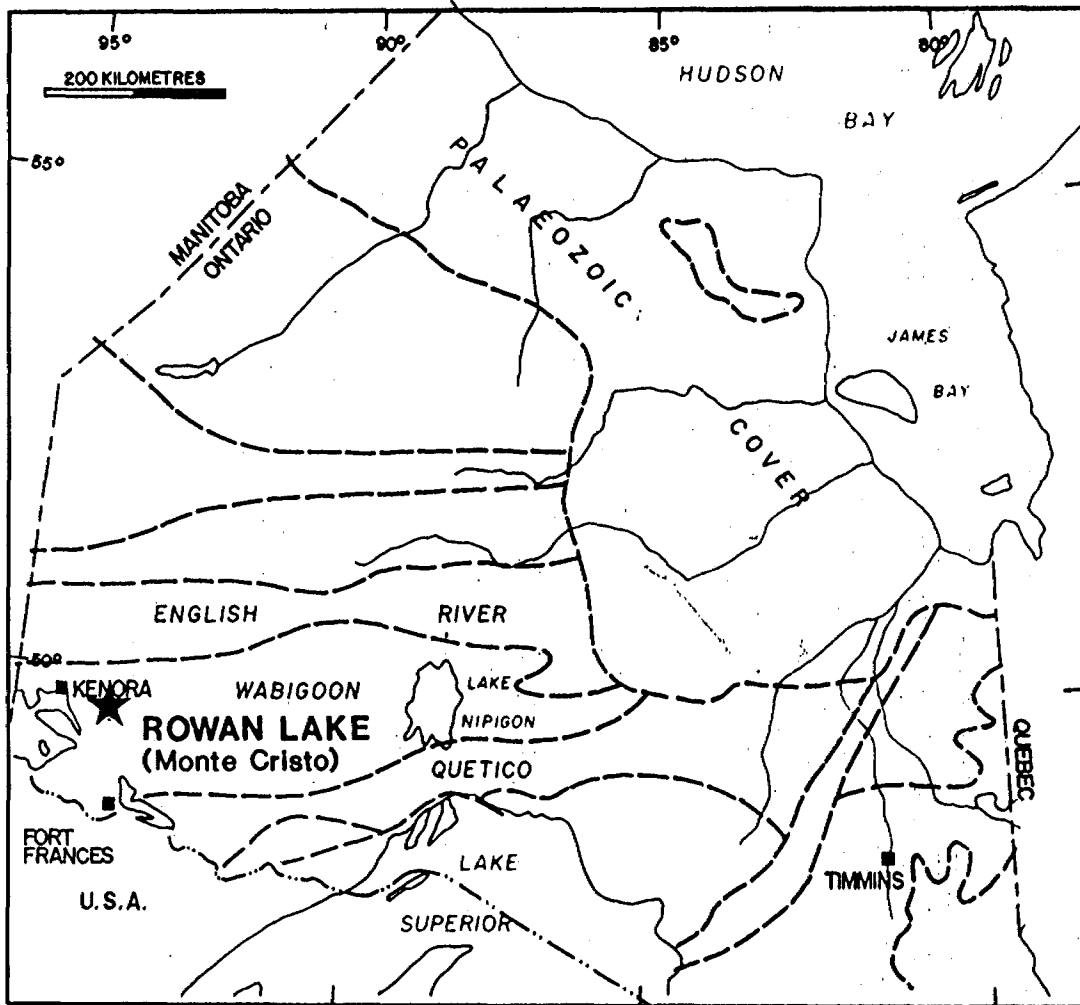
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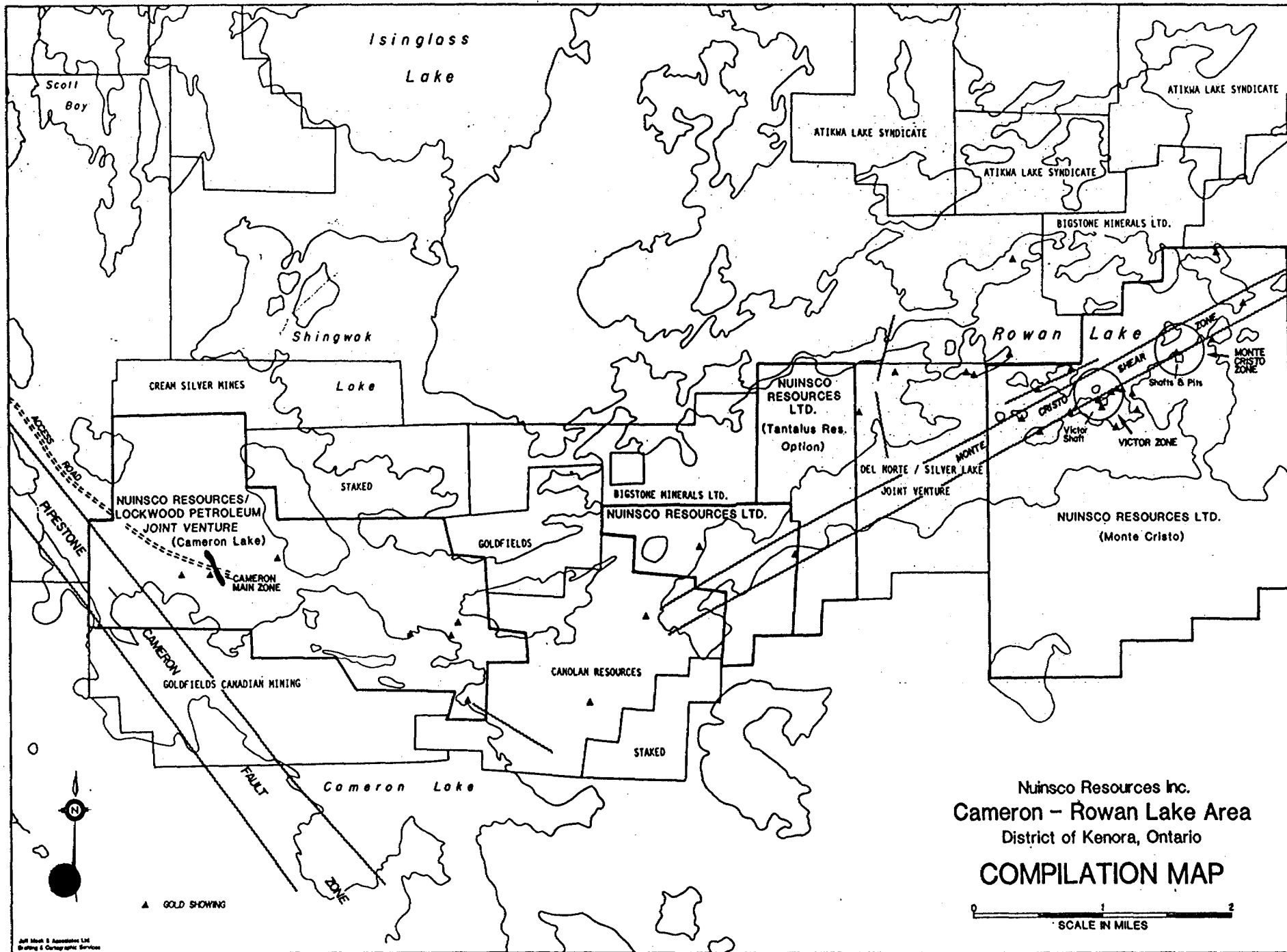
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SCHEDULES

Appendix I	Lab Reports - O.D.M. - Bondar-Clegg
Appendix II	RC Drill Logs
Appendix III	RC Drill Cross-sections
Appendix IV	RC Drill Plan



NUINSCO RESOURCES LTD.
LOCATION MAP - ROWAN LAKE
DISTRICT OF KENORA, ONTARIO



INTRODUCTION

Between January 15th and March 18th, 1986 a two part reverse circulation ("RC") drill programme was conducted by Nuinsco Resources Limited on its Monte Cristo Property.

Two fully unitized, skid mounted, rotary reverse circulation drills capable of penetrating to 350 ft (107 m) of overburden with a tricone bit was used to drill the holes. The drills were contracted from Bradley Bros., Diamond Drilling of Timmins, Ontario.

The purpose of the 1986 winter drilling programme was to test the glacial deposits that overlie that part of the property covered by Rowan Lake and spatially associated with the known and interpreted location of the Monte Cristo Shear Zone.

Drift or till prospecting has become increasingly accepted as an exploration tool since 1970 and employs the principle that ore-bearing rock exposed to the erosional effect of a continental glacier would be dispersed to produce a target greater in extent than the original bedrock source (Averill, 1978).

Large tracts of land can be evaluated at reasonable cost per unit area using overburden drilling. It has been found to be a particularly attractive technique where known mineral related structures are inaccessible because of deep overburden, and permits investigation of areas that display poor response to other exploration methods (Gray, 1983).

Because of water cover, presence of overburden, inconclusive results obtained from geophysical methods, and encouraging results encountered in the winter of 1985, RC drilling was considered to be the most viable exploration technique to apply on the property.

EXPLORATION METHOD

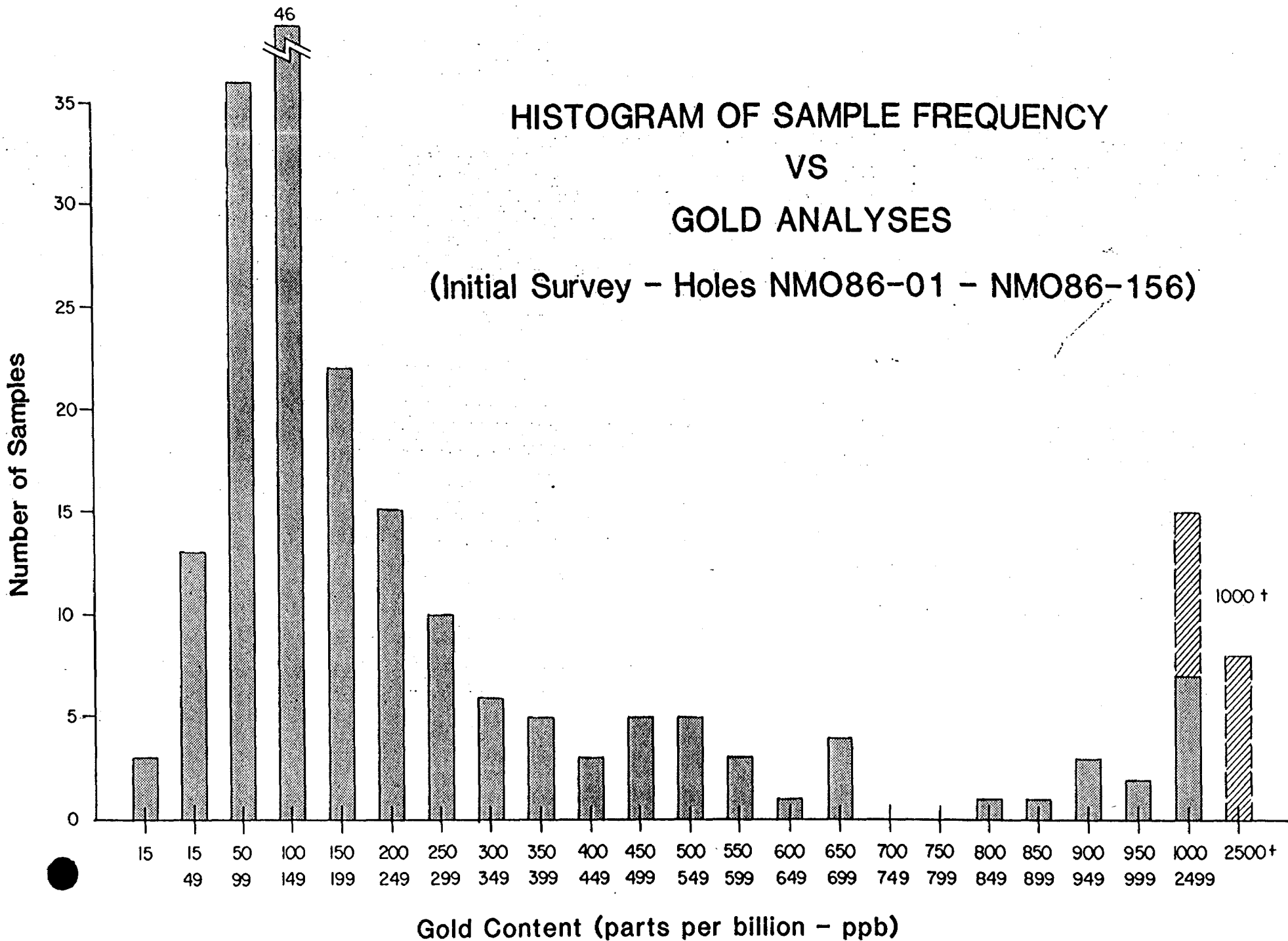
Between January 15th and 30th, 1986, 106 RC holes were completed in an initial orientation survey of the property; two holes stopped prior to reaching bedrock. Drill cross-sections were spaced 600 ft (183 m) apart and 200 ft (61 m) separated each hole on the lines, ensuring the detection of dispersion trains resulting from the erosion of a bedrock source with surface characteristics similar to the Monte Cristo and Victor showings. In this way a total of twenty-five (25) cross-sections were completed, totaling 6911 ft (2106 m).

All clastic material from sand sized to tills was sampled. Boulders and the ubiquitous glaciolacustrine clays were left unsampled.

An ideal overburden sample interval was considered to be 5 ft (1.5 m), however, sample size varied somewhat depending on local drilling conditions and overburden thicknesses. In addition a bedrock sample was collected from all completed holes, usually about 2 ft (0.6 m) in size.

Overburden samples were sent to Overburden Drilling Management Ltd., ("ODM"), Ottawa, for processing. This involved shaking table concentration, heavy liquid separation (using methylene iodide) and magnetic separation.

HISTOGRAM OF SAMPLE FREQUENCY
 VS
 GOLD ANALYSES
 (Initial Survey - Holes NMO86-01 - NMO86-156)



If free gold grains were observed in any table concentrates the samples were also panned. All visible gold is measured in microns and the grains are classified as delicate, abraded or irregular which corresponds to transport of less than 100m, 100m-300m, and greater than 300m respectively, using the criteria of Sauerbrei et al, 1985. From ODM the samples were forwarded to Bondar-Clegg Ltd., Ottawa, for analysis (fire assay-atomic absorption). All bedrock chip samples were classified in the field and forwarded directly to Bondar-Clegg for analysis.

Whilst awaiting results from the RC holes drilling was continued on adjoining properties.

An arbitrary limit of 500 ppb was set as the lower limit for which "follow-up" RC drilling would be conducted, although calculations indicated that a figure approaching 1000 ppb would be a more realistic figure as the threshold of an "anomalous" value (i.e. using the mean plus two times the standard deviation of the sample population as criteria). Values greater than 500 ppb are scattered throughout the western 2/3's of the property.

The "follow-up" drilling consisted of 107 holes, totalling 7467 ft (2276 m) drilled between February 15th and March 18th, 1986. These holes were drilled using a 200 ft (61 m) line spacing with 200 ft (61 m) separating drill holes on each line. A hole was also placed 50 ft (15 m) to the north and south of the original anomaly (see drill plan). In this way a symmetrical grid of holes tested overburden from between 600 ft (183 m) and 1200 ft (366 m) up ice from the original hole. The line, centred on the original anomaly and bisecting the "follow-up" drill holes was oriented parallel to the ice direction.

RESULTS

As was the case on all the properties surveyed, the Quaternary stratigraphy of the area proved to be quite simple. It is composed of a basal till unit, local, areally restricted glaciofluvial sand and gravel lenses, and a ubiquitous glaciolacustrine clay.

The till layer forms a blanket over much but not all of the surveyed area. The till is often poorly represented in shallow water near shorelines and on the down-ice side of islands or other topographic highs; it is best preserved in the bedrock depressions of the deeper parts of Rowan Lake.

The till has a fine grey to grey-green sand to silty-sand matrix and dominantly pebble sized clasts, although interbedded cobbly till layers are not uncommon. Clasts of metavolcanic provenance are more abundant than granitoid clasts. Boulders, dominantly granitoid, are commonly intersected.

Occasionally overlying or interbedded with and rarely occurring independently are thin discontinuous beds or lenses of glaciofluvial sand and gravel. Overlying all other overburden types is the grey to brown glaciolacustrine and lacustrine clay. The grey clay is soft, and usually smooth and overlies the better indurated brown clay. Speculation is that the brown clay may have been deposited in glacial Lake Agassiz.

For a complete list of geochemical results refer to the Drill Plan and Appendix I. Values range from less than 10 ppb to greater than 20,000 ppb.

Seven (7) RC holes returned greater values than 1000 ppb in the initial survey while a further eight (8) assayed between 500 ppb and 999ppb. All but one of these holes are scattered throughout the western 2/3's of the property. "Follow-up" drilling was conducted on all but the most easterly hole (see Drill Plan).

The anomalous values are concentrated into two broad areas of the property:

- 1.) Between lines 50+00W and 80+00W, seven (7) values greater than 500 ppb were identified in the initial survey and are listed below:

<u>Hole</u>	<u>Assay</u>	<u>V.G.</u>
NMO-86-23	863 ppb	-
NMO-86-26	173 "	-
	660 "	-
	640 "	-
	80 "	-
NMO-86-34	1445 "	1 abraded
NMO-86-41	1300 "	-
NMO-86-45	1050 "	-
NMO-86-106	20000 "	8 delicate 2 irregular 1 abraded

A major "follow-up" survey consisting of sixty-seven (67) RC holes was completed in this area which resulted in a further ~~eighteen~~ ^{between} (18) holes returning assays of greater than 500 ppb. Seven holes contained free gold of which four are included in the group of eighteen above (refer to Drill Plan).

Diamond drilling was conducted on three of the original anomalous values in RC holes NMO-86-106, 44, and 41. Because of the delicate nature of the gold grains and the high bedrock chip analysis (1715 ppb) in NMO-86-106, it was assumed that this hole was drilled close to a bedrock source. Subsequent drilling of two diamond drill holes resulted in significant assays over narrow widths. The remaining four diamond drill holes returned trace or low values.

A grab sample taken from a narrow shear zone occurring north of the Monte Cristo Shear Zone assayed 0.03 oz/ton Au, from a quartz-carbonate vein in a weakly carbonatized rock. The presence of anomalous tills, locally gold bearing, in such close, down-ice proximity to this shear zone may imply that the shear zone is the source of the anomalies.

2.) Between lines 16+00E and 26+00W, where seven values greater than 500 ppb were identified in till samples as follows:

<u>Hole</u>	<u>Assay</u>	<u>V.G.</u>
NMO-86-02	2740 ppb	-
NMO-86-10	545 "	-
	55 "	1 abraded
NMO-86-13	6279 "	-
NMO-86-47	1125 "	-
NMO-86-53	930 "	1 abraded
NMO-86-60	500 "	-
	150 "	-
NMO-86-61	500 "	-

"Follow-up" drilling consisted of 40 holes which resulted in a further 13 holes assaying greater than 500 ppb.; an assay in NMO-86-264, exceeded 20,000 ppb. Free gold was observed in 6 holes, 4 of which are from the group of 13 above; refer to Drill Plan and Appendix I, for details.

CONCLUSIONS

A total of 14,378 ft (4382 m) of RC drilling was completed on the Monte Cristo claim during the past winter. The result of the programme has been the identification of two new broad areas of potential gold mineralization.

Because of time limitations, follow-up diamond drilling was conducted on only a small part of the western area. The drill program met with limited success.

Both areas are partly accessible to diamond drilling from the shoreline of islands of Rowan Lake, and further exploration work should be carried out to examine the lithologies underlying the anomalous zones.

RECOMMENDATIONS

Funds should be allocated to conduct a limited exploration diamond drill programme during the spring and summer work season, as follows:

Drilling between lines	48+00W & 72+00W - 1500 ft @ \$30	\$45,000.
" " "	6+00W & 26+00W - 1500 ft @ \$30	<u>\$45,000.</u>

Preliminary budget: \$90,000.

Add contingency reserve of \$10,000
for prospecting and over-runs;
budget rounded to:

\$100,000.

Respectfully submitted

P. L. Jones

P. L. Jones
Geologist

REFERENCES

Averill, S. A., 1978

Overburden Exploration and the Glacial
History of Northern Canada, Canadian
Mining Journal, pp. 58-64.

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Overburden Exploration as a Tool for Gold
Exploration, Text of a Paper Presented at
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NUINSCO RESOURCES LIMITED

Report on Winter 1986
Exploration Activities

REVERSE CIRCULATION (RC) OVERBURDEN DRILLING

ON

West Sullivan Bay Property
(Formerly Property of Calaveras Resources)

District of Kenora
Northwestern Ontario

May 5, 1986
Ottawa, Ontario

P. L. Jones, B. SC.,
Geologist



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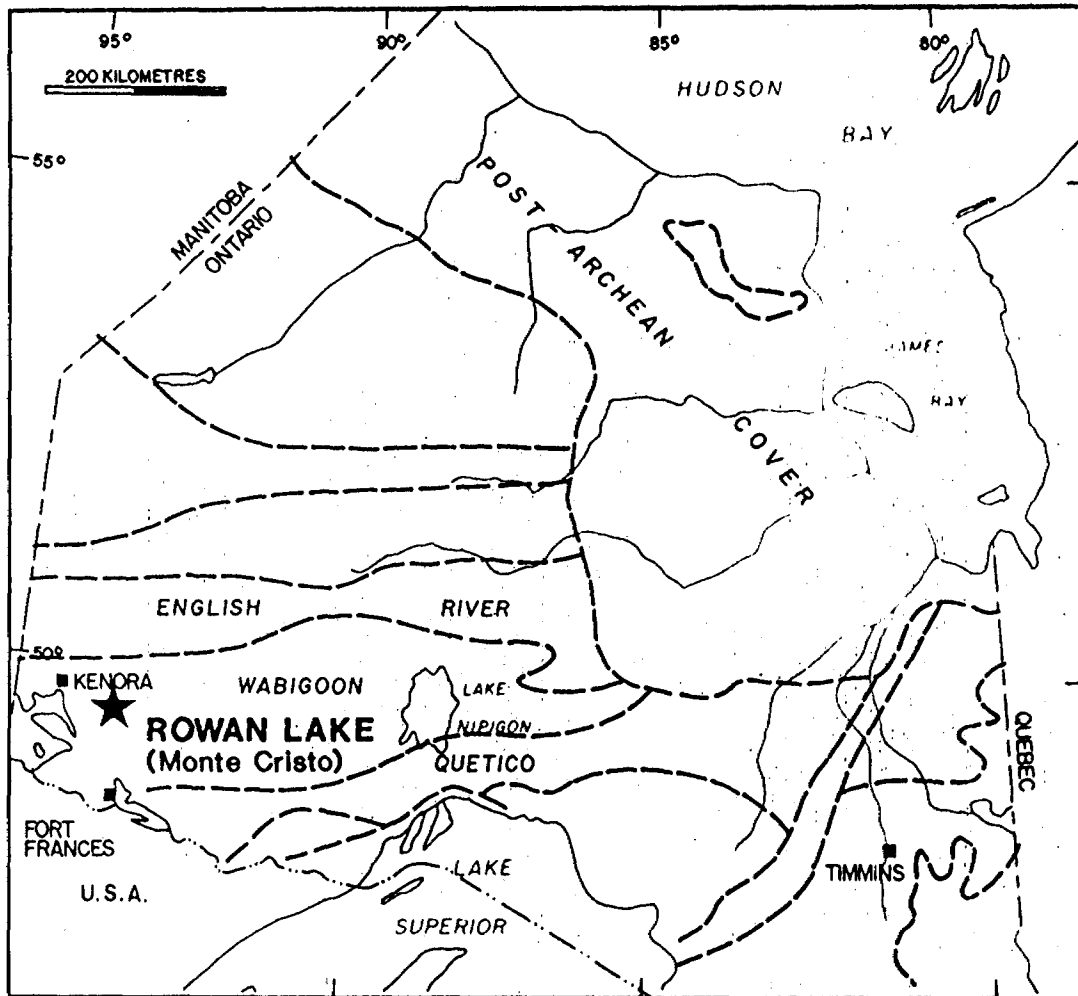
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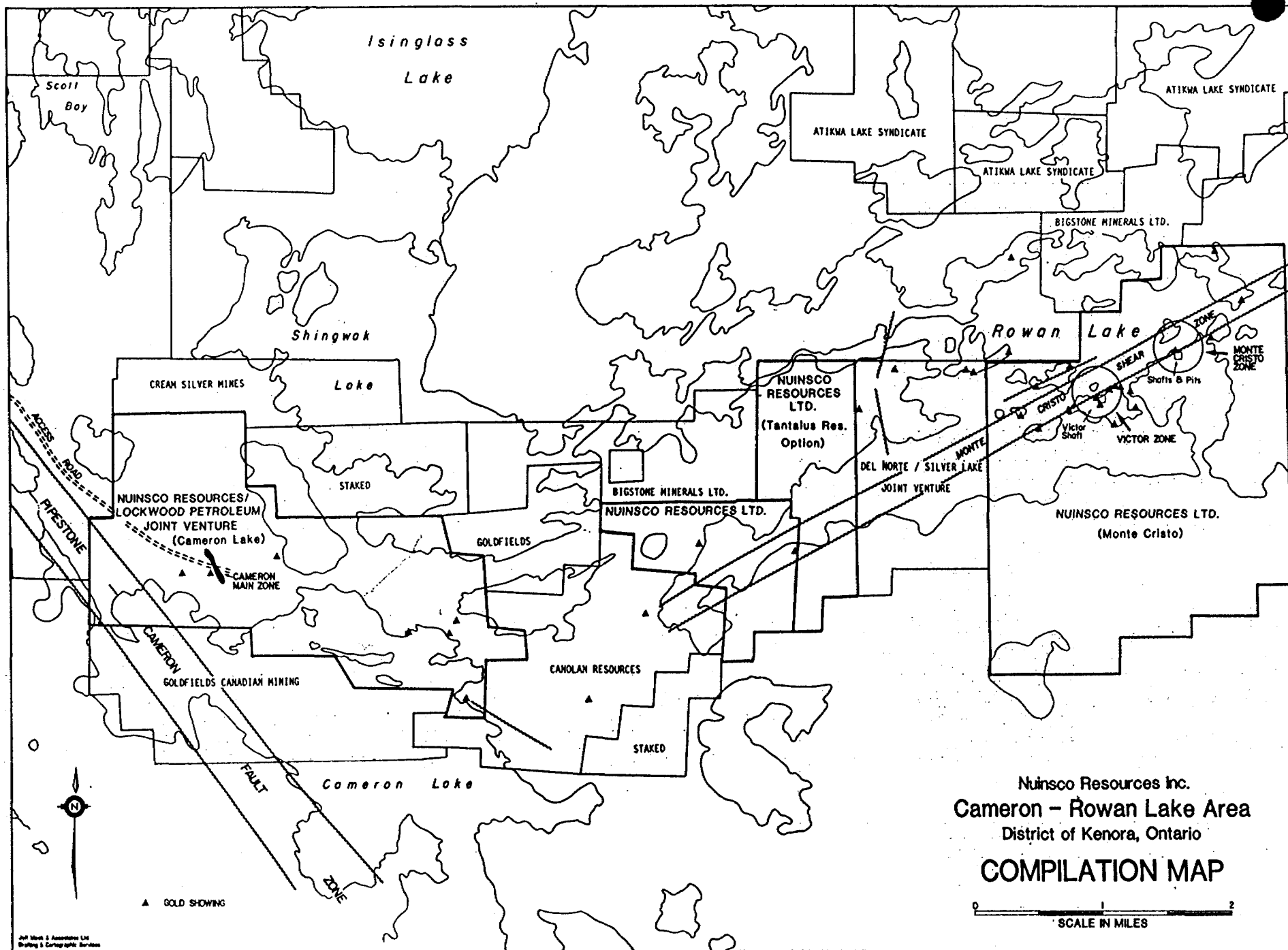
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SCHEDULES

Appendix I	ODM Lab Results Bondar-Clegg Lab Results
Appendix II	RC Drill Logs
Appendix III	Drill Cross-sections



NUINSCO RESOURCES LTD.
LOCATION MAP - ROWAN LAKE
DISTRICT OF KENORA, ONTARIO



INTRODUCTION

Between February 3rd and 8th, 1986 a reconnaissance Reverse Circulation (RC) drilling programme was conducted by Nuinsco Resources Limited on the Rowan Lake-west Sullivan Bay property, formerly owned by Calaveras Resources (see Claim Location Map).

Two fully unitized, skid mounted, rotary reverse circulation drills capable of penetrating to 350 ft (107 m) of overburden with a tricone bit were used to conduct the drilling. The drill contractor was Bradley Bros., Diamond Drilling, of Timmins, Ontario.

Purpose of the programme was to survey the west Sullivan Bay section of the property. It was presumed that this section of Rowan Lake may have been underlain by the Monte Cristo Shear Zone, a structurally deformed zone which is known to be gold bearing underlying other parts of Rowan Lake, most notably the Monte Cristo property 1.5 miles (2.5 km) to the east.

Because of the water cover, presence of overburden, and inconclusive results obtained from geophysical exploration methods, reverse circulation was deemed to be a viable technique to be used on Sullivan Bay.

Overburden drilling has been found to be an efficient method of evaluating large tracts of land at reasonable cost per unit area. It is particularly attractive where known mineral related structures are inaccessible because of deep overburden and permits investigation of areas that display poor response to other exploration methods (Gray, 1983).

LOCATION, PHYSIOGRAPHY, AND ACCESS

The subject property is situated in Northwestern Ontario, approximately 18 miles (30 km) northeast of the village of Nestor Falls which straddles Highway #71 midway between Kenora and Fort Frances.

The claim group surrounds the western end of Sullivan Bay and is bounded on the east by the Nuinsco Resources Tantalus option and to the west by the Canolan Resources property, under option to Echo Bay Mines Ltd. Topographic relief is pronounced on land to the north and south of the lake, and outcrops are abundant. All RC and diamond drilling was conducted this past winter from the ice surface.

During the summer access to the property is by floatplane or helicopter and a boat is necessary for local travel. An ice road from Highway #71 at Nestor Falls across Kakagi (Crow) Lake, Cameron Lake, Rowan Lake and the intervening portages has provided access during the past three winter work seasons. The bush access road, completed late in 1985 connecting Nuinsco's Cameron Lake discovery with Highway #71, has greatly facilitated access to Rowan Lake.

EXPLORATION METHOD

Nineteen (19) RC holes were completed in the drilling programme. One hole was stopped prior to reaching bedrock because of damage to the drill bit. The holes were drilled on 600 ft (183 m) line spacing with 200 ft (61 m) separating drill holes on each line.

Only one (1) hole was drilled on every second line (see Drill Plan). In this way nine (9) lines were completed totalling 2222 ft (677.3 m) of RC drilling.

All coarse clastics overburden sampled in the drilling programme were forwarded to Overburden Drilling Management Ltd., ("ODM") of Ottawa for visual analysis and heavy mineral concentration. The ubiquitous grey and brown lake bottom clay was left unsampled. A sample interval of 5 ft (1.5 m) was considered the ideal sample size, however, this interval often varied somewhat because of local drilling conditions. A bedrock chip sample was collected for all holes reaching bedrock, varying in size from less than 0.5 to 2.5 ft (0.15 - 0.76 m); chip samples were classified for rock types in the field. Assaying of both heavy mineral concentrate and bedrock chips were conducted at Bondar-Clegg Ltd., Ottawa.

RESULTS

Water depth ranges from about 22 ft (6.7 m) near shore to 80 ft (24.4 m) near the centre of Sullivan Bay. Overburden varies from 15 ft (4.6 m) to 122 ft (37.2 m) (refer to Figures 4 and 5 and RC Logs and Cross-sections).

The Quaternary stratigraphy is simple, as observed on the other properties surveyed. First encountered is the volumetric dominant grey to brown glaciolacustrine clay which overlies all other overburden types. The clay is underlain by a layer of basal till which blankets much but not all of the surveyed area.

The basal till layer has a fine grey to grey-green sand to silty-sand matrix and dominantly pebble sized clasts, although interbedded cobbly till layers are not uncommon. Clasts of metavolcanic provenance are more abundant than granitoid clasts. Boulders, generally granitoid, are commonly intersected. Frequently interbedded with and/or overlying the till layer are local lenses of glaciofluvial sand and gravel, considered to be a minor component of the stratigraphy (for more complete descriptions of the various overburden units refer to drill logs).

Analysis of bedrock chips shows the underlying bedrock to be composed substantially of mafic intermediate volcanoclastic units with subordinate flows and apparent gabbroic intrusions also observed.

Geochemical results are tabulated in Appendix I and on the Drill Plan (Figure 3). Significant results are discussed below:

1.) NMO-86-142, on line 178+00W at 22+00N, contained 49.5 ft (15.1 m) of overburden, all till but for a 3 ft sand lens, from which 8 samples were collected. These samples assayed (starting at first sample collected and ending with sample above bedrock), 2345 ppb, 400 ppb, 100 ppb, 3280 ppb, 570 ppb, 500 ppb, 90 ppb, 55 ppb. In addition an abraded 25 by 50 gold grain was observed in sample NMO-86-142 (02) and an abraded 125 μ by 150 μ gold grain was observed in 142 (08).

2.) NMO-86-139, on line 202+00W at 22+00N assayed 960 ppb in the one till sample collected.

3.) NMO-86-141, on line 208+00W at 22+00N assayed 150 ppb in the upper till sample collected and 990 ppb in the sample directly overlying bedrock.

4.) NMO-86-145, on line 214+00W at 22+00N assayed 810 ppb, 265 ppb, 1970 ppb, and 650 ppb in each of four gravel (first two samples) and till (last two sample) collected. In addition one (1) abraded 100 μ by 300 μ gold grain was observed in 145-(03).

Also of note is hole NMO-86-137, on line 190+00W at 20+00N, in which two (2) grains of free gold were observed in the upper of two samples collected (one 75 μ by 100 μ abraded grain and one 100 μ by 125 μ irregular grain).

In total five (5) grains of gold were observed, four are abraded and one is irregular. The limited amount of data makes interpretation difficult, however, referring to the criteria of Sauerbrei et al (1985), the shape of the observed gold grains suggests that the gold has been transported to its present site. Anomalous gold values on other than bedrock tend to concur with this interpretation.

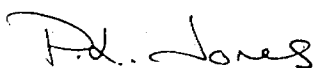
RECOMMENDATIONS

1.) Detailed prospecting should be carried out on the lithologies north of the anomalous RC values. If a likely bedrock source is located, the option to test mineralization with short drill holes should be examined.

2.) Further RC drilling during the 1987 winter work season should be considered to follow-up the recently identified anomalous tills.

Because work to be carried out on the property during the summer period will consist largely of prospecting and reconnaissance work upon which further recommendations will depend, no significant budget is proposed at this time.

Respectfully submitted



Paul L. Jones
Geologist

REFERENCES

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NUINSCO - BEDROCK SAMPLES
NUINSCO

Data Listings

Sample Identifier SAMPID	Gold AU PPR	Sulphur S PCT	Arsenic AS PPM
NMO-86-001-02	<5	***	-9999999
NMO-86-002-02	<5	***	-9999999
NMO-86-003-01	5	***	-9999999
NMO-86-004-01	<5	***	-9999999
NMO-86-005-02	<5	***	-9999999
NMO-86-006-01	<5	***	-9999999
NMO-86-007-01	5	***	-9999999
NMO-86-008-02	<5	***	-9999999
NMO-86-009-03	<5	***	-9999999
NMO-86-010-03	5	***	-9999999
NMO-86-011-02	<5	***	-9999999
NMO-86-012-03	<5	***	-9999999
NMO-86-013-02	<5	***	-9999999
NMO-86-014-03	<5	***	-9999999
NMO-86-015-02	<5	***	-9999999
NMO-86-016-03	<5	***	-9999999
NMO-86-017-02	<5	***	-9999999
NMO-86-018-01	<5	***	-9999999
NMO-86-019-01	<5	***	-9999999
NMO-86-020-02	<5	***	-9999999
NMO-86-021-04	<5	***	-9999999
NMO-86-022-02	5	***	-9999999
NMO-86-023-02	<5	***	-9999999
NMO-86-024-01	<5	***	-9999999
NMO-86-025-02	<5	***	-9999999
NMO-86-026-05	<5	***	-9999999
NMO-86-028-02	<5	***	-9999999
NMO-86-029-02	<5	***	-9999999
NMO-86-030-02	10	***	-9999999
NMO-86-031-02	<5	***	-9999999
NMO-86-032-01	<5	***	-9999999
NMO-86-033-02	160	***	-9999999
NMO-86-034-02	<5	***	-9999999
NMO-86-035-02	<5	***	-9999999
NMO-86-036-03	<5	***	-9999999
NMO-86-037-02	<5	***	-9999999
NMO-86-038-03	<5	***	-9999999
NMO-86-039-03	<5	***	-9999999
NMO-86-040-04	5	0.28	<2
NMO-86-041-02	<5	0.20	<2
NMO-86-042-04	<5	0.07	<2
NMO-86-043-01	<5	0.93	8
NMO-86-044-03	<5	0.04	4
NMO-86-045-02	<5	0.04	3
NMO-86-047-02	<5	0.16	3
NMO-86-048-04	<5	0.10	2
NMO-86-049-02	<5	0.03	2
NMO-86-050-01	<5	0.14	<2
NMO-86-051-02	<5	0.09	2
NMO-86-052-02	<5	0.10	3

NUINSCO - BEDROCK SAMPLES
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Data Listings

Sample Identifier SAMPID	Gold AU PPB	Sulphur S PCT	Arsenic AS PPM
NMO-86-053-02	<5	0.05	<2
NMO-86-054-02	<5	0.06	<2
NMO-86-055-02	<5	0.08	<2
NMO-86-056-01	<5	0.06	2
NMO-86-057-02	<5	0.09	<2
NMO-86-058-01	5	0.16	4
NMO-86-059-01	<5	0.06	<2
NMO-86-060-04	<5	0.27	5
NMO-86-061-02	<5	0.04	<2
NMO-86-062-01	<5	0.13	<2
NMO-86-063-02	<5	0.04	2
NMO-86-064-02	<5	0.07	<2
NMO-86-065-02	5	0.34	4
NMO-86-066-02	<5	0.03	2
NMO-86-067-01	5	0.39	27
NMO-86-068-01	<5	0.07	3
NMO-86-069-02	<5	0.26	4
NMO-86-070-02	40	0.06	2
NMO-86-071-01	<5	0.11	10
NMO-86-072-02	<5	0.22	4
NMO-86-073-04	<5	0.20	5
NMO-86-074-01	<5	***	-9999999
NMO-86-075-02	<5	0.03	2
NMO-86-076-02	<5	***	-9999999
NMO-86-077-02	<5	***	-9999999
NMO-86-078-02	<5	***	-9999999
NMO-86-079-01	<5	***	-9999999
NMO-86-080-01	<5	***	-9999999
NMO-86-081-02	<5	***	-9999999
NMO-86-082-03	<5	***	-9999999
NMO-86-083-01	<5	***	-9999999
NMO-86-084-03	<5	***	-9999999
NMO-86-085-02	<5	***	-9999999
NMO-86-086-01	<5	***	-9999999
NMO-86-087-02	<5	***	-9999999
NMO-86-088-02	<5	***	-9999999
NMO-86-089-02	<5	***	-9999999
NMO-86-090-01	<5	***	-9999999
NMO-86-091-02	<5	***	-9999999
NMO-86-092-01	<5	***	-9999999
NMO-86-093-02	<5	***	-9999999
NMO-86-094-02	<5	***	-9999999
NMO-86-095-01	<5	***	-9999999
NMO-86-096-02	<5	***	-9999999
NMO-86-097-02	<5	***	-9999999
NMO-86-098-02	<5	***	-9999999
NMO-86-099-02	<5	***	-9999999
NMO-86-100-02	<5	***	-9999999
NMO-86-101-02	<5	***	-9999999
NMO-86-102-01	<5	***	-9999999

NUINSCO - BEDROCK SAMPLES
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Data Listings

Sample Identifier SAMPID	Gold AU PPB	Sulphur S PCT	Arsenic AS PPM
NMO-86-103-02	<5	*.##	-9999999
NMO-86-104-02	<5	*.##	-9999999
NMO-86-105-02	15	*.##	-9999999
NMO-86-106-02	1715	*.##	-9999999
NMO-86-107-03	<5	*.##	-9999999
NMO-86-108-04	<5	*.##	-9999999
NMO-86-109-02	<5	*.##	-9999999
NMO-86-110-03	<5	*.##	-9999999
NMO-86-111-02	<5	*.##	-9999999
NMO-86-112-02	<5	*.##	-9999999
NMO-86-113-02	<5	*.##	-9999999
NMO-86-114-02	<5	*.##	-9999999
NMO-86-115-02	<5	*.##	-9999999
NMO-86-116-05	<5	*.##	-9999999
NMO-86-118-02	5	*.##	-9999999
NMO-86-119-02	<5	*.##	-9999999
NMO-86-120-02	5	*.##	-9999999
NMO-86-122-03	<5	*.##	-9999999
NMO-86-123-02	<5	*.##	-9999999
NMO-86-124-02	<5	*.##	-9999999
NMO-86-125-02	<5	*.##	-9999999
NMO-86-126-02	<5	*.##	-9999999
NMO-86-127-02	<5	*.##	-9999999
NMO-86-128-02	<5	*.##	-9999999
NMO-86-129-02	<5	*.##	-9999999
NMO-86-130-02	<5	*.##	-9999999
NMO-86-131-12	<5	*.##	-9999999
NMO-86-132-02	<5	*.##	-9999999
NMO-86-134-02	<5	*.##	-9999999
NMO-86-135-03	<5	*.##	-9999999
NMO-86-136-04	<5	*.##	-9999999
NMO-86-137-03	5	*.##	-9999999
NMO-86-138-03	<5	*.##	-9999999
NMO-86-139-02	<5	*.##	-9999999
NMO-86-140-02	<5	*.##	-9999999
NMO-86-141-03	<5	*.##	-9999999
NMO-86-142-09	<5	*.##	-9999999
NMO-86-143-05	<5	*.##	-9999999
NMO-86-144-03	<5	*.##	-9999999
NMO-86-145-05	<5	*.##	-9999999
NMO-86-146-08	<5	*.##	-9999999
NMO-86-147-02	<5	<0.01	2
NMO-86-148-01	5	*.##	-9999999
NMO-86-149-01	<5	<0.01	2
NMO-86-150-03	5	*.##	-9999999
NMO-86-151-02	<5	<0.01	5
NMO-86-152-04	10	*.##	-9999999
NMO-86-153-02	<5	<0.01	5
NMO-86-154-04	470	*.##	-9999999
NMO-86-155-02	<5	<0.01	11

NUINSCO - BEDROCK SAMPLES
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Data Listings

Sample Identifier SAMPID	Gold AU PPB	Sulphur S PCT	Arsenic AS PPM
NMO-86-156-02	<5	0.41	5
NMO-86-156-03	<5	*.??	-9999999
NMO-86-157-02	<5	<0.01	2
NMO-86-158-03	<5	<0.01	2
NMO-86-160-02	<5	<0.01	7
NMO-86-161-02	55	0.14	19
NMO-86-162-02	<5	<0.01	<2
NMO-86-163-02	<5	<0.01	<2
NMO-86-164-03	<5	<0.01	2
NMO-86-165-03	<5	0.12	2
NMO-86-166-01	<5	<0.01	2
NMO-86-167-02	10	0.18	2
NMO-86-168-03	<5	0.20	<2
NMO-86-169-01	<5	0.05	<2
NMO-86-170-01	<5	<0.01	<2
NMO-86-171-02	<5	0.01	<2
NMO-86-172-03	<5	<0.01	2
NMO-86-173-02	<5	0.01	<2
NMO-86-174-02	<5	8.76	33
NMO-86-175-02	<5	0.01	<2
NMO-86-176-01	10	0.25	2
NMO-86-177-02	<5	<0.01	2
NMO-86-178-02	<5	0.12	<2
NMO-86-179-02	<5	0.02	<2
NMO-86-180-02	10	0.05	<2
NMO-86-181-02	<5	<0.01	<2
NMO-86-182-01	65	0.01	2
NMO-86-183-02	<5	0.19	<2
NMO-86-184-02	160	0.39	2
NMO-86-185-03	<5	0.02	<2
NMO-86-186-02	<5	0.07	2
NMO-86-187-02	5	0.19	3
NMO-86-188-02	<5	0.03	3
NMO-86-189-02	<5	0.06	2
NMO-86-190-02	<5	0.15	<2
NMO-86-191-01	<5	0.08	<2
NMO-86-192-03	<5	<0.01	2
NMO-86-193-02	<5	<0.01	2
NMO-86-194-02	<5	0.06	3
NMO-86-195-02	<5	<0.01	3
NMO-86-196-02	65	0.05	<2
NMO-86-197-02	<5	<0.01	2
NMO-86-198-02	240	0.09	<2
NMO-86-199-03	<5	<0.01	3
NMO-86-200-02	10	0.06	2
NMO-86-201-02	<5	<0.01	3
NMO-86-202-02	10	<0.01	<2
NMO-86-203-01	<5	<0.01	<2
NMO-86-204-04	<5	0.02	<2
NMO-86-205-01	<5	<0.01	<2

NUINSCO - BEDROCK SAMPLES
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Data Listina

Sample Identifier SAMPID	Gold AU PPR	Sulphur S PCT	Arsenic AS PPM
NMO-86-207-03	40	<0.01	<2
NMO-86-208-02	105	0.05	<2
NMO-86-209-02	<5	<0.01	2
NMO-86-210-02	<5	<0.01	<2
NMO-86-211-02	<5	<0.01	<2
NMO-86-212-02	<5	<0.01	<2
NMO-86-213-01	5	<0.01	<2
NMO-86-214-02	<5	0.05	<2
NMO-86-215-02	<5	0.01	<2
NMO-86-216-02	<5	0.01	<2
NMO-86-217-02	<5	0.02	<2
NMO-86-218-02	5	0.01	<2
NMO-86-219-03	<5	<0.01	<2
NMO-86-220-02	<5	<0.01	<2
NMO-86-221-02	<5	<0.01	3
NMO-86-222-02	<5	<0.01	3
NMO-86-223-01	<5	0.01	4
NMO-86-224-02	<5	<0.01	<2
NMO-86-225-02	20	<0.01	<2
NMO-86-226-02	10	0.22	<2
NMO-86-227-02	5	0.01	<2
NMO-86-228-02	5	<0.01	<2
NMO-86-229-02	<5	<0.01	<2
NMO-86-230-02	<5	<0.01	<2
NMO-86-231-02	<5	<0.01	4
NMO-86-232-03	<5	0.07	<2
NMO-86-233-02	5	0.47	4
NMO-86-234-02	55	0.20	4
NMO-86-235-04	5	<0.01	<2
NMO-86-236-02	10	<0.01	2
NMO-86-237-02	<5	0.04	<2
NMO-86-238-05	<5	0.46	<2
NMO-86-239-03	<5	<0.01	<2
NMO-86-240-03	<5	0.02	<2
NMO-86-241-04	<5	1.10	<2
NMO-86-242-02	<5	0.02	<2
NMO-86-243-04	<5	0.02	<2
NMO-86-244-02	5	0.07	<2
NMO-86-245-02	10	<0.01	<2
NMO-86-246-03	35	0.06	<2
NMO-86-247-03	<5	0.16	<2
NMO-86-248-02	<5	0.09	<2
NMO-86-249-03	<5	0.09	<2
NMO-86-250-02	<5	0.02	<2
NMO-86-251-05	-9999999	<0.01	-9999999
NMO-86-252-01	<5	<0.01	<2
NMO-86-253-03	<5	<0.01	<2
NMO-86-254-02	<5	0.06	<2
NMO-86-255-05	<5	0.07	<2
NMO-86-256-03	<5	<0.01	2

NUINSCO - BEDROCK SAMPLES
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Data Listings

Sample Identifier	Gold	Sulphur	Arsenic
SAMPID	AU	S	AS
	PPB	PCT	PPM
NMO-86-257-03	<5	0.11	<2
NMO-86-258-04	<5	<0.01	2
NMO-86-259-04	<5	<0.01	<2
NMO-86-260-02	<5	<0.01	<2
NMO-86-261-03	<5	<0.01	<2
NMO-86-262-05	<5	0.33	<2
NMO-86-263-02	<5	0.03	<2
NMO-86-264-04	<5	0.18	2
NMO-86-265-02	<5	0.01	<2
NMO-86-266-01	45	1.58	4
NMO-86-267-05	15	0.05	<2
NMO-86-268-02	10	<0.01	<2
NMO-86-269-01	5	<0.01	2

Rowen lake

winter 1986



52F055E0034 2.9621 ROWAN LAKE

040

OVERBURDEN DRILLING MANAGEMENT LIMITED - LABORATORY SAMPLE LOG

ABBREVIATIONS

CLAST:

SIZE OF CLAST:

G: GRANULES
P: PEBBLES
C: COBBLES
BD: BOULDER CHIPS
BR: BEDROCK CHIPS

% CLAST COMPOSITION

V/S VOLCANICS AND SEDIMENTS
GR GRANITICS
LS LIMESTONE
OT OTHER LITHOLOGIES (REFER TO FOOTNOTES BELOW)
TR ONLY TRACE PRESENT
NA NOT APPLICABLE

MATRIX:

S/U SORTED OR UNSORTED
SD SAND | Y YES FRACTION PRESENT | F: FINE
ST SILT | N FRACTION NOT PRESENT | M: MEDIUM
CY CLAY | | C: COARSE

COLOR:

B: BEIGE
GY: GREY
GB: GREY BEIGE
GN: GREEN
GG: GREY GREEN
BN: BROWN
BK: BLACK
OC: OCHRE
PK: PINK
OE: ORANGE

DESCRIPTION:

BLR: BOULDER CHIPS
BDK: BEDROCK CHIPS

OVERBURDEN DRILLING MANAGEMENT LIMITED

LABORATORY SAMPLE LOG

SAMPLE NO.	WEIGHT (KG. WET)			WEIGHT (GRAMS DRY)				AU		DESCRIPTION								CLASS				
	TABLE	+10	TABLE	TABLE	M.I.	CONC.	NDN	NO.	CALC	CLAST				MATRIX				SD	CY			
	SPLIT	CHIPS	FEED	CONC	LIGHTS	TOTAL	MAG	MAG	V.G.	PPB	SIZE	%	S/U	SD	ST	CY	COLOR					
											V/S	GR	LS	DT				SD	CY			
01-01	8.2	2.0	6.2	301.5	274.4	27.1	18.4	8.7	0	NA	C	30	70	NA	NA	U	Y	Y	N	GB	NA	TILL
02-01	6.1	0.9	5.2	127.7	113.1	14.6	10.3	4.3	0	NA	P	65	35	NA	NA	U	Y	Y	Y	GB	GB	TILL
05-01	4.0	1.1	2.9	115.4	101.0	14.4	10.2	4.2	0	NA	C	65	15	NA	NA	U	Y	Y	Y	GB	GB	TILL
08-01	4.8	1.2	3.6	166.9	152.6	14.3	10.6	3.7	0	NA	C	30	70	NA	NA	U	Y	Y	Y	GB	GB	TILL
09-01	7.9	3.0	4.9	205.0	189.9	15.1	10.7	4.4	0	NA	C	40	60	NA	NA	U	Y	Y	Y	GB	GB	TILL
-02	3.6	1.6	2.0	138.8	127.1	11.7	9.2	2.5	0	NA	F	60	40	NA	NA	U	Y	Y	Y	GB	GB	TILL
10-01	11.4	2.4	9.0	233.3	204.0	29.3	20.9	8.4	0	NA	P	60	40	NA	NA	U	Y	Y	Y	GB	GB	TILL
-02	20.5	1.3	19.2	468.9	411.9	57.0	41.4	15.6	1	455	P	85	15	NA	NA	U	Y	Y	Y	GB	GB	TILL
11-01	2.3	0.4	1.9	101.9	95.2	6.7	5.0	1.7	0	NA	P	50	50	NA	NA	U	Y	Y	Y	GB	GB	TILL
12-01	5.4	1.8	3.6	227.0	208.0	19.0	15.2	3.8	0	NA	C	40	60	NA	NA	U	Y	Y	Y	GB	GB	TILL
-02	8.6	3.2	5.4	181.3	158.0	23.3	18.0	5.3	0	NA	C	70	30	NA	NA	U	Y	Y	Y	GB	GB	TILL
13-01	0.8	0.0	0.8	96.2	94.5	1.7	1.4	0.3	0	NA	TR	NA	NA	NA	NA	U	Y	Y	Y	GB	GB	TILL
14-01	9.8	3.2	6.6	213.9	196.4	17.5	12.9	4.6	0	NA	F	60	40	NA	NA	U	Y	Y	Y	GB	GB	TILL
-02	8.4	3.1	5.3	129.4	114.0	15.4	12.1	3.3	0	NA	C	60	20	NA	NA	U	Y	Y	Y	GB	GB	TILL
15-01	8.7	2.1	6.6	143.0	115.6	27.2	20.5	6.7	0	NA	C	80	20	NA	NA	U	Y	Y	Y	GB	GB	TILL
16-01	1.8	0.7	1.1	72.3	69.1	3.2	2.5	0.7	0	NA	C	75	25	NA	NA	S	M	Y	N	GB	NA	GRAVEL
-02	12.1	1.5	10.6	206.8	177.0	29.8	21.9	7.9	0	NA	C	90	10	NA	NA	U	Y	Y	Y	GB	GB	TILL
17-01	2.7	0.3	2.4	118.8	109.1	9.7	8.0	1.7	0	NA	C	70	30	NA	NA	U	Y	Y	Y	GB	GB	TILL
20-01	3.7	0.5	3.2	183.6	165.3	18.3	13.9	4.4	0	NA	C	70	30	NA	NA	U	Y	Y	Y	GB	GB	TILL
21-01	3.4	0.6	2.8	135.7	126.8	8.9	7.2	1.7	0	NA	P	90	10	NA	NA	U	Y	Y	Y	GB	GB	TILL
-02	15.0	3.8	11.2	249.1	217.5	31.6	22.6	9.0	0	NA	C	85	15	NA	NA	U	Y	Y	Y	GB	GB	TILL
-03	11.0	1.6	9.4	182.7	166.7	16.0	10.8	5.2	0	NA	C	90	10	NA	NA	U	Y	Y	Y	GB	GB	TILL
22-01	8.6	2.2	6.4	158.2	122.0	36.2	26.9	9.3	0	NA	C	95	5	NA	NA	U	Y	Y	Y	GB	GB	TILL
23-01	0.6	0.1	0.5	94.7	92.6	2.1	1.8	0.3	0	NA	C	80	20	NA	NA	U	Y	Y	Y	GB	GB	TILL
25-01	7.2	1.7	5.5	169.7	149.5	20.2	14.8	5.4	0	NA	C	75	25	NA	NA	U	Y	Y	Y	GB	GB	TILL
26-01	8.6	2.1	6.5	261.8	251.0	10.8	7.7	3.1	0	NA	C	70	30	NA	NA	U	Y	Y	Y	GB	GB	TILL
-02	7.2	2.0	5.2	168.5	151.8	16.7	12.5	4.2	1	30	C	70	30	NA	NA	U	Y	Y	Y	GB	GB	TILL
-03	8.0	3.0	5.0	154.5	137.7	16.8	13.2	3.6	0	NA	C	80	20	NA	NA	U	Y	Y	Y	GB	GB	TILL
-04	10.0	3.6	6.4	163.4	155.6	7.8	6.0	1.8	0	NA	C	70	30	NA	NA	U	Y	Y	Y	GB	GB	TILL
28-01	10.1	0.2	9.9	92.4	86.0	6.4	4.9	1.5	0	NA	C	95	5	NA	NA	U	Y	Y	Y	GB	GB	TILL
29-01	3.5	0.4	3.1	177.7	170.5	7.2	5.6	1.6	0	NA	P	60	40	NA	NA	U	Y	Y	Y	GB	GB	TILL
30-01	6.7	2.2	4.5	160.4	141.5	18.9	14.5	4.4	0	NA	C	65	15	NA	NA	U	Y	Y	Y	GB	GB	TILL
31-01	5.9	1.3	4.6	195.2	177.8	17.4	13.2	4.2	0	NA	C	80	20	NA	NA	U	Y	Y	Y	GB	GB	TILL
33-01	1.0	0.3	0.7	32.1	30.3	1.8	1.4	0.4	0	NA	C	90	10	NA	NA	U	Y	Y	Y	GB	GB	TILL
34-01	7.9	1.8	6.3	204.9	182.3	22.6	17.0	5.6	1	455	C	65	35	NA	NA	U	Y	Y	Y	GB	GB	TILL
35-01	2.1	0.4	1.7	155.0	152.6	3.4	2.7	0.7	0	NA	BR, C	95	5	NA	NA	U	Y	Y	Y	GB	GB	TILL
37-01	1.4	0.1	1.3	84.2	80.0	4.2	3.5	0.7	0	NA	C	60	40	NA	NA	U	Y	Y	Y	GB	GB	TILL
38-01	10.6	4.0	6.6	205.3	189.3	46.0	30.6	15.4	0	NA	C	60	40	NA	NA	U	Y	Y	Y	GB	GB	TILL
-02	8.1	2.0	6.1	209.7	170.2	39.5	29.6	9.9	0	NA	C	60	40	NA	NA	U	Y	Y	Y	GB	GB	TILL
39-01	7.0	0.8	6.2	235.5	202.6	32.9	25.3	7.6	0	NA	C	60	40	NA	NA	U	Y	Y	Y	GB	GB	TILL
-02	6.7	0.1	6.6	194.0	175.9	18.1	12.9	5.2	0	NA	BD	95	5	NA	NA	U	Y	Y	Y	GB	GB	TILL
40-01	27.2	2.2	25.0	449.7	362.3	87.4	61.0	26.4	0	NA	C	60	40	NA	NA	U	Y	Y	Y	GB	GB	TILL
-02	24.7	2.0	22.7	372.1	274.1	98.0	72.2	25.8	0	NA	C	85	15	NA	NA	U	Y	Y	Y	GB	GB	TILL
-03	10.3	0.4	9.9	152.6	151.5	41.1	29.6	11.5	0	NA	BR, C	100	TR	NA	NA	U	Y	Y	Y	GB	GB	TILL

OVERBURDEN DRILLING MANAGEMENT LIMITED

LABORATORY SAMPLE LOG

SAMPLE NO.	WEIGHT (KG.WET)			WEIGHT (GRAMS DRY)			AU			DESCRIPTION							CLASS					
	=====			=====			=====			=====							=====					
				M. I. CONC						CLAST		MATRIX										
	TABLE SPLIT	+10 CHIPS	TABLE FEED	TABLE CONC	M.I. LIGHTS	CONC. TOTAL	NON MAG	ND. MAG	CALC V.G.	SIZE	%	S/U	SD	ST	CY	COLOR	SD	CY				
41-01	3.9	1.6	2.3	171.6	160.3	11.3	9.3	2.0	0	NA	C	90	10	NA	NA	U	Y	Y	Y	GY	GY	TILL.
42-01	4.7	2.4	2.3	159.6	146.0	13.6	10.4	3.2	0	NA	C	20	80	NA	NA	U	Y	Y	Y	B	GB	TILL
-02	13.3	5.5	7.8	386.2	356.9	29.3	22.2	7.1	0	NA	C	20	80	NA	NA	U	Y	Y	Y	GB	GB	TILL
-05	11.3	1.4	9.9	285.3	247.3	38.0	27.1	10.9	0	NA	C	60	40	NA	NA	U	Y	Y	Y	GY	GY	TILL
44-01	15.6	5.4	10.2	240.8	197.6	43.0	30.5	12.5	0	NA	P	20	80	NA	NA	U	Y	Y	Y	B	B	TILL
-02	9.2	3.6	5.6	189.9	158.9	31.0	24.8	6.2	0	NA	P	60	40	NA	NA	U	Y	Y	Y	GB	GB	TILL
45-01	3.3	1.5	1.8	79.9	70.3	9.6	8.2	1.4	0	NA	P	75	25	NA	NA	U	Y	Y	Y	GY	GY	TILL
47-01	3.0	1.8	1.2	64.9	55.3	9.6	6.3	3.3	1	238	P	60	40	NA	NA	U	Y	Y	Y	GY	GY	TILL
48-01	4.8	2.8	2.0	90.3	80.9	9.4	7.7	1.7	0	NA	P	60	40	NA	NA	U	Y	Y	Y	B	B	TILL
-02	1.5	1.2	0.3	46.4	43.5	2.9	2.5	0.4	0	NA	C	60	40	NA	NA	U	Y	Y	Y	GNB	GY	TILL
-05	3.5	2.4	1.1	142.5	132.2	10.3	7.8	2.5	0	NA	C	60	40	NA	NA	U	Y	Y	Y	GB	GB	TILL
49-01	2.1	0.8	1.3	102.4	96.4	6.0	4.5	1.5	0	NA	C	60	40	NA	NA	U	Y	Y	Y	GY	GY	TILL
55-01	7.1	1.3	5.8	167.6	155.5	12.1	9.8	2.3	0	NA	P	40	60	NA	NA	U	Y	Y	Y	GB	GB	TILL
52-01	0.6	0.0	0.6	321.4	293.5	27.9	20.6	7.3	0	NA	TR	NA	NA	NA	NA	U	Y	Y	Y	GB	GB	TILL+BDRK
53-01	2.6	0.1	2.5	64.5	62.9	1.6	1.2	0.4	0	NA	P	60	40	NA	NA	U	Y	Y	Y	GY	GY	TILL
54-01	10.3	5.4	4.9	290.0	243.6	46.4	36.3	10.1	0	NA	C	75	25	NA	NA	U	Y	Y	Y	GY	GY	TILL
55-01	3.5	0.9	2.6	176.4	160.0	16.4	13.1	3.3	0	NA	C	60	20	NA	NA	U	Y	Y	Y	GY	GY	TILL
57-01	2.4	0.5	1.9	112.1	102.0	10.1	8.2	1.9	0	NA	P	60	40	NA	NA	U	Y	Y	Y	GY	GY	TILL
60-01	10.4	2.2	8.2	322.5	279.5	43.0	32.9	10.1	0	NA	C	70	30	NA	NA	U	Y	Y	Y	GY	GY	TILL
-02	11.9	3.2	8.7	335.0	301.7	33.3	27.2	6.1	0	NA	C	60	40	NA	NA	U	Y	Y	Y	GY	GY	TILL
-03	7.9	2.1	5.8	252.3	220.9	31.4	25.8	5.6	0	NA	C	85	15	NA	NA	U	Y	Y	Y	GY	GY	TILL
61-01	6.8	1.3	5.5	177.5	145.5	32.0	24.9	7.1	0	NA	C	80	20	NA	NA	U	Y	Y	Y	GY	GY	TILL
63-01	2.6	0.6	2.0	100.7	96.1	4.6	3.9	0.7	0	NA	BR,C	95	25	NA	NA	U	Y	Y	Y	GG	GG	TILL+BDRK
64-01	1.9	0.6	1.3	75.2	68.3	6.9	5.5	1.4	0	NA	BR,C	98	2	NA	NA	U	Y	Y	Y	GG	GG	TILL+BDRK
65-01	5.1	1.6	3.5	113.1	89.7	23.4	20.2	3.2	0	NA	C	85	15	NA	NA	U	Y	Y	Y	GY	GY	TILL
66-01	5.5	0.8	4.7	127.5	104.9	22.6	17.1	5.5	0	NA	C	50	50	NA	NA	U	Y	Y	Y	GY	GY	TILL
69-01	5.6	1.0	4.6	159.6	133.4	26.2	21.6	4.6	0	NA	C	65	35	NA	NA	U	Y	Y	Y	GY	GY	TILL
70-01	1.1	0.2	0.9	25.0	22.5	2.5	2.1	0.4	0	NA	C	80	20	NA	NA	U	Y	Y	Y	GY	GY	TILL
72-01	5.0	1.8	3.2	86.6	69.3	17.3	13.4	3.9	1	286	C	75	25	NA	NA	U	Y	Y	Y	GY	GY	TILL
73-01	4.8	1.2	3.6	128.4	107.2	21.2	15.3	5.9	0	NA	C	70	30	NA	NA	U	Y	Y	Y	GY	GY	TILL
-02	6.8	2.2	4.6	144.0	118.0	26.0	20.2	5.8	0	NA	C	70	30	NA	NA	U	Y	Y	Y	GB	GB	TILL
-03	4.2	2.1	2.1	117.7	105.1	12.6	8.9	3.7	0	NA	C	80	20	NA	NA	U	Y	Y	Y	GG	GG	TILL
75-01	4.6	1.3	3.3	173.0	154.5	18.5	14.4	4.1	0	NA	C	80	20	NA	NA	U	Y	Y	Y	GG	GG	TILL
76-01	1.0	0.3	0.7	68.1	64.6	3.5	3.0	0.5	0	NA	C	90	10	NA	NA	U	Y	Y	Y	GG	GG	TILL
77-01	10.7	2.4	8.3	144.7	126.6	18.1	12.9	5.2	0	NA	P	50	20	NA	NA	U	Y	Y	Y	GG	GG	TILL
78-01	8.7	2.4	6.3	125.7	105.2	20.5	15.1	5.4	0	NA	P	50	20	NA	NA	U	Y	Y	Y	GB	B	TILL
81-01	1.0	0.1	0.9	82.3	78.7	3.6	2.7	0.9	0	NA	P	70	30	NA	NA	U	Y	Y	Y	B	GB	TILL
82-01	8.1	2.8	5.3	118.0	100.6	17.4	13.2	4.2	0	NA	C	80	20	NA	NA	U	Y	Y	Y	GG	GG	TILL
-02	6.0	2.5	3.5	108.0	97.2	10.8	8.0	2.8	0	NA	C	80	20	NA	NA	U	Y	Y	Y	GG	GG	TILL
85-01	6.0	1.4	4.6	87.4	73.6	13.8	10.1	3.7	0	NA	C	50	20	NA	NA	U	Y	Y	Y	GG	GG	TILL
87-01	1.0	0.2	0.8	63.5	60.7	2.8	2.2	0.6	0	NA	C	90	10	NA	NA	U	Y	Y	Y	GG	GG	TILL
89-01	12.0	3.0	9.0	155.4	130.0	25.4	17.3	8.1	0	NA	C	80	20	NA	NA	U	Y	Y	Y	GG	GG	TILL
84-01	7.5	1.2	6.0	57.2	70.0	27.2	21.2	6.0	0	NA	C	75	25	NA	NA	U	Y	Y	Y	GF	GY	TILL
-02	8.6	2.5	6.3	103.7	90.8	23.1	17.8	5.3	0	NA	C	80	20	NA	NA	U	Y	Y	Y	GB	GB	TILL
88-01	8.1	1.6	4.5	124.0	98.8	27.2	20.7	6.5	0	NA	C	75	25	NA	NA	U	Y	Y	Y	GB	GB	TILL

OVERBURDEN DRILLING MANAGEMENT LIMITED

LABORATORY SAMPLE LOG

SAMPLE NO.	WEIGHT (KG. WET)			WEIGHT (GRAMS DRY)				AU		DESCRIPTION							CLASS					
	=====			=====				=====		=====							=====					
	M. I. CONC			CLAST		MATRIX																
	TABLE SPLIT	+10 CHIPS	TABLE FEED	TABLE CONC	M.I. LIGHTS	CONC. TOTAL	NON MAG	MAG	NO. V.G.	CALC PPB	SIZE	%	S/U	SD	ST	CY	COLOR	SD	CY			
										V/S	GR	LS	OT									
NiD-86																						
109-01	7.4	0.6	6.8	173.7	138.2	35.5	23.9	11.6	0	NA	C	90	10	NA	NA	U	Y	Y	Y	GY	GY	TILL
111-01	5.3	0.7	4.6	214.4	186.3	28.1	21.3	6.8	0	NA	P	80	20	NA	NA	U	Y	Y	Y	GB	GY	TILL
113-01	8.0	0.3	7.7	181.6	142.8	38.8	29.5	9.3	0	NA	P	80	20	NA	NA	S	M	Y	Y	GB	GY	SAND
115-01	9.9	0.4	9.5	207.2	170.9	36.3	26.5	9.8	0	NA	P	80	20	NA	NA	U	Y	Y	Y	GB	GY	TILL
117-01	5.4	0.4	5.0	196.9	189.2	7.7	6.2	1.5	0	NA	P	75	25	NA	NA	U	Y	Y	Y	B	B	TILL
-02	13.9	0.9	13.0	486.4	449.8	36.6	27.8	8.8	0	NA	P	70	30	NA	NA	U	Y	Y	Y	B	B	TILL
119-01	10.5	5.8	4.7	161.7	149.5	12.2	9.2	3.0	0	NA	P	85	15	NA	NA	U	Y	Y	Y	GY	GB	TILL
121-01	9.5	0.3	9.2	215.1	180.0	35.1	26.7	8.4	0	NA	P	50	50	NA	NA	U	Y	Y	Y	GY	GB	TILL
123-01	8.3	2.2	6.1	170.8	132.9	37.9	34.1	3.8	0	NA	P	90	10	NA	NA	U	Y	Y	Y	GN	GG	TILL
124-01	6.7	1.1	5.6	181.8	146.4	35.4	26.2	9.2	0	NA	BD	95	5	NA	NA	U	Y	Y	Y	GG	GG	TILL
125-01	8.7	2.4	6.3	158.2	143.4	14.8	9.1	5.7	0	NA	C	90	10	NA	NA	U	Y	Y	Y	GG	GG	TILL
126-01	7.1	0.1	7.0	170.1	140.7	29.4	23.4	6.0	0	NA	P	75	25	NA	NA	U	Y	Y	Y	GG	GG	TILL
127-01	1.9	0.4	1.5	49.6	43.9	5.7	4.7	1.0	0	NA	C	95	5	NA	NA	U	Y	Y	Y	GG	GG	TILL
128-01	9.4	1.5	7.9	168.3	136.2	32.1	24.6	7.5	0	NA	P	80	20	NA	NA	U	Y	Y	Y	GG	GG	TILL
129-01	2.7	0.9	1.8	126.0	118.4	7.6	6.8	0.8	0	NA	P	80	20	NA	NA	U	Y	Y	Y	GN	GG	TILL
130-01	11.8	2.4	9.4	147.8	114.3	33.5	25.5	8.0	0	NA	C	80	20	NA	NA	U	Y	Y	Y	GG	GG	TILL
131-01	2.5	0.0	2.5	73.0	63.4	9.6	7.9	1.7	0	NA	TR	NA	NA	NA	NA	U	Y	Y	Y	GG	GG	TILL
-02	5.4	0.4	5.0	193.7	169.3	24.4	19.4	5.0	0	NA	C	85	15	NA	NA	U	Y	Y	Y	GY	GY	TILL
-03	3.3	1.2	2.1	56.8	52.8	4.0	3.3	0.7	0	NA	P/C	85	15	NA	NA	U	Y	Y	Y	GY	GY	TILL
-04	8.3	0.6	7.7	253.2	224.1	29.1	23.0	6.1	0	NA	P/C	80	20	NA	NA	U	Y	Y	Y	GY	GY	TILL
-05	7.7	1.3	6.4	184.6	155.2	29.4	22.7	6.7	0	NA	P/C	80	20	NA	NA	U	Y	Y	Y	GB	GB	TILL
-06	9.3	1.0	8.3	247.2	207.4	39.8	31.6	8.2	0	NA	P/C	80	20	NA	NA	U	Y	Y	Y	GB	GB	TILL
-07	5.8	0.7	5.1	197.7	173.2	24.5	19.5	5.0	0	NA	P/C	75	25	NA	NA	U	Y	Y	Y	GG	GG	TILL
-08	8.7	2.4	6.3	187.4	181.7	5.7	4.7	1.0	0	NA	C	70	30	NA	NA	S	C	NA	NA	GB	NA	GRAVEL
-09	8.1	2.0	6.1	171.7	156.4	15.3	13.1	2.2	0	NA	C/P	70	30	NA	NA	S	C	NA	NA	GB	NA	GRAVEL
-10	8.1	1.9	6.2	235.9	223.3	12.6	10.6	2.0	0	NA	P	80	20	NA	NA	S	C	NA	NA	GB	NA	GRAVEL
-11	6.9	1.6	5.3	166.3	144.9	21.4	17.0	4.4	0	NA	P	80	20	NA	NA	U	Y	Y	Y	GB	GB	TILL
132-01	6.7	0.8	5.9	208.0	182.1	25.9	20.3	5.6	0	NA	P	80	20	NA	NA	U	Y	Y	Y	GB	GB	TILL
133-01	3.8	1.5	2.3	102.9	99.9	3.0	2.3	0.7	0	NA	P	75	25	NA	NA	S	C	Y	NA	GB	NA	GRAVEL
134-01	8.3	0.7	7.6	183.2	152.8	30.4	23.0	7.4	0	NA	P	80	20	NA	NA	U	Y	Y	Y	GB	G	TILL
135-01	6.3	1.2	5.1	193.1	176.6	16.5	13.0	3.5	0	NA	P	75	25	NA	NA	S	C	Y	NA	GB	NA	GRAVEL
-02	3.0	1.1	1.9	86.2	66.1	20.1	18.1	2.0	0	NA	P	75	25	NA	NA	Y	Y	Y	Y	GB	GB	TILL
136-01	9.7	1.8	7.9	197.4	162.3	35.1	27.8	7.3	1	76	P	75	25	NA	NA	U	Y	Y	Y	GB	GB	TILL
-02	5.9	1.2	4.7	156.1	133.5	22.6	18.0	4.6	2	508	P	75	25	NA	NA	U	Y	Y	Y	GB	GB	TILL
-03	10.3	0.6	9.7	135.8	118.3	17.5	14.5	3.0	0	NA	P	70	30	NA	NA	U	Y	Y	Y	GB	GB	TILL
137-01	4.4	3.6	0.8	225.7	189.3	36.4	28.4	8.0	2	110	P	70	30	NA	NA	U	Y	Y	Y	GB	GB	TILL
-02	9.8	0.4	9.4	307.1	269.8	37.3	28.7	8.6	0	NA	P	80	20	NA	NA	U	Y	Y	Y	GB	GB	TILL
138-01	11.2	1.4	9.8	221.6	203.2	18.4	13.5	4.9	0	NA	P	80	20	NA	NA	U	Y	Y	Y	GB	GB	TILL
-02	6.6	0.9	5.7	184.5	170.8	13.7	10.2	3.5	0	NA	P	80	20	NA	NA	U	Y	Y	Y	GB	GB	TILL
139-01	9.1	2.4	6.7	106.4	84.9	21.5	17.3	4.2	0	NA	P	80	20	NA	NA	U	Y	Y	Y	GB	GB	TILL
140-01	6.8	0.0	6.8	57.1	40.2	16.9	12.2	4.7	0	NA	TR	NA	NA	NA	NA	U	Y	Y	Y	GB	GB	TILL
141-01	7.3	0.2	7.1	75.0	61.3	13.7	11.3	2.4	0	NA	P	80	20	NA	NA	U	Y	Y	Y	GB	GB	TILL
142-01	6.5	0.8	5.7	278.0	273.1	4.9	3.9	1.0	0	NA	P	70	30	NA	NA	U	Y	Y	Y	GB	GB	TILL
-02	9.6	1.8	7.8	279.5	268.2	11.3	9.1	2.2	0	9	P	70	30	NA	NA	U	Y	Y	Y	GB	GB	TILL

OVERBURDEN DRILLING MANAGEMENT LIMITED

LABORATORY SAMPLE LOG

SAMPLE NO.	WEIGHT (KG.WET)			WEIGHT (GRAMS DRY)				AU		DESCRIPTION								CLASS				
	TABLE SPLIT	+10 CHIPS	TABLE FEED	TABLE CONC	M.I. LIGHTS	CONC. TOTAL	NON MAG	NO. MAG	CALC V.G.	PPB	CLAST SIZE	%	MATRIX S/U SD ST CY COLOS				SD	CY				
										V/S	GR	LS	OT									
NMG-86																						
142-03	6.1	0.5	5.6	174.4	158.5	15.9	12.8	3.1	0	NA	F	75	25	NA	NA	U	Y	Y	Y	GP	GE	TILL
-04	6.9	0.8	6.1	210.5	192.4	18.1	14.0	4.1	0	NA	F	30	30	NA	NA	U	Y	Y	Y	GS	GB	TILL
-05	5.9	0.6	5.3	180.1	162.9	17.2	13.5	3.7	0	NA	P	70	30	NA	NA	U	Y	Y	Y	GB	GB	TILL
-06	6.8	0.4	6.4	255.2	236.1	19.1	15.3	3.8	0	NA	P	70	30	NA	NA	U	Y	Y	Y	GB	GB	TILL
-07	5.8	0.4	5.4	225.6	208.6	17.0	13.8	3.2	0	NA	P	90	20	NA	NA	U	Y	Y	Y	GB	GB	TILL
-08	4.9	0.2	4.7	207.9	191.3	16.6	13.5	3.1	1	282	C, BD	95	5	NA	NA	U	Y	Y	Y	GB	GB	TILL&BLR
143-03	8.6	2.8	5.8	340.8	322.6	18.2	14.7	3.5	1	13	F	80	20	NA	NA	U	Y	Y	Y	GY	GY	TILL
-04	9.6	1.1	8.5	209.1	180.0	29.1	23.3	5.8	0	NA	F	70	30	NA	NA	U	Y	Y	Y	GB	GB	TILL
144-01	5.8	1.1	4.7	159.5	137.2	22.3	17.4	4.9	0	NA	P	80	20	NA	NA	U	Y	Y	Y	GB	GB	TILL
-02	8.2	1.8	6.4	161.5	130.8	30.7	25.0	5.7	0	NA	C	80	20	NA	NA	U	Y	Y	Y	GB	GB	TILL
145-01	7.4	0.6	6.8	210.8	186.5	24.3	19.7	4.6	0	NA	P	70	30	NA	NA	U	Y	Y	Y	GB	GB	TILL
-02	12	3.1	8.9	226.3	199.0	27.3	21.1	6.2	0	NA	P	70	30	NA	NA	U	Y	Y	Y	GB	GB	TILL
-03	10.5	2.7	7.8	222.9	189.0	33.9	26.9	7.0	1	424	P	70	30	NA	NA	U	Y	Y	Y	GB	GB	TILL
-04	4.9	1.9	3.0	88.0	79.4	8.6	6.1	2.5	0	NA	P	70	30	NA	NA	U	Y	Y	Y	GGY	GG	TILL
146-01	5.5	1.8	3.7	147.9	136.5	11.4	8.2	3.2	0	NA	P	75	25	NA	NA	U	Y	Y	Y	GG	GG	TILL
-02	4.5	2.8	1.7	143.0	140.7	2.3	1.8	0.5	0	NA	F	75	25	NA	NA	U	Y	Y	Y	GG	GG	TILL
-03	8.4	4.2	4.2	130.4	123.8	6.6	5.0	1.6	0	NA	F	75	25	NA	NA	U	Y	Y	Y	GG	GG	TILL
141-02	8.6	1.7	6.9	177.7	146.3	31.4	21.8	9.6	0	NA	F	75	25	NA	NA	U	Y	Y	Y	GG	GG	TILL
143-01	12.6	3.1	9.5	503.8	470.9	32.9	24.5	8.4	0	NA	P	75	25	NA	NA	U	Y	Y	Y	GY	GY	TILL
143-02	4.3	1.3	3.0	165.6	157.6	8.0	6.0	2.0	0	NA	F	75	25	NA	NA	U	Y	Y	Y	GY	GY	TILL
146-04	6.4	3.2	3.2	96.6	91.8	4.8	3.8	1.0	0	NA	P	70	30	NA	NA	S	C	Y	Y	GY	GY	GRAVEL
-05	5.9	1.6	4.3	131.1	119.8	11.3	5.8	5.5	0	NA	P	70	30	NA	NA	S	C	Y	Y	GY	GY	GRAVEL
-06	5.7	2.9	2.8	116.4	110.6	5.8	4.2	1.6	0	NA	P	70	30	NA	NA	S	C	Y	Y	GY	GY	GRAVEL
-07	5.9	2.0	3.9	145.9	135.8	10.1	7.7	2.4	0	NA	P	70	30	NA	NA	S	C	Y	Y	GY	GY	GRAVEL
150-01	9.6	1.5	8.1	279.3	265.5	13.8	11.3	2.5	0	NA	P	70	30	NA	NA	U	Y	Y	Y	GY	GY	TILL

OVERBURDEN DRILLING MANAGEMENT LIMITED

LABORATORY SAMPLE LOG

SAMPLE NO.	WEIGHT (KG. WET)			WEIGHT (GRAMS DRY)				AU		DESCRIPTION						CLASS						
	TABLE	+10	TABLE	TABLE	M.I.	CONC.	NON	NO.	CALC	CLAST			MATRIX									
	SPLIT	CHIPS	FEED	CONC	LIGHTS	TOTAL	MAG	MAG	V.G.	PPB	SIZE	%	S/U	SD	ST	CY	COLOR	SD	CY			
											V/S	GR	LS	OT								
194-01	4.9	1.6	3.3	139.7	119.5	20.2	16.9	3.3	0	NA	C	75	25	NA	NA	U	Y	Y	Y	GB	GB	TILL
195-01	3.0	1.2	1.8	74.3	64.8	9.5	7.4	2.1	0	NA	P	60	40	NA	NA	U	Y	Y	Y	GB	GB	TILL
197-01	13.8	2.8	11.0	278.9	233.1	45.8	33.6	12.2	0	NA	P	65	35	NA	NA	U	Y	Y	Y	GY	GY	TILL
199-01	4.0	1.7	2.3	144.1	130.6	13.5	10.3	3.2	0	NA	P	40	60	NA	NA	U	Y	Y	Y	GB	GB	TILL
-02	1.5	0.5	1.0	72.6	66.8	5.8	4.7	1.1	0	NA	P	50	50	NA	NA	U	Y	Y	Y	GB	GB	TILL
201-01	1.4	0.6	0.8	85.4	78.7	6.7	5.0	1.7	0	NA	P	65	35	NA	NA	U	Y	Y	Y	GY	GY	TILL

OVERBURDEN DRILLING MANAGEMENT LIMITED

LABORATORY SAMPLE LOG

SAMPLE NO.	WEIGHT (KG.WET)			WEIGHT (GRAMS DRY)				AU		DESCRIPTION							CLASS				
	TABLE SPLIT	+10 CHIPS	TABLE FEED	TABLE CONC	M.I. LIGHTS	CONC. TOTAL	NON MAG	NO. MAG	CALC V.6.	PPB	CLAST SIZE	%	MATRIX S/U SD			ST CY	COLOR				
										V/S	GR	LS	OT	SD		CY					
NMO-86																					
230-03	6.9	1.4	5.5	192.7	170.5	22.2	17.3	4.9	0	NA P	70	30	NA	NA	U	Y	Y	Y	GB	GB	TILL
232-01	5.0	1.0	4.0	94.9	83.9	11.0	8.2	2.8	0	NA P	70	30	NA	NA	U	Y	Y	Y	GB	GB	TILL
-02	1.8	0.3	1.5	46.3	42.5	3.8	3.2	0.6	0	NA P	60	40	NA	NA	U	Y	Y	Y	GB	GB	TILL
234-01	8.5	1.4	7.1	163.3	147.5	15.8	11.8	4.0	1	656 P	75	25	NA	NA	U	Y	Y	Y	GB	GB	TILL
236-01	2.9	0.4	2.5	72.5	65.9	6.6	4.8	1.8	0	NA P	45	55	NA	NA	U	Y	Y	Y	GB	GB	TILL
238-01	7.6	1.2	6.4	85.3	61.8	23.5	16.8	6.7	0	NA P	80	20	NA	NA	U	Y	Y	Y	GB	GB	TILL
-02	7.5	3.0	4.5	123.3	103.8	19.5	14.9	4.6	0	NA P	75	25	NA	NA	U	Y	Y	Y	GB	GB	TILL
-03	8.4	2.4	6.0	150.6	127.7	22.9	17.1	5.8	0	NA P	80	20	NA	NA	U	Y	Y	Y	GB	GB	TILL
-04	7.0	2.5	4.5	181.6	165.0	16.6	12.2	4.4	0	NA BR/C	80	20	NA	NA	U	Y	Y	Y	GG	GG	TILL
240-01	8.5	1.8	6.7	209.5	181.8	27.7	19.7	8.0	0	NA P	75	25	NA	NA	U	Y	Y	Y	GY	GY	TILL
-02	4.6	1.3	3.3	169.0	150.4	18.6	13.9	4.7	0	NA P	80	20	NA	NA	U	Y	Y	Y	GY	GY	TILL
242-01	1.0	0.2	0.8	53.5	49.8	3.7	3.3	0.4	0	NA C	95	5	NA	NA	U	Y	Y	Y	GG	GG	TILL
244-01A	3.2	0.8	2.4	98.4	87.4	11.0	8.9	2.1	0	NA C	80	20	NA	NA	U	Y	Y	Y	GY	GY	TILL
-01B	5.6	0.8	4.8	189.4	162.4	27.0	18.7	8.3	0	NA C	70	30	NA	NA	U	Y	Y	Y	GB	GB	TILL
237-01	3.6	0.8	2.8	129.9	121.0	8.9	7.1	1.8	0	NA P	90	10	NA	NA	U	Y	Y	Y	GB	GB	TILL
-02	2.5	1.8	0.7	48.8	46.0	2.8	2.2	0.6	0	NA P/BR	90	10	NA	NA	U	Y	Y	Y	GB	GY	TILL
239-01	3.7	1.6	2.1	115.2	107.2	8.0	6.5	1.5	0	NA P	60	40	NA	NA	U	Y	Y	Y	GB	GB	TILL
241-01	11.9	1.3	10.6	212.7	171.5	41.2	30.0	11.2	0	NA P	65	35	NA	NA	U	Y	Y	Y	GB	GB	TILL
-02	8.5	0.5	8.0	181.6	143.8	37.8	28.9	8.9	0	NA P	60	40	NA	NA	U	Y	Y	Y	GB	GB	TILL
-03	15.3	2.5	12.8	359.3	304.1	55.2	43.0	12.2	0	NA P/BR	80	20	NA	NA	U	Y	Y	Y	GB	GB	TILL
243-01	20.6	1.1	19.5	555.3	499.9	55.4	42.3	13.1	0	NA P	75	25	NA	NA	U	Y	Y	Y	GB	GB	TILL
-02	16.8	1.6	15.2	350.9	304.9	46.0	35.8	10.2	1	3394 P	80	20	NA	NA	U	Y	Y	Y	GB	GB	TILL
-03	6.1	1.0	5.1	174.9	157.6	17.3	13.5	3.8	0	NA P	70	30	NA	NA	U	Y	Y	Y	GB	GB	TILL
-04	7.5	0.4	7.1	174.8	160.7	14.1	11.0	3.1	0	NA P	90	10	NA	NA	U	Y	Y	Y	GB	GB	TILL
244-02	6.5	1.4	5.1	169.0	140.1	28.9	22.1	6.8	0	NA P/C	80	20	NA	NA	U	Y	Y	Y	GB	GB	TILL
245-01	2.0	0.4	1.6	78.3	69.8	8.5	6.9	1.6	0	NA P	60	40	NA	NA	U	Y	Y	Y	GB	GB	TILL
246-01	6.3	1.2	5.1	152.1	137.9	14.2	11.5	2.7	0	NA P	85	15	NA	NA	U	Y	Y	Y	B	B	TILL
247-01	6.5	0.5	6.0	207.0	180.6	26.4	20.4	6.0	0	NA BD/C	95	5	NA	NA	U	Y	Y	Y	B	B	TILL
-02	11.3	0.6	10.7	282.3	237.4	44.9	36.5	8.4	0	NA P/C	85	15	TR	NA	U	Y	Y	Y	GG	GG	TILL
249-01	6.0	0.1	5.9	169.9	148.2	21.7	16.5	5.2	0	NA P	95	5	NA	NA	U	Y	Y	Y	GG	GG	TILL
-02	10.2	0.4	9.8	185.2	147.7	37.5	28.0	9.5	0	NA C	90	10	NA	NA	U	Y	Y	Y	GG	GG	TILL
250-01	12.0	2.0	10.0	180.1	131.1	49.0	33.5	15.5	1	478 P/C	60	40	NA	NA	U	Y	Y	Y	GB	GB	TILL
251-01	8.6	2.0	6.6	252.3	237.3	15.0	11.9	3.1	0	NA P	60	40	NA	NA	U	Y	Y	Y	B	B	TILL
-02	9.2	1.5	7.7	195.5	179.9	15.6	12.3	3.3	0	NA P	80	20	NA	NA	U	Y	Y	Y	B	B	TILL
-03	8.3	3.0	5.3	192.2	170.5	21.7	17.4	4.3	0	NA P	90	10	NA	NA	U	Y	Y	Y	B	B	TILL
254-01	5.2	1.1	4.1	122.9	110.0	12.9	9.8	3.1	0	NA P	85	15	NA	NA	U	Y	Y	Y	B	B	TILL
255-02	10.2	5.7	4.5	157.9	135.3	22.6	18.5	4.1	0	NA P	85	15	NA	NA	U	Y	Y	Y	B	B	TILL
-03	9.5	3.9	5.6	179.3	155.3	24.0	18.9	5.1	0	NA P	85	15	NA	NA	U	Y	Y	Y	B	B	TILL
-04	8.7	1.9	6.8	200.1	166.5	33.6	27.4	6.2	0	NA P	85	15	NA	NA	U	Y	Y	Y	B	B	TILL
256-01	6.1	1.8	4.3	126.7	99.8	26.9	20.3	6.6	0	NA P/C	90	10	NA	NA	U	Y	Y	Y	B	B	TILL

GOLD CLASSIFICATION

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VISIBLE GOLD FROM SHAKING TABLE AND FANNING

SAMPLE #	PANNED	Y/N	DIAMETER	THICKNESS	NUMBER OF GRAINS						NON MAG GMS	CALC V.G. ASSAY PPB	REMARKS	
					ABRADED		IRREGULAR		DELICATE					TOTAL
					T	P	T	P	T	P				
NMG-86														
01-01	N		NO VISIBLE GOLD											
02-01	N		NO VISIBLE GOLD											
05-01	N		NO VISIBLE GOLD											
08-01	N		NO VISIBLE GOLD											
09-01	N		NO VISIBLE GOLD											
-02	N		NO VISIBLE GOLD											
10-01	N		NO VISIBLE GOLD											
-02	N		150 X 325	44 C	1					1				
TOTAL										1	41.1	455		
11-01	N		NO VISIBLE GOLD											
12-01	N		NO VISIBLE GOLD											
-02	N		NO VISIBLE GOLD											
13-01	N		NO VISIBLE GOLD											
14-01	N		NO VISIBLE GOLD											
-02	N		NO VISIBLE GOLD											
15-01	N		NO VISIBLE GOLD											
16-01	N		NO VISIBLE GOLD											
-02	N		NO VISIBLE GOLD											
17-01	N		NO VISIBLE GOLD											
20-01	N		NO VISIBLE GOLD											
21-01	N		NO VISIBLE GOLD											
-02	N		NO VISIBLE GOLD											
-03	N		NO VISIBLE GOLD											
23-01	Y		NO VISIBLE GOLD											

EST. 35% PYRITE

GOLD CLASSIFICATION

VISIBLE GOLD FROM SHAKING TABLE AND PANNING

SAMPLE #	PANNED	DIAMETER	THICKNESS	NUMBER OF GRAINS								NON MAG	CALC V.G. ASSAY	REMARKS				
				ABRADED		IRREGULAR		DELICATE		TOTAL	GMS				PPB			
				T	P	T	P	T	P									
-02	N																	
-03	N																	
44-01	N																	
-02	N																	
45-01	N																	
47-01	Y	75 X 125	20 C							1								EST. 25% PYRITE 150 GRAINS ARSENOFYRITE
TOTAL											.1	6.3	238					
48-01	N																	
-02	N																	
-03	N																	
49-01	N																	
51-01	N																	
52-01	N																	
53-01	N																	
54-01	N																	
55-01	N																	
57-01	N																	
60-01	N																	
-02	N																	
-03	N																	
61-01	N																	
63-01	N																	
64-01	N																	
65-01	Y																	EST. 35% PYRITE

GOLD CLASSIFICATION

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VISIBLE GOLD FROM SHAKING TABLE AND FANNING

NUMBER OF GRAINS

SAMPLE #	PANNED	Y/N	DIAMETER	THICKNESS	ABRADED				IRREGULAR		DELICATE		NON MAG	CALC V.G. ASSAY	REMARKS	
					T	P	T	P	T	P	TOTAL	GMS				PPB
66-01	N		NO VISIBLE GOLD													
69-01	N		NO VISIBLE GOLD													
70-01	N		NO VISIBLE GOLD													
72-01	Y		100 X 175	27 C							1	1		EST. 25% PYRITE		
												TOTAL	1	13.4	286	
73-01	N		NO VISIBLE GOLD													
-02	N		NO VISIBLE GOLD													
-03	N		NO VISIBLE GOLD													
75-01	N		NO VISIBLE GOLD													
76-01	N		NO VISIBLE GOLD													
77-01	N		NO VISIBLE GOLD													
78-01	N		NO VISIBLE GOLD													
81-01	N		NO VISIBLE GOLD													
82-01	N		NO VISIBLE GOLD													
-02	N		NO VISIBLE GOLD													
85-01	N		NO VISIBLE GOLD													
87-01	N		NO VISIBLE GOLD													
89-01	N		NO VISIBLE GOLD													
84-01	N		NO VISIBLE GOLD													
-02	N		NO VISIBLE GOLD													
88-01	N		NO VISIBLE GOLD													
91-01	N		NO VISIBLE GOLD													
93-01	N		NO VISIBLE GOLD													
94-01	N		NO VISIBLE GOLD													

50 GRAINS ARSENDOPYRITE

GOLD CLASSIFICATION

VISIBLE GOLD FROM SHAKING TABLE AND PANNING

SAMPLE #	PANNED	DIAMETER	THICKNESS	NUMBER OF GRAINS						NON MAG	CALC V.G. ASSAY	REMARKS	
				ABRADED		IRREGULAR		DELICATE					TOTAL
				T	P	T	P	T	P				
-09	N	NO VISIBLE GOLD											
-10	N	NO VISIBLE GOLD											
-11	N	NO VISIBLE GOLD											
132-01	N	NO VISIBLE GOLD											
133-01	N	NO VISIBLE GOLD											
134-01	N	NO VISIBLE GOLD											
135-01	Y	NO VISIBLE GOLD								EST: 1% PYRITE			
-02	Y	NO VISIBLE GOLD								EST: 30% PYRITE			
136-01	N	75 X 150	22 C			1		1					
TOTAL										1 27.8 76			
-02	Y	25 X 25	5 C	1				1		EST: 25% PYRITE			
		100 X 150	25 C	1				1					
		100 X 225	31 C	1				1					
TOTAL										3 18.0 508			
136-03	N	NO VISIBLE GOLD											
137-01	Y	75 X 100	18 C	1				1		EST: 3% PYRITE			
		100 X 125	22 C		1			1		0.25% ARSENOFYRITE			
TOTAL										2 28.4 110			
137-02	N	NO VISIBLE GOLD											
138-01	N	NO VISIBLE GOLD											
-02	N	NO VISIBLE GOLD											
139-01	Y	NO VISIBLE GOLD								EST: 20% PYRITE			
140-01	N	NO VISIBLE GOLD											
141-01	N	NO VISIBLE GOLD											
142-01	N	NO VISIBLE GOLD											

GOLD CLASSIFICATION

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VISIBLE GOLD FROM SHAKING TABLE AND FANNING

SAMPLE #	FANNED	Y/N	DIAMETER	THICKNESS	NUMBER OF GRAINS						NON MAG	TOTAL GMS	CALC V.G. ASSAY PPB	REMARKS
					ABRADED		IRREGULAR		DELICATE					
					T	P	T	P	T	P				
142-02	Y		25 X	50	8	C	1				1		EST: 10% PYRITE	
TOTAL											1	9.1	9	

GOLD CLASSIFICATION

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VISIBLE GOLD FROM SHAKING TABLE AND FANNING

NUMBER OF GRAINS

SAMPLE #	FANNED	Y/N	DIAMETER	THICKNESS	ABRADED		IRREGULAR		DELICATE		NON MAG	CALC V.G. ASSAY	REMARKS
					T	P	T	P	T	P			

-05 N NO VISIBLE GOLD

-06 N NO VISIBLE GOLD

-07 N NO VISIBLE GOLD

-150-01 N NO VISIBLE GOLD

GOLD CLASSIFICATION

VISIBLE GOLD FROM SHAKING TABLE AND PANNING

SAMPLE #	PANNED	DIAMETER	THICKNESS	NUMBER OF GRAINS						NON MAG TOTAL GMS	CALC V.G. ASSAY FFB	REMARKS
				ABGRADED		IRREGULAR		DELICATE				
				T	P	T	P	T	P			
NMD-86												
147-01	N	NO VISIBLE GOLD										
151-01	Y	50 X	50	10 C			1		1			EST. 25% PYRITE 1 GRAIN BORNITE
												TOTAL 1 14.5 13
153-01	N	NO VISIBLE GOLD										
155-01	N	NO VISIBLE GOLD										
156-01	N	NO VISIBLE GOLD										
157-01	Y	25 X	25	5 C			1		1			EST. 5% PYRITE
		25 X	50	8 C			1		1			
		50 X	75	13 C			1	1	2			
		100 X	125	22 C		1			1			
		200 X	225	40 C	1				1			
												TOTAL 6 23.1 717
158-01	N	200 X	200	38 C	1				1			
												TOTAL 1 19.0 600
-02	N	NO VISIBLE GOLD										
160-01	N	NO VISIBLE GOLD										
161-01	N	NO VISIBLE GOLD										
162-01	N	NO VISIBLE GOLD										
163-01	N	NO VISIBLE GOLD										
164-01	N	NO VISIBLE GOLD										
-02	N	NO VISIBLE GOLD										
165-01	N	NO VISIBLE GOLD										
-02	Y	NO VISIBLE GOLD										EST. 40% PYRITE
167-01	Y	NO VISIBLE GOLD										EST. 20% PYRITE
168-01	N	NO VISIBLE GOLD										
-02	N	NO VISIBLE GOLD										

GOLD CLASSIFICATION

VISIBLE GOLD FROM SHAKING TABLE AND PANNING

NUMBER OF GRAINS

SAMPLE #	PANNED	Y/N	DIAMETER	THICKNESS	NUMBER OF GRAINS				TOTAL	GMS	NON MAG	CALC V.G. ASSAY	REMARKS
					ABRADED T	IRREGULAR P	DELICATE T	DELICATE P					
NMD-86													
150-02	Y		NO VISIBLE GOLD										EST. 15% PYRITE
152-01	N		NO VISIBLE GOLD										
-02	Y		NO VISIBLE GOLD										EST. 15% PYRITE
-03	Y		NO VISIBLE GOLD										50 GRAINS ARSENOFYRITE (FINE)
154-01	N		NO VISIBLE GOLD										EST. 20% PYRITE
-02	N		NO VISIBLE GOLD										50 GRAINS ARSENOFYRITE (FINE)
-03	N		NO VISIBLE GOLD										
156-01	N		NO VISIBLE GOLD										
-02	Y		25 X	50	8 C		1			1			EST. 20% PYRITE
													50 GRAINS ARSENOFYRITE (FINE)
													TOTAL
										1	24.3		3
222-01	N		NO VISIBLE GOLD										
224-01	N		75 X	75	15 C		1			1			
													TOTAL
										1	22.1		29
226-01	N		NO VISIBLE GOLD										
228-01	N		NO VISIBLE GOLD										
230-01	N		200 X	250	42 C		1			1			
													TOTAL
										1	12.0		1335
-02	N		NO VISIBLE GOLD										
-03	N		NO VISIBLE GOLD										
232-01	N		NO VISIBLE GOLD										
-02	N		NO VISIBLE GOLD										
234-01	Y		175 X	175	34 C		1			1			EST. 25% PYRITE
													TOTAL
										1	11.6		656
236-01	N		NO VISIBLE GOLD										

GOLD CLASSIFICATION

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VISIBLE GOLD FROM SHAKING TABLE AND PANNING

NUMBER OF GRAINS

SAMPLE #	PANNED	Y/N	DIAMETER	THICKNESS	NUMBER OF GRAINS				TOTAL	GMS	CALC V.G.	REMARKS
					ABRADED		IRREGULAR					
					T	P	T	P	T	P	PPB	
NMO-86												
212-01	N		NO VISIBLE GOLD									
214-01	Y		75 X 75	15 C			1				1	EST: 15% PYRITE
									TOTAL	1	17.6	36
215-01	Y		NO VISIBLE GOLD									
216-01	N		NO VISIBLE GOLD									
217-01	N		NO VISIBLE GOLD									
218-01	N		NO VISIBLE GOLD									
219-01	N		NO VISIBLE GOLD									
-02	Y		75 X 125	20 C			1				1	EST: 15% PYRITE
									TOTAL	1	11.2	134
220-01	N		NO VISIBLE GOLD									
221-01	N		NO VISIBLE GOLD									
225-01	N		NO VISIBLE GOLD									
227-01	N		NO VISIBLE GOLD									
229-01	N		NO VISIBLE GOLD									
231-01	N		NO VISIBLE GOLD									
233-01	N		NO VISIBLE GOLD									
235-01	N		NO VISIBLE GOLD									
-02	N		NO VISIBLE GOLD									
-03	N		NO VISIBLE GOLD									
245-01	N		NO VISIBLE GOLD									
247-01	N		NO VISIBLE GOLD									
-02	N		NO VISIBLE GOLD									

GOLD CLASSIFICATION

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VISIBLE GOLD FROM SHAKING TABLE AND PANNING

NUMBER OF GRAINS

SAMPLE #	PANNED	Y/N	DIAMETER	THICKNESS	NUMBER OF GRAINS				NON MAG	CALC V.G. ASSAY	REMARKS	
					ABRADED		IRREGULAR					DELICATE
					T	P	T	P	T	P		
NMD-86												
230-03	N										NO VISIBLE GOLD	
232-01	N										NO VISIBLE GOLD	
-02	N										NO VISIBLE GOLD	
234-01	Y		175 X 175	34 C		1				1	EST: 25% PYRITE	
									TOTAL	1	11.8	656
236-01	N										NO VISIBLE GOLD	
238-01	N										NO VISIBLE GOLD	
-02	N										NO VISIBLE GOLD	
-03	N										NO VISIBLE GOLD	
-04	N										NO VISIBLE GOLD	
240-01	N										NO VISIBLE GOLD	
-02	N										NO VISIBLE GOLD	
242-01	N										NO VISIBLE GOLD	
244-01A	N										NO VISIBLE GOLD	
-01B	N										NO VISIBLE GOLD	
237-01	N										NO VISIBLE GOLD	
-02	N										NO VISIBLE GOLD	
239-01	N										NO VISIBLE GOLD	
241-01	N										NO VISIBLE GOLD	
-02	N										NO VISIBLE GOLD	
-03	N										NO VISIBLE GOLD	
243-01	N										NO VISIBLE GOLD	
-02	N		450 X 475	76 C			1			1		
									TOTAL	1	35.8	3394

GOLD CLASSIFICATION

=====

VISIBLE GOLD FROM SHAKING TABLE AND PANNING

NUMBER OF GRAINS

SAMPLE #	PANNED	Y/N	DIAMETER	THICKNESS	NUMBER OF GRAINS				NON MAG	CALC V.G. ASSAY	REMARKS		
					ABRADED		IRREGULAR					DELICATE	
					T	P	T	P	T	P			
237-01	N		NO VISIBLE GOLD										
-02	N		NO VISIBLE GOLD										
239-01	N		NO VISIBLE GOLD										
241-01	N		NO VISIBLE GOLD										
-02	N		NO VISIBLE GOLD										
-03	N		NO VISIBLE GOLD										
243-01	N		NO VISIBLE GOLD										
-02	N		450 X	475	76 C		1			1			
										TOTAL	1	35.8	3394
-03	N		NO VISIBLE GOLD										
-04	N		NO VISIBLE GOLD										
244-02	N		NO VISIBLE GOLD										
245-01	N		NO VISIBLE GOLD										
246-01	N		NO VISIBLE GOLD										
247-01	N		NO VISIBLE GOLD										
-02	N		NO VISIBLE GOLD										
249-01	N		NO VISIBLE GOLD										
-02	N		NO VISIBLE GOLD										
250-01	N		150 X	300	42 C	1				1			
										TOTAL	1	33.5	478
251-01	N		NO VISIBLE GOLD										
-02	N		NO VISIBLE GOLD										
-03	N		NO VISIBLE GOLD										
254-01	N		NO VISIBLE GOLD										

GOLD CLASSIFICATION

VISIBLE GOLD FROM SHAKING TABLE AND PANNING

NUMBER OF GRAINS

SAMPLE #	PANNED	Y/N	DIAMETER	THICKNESS	NUMBER OF GRAINS				TOTAL	GMS	NON MAG	CALC V.G. ASSAY PPB	REMARKS
					ABRADED		IRREGULAR						
					T	P	T	P	T	P			
NMD-86													
256-02	N												
257-01	N												
-02	N												
258-01	N												
-02	N												
-03	N												
259-01	N												
-02	N												
-03	N												
260-01	N												
261-01	N												
-02	N												
262-01	N												
-02	N												
-03	N												
-04	N												
263-01	N												
264-01	N		100 X 200	29 C		1				1			
									TOTAL	1	31.0	159	
-02	Y		75 X 125	20 C		1				1		EST: 5% PYRITE	
			225 X 600	70 C			1			1			
			575 X 625	90 C			1			1			
									TOTAL	3	17.9	18622	
-03	Y		50 X 50	10 C		1				1		EST: 10% PYRITE	
			75 X 75	15 C		1				1			
			275 X 500	66 C			1			1			

GOLD CLASSIFICATION

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VISIBLE GOLD FROM SHAKING TABLE AND PANNING

SAMPLE #	PANNED	NUMBER OF GRAINS										NON MAG	CALC V.G. ASSAY	REMARKS
		ABRADED		IRREGULAR		DELICATE		TOTAL	GMS	FPB				
		T	P	T	P	T	P							
	Y/N	DIAMETER	THICKNESS											
NMD-86														
								TOTAL	3	22.8	3314			
265-01	Y	NO VISIBLE GOLD												EST: 25% PYRITE
267-01	N	NO VISIBLE GOLD												
-02	N	NO VISIBLE GOLD												
-03	Y	25 X	25	5 C		1			1					EST: 20% PYRITE
								TOTAL	1	21.0	1			
196-01	Y	NO VISIBLE GOLD												EST: 20% PYRITE 250 PELLETS MARCASITE
198-01	Y	25 X	50	8 C				1	1					EST: 15% PYRITE 250 PELLETS MARCASITE
		100 X	100	20 C		1			1					
								TOTAL	2	9.9	160			
200-01	Y	NO VISIBLE GOLD												EST: 10% PYRITE 2 GRAINS ARSENOFYRITE (COARSE)
202-01	N	NO VISIBLE GOLD												
204-01	N	NO VISIBLE GOLD												
-02	N	NO VISIBLE GOLD												
-03	N	NO VISIBLE GOLD												
206-01	N	NO VISIBLE GOLD												
207-01	N	NO VISIBLE GOLD												
-02	N	NO VISIBLE GOLD												
208-01	N	NO VISIBLE GOLD												
209-01	N	NO VISIBLE GOLD												
210-01	N	NO VISIBLE GOLD												
211-01	N	NO VISIBLE GOLD												

Cameron Lake

winter 1986

OVERBURDEN DRILLING MANAGEMENT LIMITED

LABORATORY SAMPLE LOG

SAMPLE NO.	WEIGHT (KG.WET)			WEIGHT (GRAMS DRY)				AU		DESCRIPTION						CLASS						
	TABLE SPLIT	+10 CHIPS	TABLE FEED	TABLE CONC	M.I. LIGHTS	CONC. TOTAL	NON MAG	MAG MAG	NO. V.G.	CALC PFB	CLAST SIZE	%		MATRIX S/U SD		ST CY	COLOR	SD CY				
											V/S	GR	LS	OT								
12-01	6.9	0.8	6.1	130.9	100.4	30.5	8.4	22.1	0	NA	P	70	30	NA	NA	U	Y	Y	Y	B	B	TILL
-02	5.7	0.9	4.8	173.0	149.5	23.5	5.6	17.9	0	NA	C	70	30	NA	NA	U	Y	Y	Y	GB	GB	TILL
13-01	11.3	2.2	9.1	167.7	132.8	34.9	24.8	10.1	0	NA	P	80	20	NA	NA	U	Y	Y	Y	GB	GB	TILL
14-01	9.6	2.0	7.6	175.0	147.6	27.4	20.7	6.7	4	5736	C	70	30	NA	NA	U	Y	Y	Y	GB	GB	TILL
15-01	4.3	1.4	2.9	131.8	115.2	16.6	13.0	3.6	0	NA	P	80	20	NA	NA	U	Y	Y	Y	B	B	TILL
16-01	2.9	0.6	2.3	96.3	85.2	11.1	8.9	2.2	0	NA	P	85	15	NA	NA	U	Y	Y	Y	B	B	TILL
17-01	8.5	3.0	5.5	177.3	139.9	37.4	29.9	7.5	0	NA	P	85	15	NA	NA	U	Y	Y	Y	B	B	TILL
18-01	8.7	3.2	5.5	234.9	197.3	37.6	27.4	10.2	0	NA	P/C	85	15	NA	NA	U	Y	Y	Y	GG	GG	TILL
-02	9.1	3.6	5.5	257.0	238.1	18.9	12.8	6.1	0	NA	P/C	80	20	NA	NA	U	Y	Y	Y	B	B	TILL
-03	10.5	2.6	7.9	237.4	210.8	26.6	19.2	7.4	0	NA	P	70	30	NA	NA	U	Y	Y	Y	B	B	TILL
-04	10.2	1.0	9.2	158.7	123.7	35.0	25.4	9.6	1	114	P/C	65	35	NA	NA	U	Y	Y	Y	B	B	TILL
-05	6.1	0.4	5.7	99.9	75.4	24.5	17.2	7.3	1	931	C	70	30	NA	NA	U	Y	Y	Y	B	B	TILL
-06	6.7	0.6	6.1	130.5	108.2	22.3	15.0	7.3	0	NA	C	50	50	NA	NA	U	Y	Y	Y	B	B	TILL
19-01	9.1	3.2	5.9	143.2	126.4	16.8	11.6	5.2	0	NA	C	70	30	NA	NA	U	Y	Y	Y	B	B	TILL

GOLD CLASSIFICATION

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VISIBLE GOLD FROM SHAKING TABLE AND PANNING

NUMBER OF GRAINS

SAMPLE #	PANNED	Y/N	DIAMETER	THICKNESS	NUMBER OF GRAINS				NON MAG	CALC V.G. ASSAY	REMARKS		
					ABGRADED		IRREGULAR					DELICATE	
					T	P	T	P	T	P			
NCO-86													
01-01	N												NO VISIBLE GOLD
-02	N												NO VISIBLE GOLD
-03	N												NO VISIBLE GOLD
-04	N												NO VISIBLE GOLD
-05	N												NO VISIBLE GOLD
-06	N												NO VISIBLE GOLD
02-01	N												NO VISIBLE GOLD
-02	N												NO VISIBLE GOLD
-03	N												NO VISIBLE GOLD
-04	N												NO VISIBLE GOLD
-05	N												NO VISIBLE GOLD
-06	N												NO VISIBLE GOLD
-07	N												NO VISIBLE GOLD
-08	N												NO VISIBLE GOLD
03-01	N												NO VISIBLE GOLD
-02	N												NO VISIBLE GOLD
-03	N												NO VISIBLE GOLD
-04	N												NO VISIBLE GOLD
-05	N												NO VISIBLE GOLD
-06	N												NO VISIBLE GOLD
-07	N	75 X 100		18 C							1		
TOTAL										1	16.5	61	
-08	N												NO VISIBLE GOLD
-09	N												NO VISIBLE GOLD

GOLD CLASSIFICATION

=====

VISIBLE GOLD FROM SHAKING TABLE AND PANNING

NUMBER OF GRAINS

SAMPLE #	PANNED	Y/N	DIAMETER	THICKNESS	ABRADED		IRREGULAR		DELICATE		NON MAG	CALC V.G. ASSAY	REMARKS			
					T	P	T	P	T	P				TOTAL	GMS	PPB
12-01	N		NO VISIBLE GOLD													
-02	N		NO VISIBLE GOLD													
13-01	N		NO VISIBLE GOLD													
14-01	Y		25 X 25	5 C					1	1			EST: 20% PYRITE			
			75 X 100	18 C					1	1						
			150 X 150	29 C	1					1						
			400 X 500	74 C			1			1						
15-01													TOTAL	4	20.7	5736
16-01	N		NO VISIBLE GOLD													
17-01	N		NO VISIBLE GOLD													
18-01	N		NO VISIBLE GOLD													
-02	N		NO VISIBLE GOLD													
-03	N		NO VISIBLE GOLD													
-04	N		50 X 200	25 C			1				1					
													TOTAL	1	25.4	114
-05	N		150 X 300	42 C	1						1					
													TOTAL	1	17.2	931
-06	N		NO VISIBLE GOLD													
19-01	N		NO VISIBLE GOLD													

OVERBURDEN DRILLING MANAGEMENT LIMITED - LABORATORY SAMPLE LOG

ABBREVIATIONS

CLAST:

SIZE OF CLAST:

G: GRANULES
P: PEBBLES
C: COBBLES
BL: BOULDER CHIPS
BK: BEDROCK CHIPS

% CLAST COMPOSITION

V/S VOLCANICS AND SEDIMENTS
GR GRANITICS
LS LIMESTONE
OT OTHER LITHOLOGIES (REFER TO FOOTNOTES BELOW)
TR ONLY TRACE PRESENT
NA NOT APPLICABLE

MATRIX:

S/U SORTED OR UNSORTED
SD SAND ; Y YES FRACTION PRESENT ; F: FINE
ST SILT ; N FRACTION NOT PRESENT ; M: MEDIUM
CY CLAY ; ; C: COARSE

COLOR:

B: BEIGE
GY: GREY
GB: GREY BEIGE
GN: GREEN
GG: GREY GREEN
BN: BROWN
BK: BLACK
OC: OCHRE
PK: PINK
OE: ORANGE

DESCRIPTION:

BLD: BOULDER CHIPS
BDK: BEDROCK CHIPS

●
ABBREVIATIONS

NUMBER OF GRAINS:

T: NUMBER FOUND ON SHAKING TABLE
P: NUMBER FOUND AFTER PANNING

THICKNESS:

D: CALCULATED THICKNESS OF GRAIN
M: ACTUAL MEASURED THICKNESS OF GRAIN

FOOTNOTES:

A GRITTY CLAY LUMPS PRESENT

B SMOOTH CLAY LUMPS PRESENT

C ORGANICS PRESENT

D SAMPLE HIGHLY OXIDIZED

NUIN1JUL.86

OVERBURDEN DRILLING MANAGEMENT LIMITED

LABORATORY SAMPLE LOG

SAMPLE NO.	WEIGHT (KG.WET)			WEIGHT (GRAMS DRY)				AU		DESCRIPTION				CLASS		
	TABLE	+10	TABLE	TABLE	M.I.	CONC.	NON	NO.	CALC	SIZE	%	S/U	SD		ST	CY
	SPLIT	CHIPS	FEED	CONC	LIGHTS	TOTAL	MAG	MAG	V.G.	PPB	V/S	GR	LS	DT	SD	CY

NCO-86

39-01	5.5	1.6	3.9	143.0	134.2	8.8	6.9	1.9	0	NA	F	50	40	NA	NA	U	Y	Y	Y	BN	B	TILL
-02	4.3	0.9	3.4	90.7	75.3	15.4	11.1	4.3	0	NA	F	75	25	NA	NA	U	Y	Y	Y	GB	B	TILL

GOLD CLASSIFICATION

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NUINIJUL.86

NUMBER OF GRAINS

SAMPLE #	PANNED	Y/N	DIAMETER	THICKNESS	ABRADED				IRREGULAR		DELICATE		NON MAG	CALC V.G. ASSAY PPB	REMARKS		
					T	P	T	P	T	P	TOTAL	GMS					
NCO-86																	
20-01	Y		25 X 25	5 C								1	1		NO SULPHIDES		
			25 X 50	8 C								1	1				
			50 X 50	10 C	1								1				
			150 X 100	25 C	1								1				
TOTAL												4	27.7	115			
-02	N		NO VISIBLE GOLD														
-03	N		150 X 200	34 C	1								1				
TOTAL												1	36.6	211			
-04	N		NO VISIBLE GOLD														
21-01	N		NO VISIBLE GOLD														
-02	N		NO VISIBLE GOLD														
-03	N		75 X 150	22 C	1								1				
TOTAL												1	50.5	42			
-04	N		100 X 250	34 C	1								1				
TOTAL												1	7.8	992			
-05	N		350 X 350	61 C				1					1				
TOTAL												1	21.9	2570			
-06	Y		25 X 25	5 C								1	2		NO SULPHIDES		
			25 X 50	8 C									1				
			50 X 50	10 C	1								1				
			50 X 75	13 C									1				
			100 X 100	20 C	1								1				
TOTAL												6	11.4	193			
22-01	N		NO VISIBLE GOLD														
23-01	N		NO VISIBLE GOLD														
-02	N		NO VISIBLE GOLD														
24-01	N		100 X 250	34 C	1								1				

GOLD CLASSIFICATION

VISIBLE GOLD FROM SHAKING TABLE AND FANNING

NUINJUL.86

NUMBER OF GRAINS

SAMPLE #	PANNED	Y/N	DIAMETER	THICKNESS	ABRADED		IRREGULAR		DELICATE		NON MAG	CALC V.G. ASSAY	REMARKS
					T	P	T	P	T	P			

NCO-86

TOTAL 1 17.0 455

-02 N NO VISIBLE GOLD

-03 N NO VISIBLE GOLD

25-01 N NO VISIBLE GOLD

-02 N NO VISIBLE GOLD

-03 N NO VISIBLE GOLD

27-01 N NO VISIBLE GOLD

-02	Y	25 X	25	5 C		1					1		EST: 10% PYRITE
		50 X	50	10 C					1		1		
		50 X	75	13 C		1					1		
		50 X	150	20 C			1				1		
		100 X	100	20 C	1						1		
		100 X	150	25 C		1					1		
		150 X	150	29 C	1						1		
		200 X	300	46 C	1						1		

TOTAL 8 24.7 1340

-03 N NO VISIBLE GOLD

-04 N NO VISIBLE GOLD

28-01 N NO VISIBLE GOLD

-02 N NO VISIBLE GOLD

-03 N NO VISIBLE GOLD

30-01 N NO VISIBLE GOLD

-02 N NO VISIBLE GOLD

32-01 N NO VISIBLE GOLD

-02 N NO VISIBLE GOLD

33-01 N NO VISIBLE GOLD

-02 N NO VISIBLE GOLD

GOLD CLASSIFICATION

VISIBLE GOLD FROM SHAKING TABLE AND PANNING

NUINI JUL. 86

NUMBER OF GRAINS

SAMPLE #	PANNED	Y/N	DIAMETER	THICKNESS	ABRADED		IRREGULAR		DELICATE		NON MAG	TOTAL GMS	CALC V.G. ASSAY	REMARKS
					T	P	T	P	T	P				

NCO-86														
-03	N													NO VISIBLE GOLD
-04	N													NO VISIBLE GOLD
-05	N													NO VISIBLE GOLD
34-01	N													NO VISIBLE GOLD
-02	N													NO VISIBLE GOLD
-03	N													NO VISIBLE GOLD
36-01	N													NO VISIBLE GOLD
-02	N													NO VISIBLE GOLD
-03	N													NO VISIBLE GOLD
-04	N													NO VISIBLE GOLD
38-01	N													NO VISIBLE GOLD
-02	N													NO VISIBLE GOLD
39-01	N													NO VISIBLE GOLD
-02	N													NO VISIBLE GOLD



REPORT: 016-2254

PROJECT: NONE

PAGE 1

SAMPLE NUMBER	ELEMENT UNITS	S PCT	As PPM	Au PPB
NCO-86-20-06		<0.01	<2	<5
NCO-86-22-02		0.01	<2	<5
NCO-86-23-03		0.02	2	<5
NCO-86-24-04		0.01	2	<5
NCO-86-26-01		0.02	3	<5
NCO-86-29-01		0.01	2	<5
NCO-86-30-03		<0.01	3	<5
NCO-86-31-01		<0.01	51	<5
NCO-86-31-02		0.07	85	<5
NCO-86-32-03		0.03	8	<5
NCO-86-34-04		0.04	7	<5
NCO-86-35-01		0.15	6	<5
NCO-86-36-05		0.06	<2	<5
NCO-86-38-03		0.04	<2	<5
NCO-86-39-03		0.11	2	<5
NCO-86-40-01		0.15	2	20



REPORT: 016-2254 (COMPLETE)

REFERENCE INFO:

CLIENT: NUINSCO
 PROJECT: NONE

SUBMITTED BY: NUINSCO
 DATE PRINTED: 18-JUL-86

ORDER	ELEMENT	NUMBER OF ANALYSES	LOWER DETECTION LIMIT	EXTRACTION	METHOD
1	S Sulphur	16	0.01 PCT		Gravimetric
2	As Arsenic	16	2 PPM	HNO3-HClO4	Colourimetric
3	Au Gold	16	5 PPB	AQUA REGIA	FA-AA @ 10 gm weight

SAMPLE TYPES	NUMBER	SIZE FRACTIONS	NUMBER	SAMPLE PREPARATIONS	NUMBER
BEDROCK	16	-200	16	CRUSH, PULVERIZE -200	16
				EXCESSIVE WETNESS	16
				TRNSFD FRM POLYBAGS	16

REMARKS: < MEANS LESS THAN.

REPORT COPIES TO: DR. DOUG HUME
 BOX 306

INVOICE TO: DR. DOUG HUME



REPORT: 016-2504

PROJECT: NONE

PAGE 1

SAMPLE NUMBER	ELEMENT UNITS	Au PPB	TestWt gm	SAMPLE NUMBER	ELEMENT UNITS	Au PPB	TestWt gm
NCO-86-20-01-3/4		445		NCO-86-36-03-3/4		95	8.00
NCO-86-20-02-3/4		65		NCO-86-36-04-3/4		850	7.00
NCO-86-20-03-3/4		85		NCO-86-38-01-3/4		75	6.00
NCO-86-20-04-3/4		440	4.00	NCO-86-38-02-3/4		160	2.20
NCO-86-21-01-3/4		195		NCO-86-39-01-3/4		110	4.00
NCO-86-21-02-3/4		130	9.00	NCO-86-39-02-3/4		300	2.00
NCO-86-21-03-3/4		145					
NCO-86-21-04-3/4		1860	4.00				
NCO-86-21-05-3/4		1995					
NCO-86-21-06-3/4		290	5.00				
NCO-86-22-01-H		630	2.30				
NCO-86-23-01-3/4		310	4.00				
NCO-86-23-02-H		60	2.50				
NCO-86-24-01-3/4		325					
NCO-86-24-02-3/4		375	2.00				
NCO-86-24-03-3/4		10					
NCO-86-25-01-3/4		25	2.00				
NCO-86-25-02-3/4		375					
NCO-86-25-03-3/4		<385	0.13				
NCO-86-27-01-3/4		105					
NCO-86-27-02-3/4		1095					
NCO-86-27-03-3/4		200	2.00				
NCO-86-27-04-H		<715	0.07				
NCO-86-28-01-3/4		175					
NCO-86-28-02-3/4		150	7.00				
NCO-86-28-03-3/4		70	5.00				
NCO-86-30-01-H		<50	1.07				
NCO-86-30-02-H		<25	2.30				
NCO-86-32-01-H		<50	1.14				
NCO-86-32-02-H		85	1.79				
NCO-86-33-01-3/4		20	5.00				
NCO-86-33-02-3/4		210	5.00				
NCO-86-33-03-3/4		25	4.00				
NCO-86-33-04-3/4		110					
NCO-86-33-05-3/4		335					
NCO-86-34-01-H		395	0.88				
NCO-86-34-02-3/4		645					
NCO-86-34-03-3/4		260	4.00				
NCO-86-36-01-3/4		85	6.00				
NCO-86-36-02-3/4		80	7.00				



REPORT: 016-2504 (COMPLETE)

REFERENCE INFO:

CLIENT: NUINSCO
 PROJECT: NONE

SUBMITTED BY: OVERBURDEN DRILLING
 DATE PRINTED: 21-JUL-86

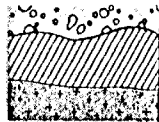
ORDER	ELEMENT	NUMBER OF ANALYSES	LOWER DETECTION LIMIT	EXTRACTION	METHOD
1	Au Gold	46	5 PPB	AQUA REGIA	FA-AA @ 10 gm weight
2	TestWt Au Test Weight	31	0.01 gm		

SAMPLE TYPES	NUMBER	SIZE FRACTIONS	NUMBER	SAMPLE PREPARATIONS	NUMBER
HEAVY MINERAL CONC.	46	-200	46	PULVERIZE -200	46

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5420 Canotek Rd.,
Ottawa, Ontario,
Canada K1H 1P9
Phone: (613) 749-2220
Telex: 053-3233



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Geochemical
Lab Report

REPORT: 016-2254

PROJECT: NONE

PAGE 1

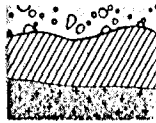
SAMPLE NUMBER	ELEMENT UNITS	As PPM	Au PPB
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NCO-86-20-06		<2	<5
NCO-86-22-02		<2	<5
NCO-86-23-03		2	<5
NCO-86-24-04		2	<5
NCO-86-26-01		3	<5

NCO-86-29-01		2	<5
NCO-86-30-03		3	<5
NCO-86-31-01		51	<5
NCO-86-31-02		85	<5
NCO-86-32-03		8	<5

NCO-86-34-04		7	<5
NCO-86-35-01		6	<5
NCO-86-36-05		<2	<5
NCO-86-38-03		<2	<5
NCO-86-39-03		2	<5

NCO-86-40-01		2	20
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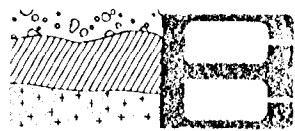


REPORT: 016-1322

PROJECT: NONE

PAGE 1

SAMPLE NUMBER	ELEMENT UNITS	S PCT	As PPM	Au PPB
NCO-86-01-07		<0.01	4	<5
NCO-86-02-09		<0.01	7	<5
NCO-86-03-17		<0.01	4	10
NCO-86-04-06		0.02	3	<5
NCO-86-05-03		<0.01	4	<5
NCO-86-06-02		0.10	3	<5
NCO-86-07-02		<0.01	6	<5
NCO-86-08-02		<0.01	2	<5
NCO-86-09-04		<0.01	3	<5
NCO-86-10-02		<0.01	3	<5
NCO-86-11-02		<0.01	4	<5
NCO-86-12-03		0.01	2	<5
NCO-86-13-02		0.01	7	<5
NCO-86-14-02		<0.01	3	<5
NCO-86-15-02		<0.01	12	<5
NCO-86-16-02		<0.01	7	<5
NCO-86-17-02		0.01	9	<5
NCO-86-19-03		0.06	13	5
SLO-86-41-04		0.17	4	<5
SLO-86-42-04		<0.01	2	<5
SLO-86-43-02		0.03	2	<5
SLO-86-44-02		<0.01	<2	20
SLO-86-45-02		1.31	10	15
SLO-86-46-02		0.02	5	<5
SLO-86-47-02		0.16	4	<5
SLO-86-48-02		<0.01	2	<5
SLO-86-49-03		0.33	3	<5
SLO-86-50-05		0.36	2	<5
SLO-86-51-03		<0.01	4	10
SLO-86-52-04		<0.01	2	<5
SLO-86-53-04		0.09	3	<5
SLO-86-54-02		<0.01	3	<5
SLO-86-55-03		0.23	4	<5
SLO-86-56-03		<0.01	2	<5
SLO-86-57-02		0.36	9	<5



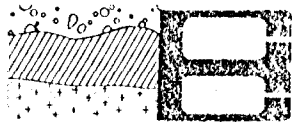
REPORT: 015-3624

PROJECT: NONE

PAGE 1

SAMPLE NUMBER	ELEMENT UNITS	Au PPM	SAMPLE NUMBER	ELEMENT UNITS	Au PPM
NCO-1(11)		5	NCO-41(2)		<5
NCO-2(7)		<5	NCO-42(5)		<5
NCO-3(5)		<5	NCO-43(4)		<5
NCO-4(3)		<5	24034		245
NCO-5(7)		<5			
NCO-6(3)		<5			
NCO-7(4)		15			
NCO-8(4)		<5			
NCO-9(4)		<5			
NCO-10(4)		<5			
NCO-11(3)		5			
NCO-12(5)		<5			
NCO-13(4)		<5			
NCO-14(7)		10			
NCO-15(4)		<5			
NCO-16(5)		<5			
NCO-17(3)		<5			
NCO-18(2)		<5			
NCO-19(3)		<5			
NCO-20(3)		30			
NCO-21(2)		<5			
NCO-22(2)		5			
NCO-23(2)		<5			
NCO-24(2)		1180			
NCO-25(3)		5			
NCO-26(2)		10			
NCO-27(9)		<5			
NCO-28(1)		<5			
NCO-29(2)		<5			
NCO-30(2)		<5			
NCO-31(5)		<5			
NCO-32(1)		<5			
NCO-33(2)		<5			
NCO-34(2)		<5			
NCO-35(1)		<5			
NCO-36(1)		<5			
NCO-37(4)		<5			
NCO-38(2)		<5			
NCO-39(5)		<5			
NCO-40(7)		<5			

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 5420 Canotek Rd.,
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**Geochemical
 Lab Report**

REPORT: 015-3624 (COMPLETE)

REFERENCE INFO:

CLIENT: NUINSCO
 PROJECT: NONE

SUBMITTED BY: NUINSCO
 DATE PRINTED: 8-NOV-85

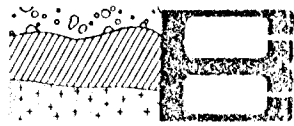
ORDER	ELEMENT	NUMBER OF ANALYSES	LOWER DETECTION LIMIT	EXTRACTION	METHOD
1	Au Gold	44	5 PPB	AQUA REGIA	FR-AA @ 10 gm weight

SAMPLE TYPES	NUMBER	SIZE FRACTIONS	NUMBER	SAMPLE PREPARATIONS	NUMBER
ASSORTED	44	-200	44	CRUSH, PULVERIZE -200	44
				EXCESSIVE WETNESS	43
				TRNSFD FRM POLYBAGS	43

REMARKS: < MEANS LESS THAN

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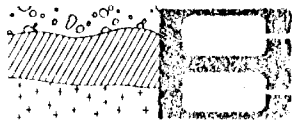
REPORT: 015-4209

PROJECT: NONE

PAGE 1

SAMPLE NUMBER	ELEMENT UNITS	Au PPB	TestWt gm	SAMPLE NUMBER	ELEMENT UNITS	Au PPB	TestWt gm
NCO-85-1-09		110	5.38	NCO-85-24-01		130	3.04
NCO-85-1-10		<10	7.40	NCO-85-25-01		2725	0.44
NCO-85-2-05		440	4.97	NCO-85-25-02		80	6.05
NCO-85-2-06		<50	0.05	NCO-85-26-01		135	4.25
NCO-85-3-03		375	3.48	NCO-85-27-07		20	
NCO-85-3-04		13000	0.40	NCO-85-27-08		210	3.82
NCO-85-4-01		85	9.26	NCO-85-29-01		<50	1.73
NCO-85-4-02		110	4.22	NCO-85-30-01		<15	4.62
NCO-85-5-05		585	4.09	NCO-85-31-03		30	3.45
NCO-85-5-06		180	4.95	NCO-85-31-04		45	3.48
NCO-85-6-01		90	5.55	NCO-85-33-01		35	4.84
NCO-85-6-02		15	3.69	NCO-85-34-01		65	2.72
NCO-85-7-02		45	6.74	NCO-85-37-02		30	5.30
NCO-85-7-03		560	4.82	NCO-85-37-03		<50	0.92
NCO-85-8-02		60	9.79	NCO-85-38-01		220	4.01
NCO-85-8-03		90	6.82	NCO-85-39-03		480	
NCO-85-9-02		85		NCO-85-39-04		75	5.29
NCO-85-9-03		1020	5.19	NCO-85-40-05		180	7.22
NCO-85-10-02		65	7.52	NCO-85-40-06		250	2.30
NCO-85-10-03		150	3.63	NCO-85-41-01		80	9.93
NCO-85-11-02		35	8.27	NCO-85-42-03		400	7.77
NCO-85-12-03		620	3.88	NCO-85-42-04		295	9.88
NCO-85-12-04		375	7.64	NCO-85-43-03		1550	
NCO-85-13-02		130	4.93	NCO-85-43-04		950	
NCO-85-13-03		200	2.51				
NCO-85-14-05		410	2.81				
NCO-85-14-06		4075	1.57				
NCO-85-15-03		105	6.31				
NCO-85-16-03		455	7.06				
NCO-85-16-04		750	9.72				
NCO-85-17-01		<10	7.21				
NCO-85-17-02		945	2.46				
NCO-85-18-01		200	3.16				
NCO-85-19-01		1090	4.03				
NCO-85-19-02		520	7.48				
NCO-85-20-01		60	3.18				
NCO-85-20-02		<50	0.01				
NCO-85-21-01		20	4.28				
NCO-85-22-01		10605	0.17				
NCO-85-23-01		1860	1.02				

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Geochemical
 Lab Report

REPORT: 015-4209 (COMPLETE)

REFERENCE INFO:

CLIENT: NUINSCO
 PROJECT: NONE

SUBMITTED BY: OVERRURDEN
 DATE PRINTED: 18-DEC-85

ORDER	ELEMENT	NUMBER OF ANALYSES	LOWER DETECTION LIMIT	EXTRACTION	METHOD
1	Au Gold	64	5 PPB	AQUA REGIA	FA-AA @ 10 gm weight
2	TestWt Au Test Weight	39	0.01 gm		

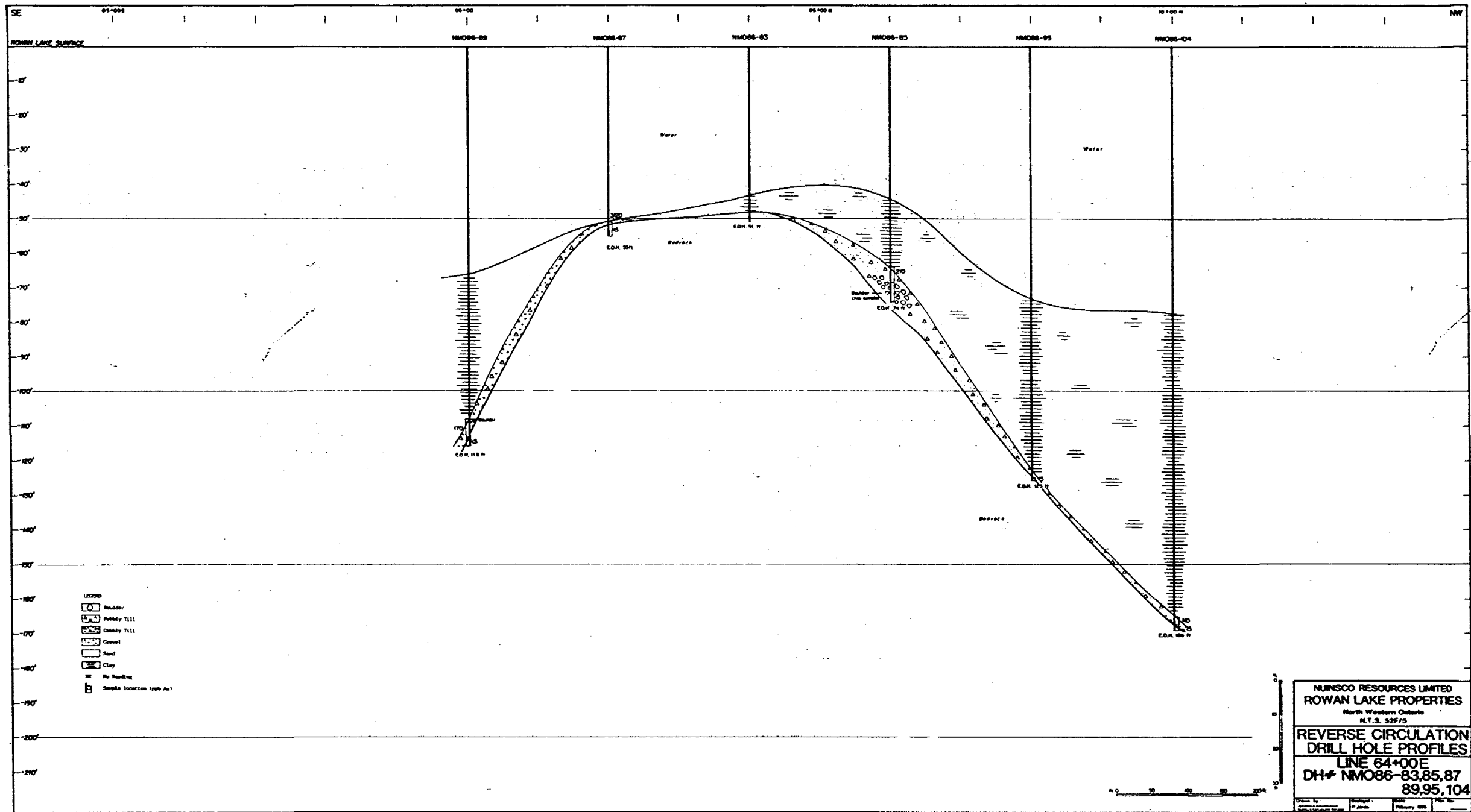
SAMPLE TYPES	NUMBER	SIZE FRACTIONS	NUMBER	SAMPLE PREPARATIONS	NUMBER
HEAVY MINERAL CONC.	64	-200	64	PULVERIZE -200	64

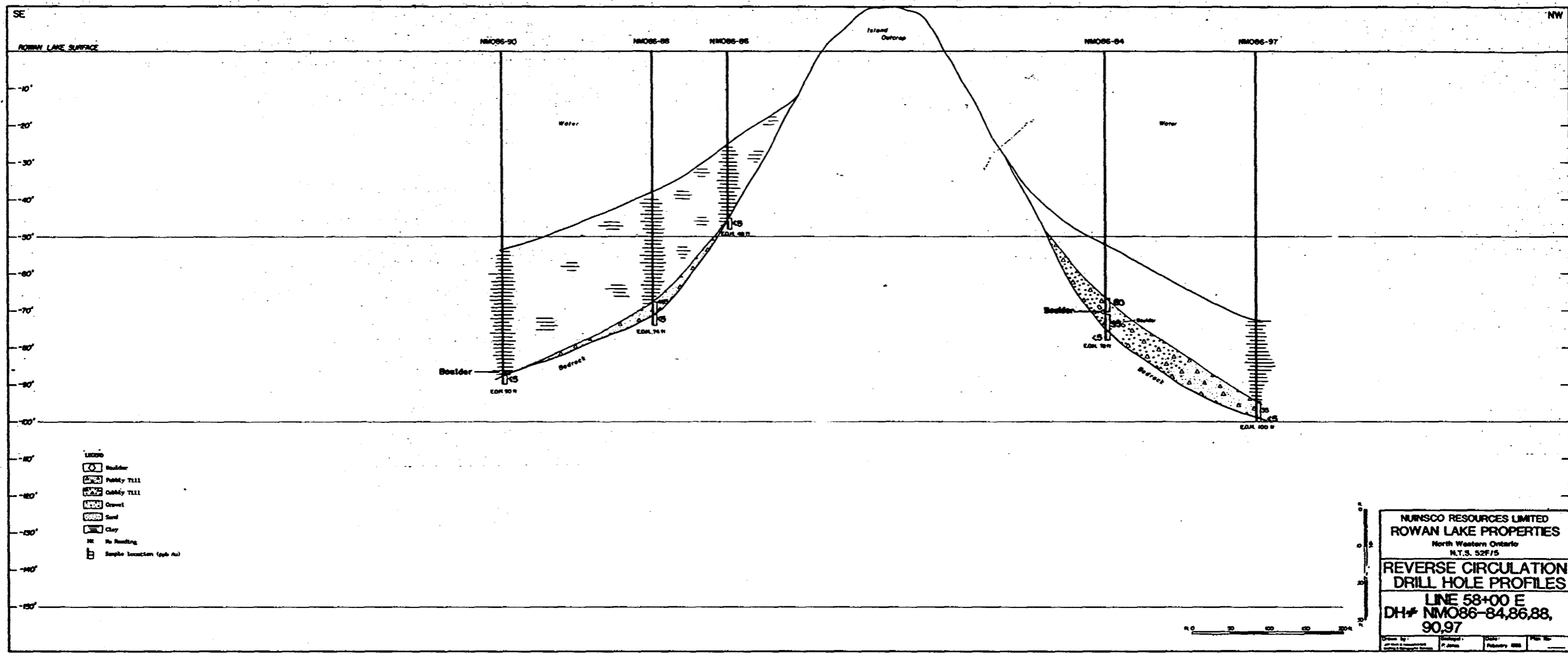
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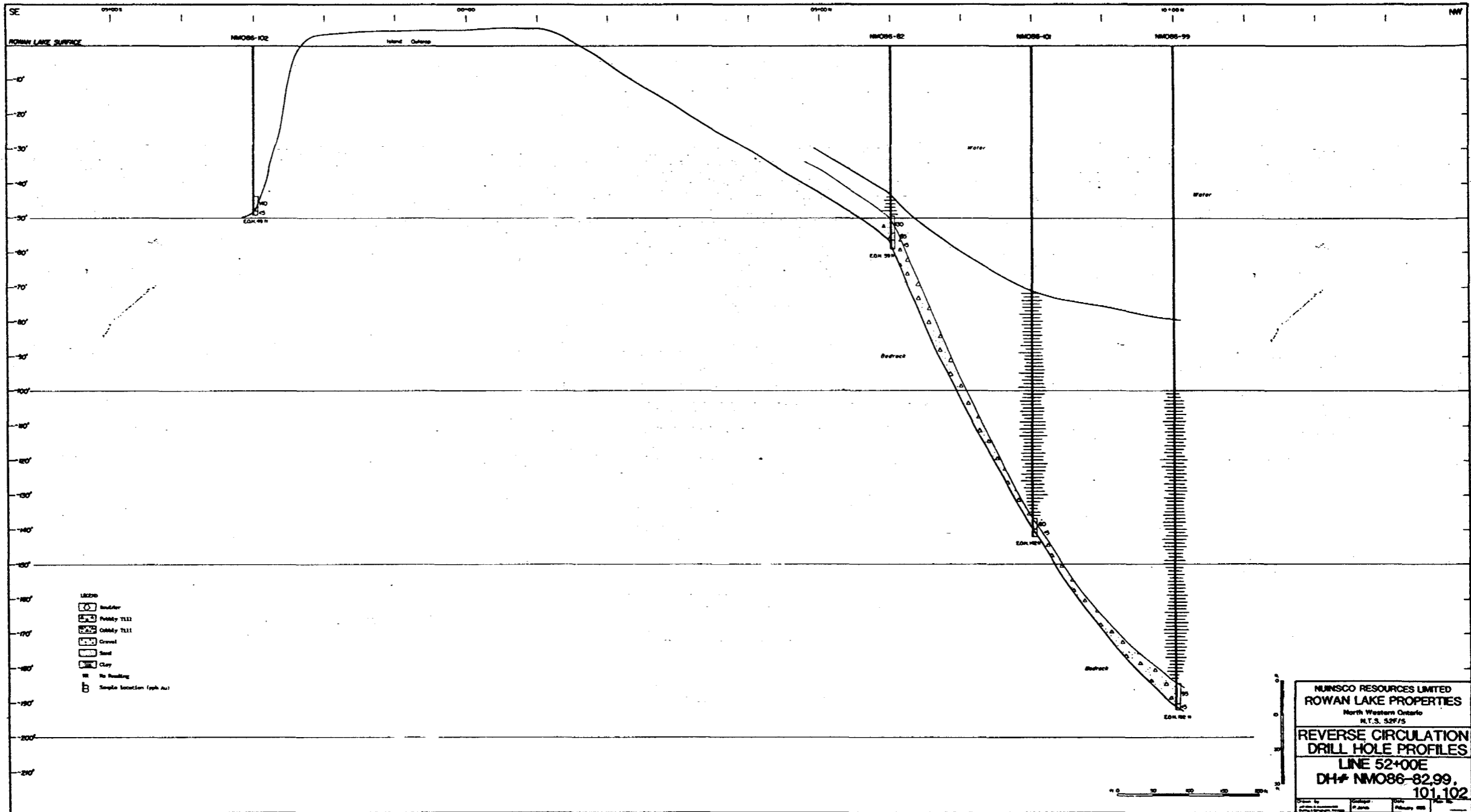
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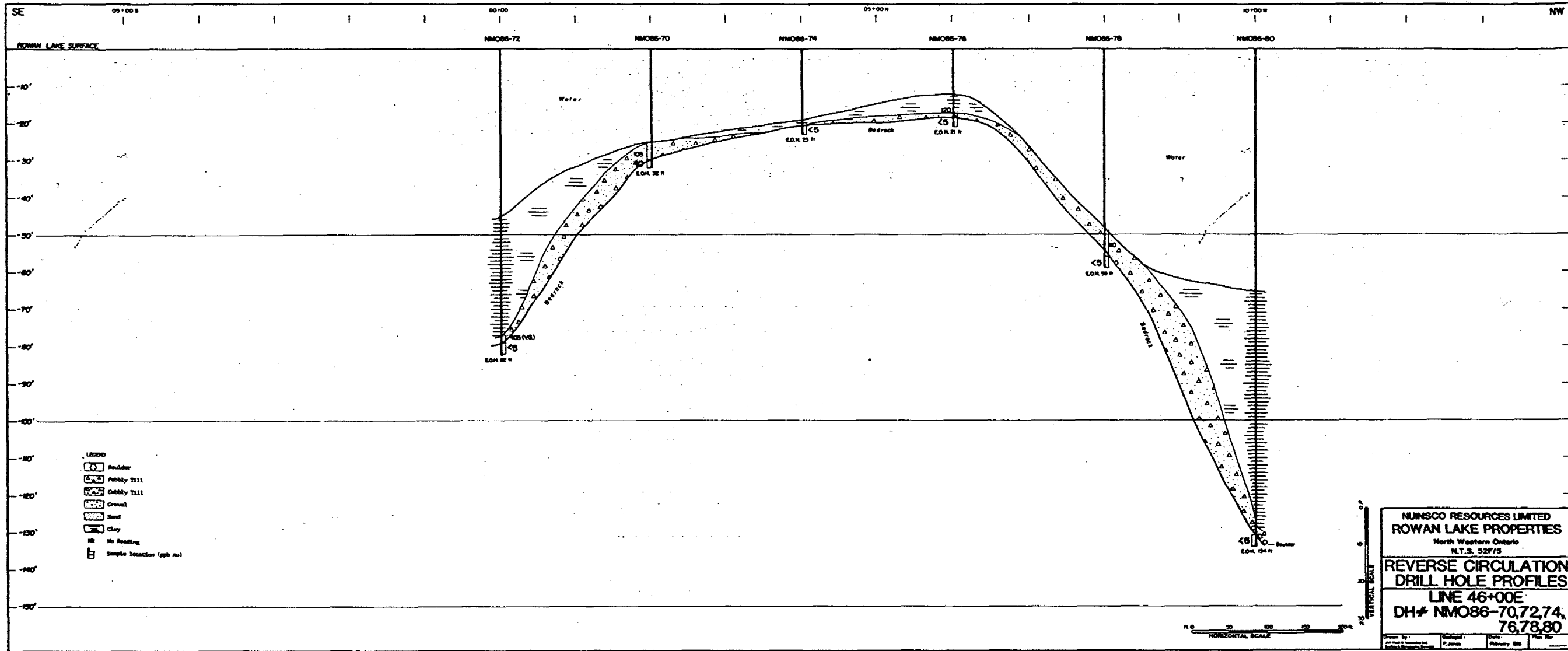
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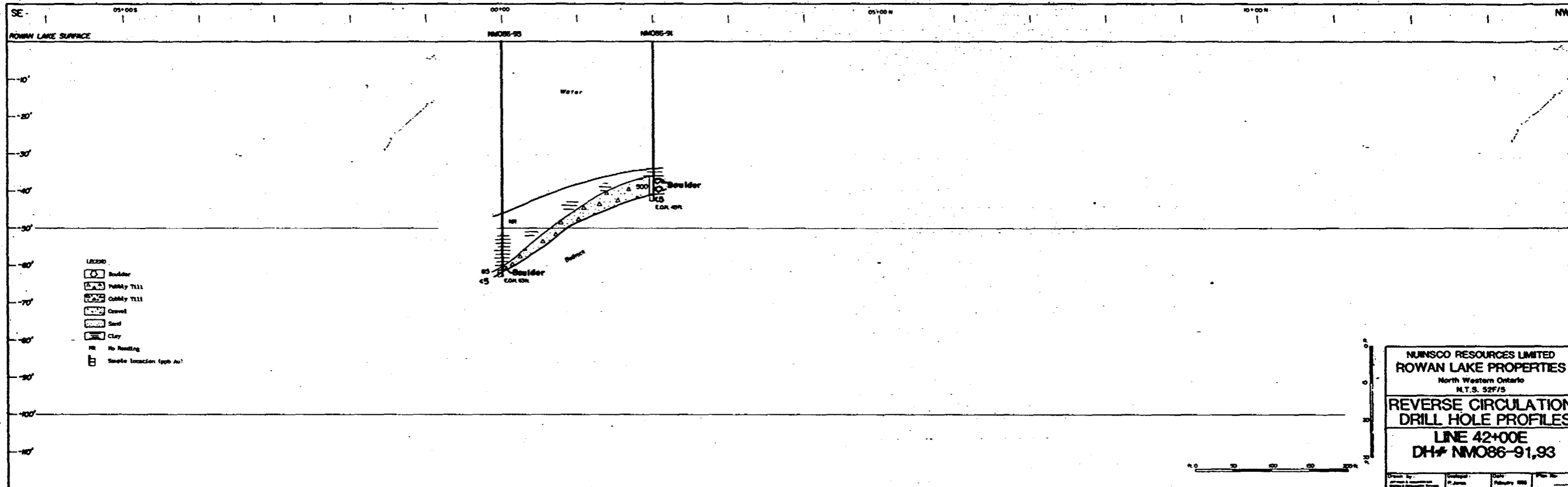
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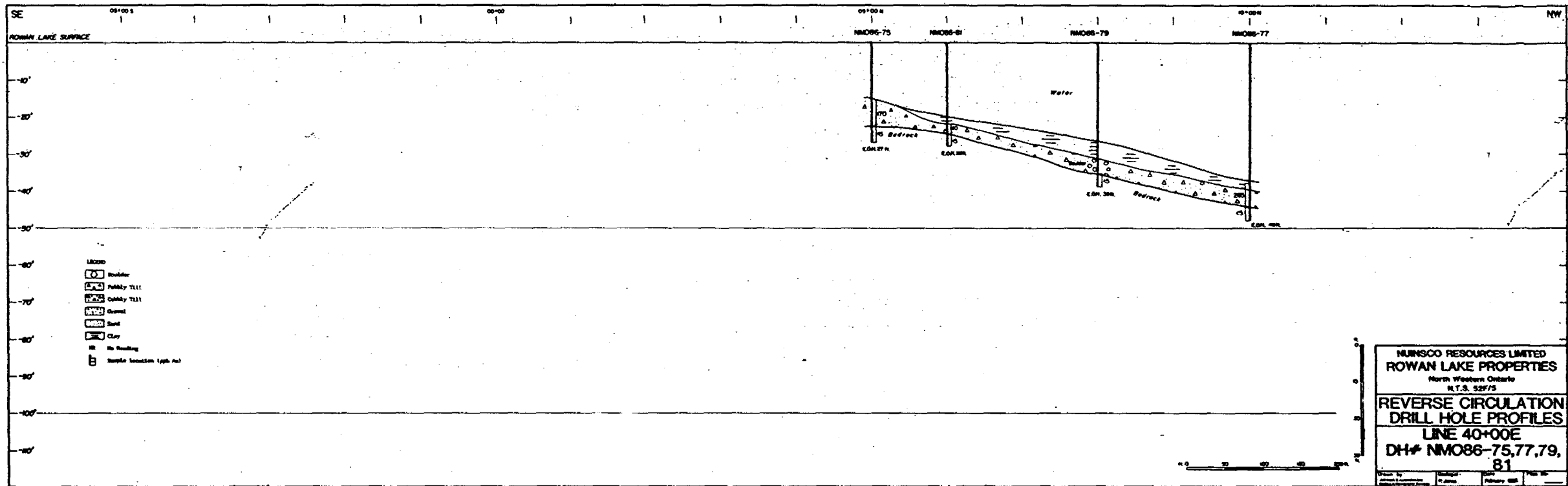


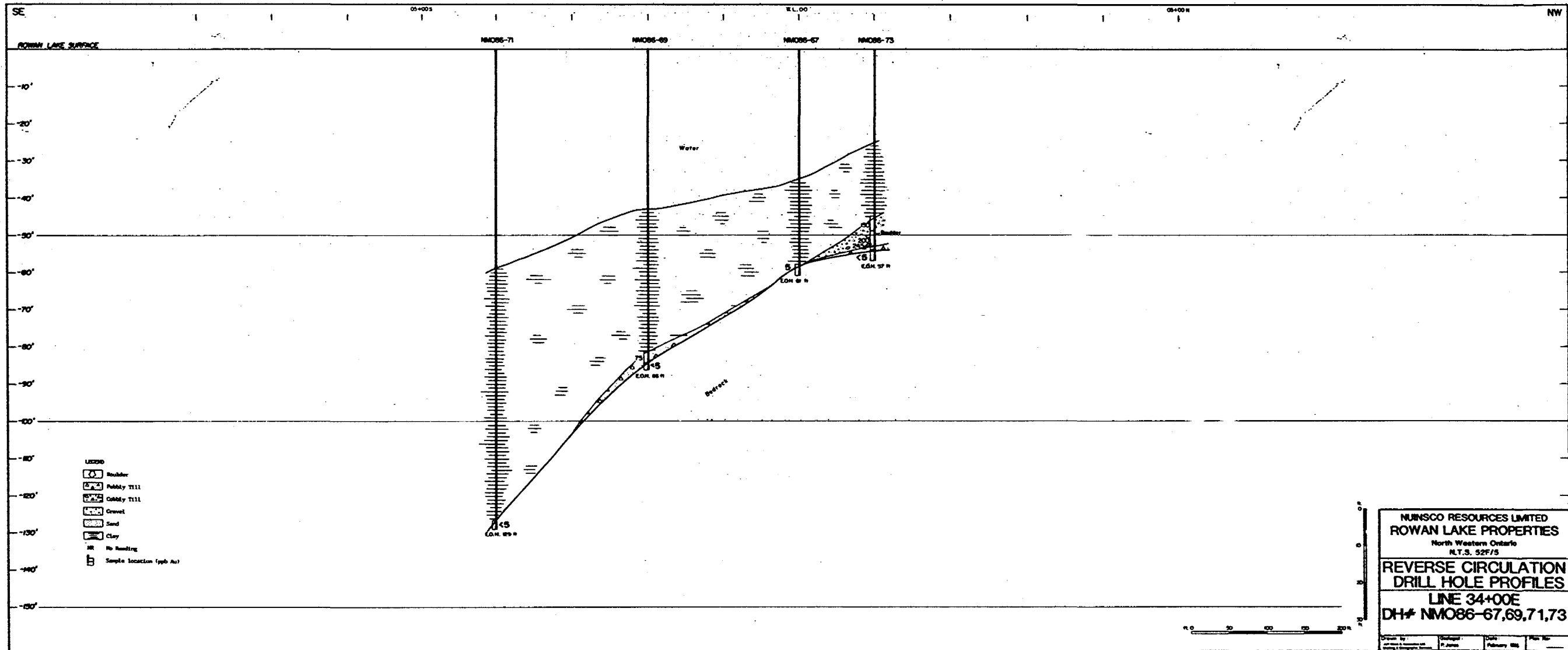


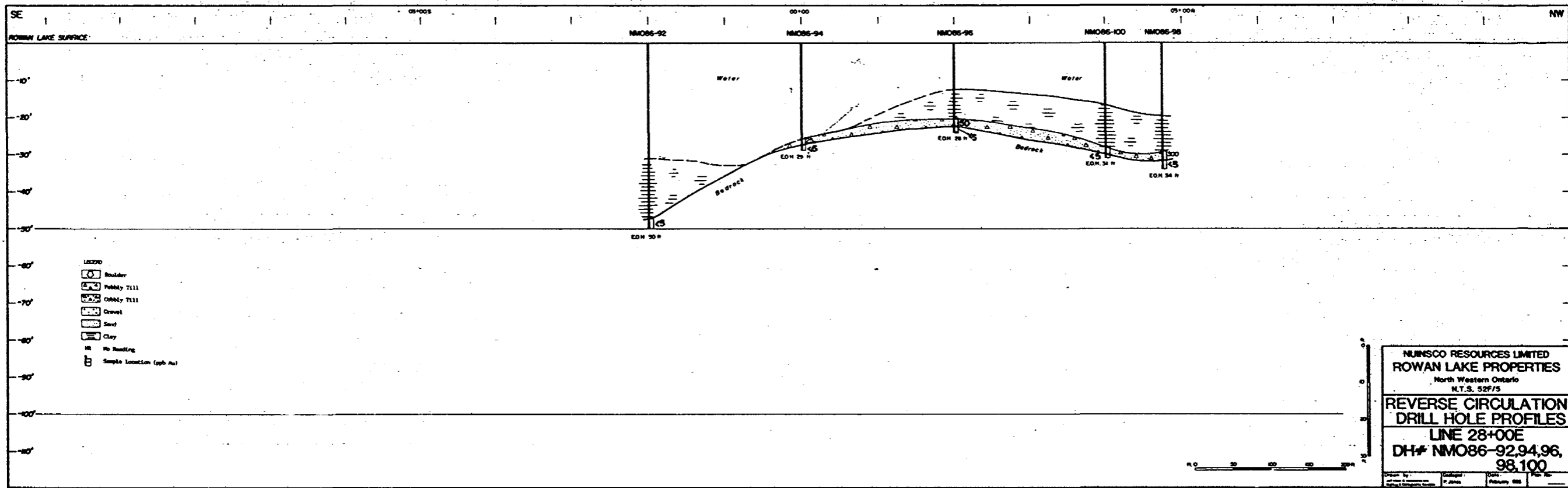




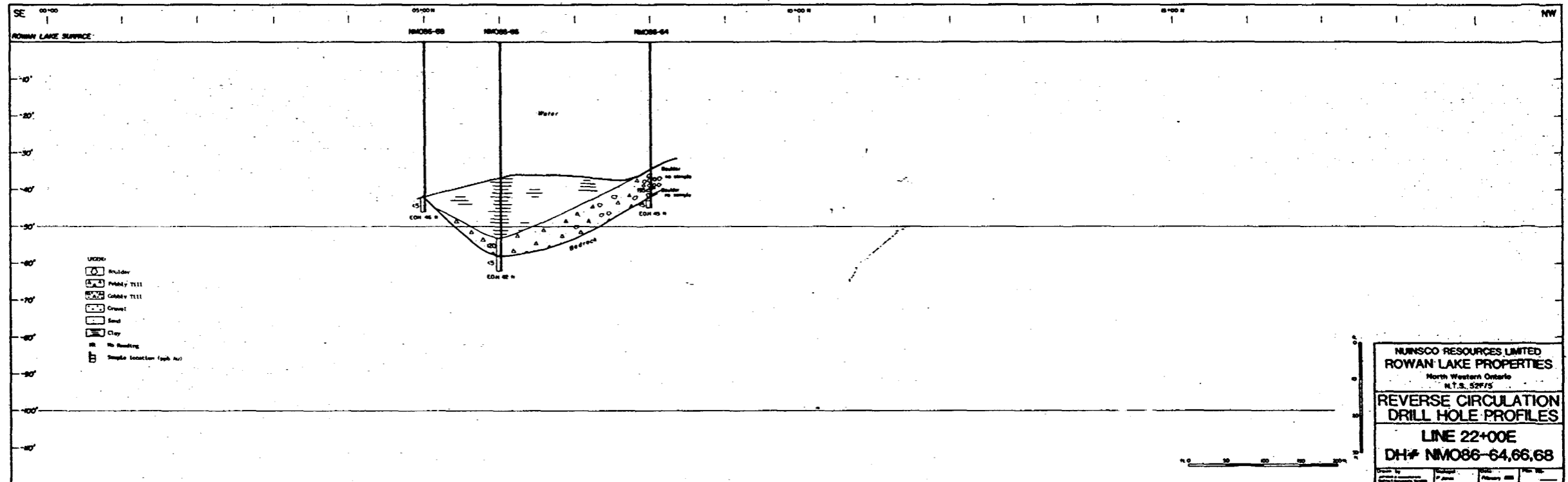


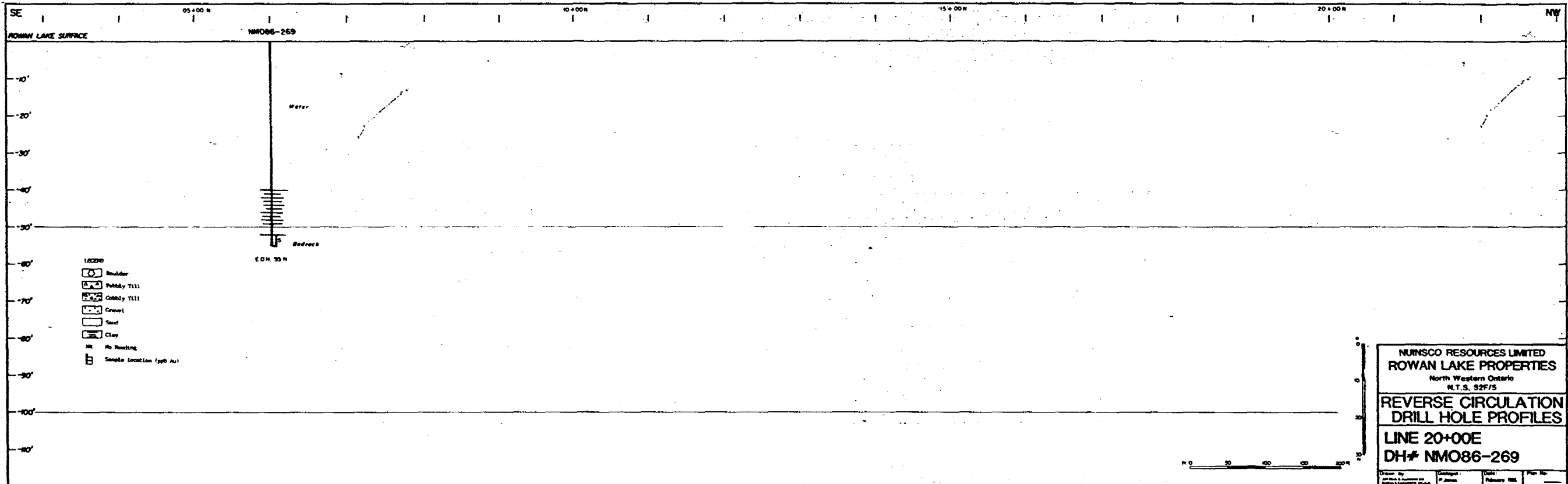


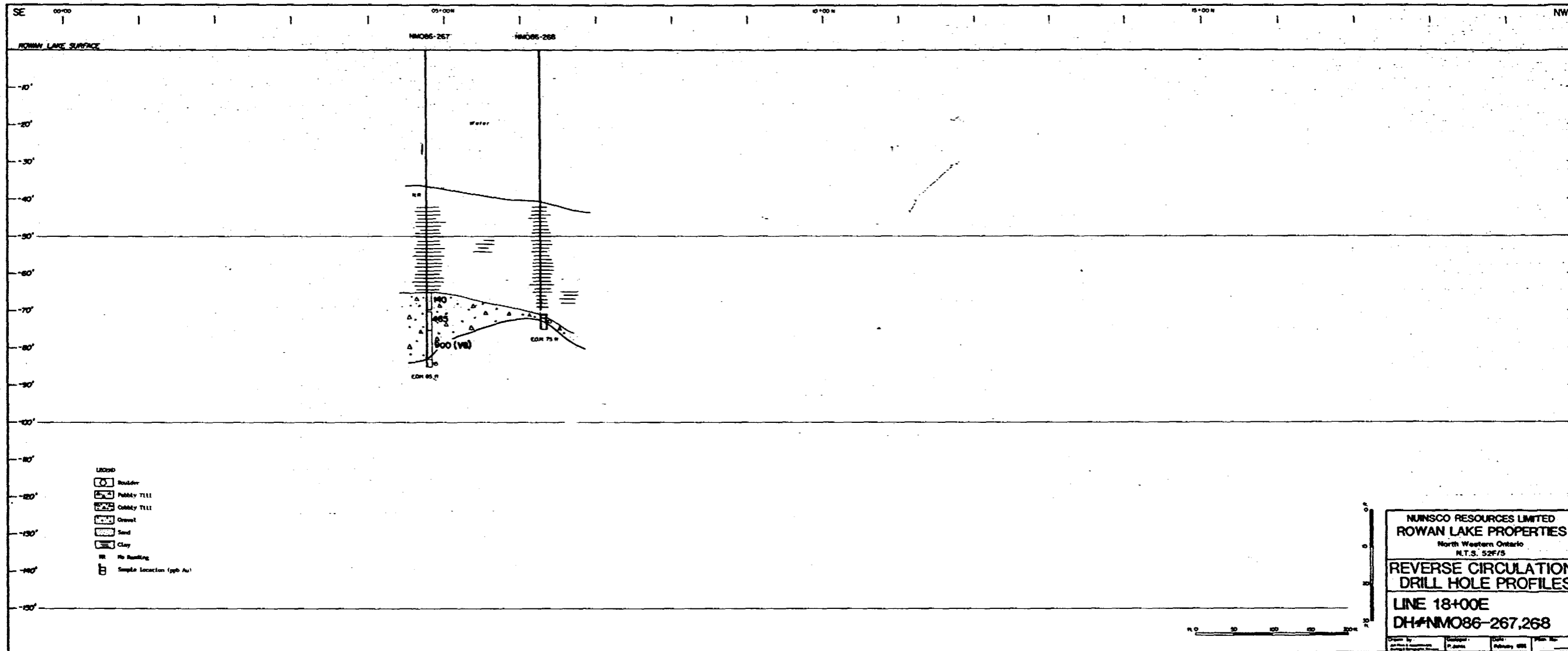


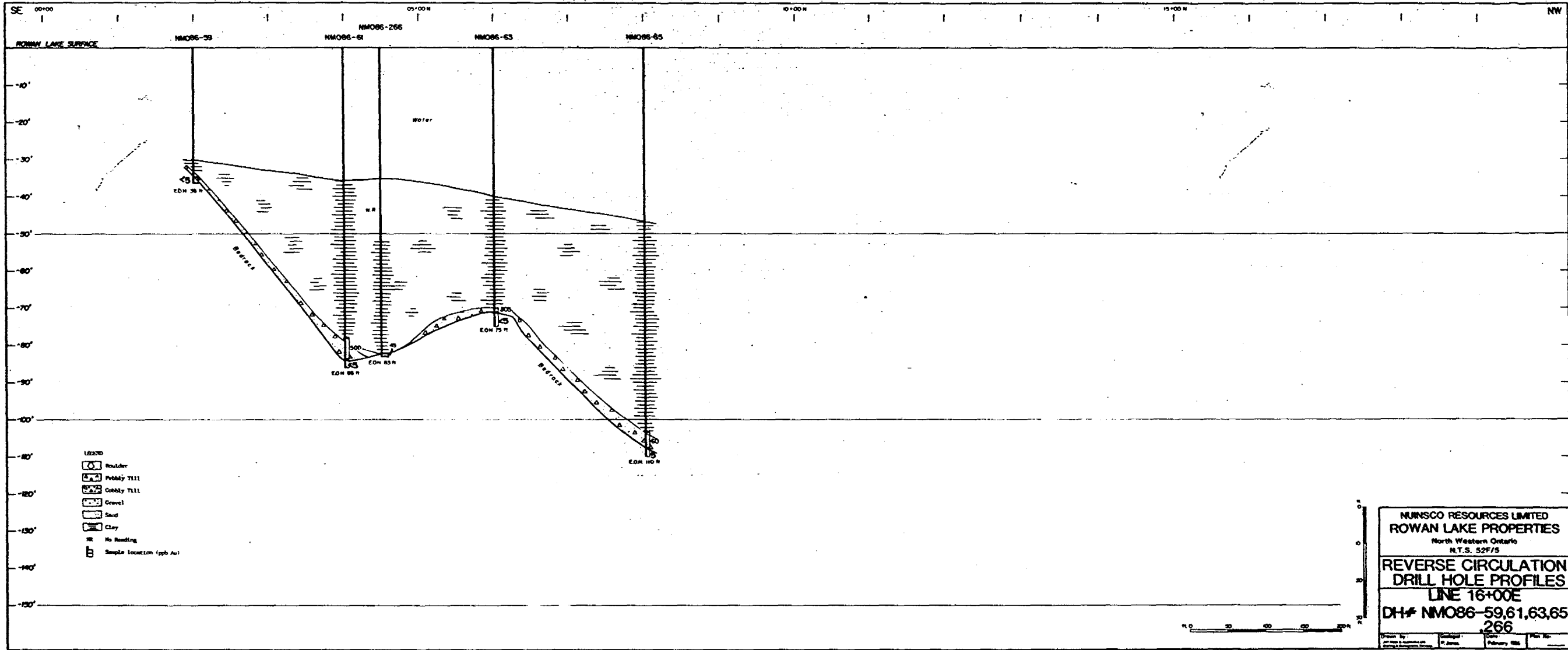


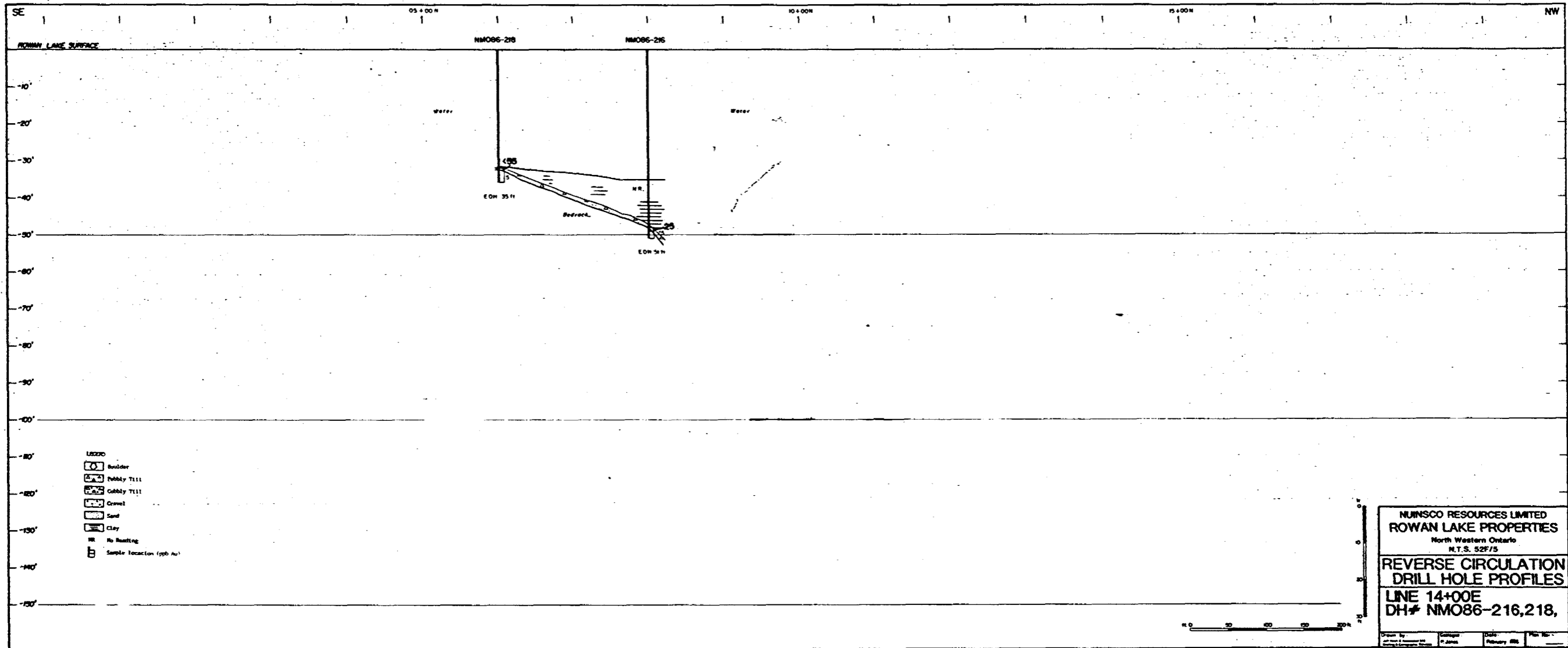
NUNSCO RESOURCES LIMITED
 ROWAN LAKE PROPERTIES
 North Western Ontario
 N.T.S. 52F/5
**REVERSE CIRCULATION
 DRILL HOLE PROFILES**
 LINE 28+00E
 DH# NMO86-92,94,96,
 98,100
 Drawn by: P. Jones Checked: P. Jones Date: February 1998

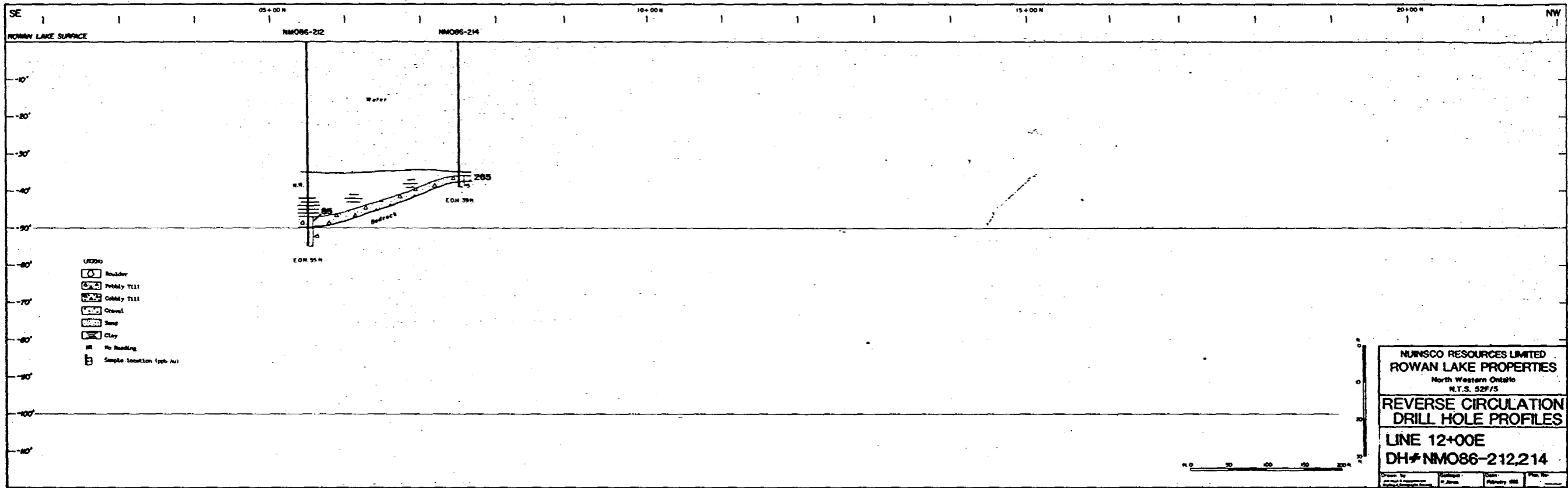


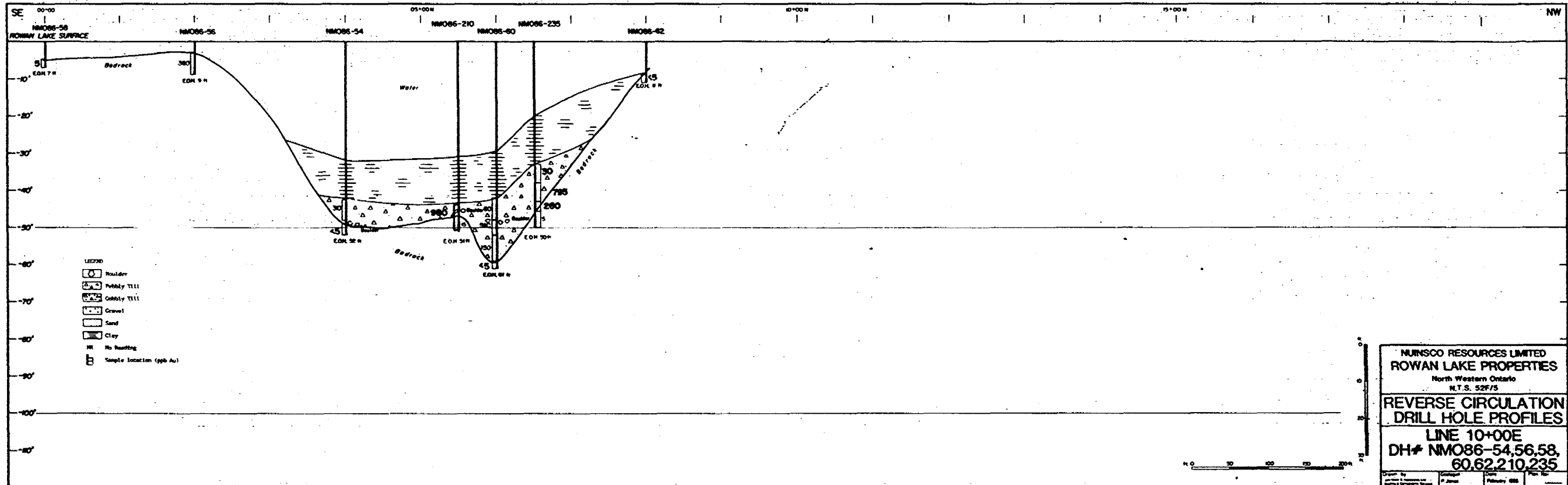


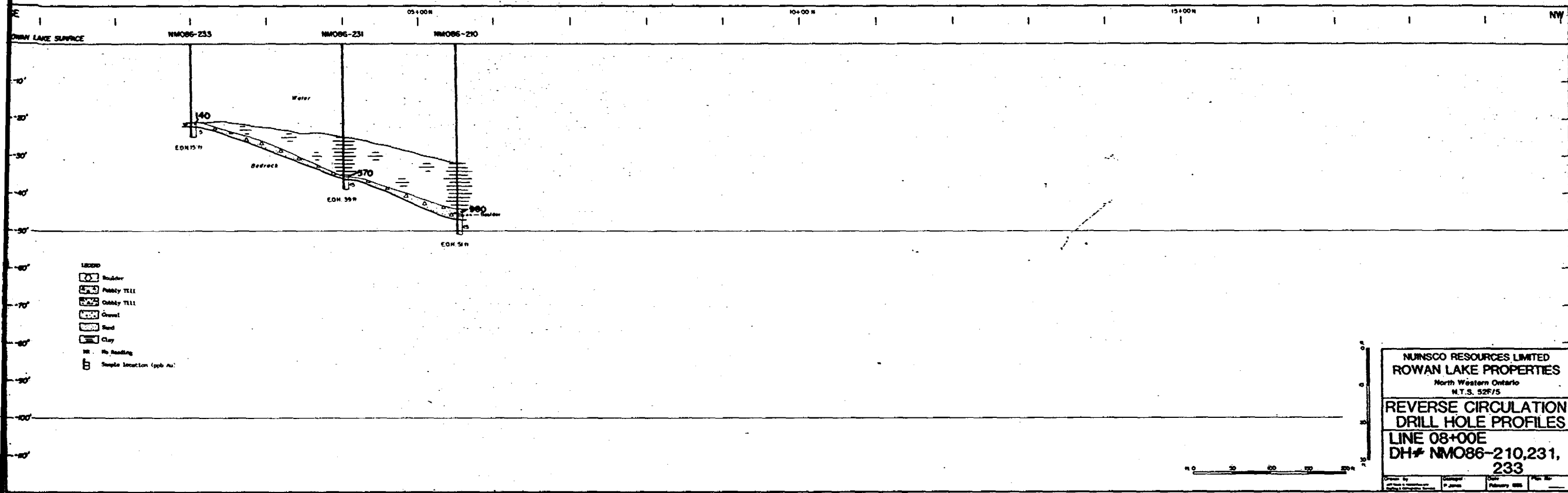


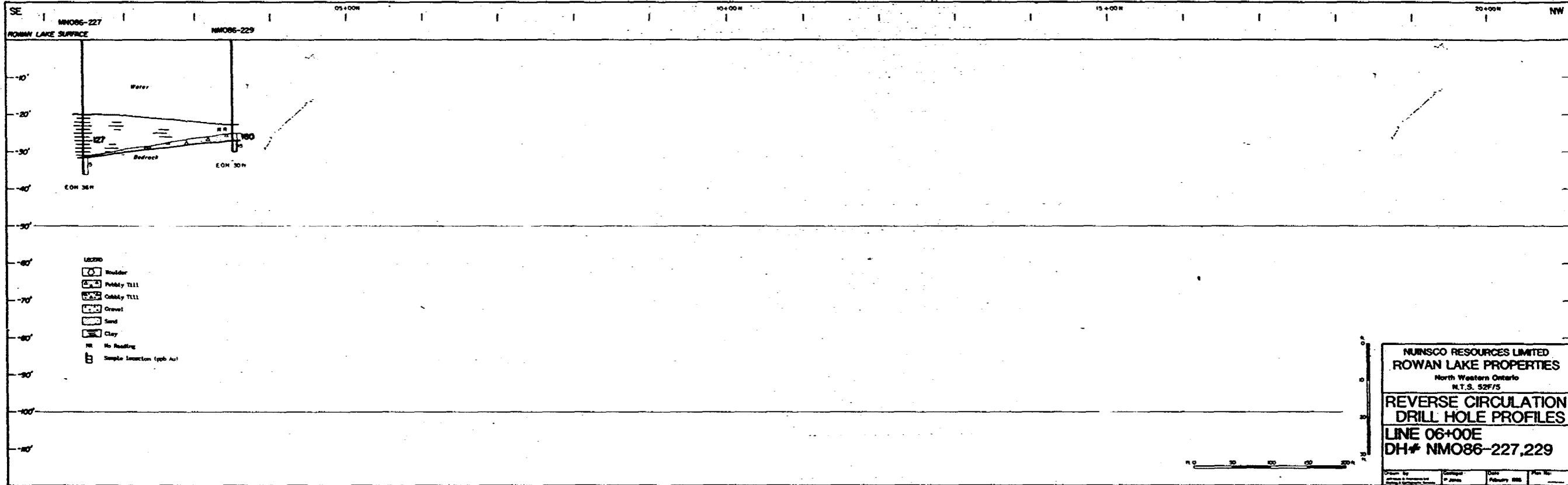


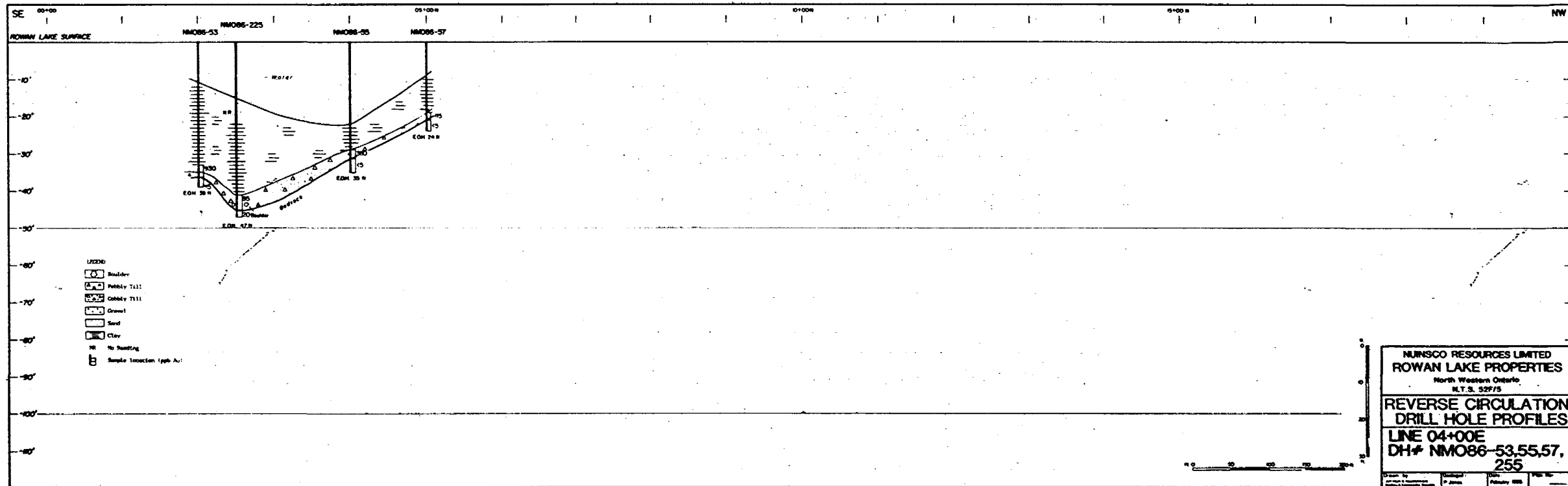


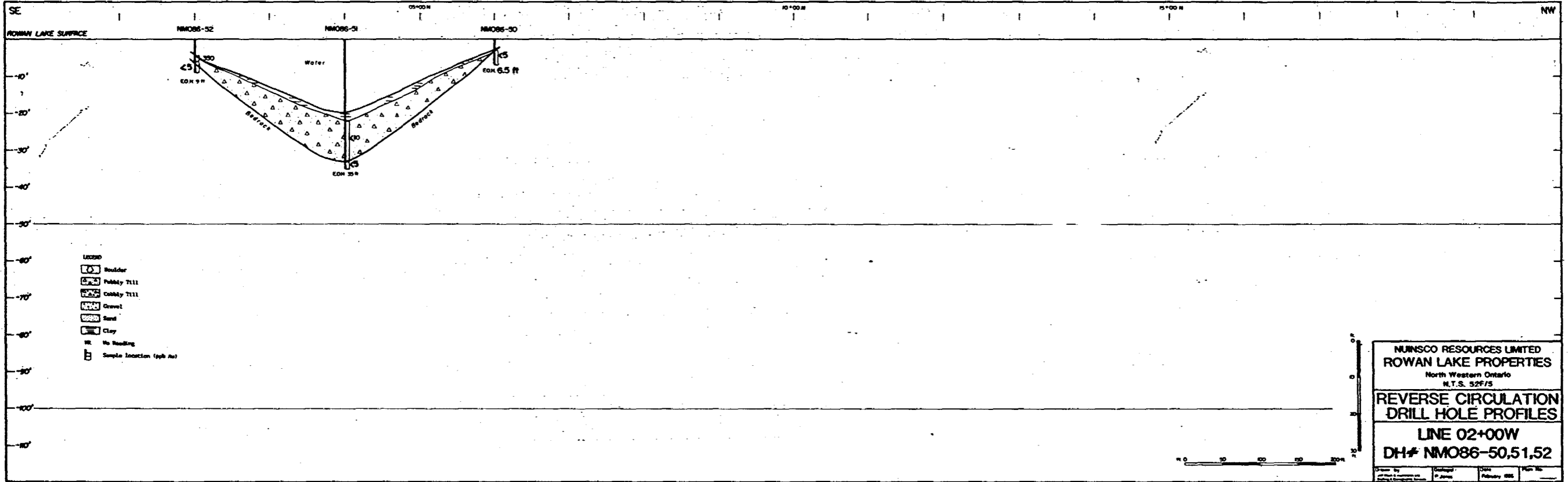




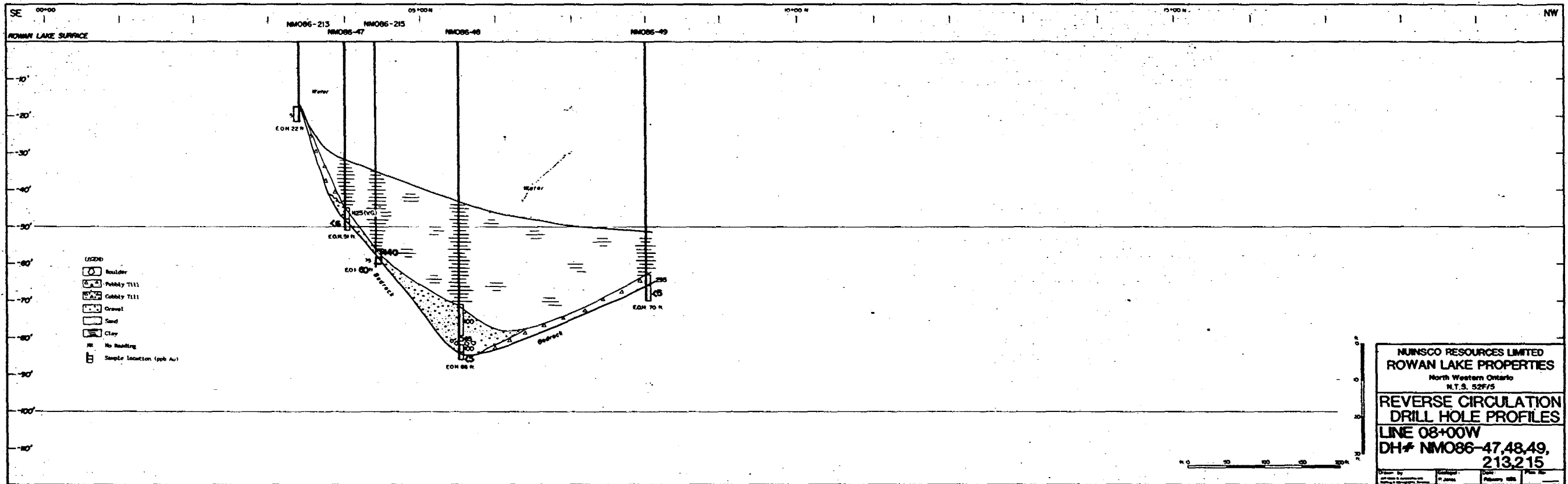


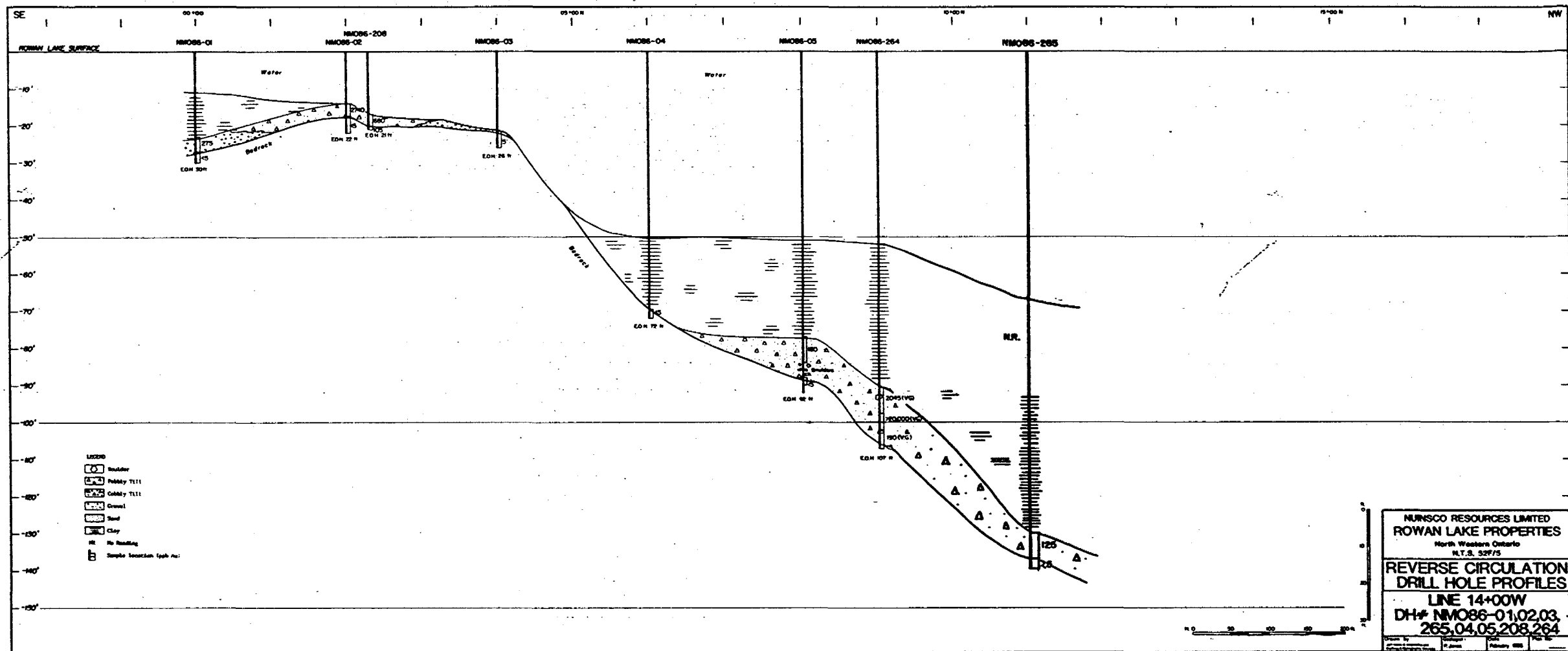


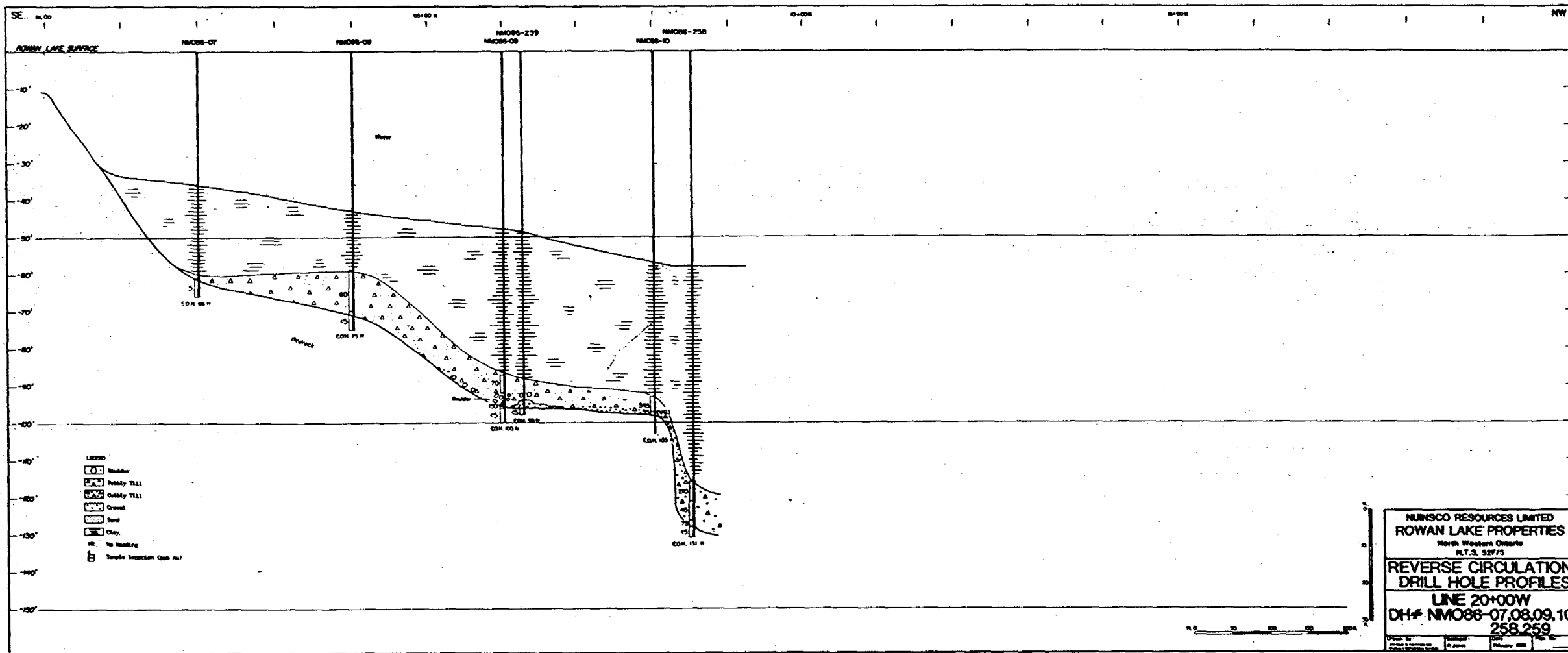


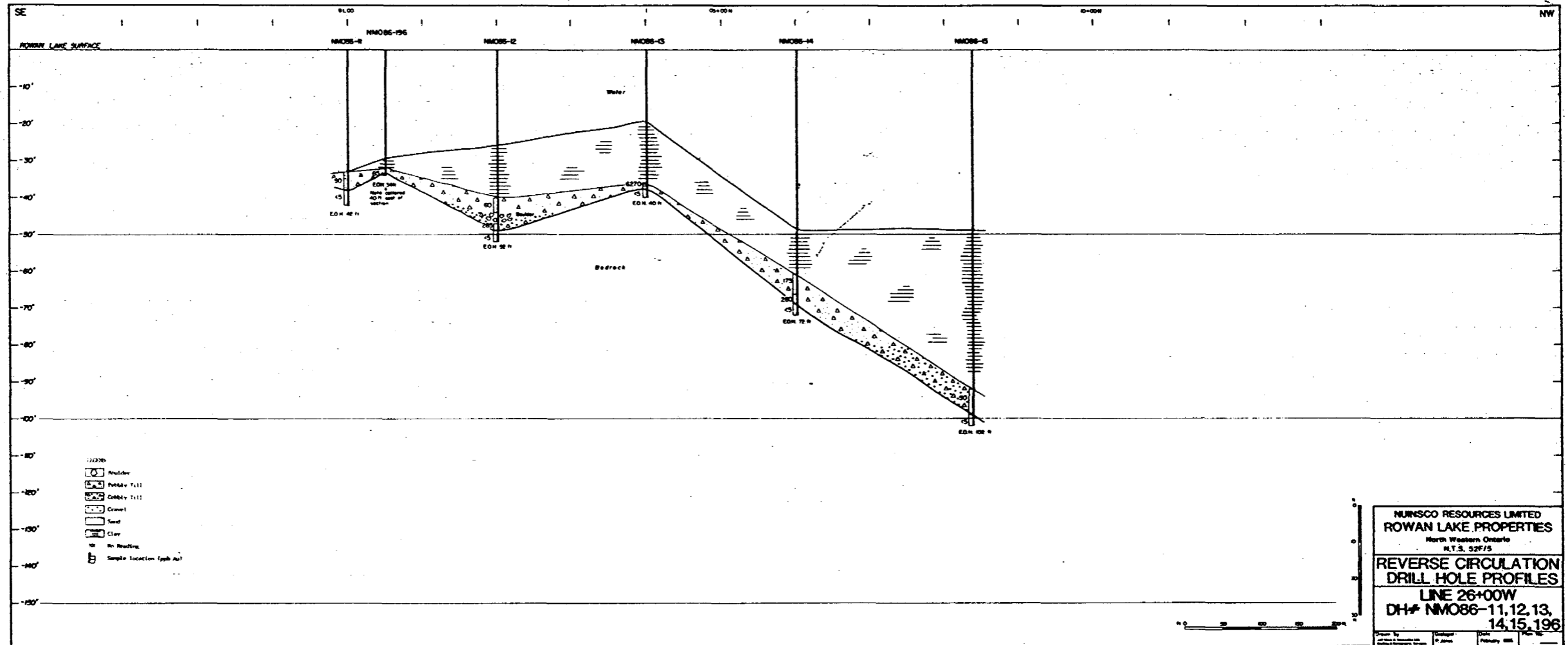


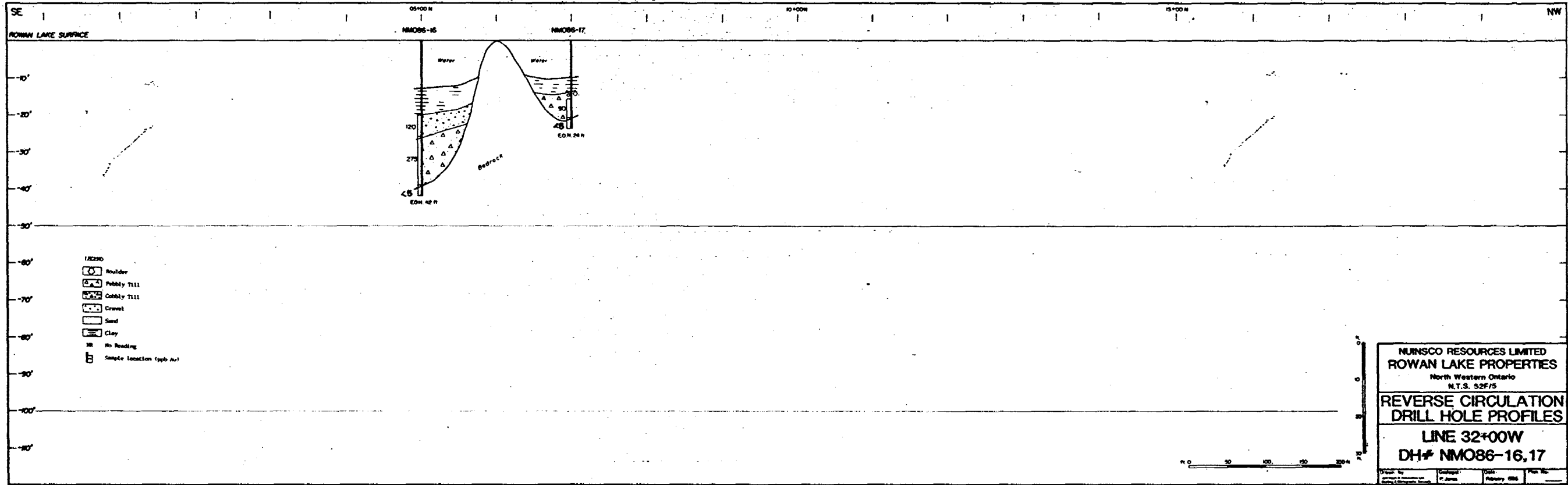
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 North Western Ontario
 N.T.S. 52F/5
**REVERSE CIRCULATION
 DRILL HOLE PROFILES**
 LINE 02+00W
 DH# NMO86-50,51,52

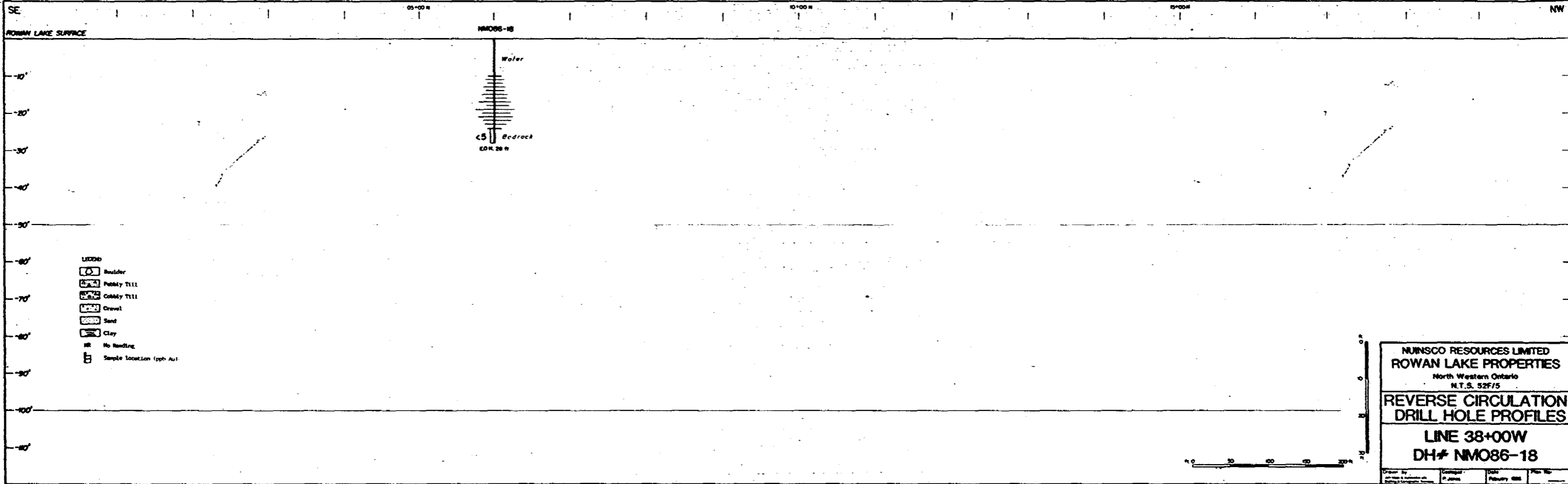


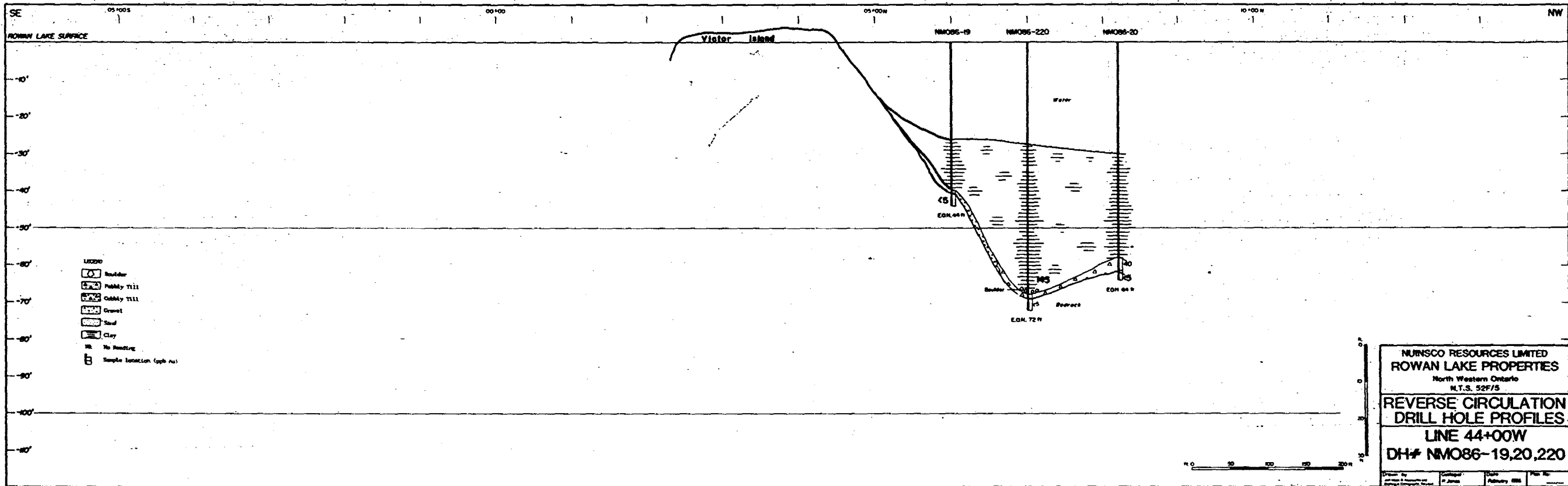


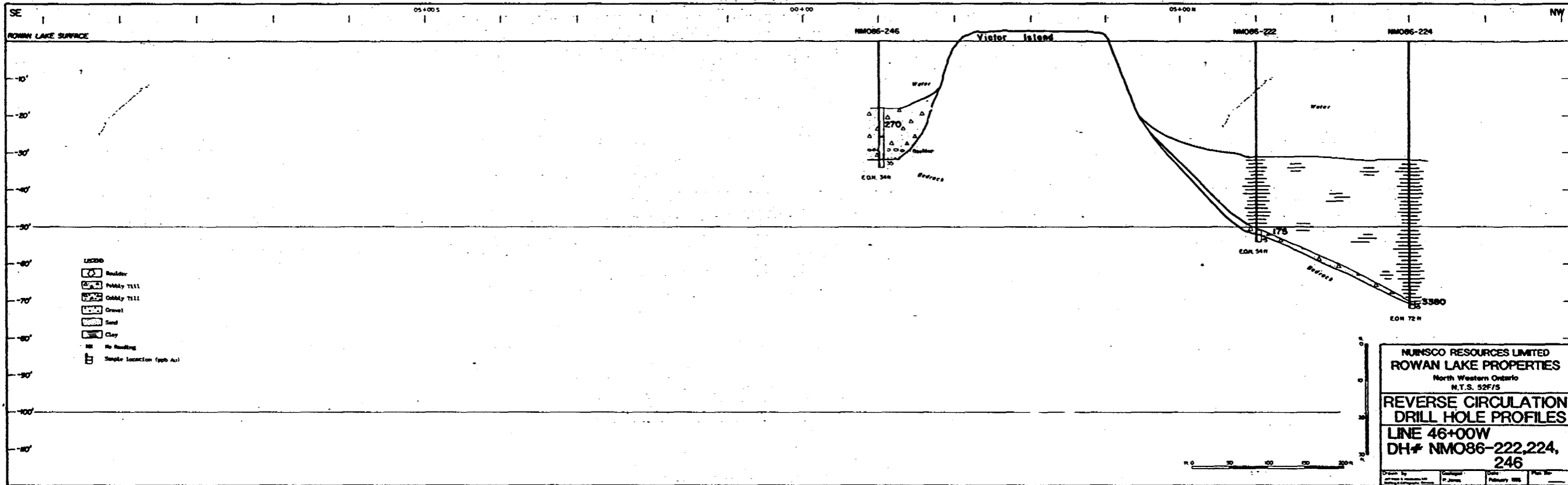


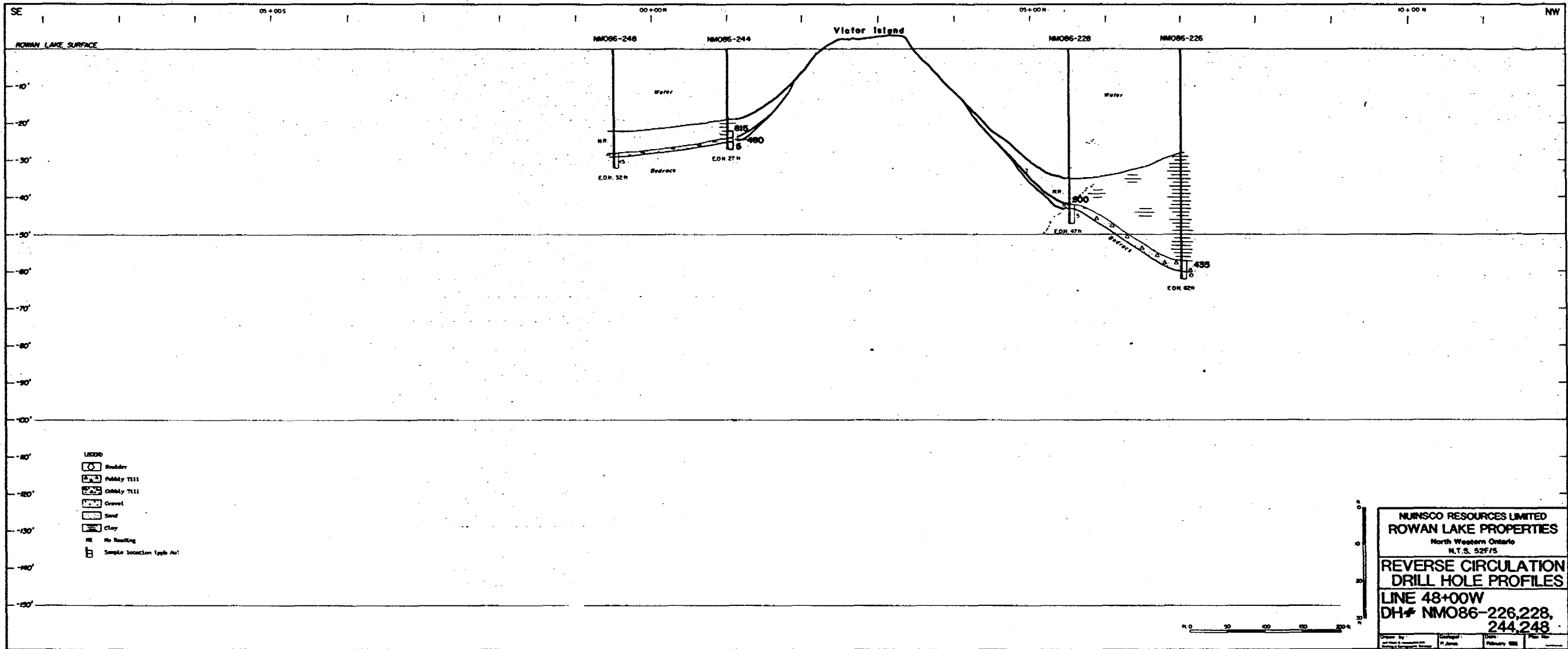


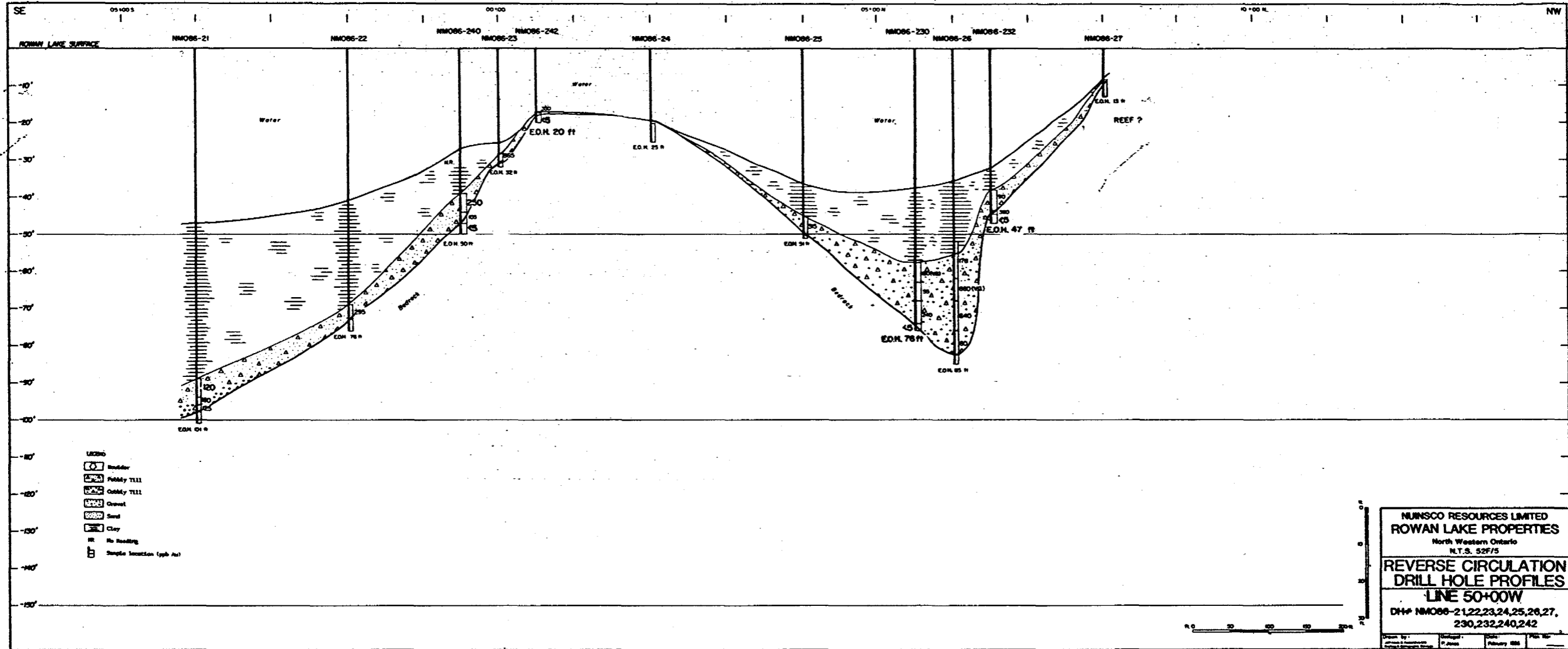




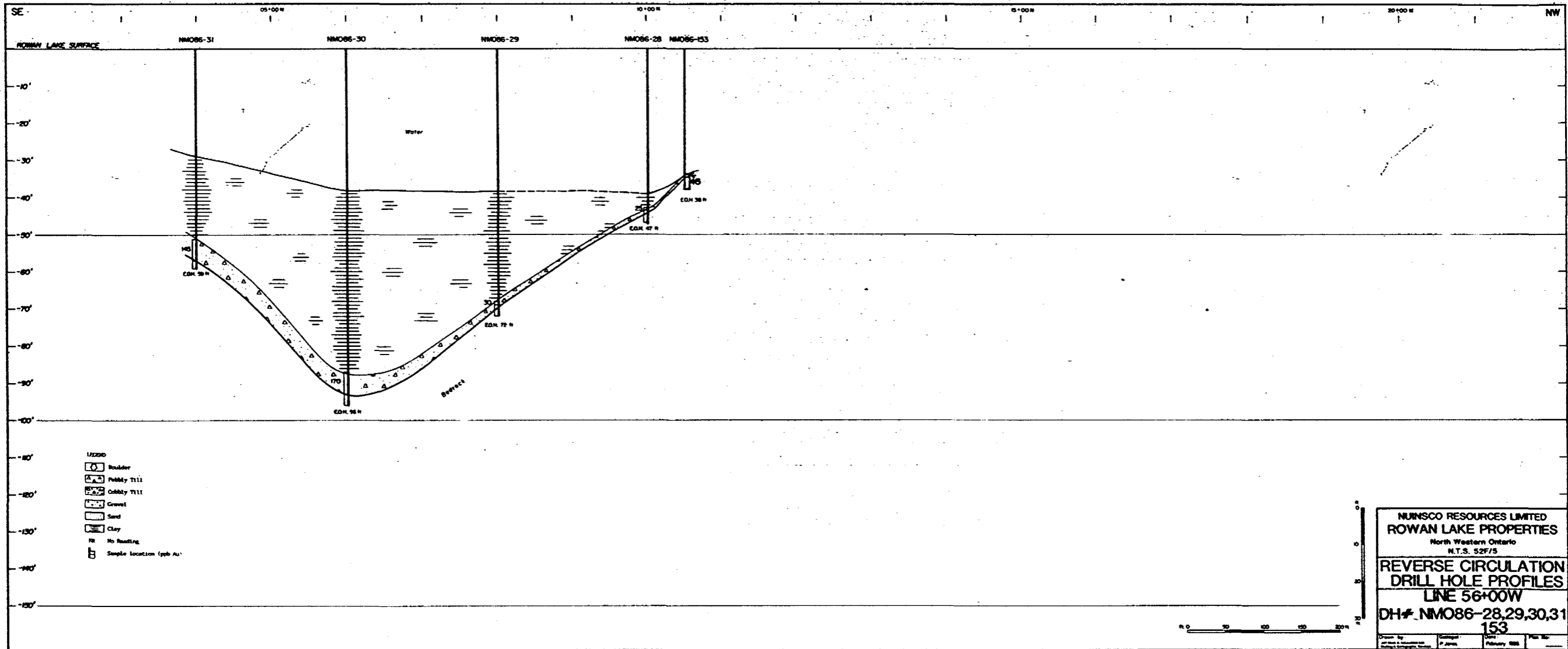


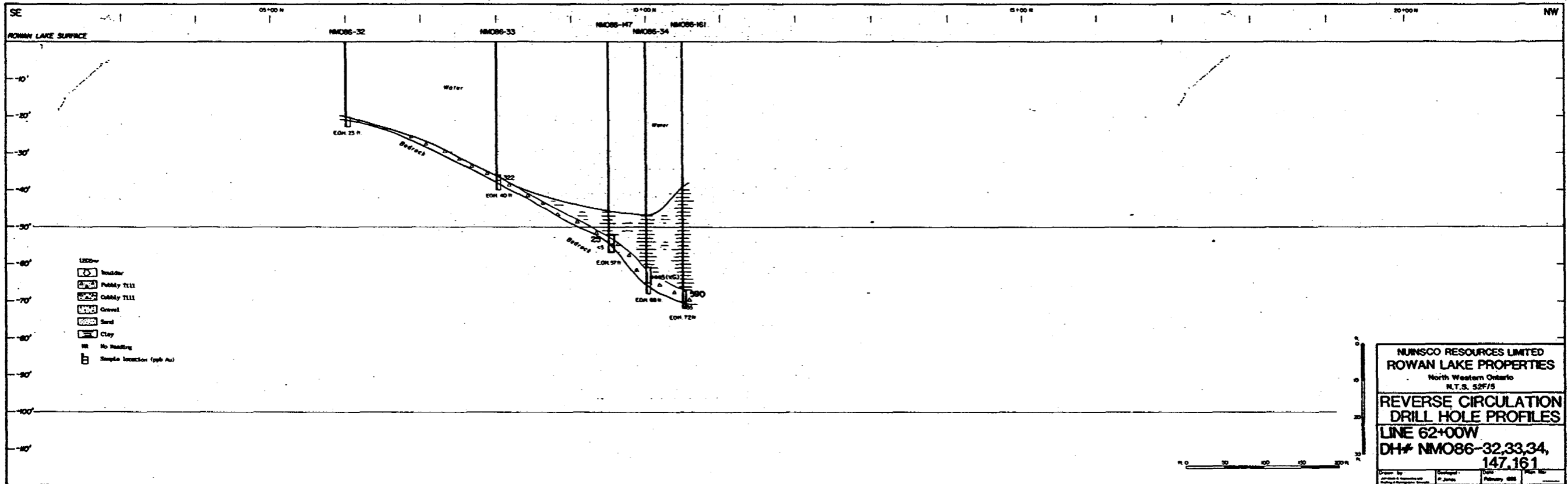


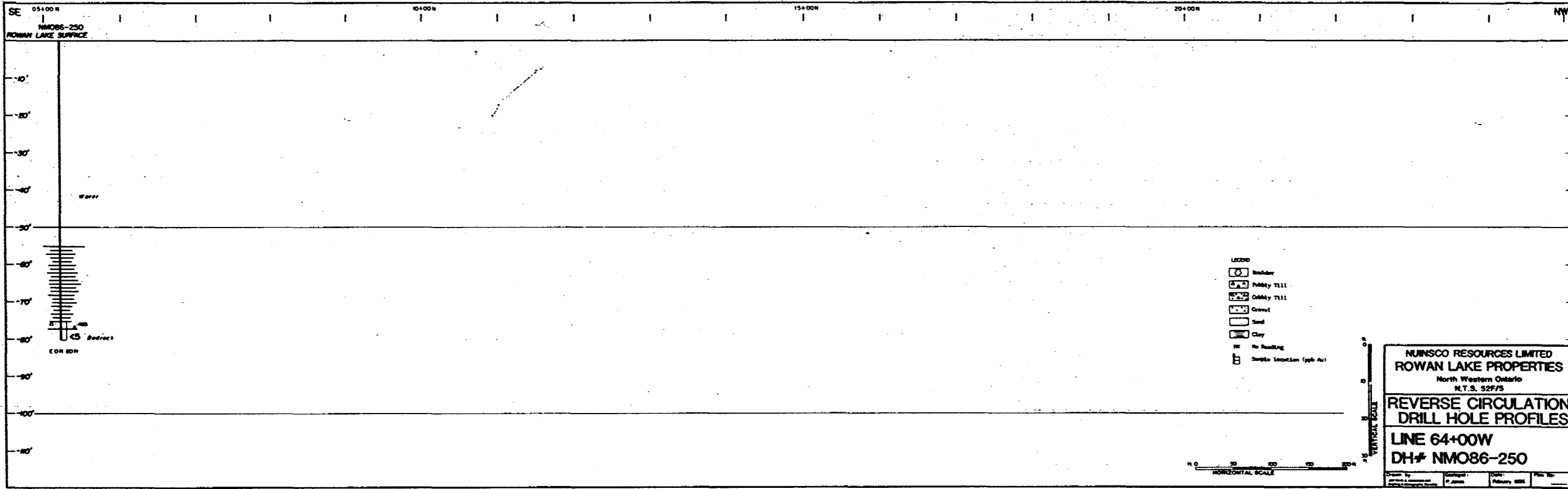




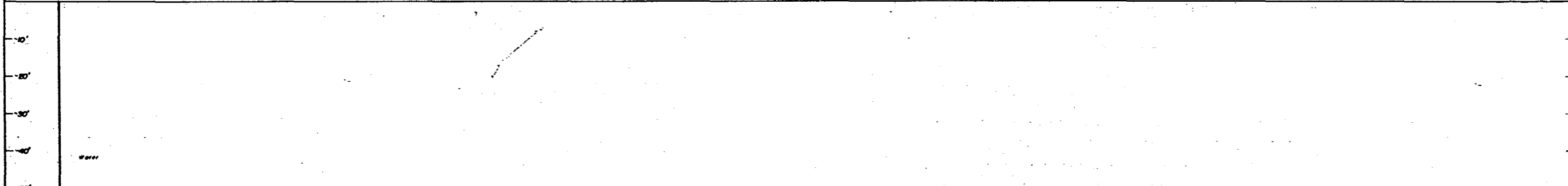
NUNSCO RESOURCES LIMITED
 ROWAN LAKE PROPERTIES
 North Western Ontario
 N.T.S. S2F/S
**REVERSE CIRCULATION
 DRILL HOLE PROFILES**
LINE 50+00W
 DH# NMO66-21,22,23,24,25,26,27,
 230,232,240,242
 Drawn by: [] Date: February 1988
 Checked by: []
 Project: []







SE 05+00N 10+00N 15+00N 20+00N NW



Water

Bedrock

EDH 80N

LEGEND

- Boulder
- Pebbly Till
- Coarse Till
- Gravel
- Sand
- Clay
- No Reading
- Sample Location (ppb Au)

VERTICAL SCALE

0

10

20

30

40

50

60

70

80

90

100

110

HORIZONTAL SCALE

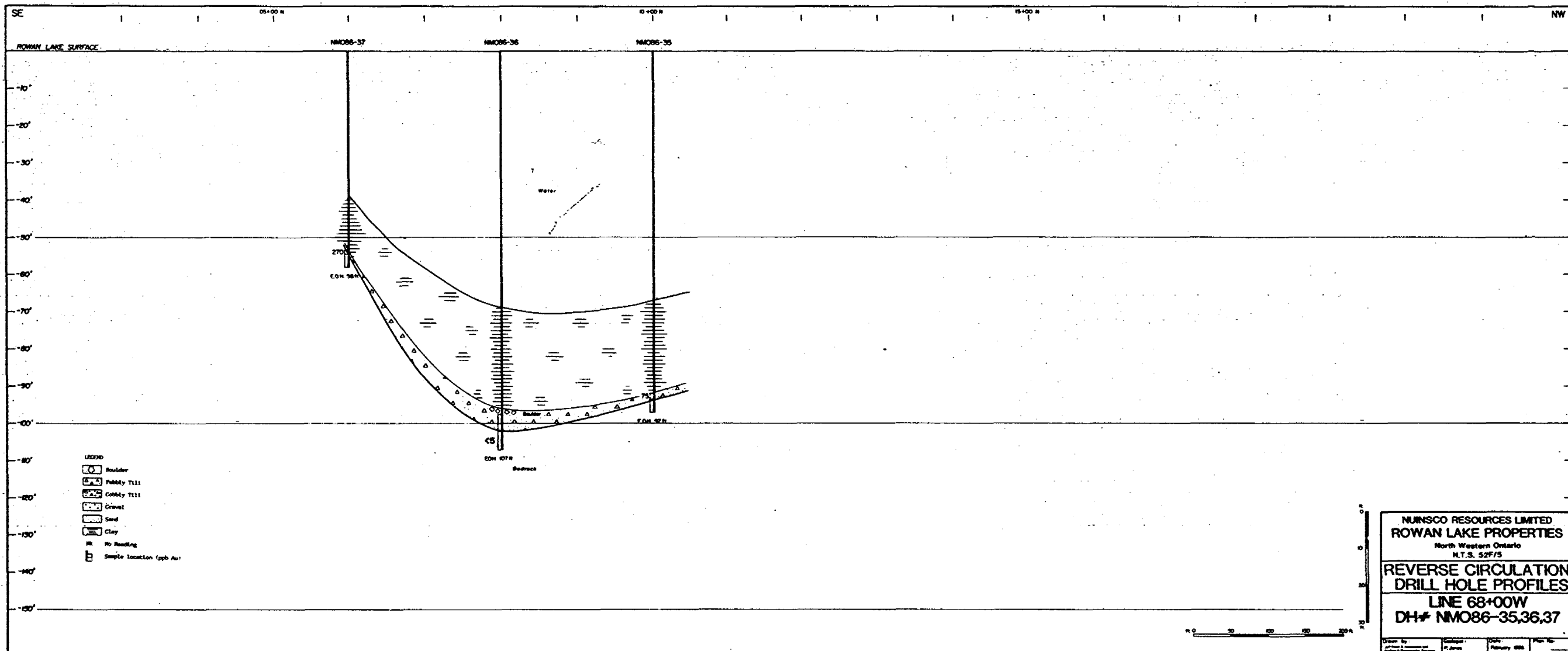
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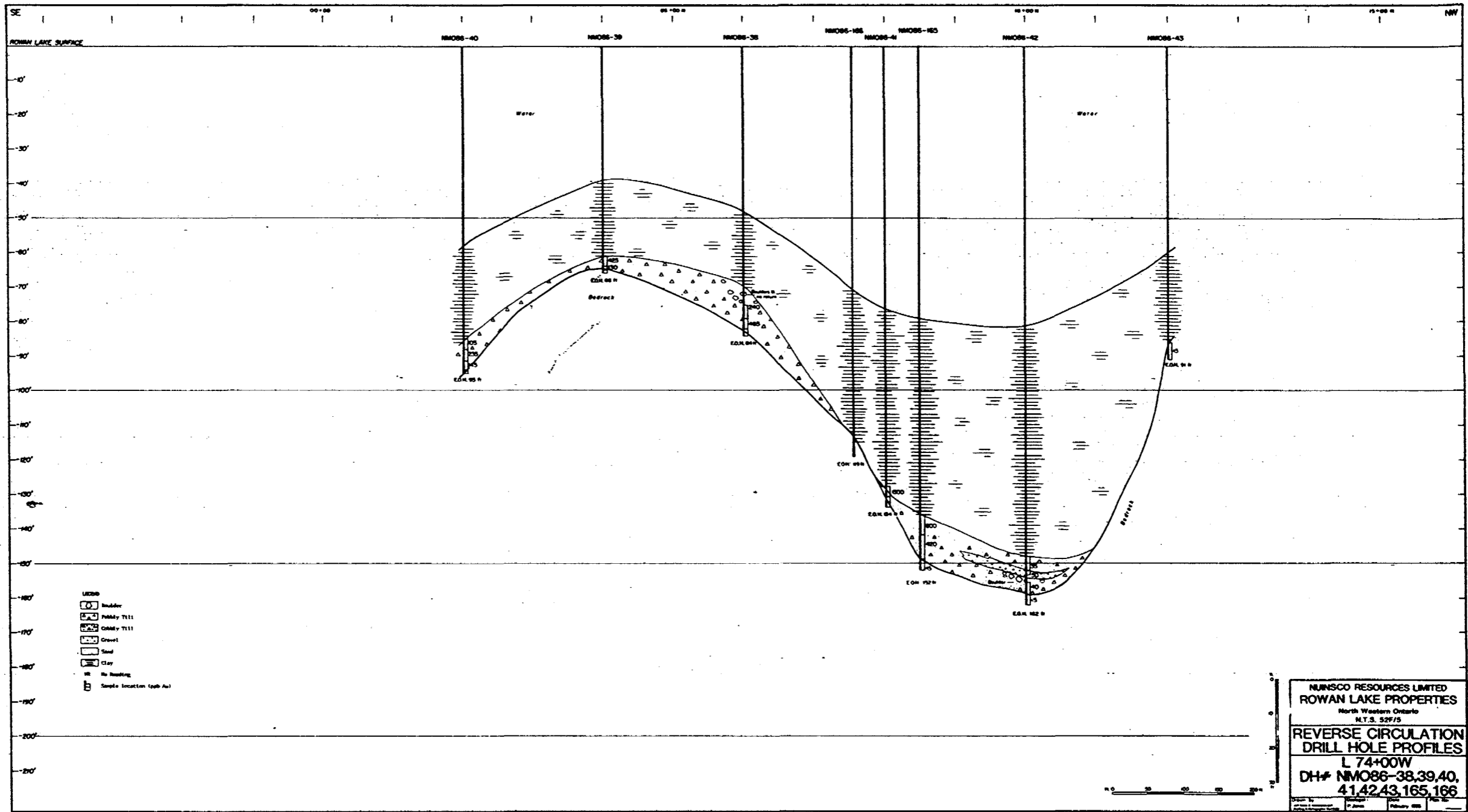
NUNSCO RESOURCES LIMITED
ROWAN LAKE PROPERTIES
 North Western Ontario
 N.T.S. 52F/5

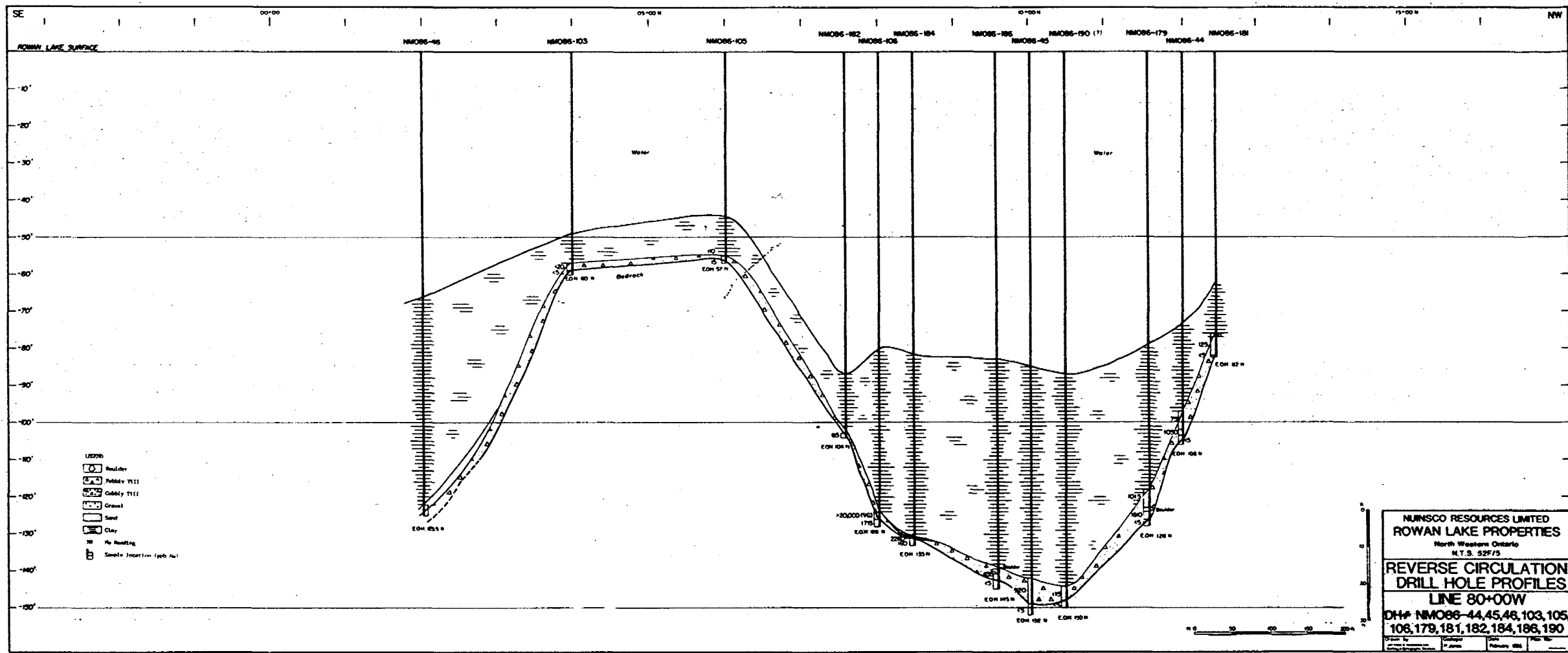
**REVERSE CIRCULATION
 DRILL HOLE PROFILES**

LINE 64+00W
DH# NMO86-250

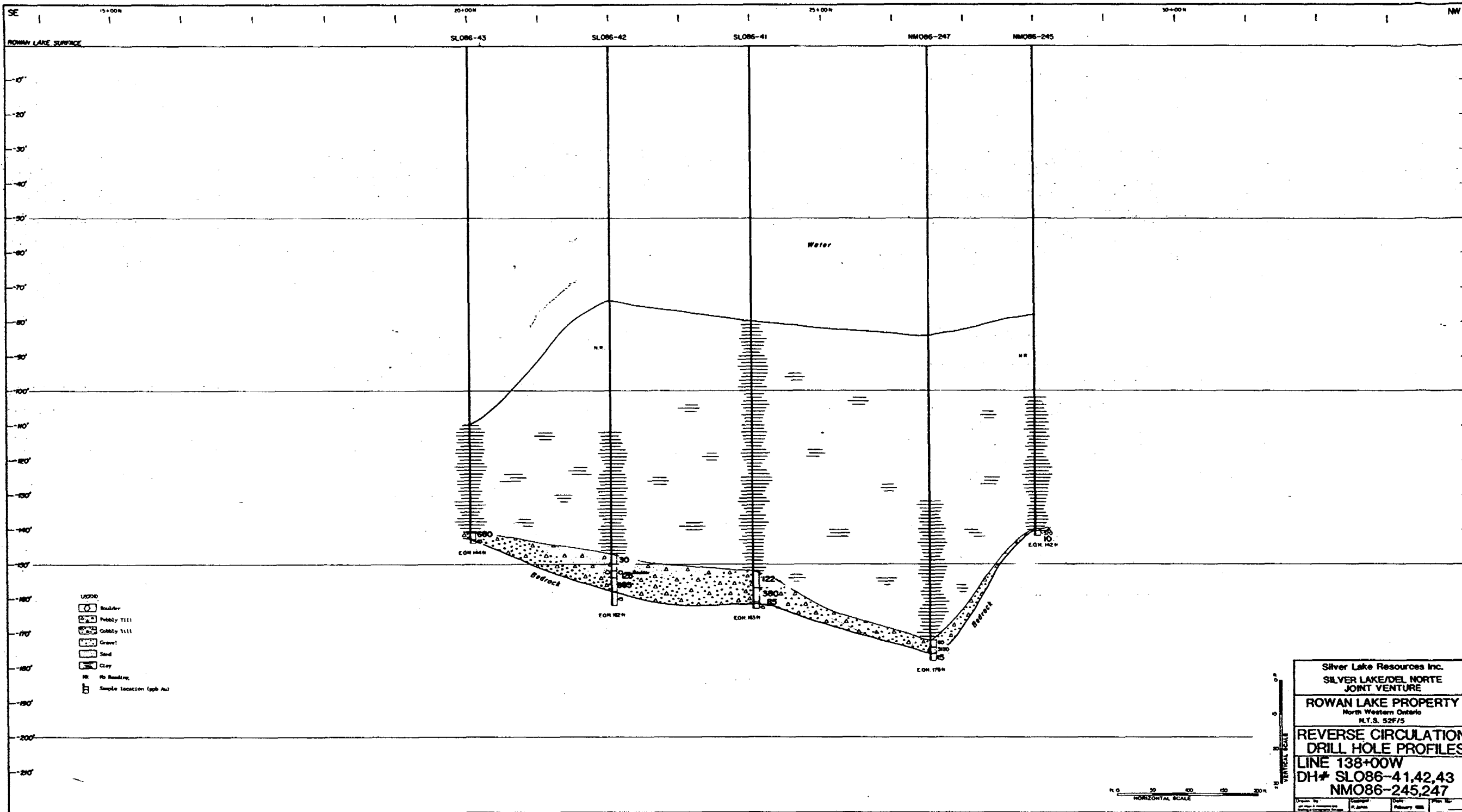
Drawn by	Checked by	Date	Rev. No.
P. Jones	P. Jones	February 2006	

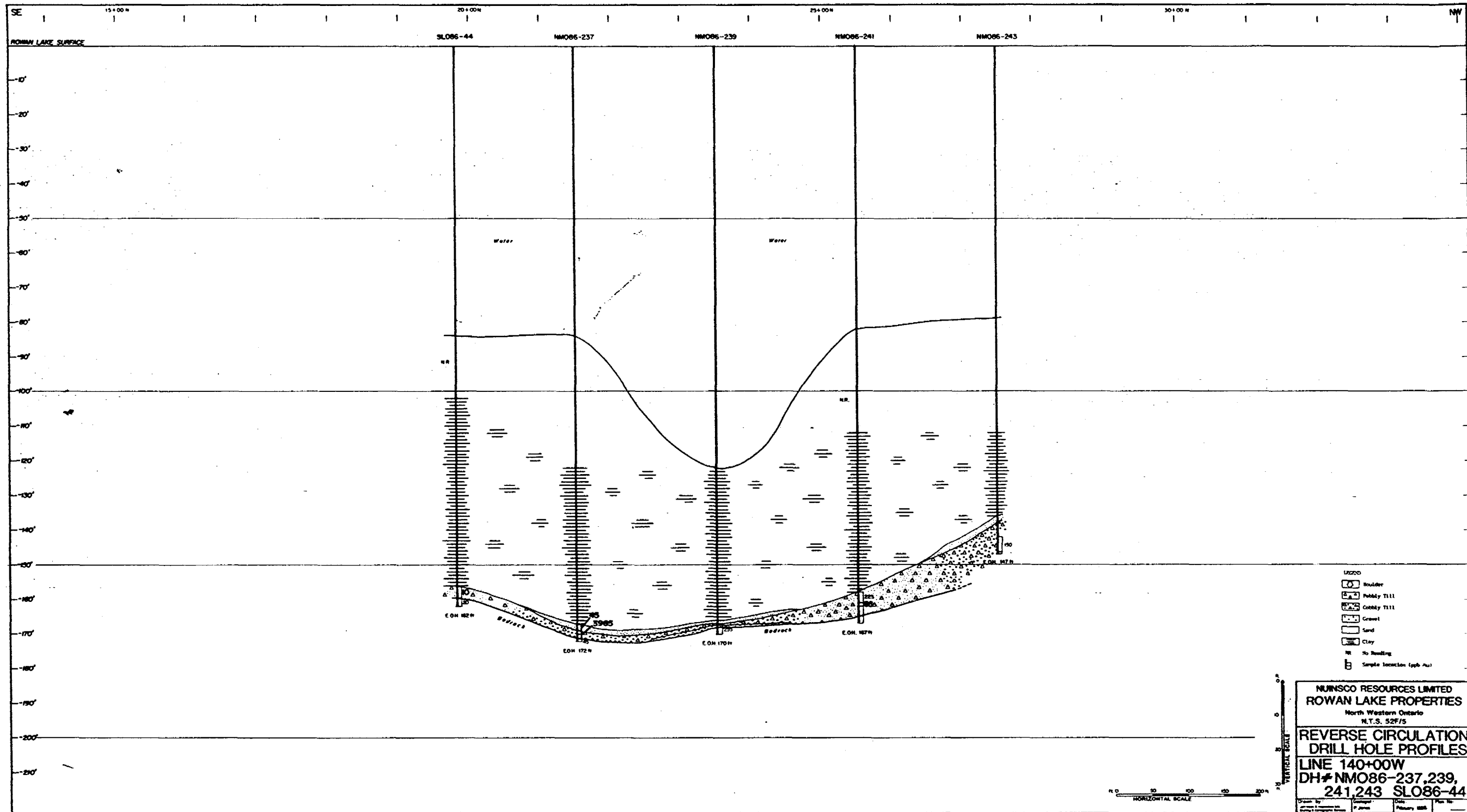






NUNSCO RESOURCES LIMITED
ROWAN LAKE PROPERTIES
 North Western Ontario
 N.T.S. 52F/5
REVERSE CIRCULATION
DRILL HOLE PROFILES
LINE 80+00W
 DH# NMO86-44,45,46,103,105,
 106,179,181,182,184,186,190



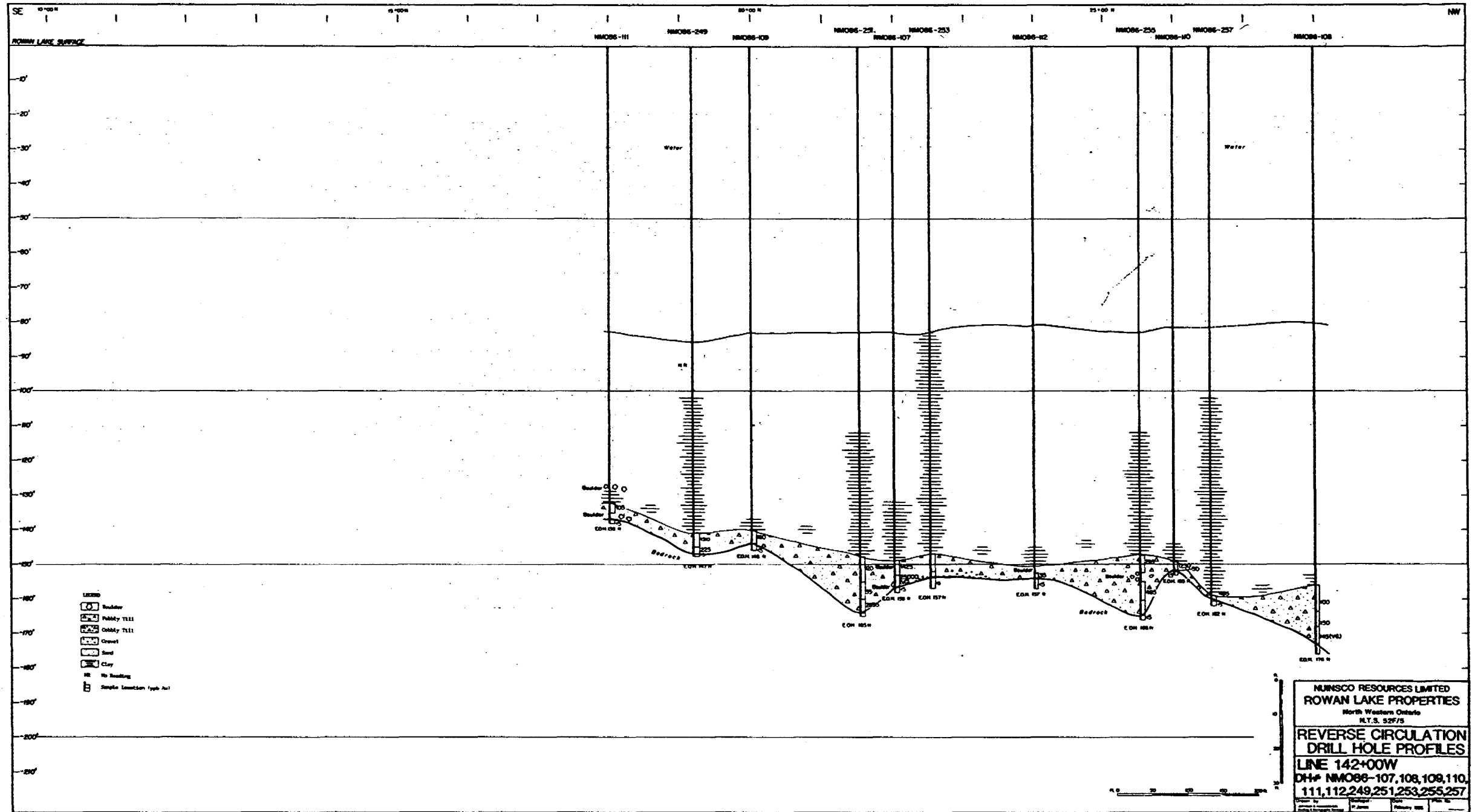


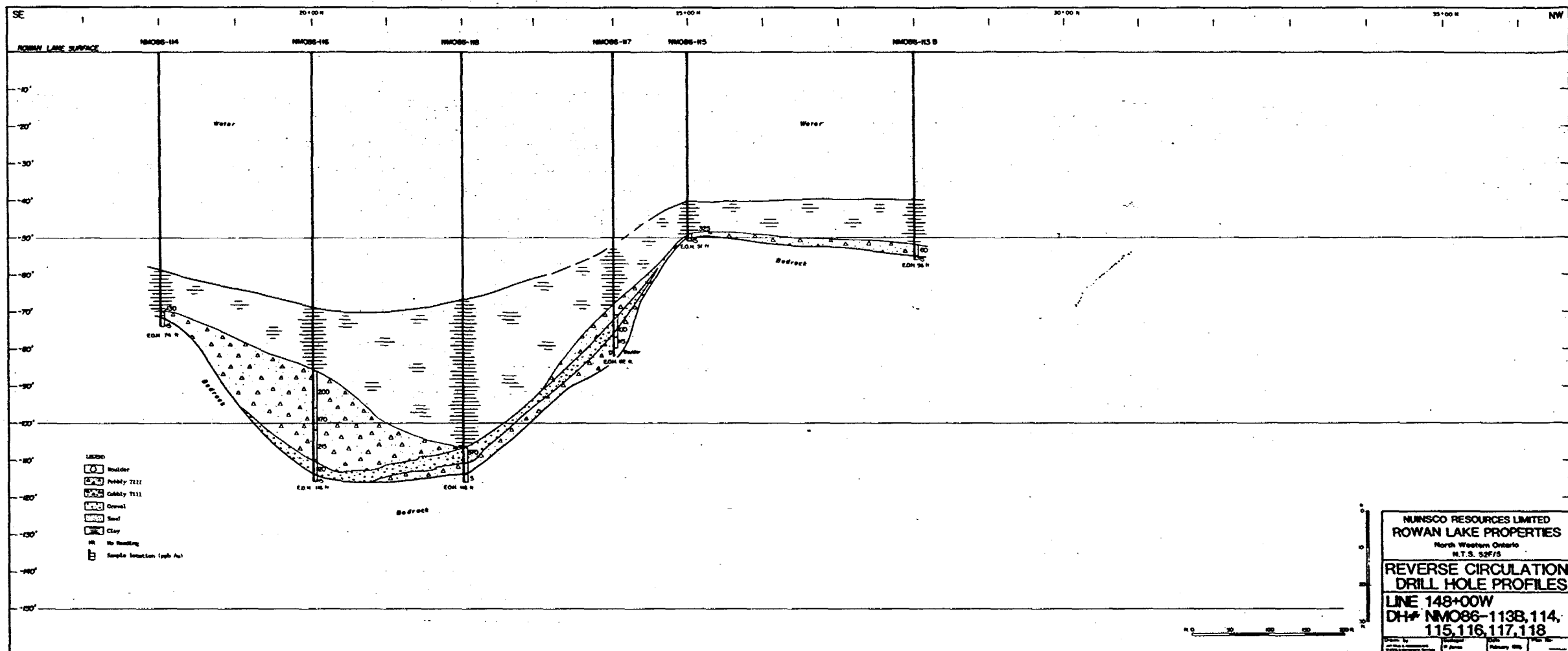
- U220
- Boulder
- ▣ Pebbly Till
- ▤ Cobble Till
- ▥ Gravel
- ▦ Sand
- ▧ Clay
- NR No Reading
- ⊠ Sample Location (pph Au)

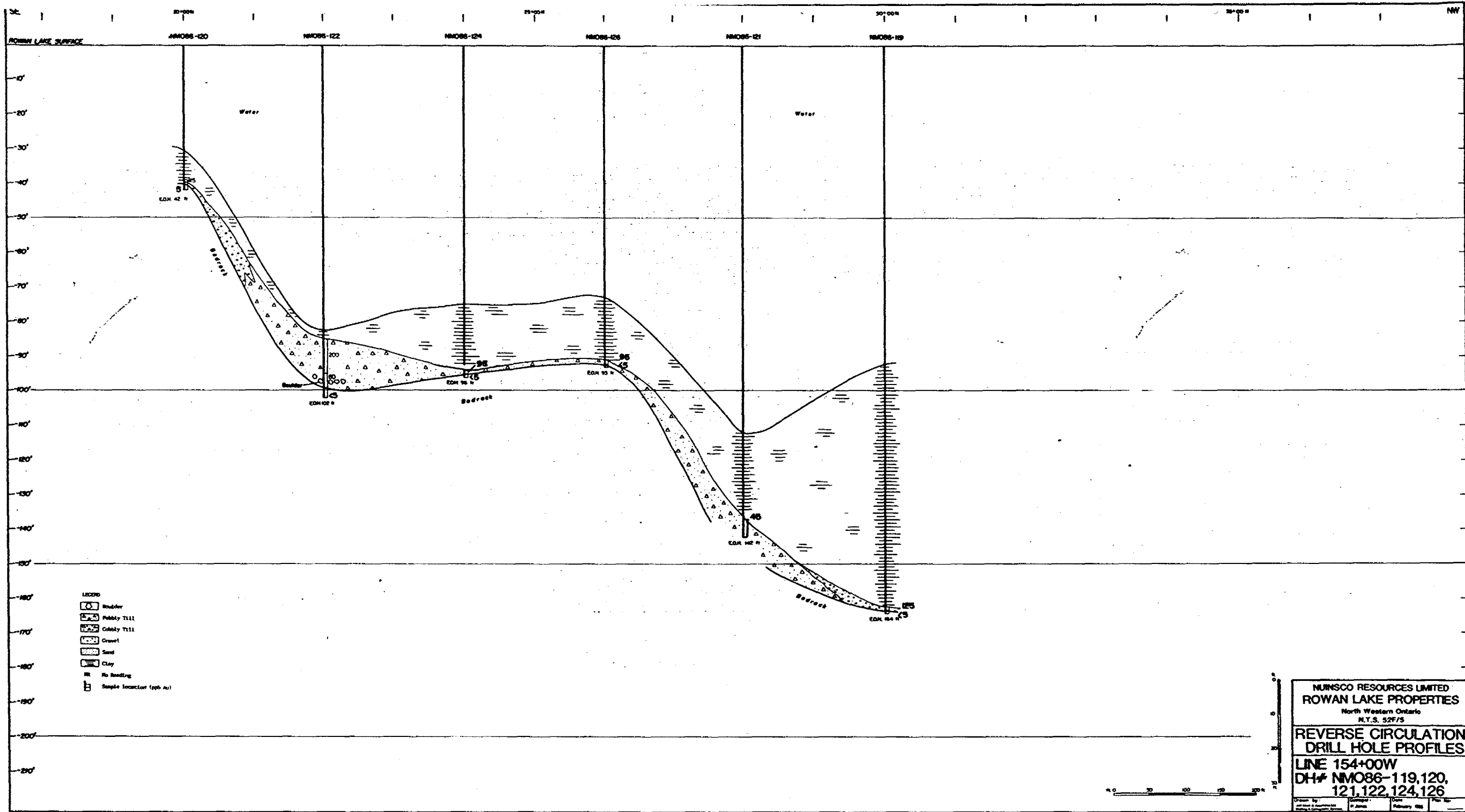
NUINSCO RESOURCES LIMITED
 ROWAN LAKE PROPERTIES
 North Western Ontario
 N.T.S. 52F/5
**REVERSE CIRCULATION
 DRILL HOLE PROFILES**
 LINE 140+00W
 DH# NMO86-237, 239,
 241, 243 SLO86-44

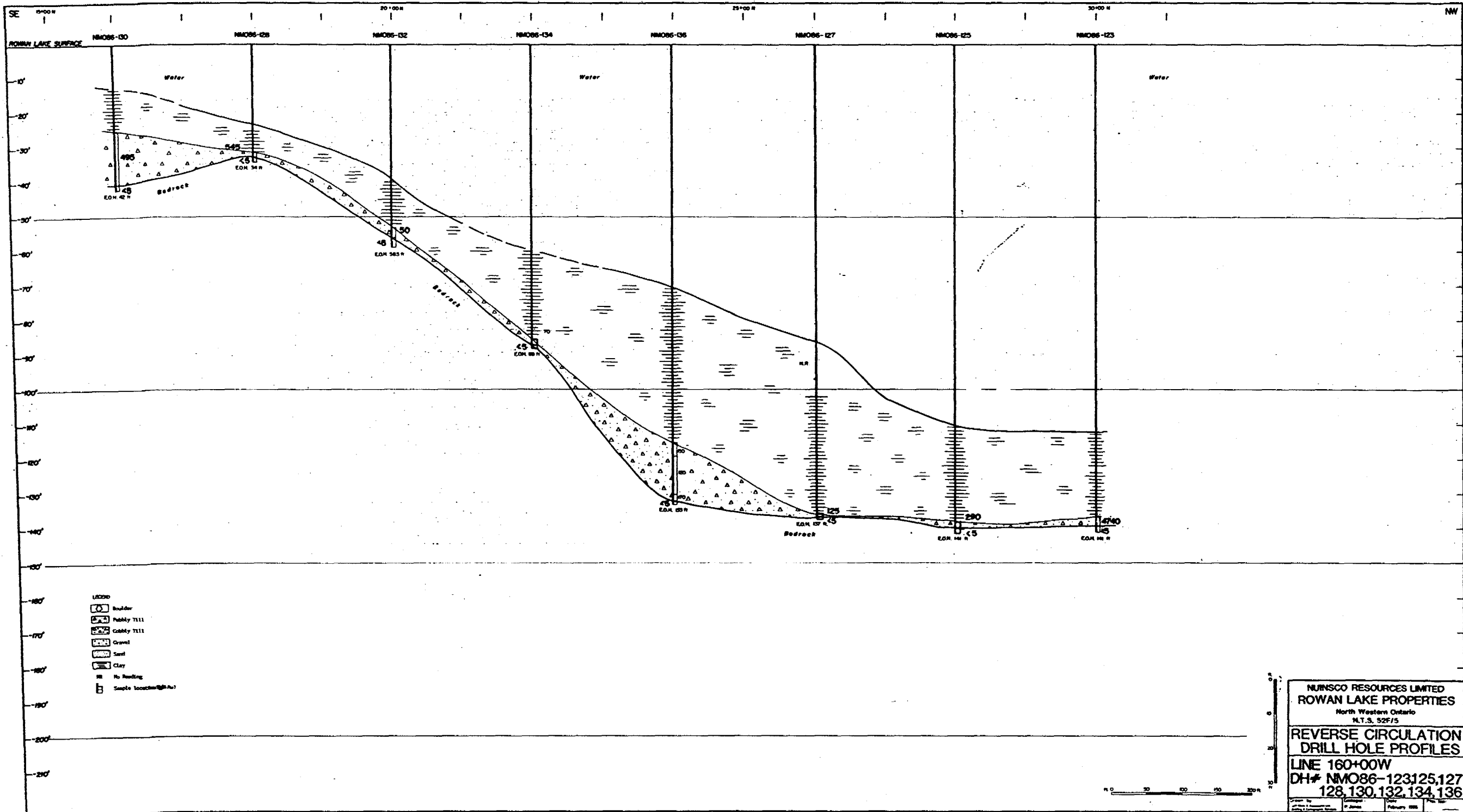
HORIZONTAL SCALE 0 50 100 150 200 ft

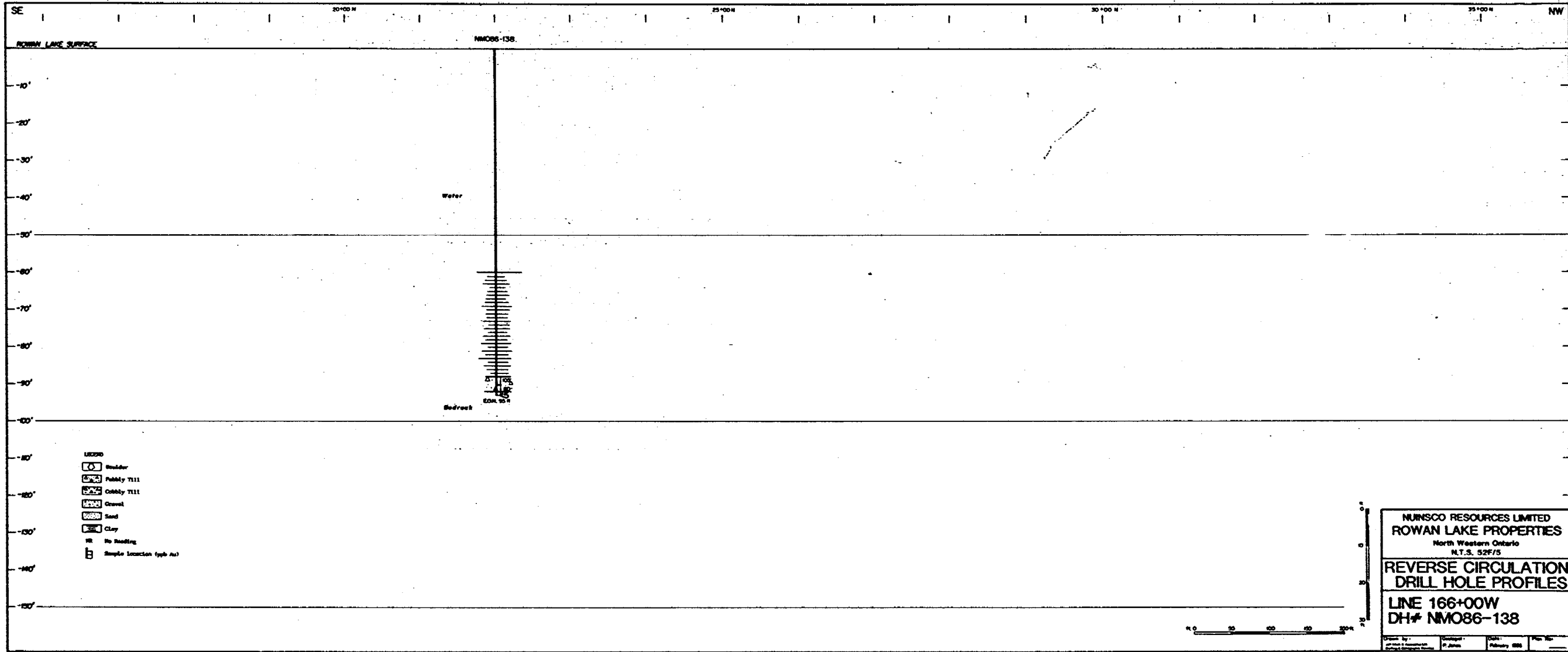
VERTICAL SCALE 0 20 40 60 80 100 120 140 160 180 200 ft

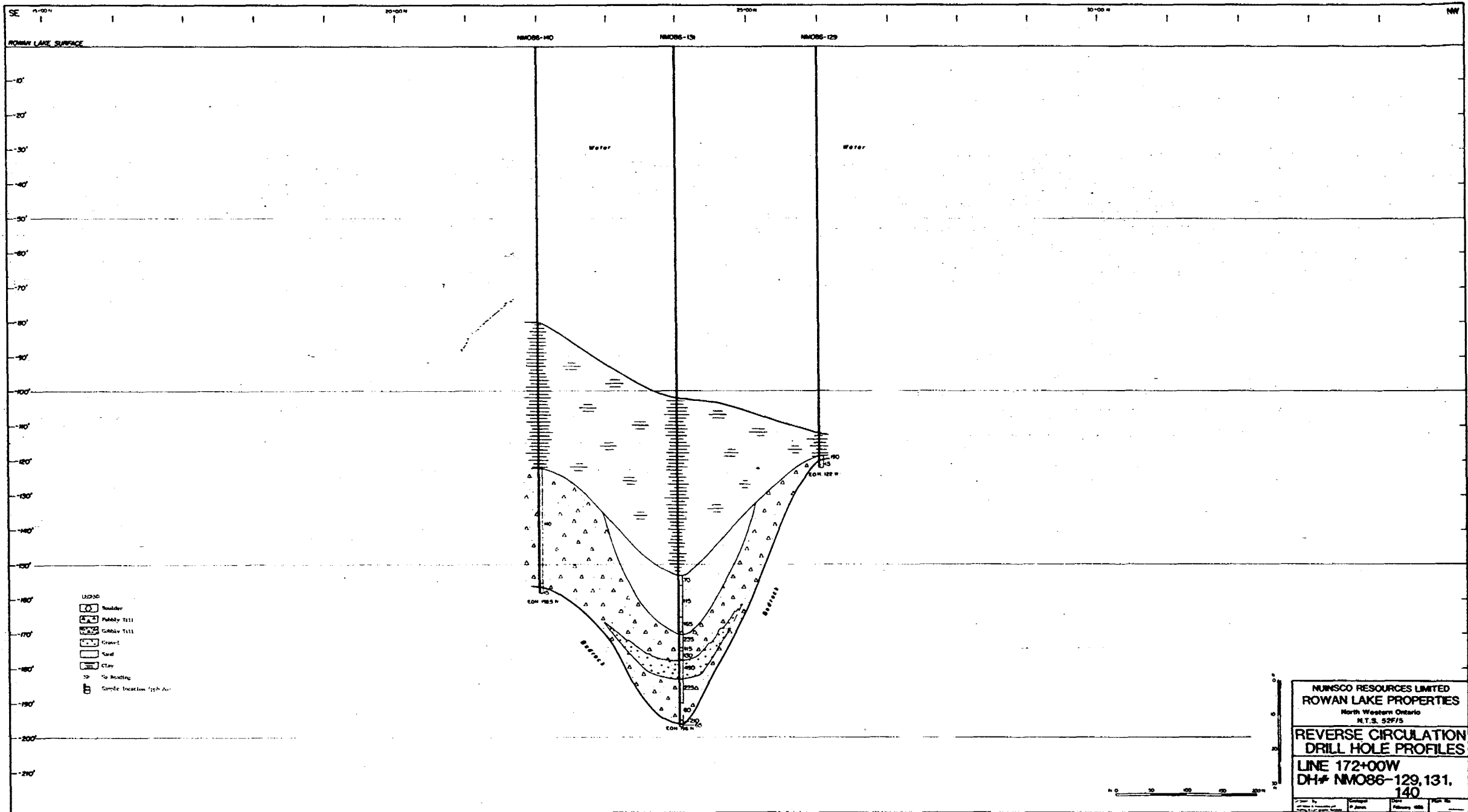












- LEGEND
- Boulder
 - Pebbly Till
 - Gravelly Till
 - Gravel
 - Sand
 - Clay
 - To Reading
 - Sample Location (pph Au)



MUNSCO RESOURCES LIMITED
ROWAN LAKE PROPERTIES
 North Western Ontario
 N.T.S. 52P/5

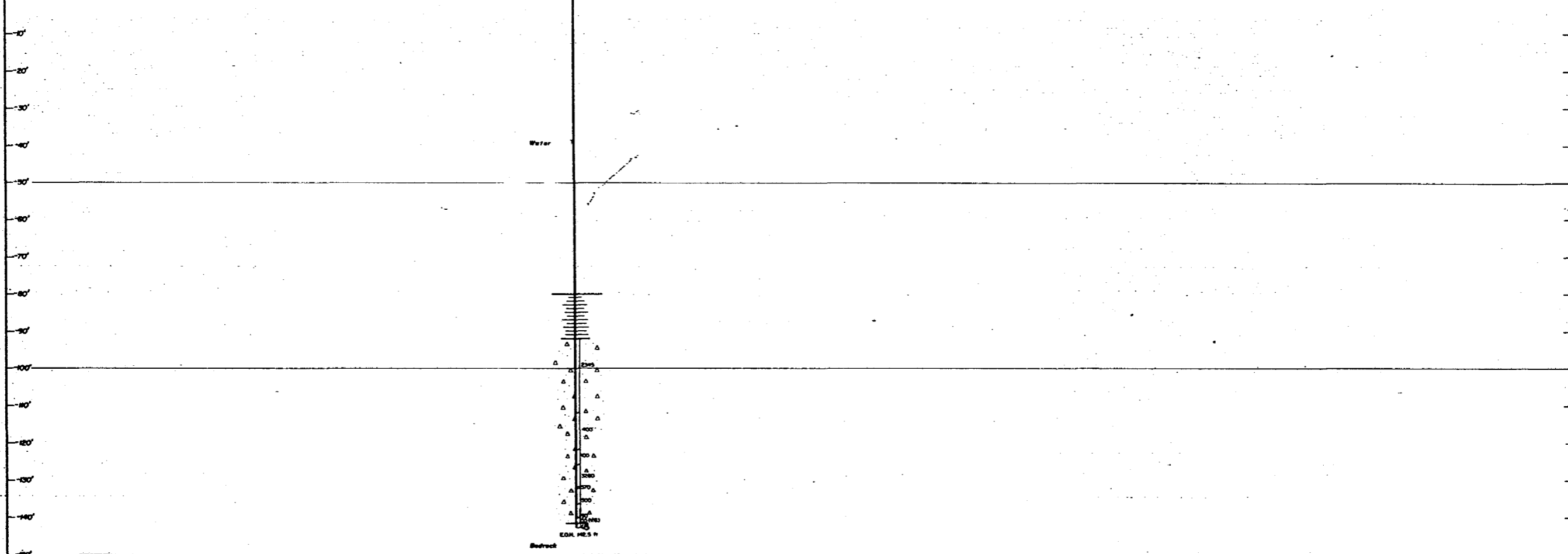
**REVERSE CIRCULATION
 DRILL HOLE PROFILES**

LINE 172+00W
**DH# NMO86-129, 131,
 140**

Prepared by	Checked by	Date	Scale
		February 1988	1" = 50'

SE 15+00 N 20+00 N 25+00 N 30+00 N NW

ROWAN LAKE SURFACE NMO86-142



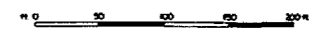
- LEGEND
- Boulder
 - Pebbly Till
 - Cobble Till
 - Gravel
 - Sand
 - Clay
 - No Sampling
 - Sample location (pp. A)

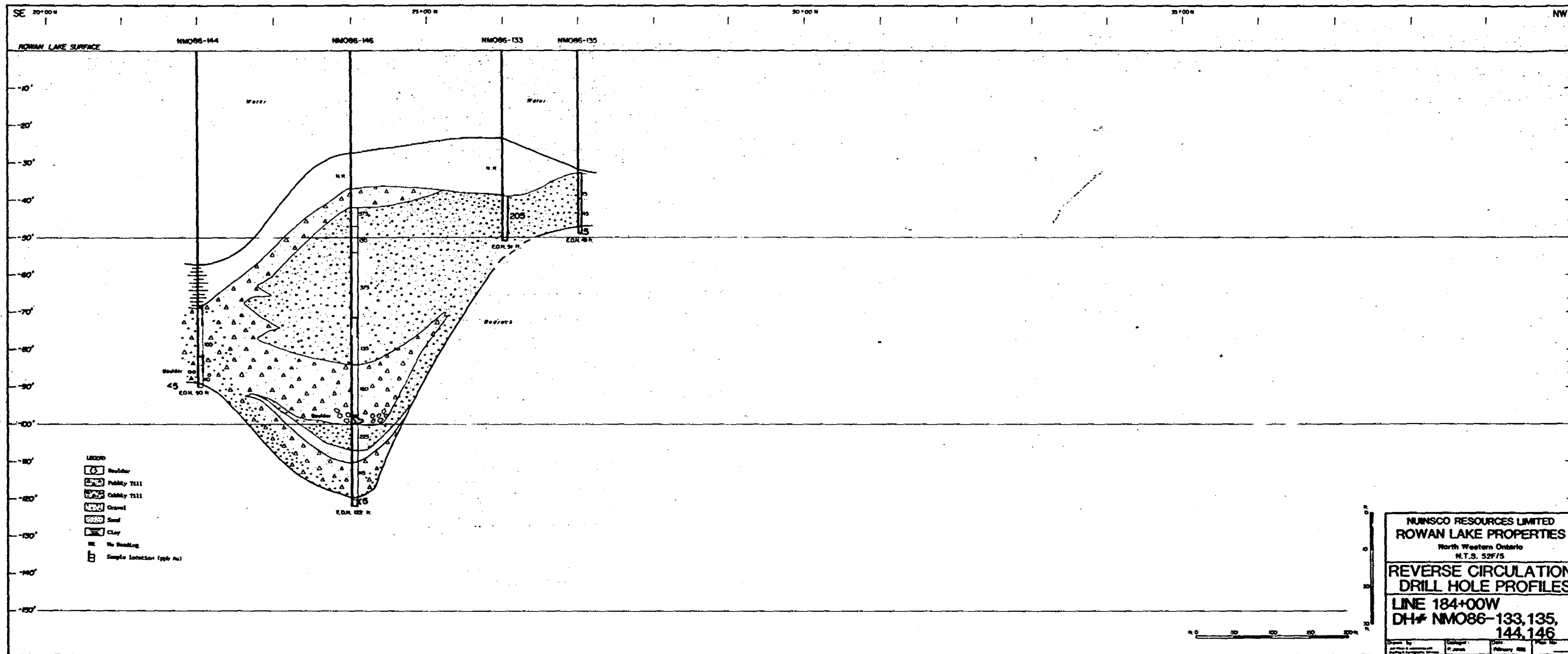
NUINSCO RESOURCES LIMITED
 ROWAN LAKE PROPERTIES
 North Western Ontario
 N.T.S. 52F/5

**REVERSE CIRCULATION
 DRILL HOLE PROFILES**

LINE 178+00W
 DH# NMO86-142

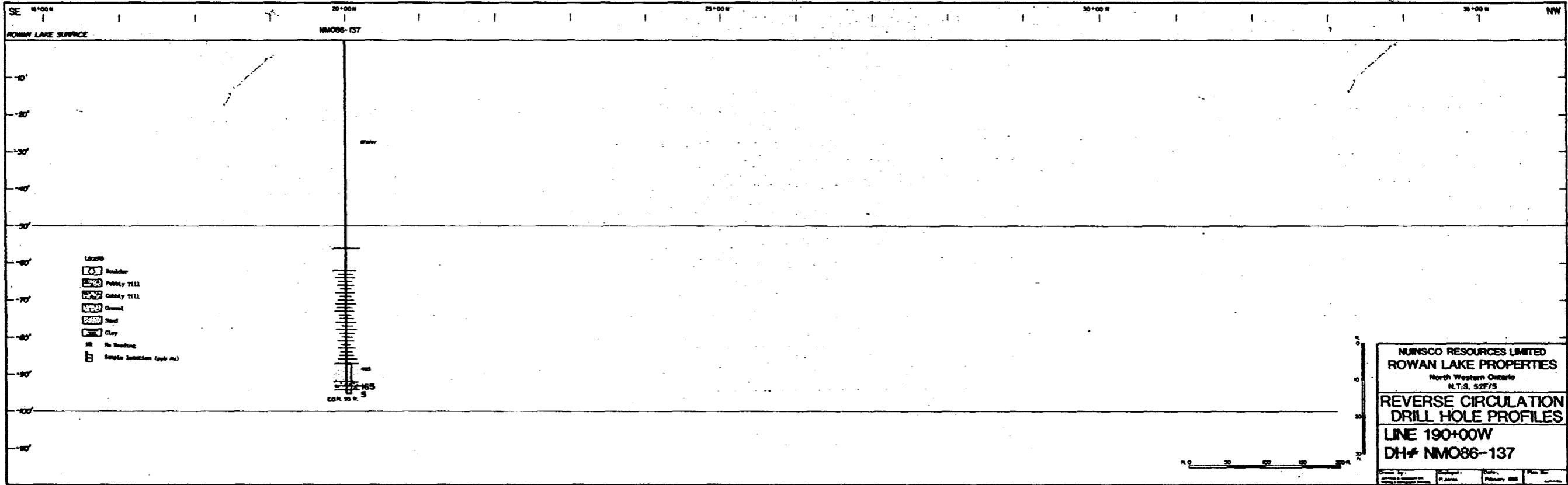
Drawn by: J. Jones Checked: P. Jones Date: February 1986 Plan No:

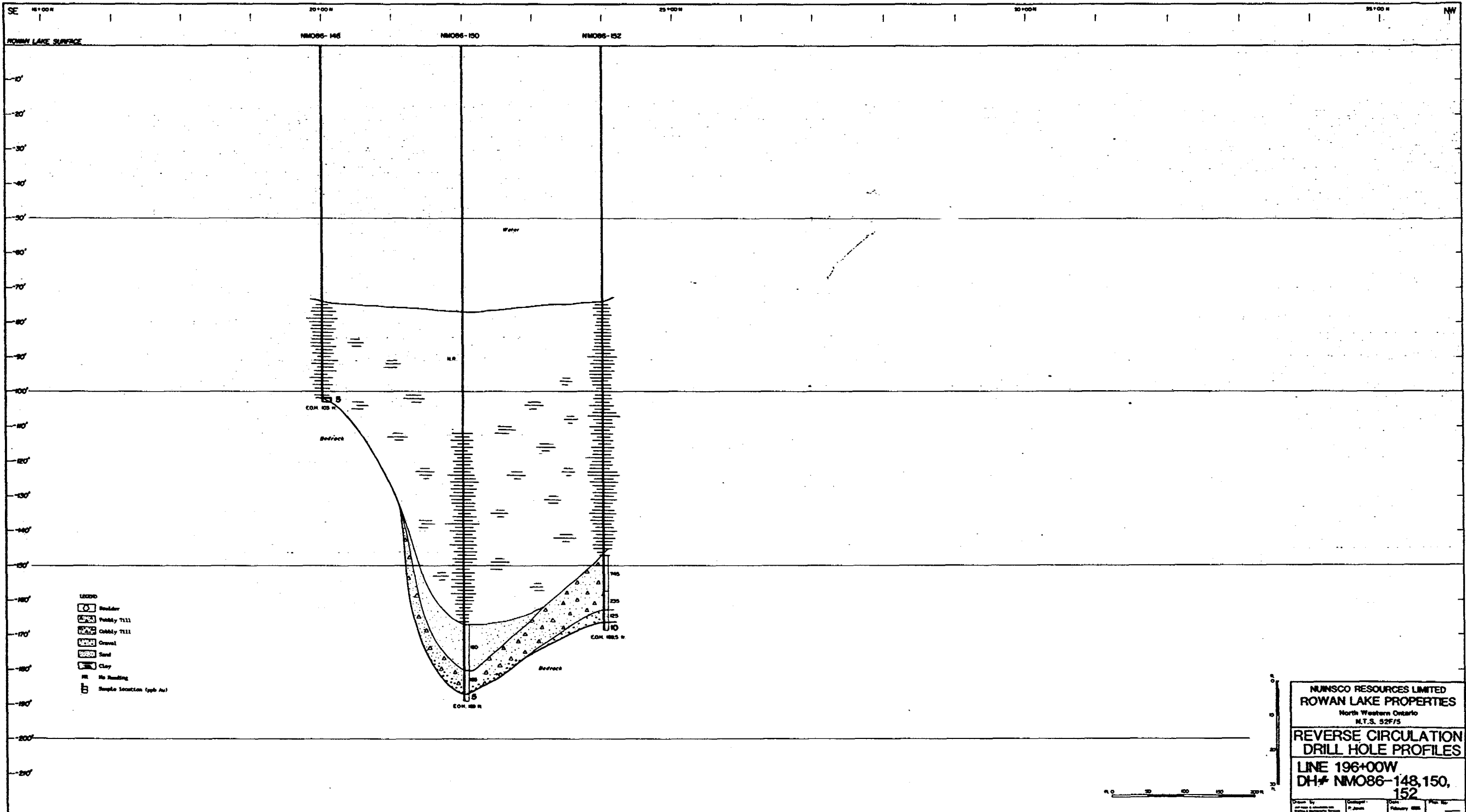


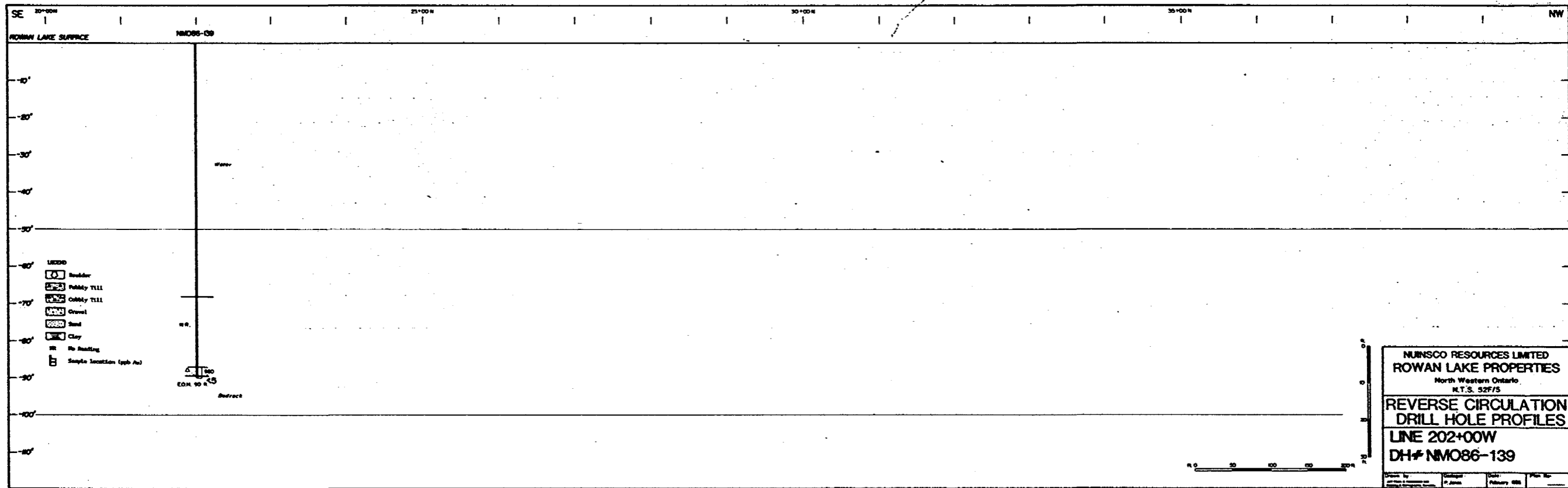


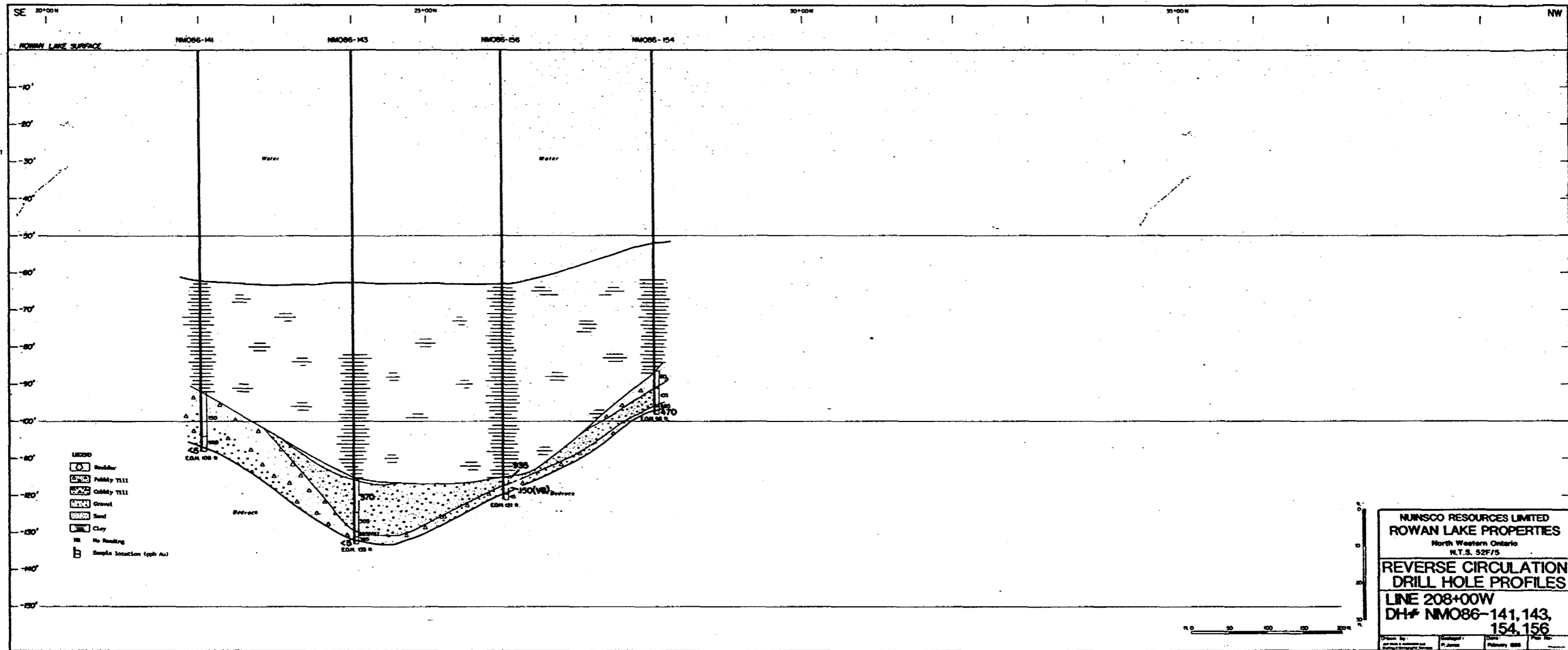
- LEGEND
- Boulder
 - Pebbly Till
 - Cobble Till
 - Gravel
 - Sand
 - Clay
 - No Shelling
 - Sample Location (ppb Au)

NUNSCO RESOURCES LIMITED
 ROWAN LAKE PROPERTIES
 North Western Ontario
 N.T.S. 52F/5
**REVERSE CIRCULATION
 DRILL HOLE PROFILES**
 LINE 184+00W
 DH# NMO86-133, 135,
 144, 146

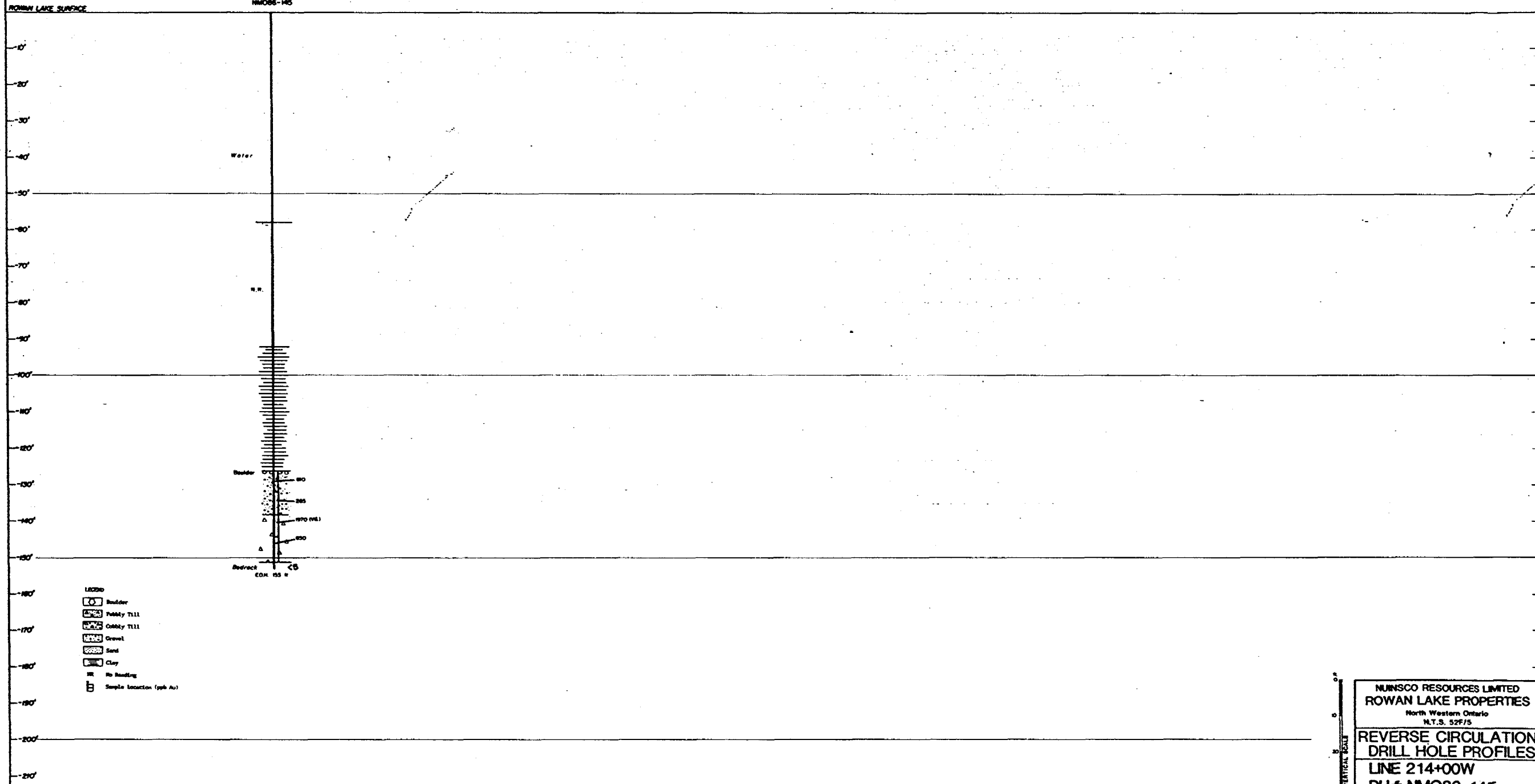


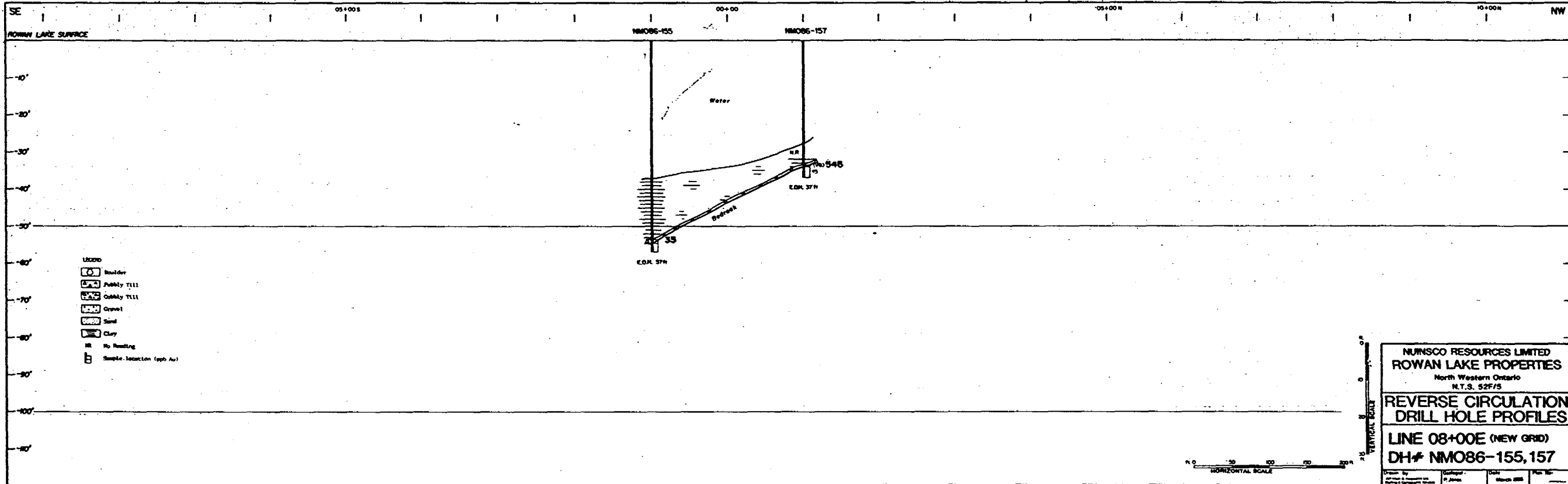


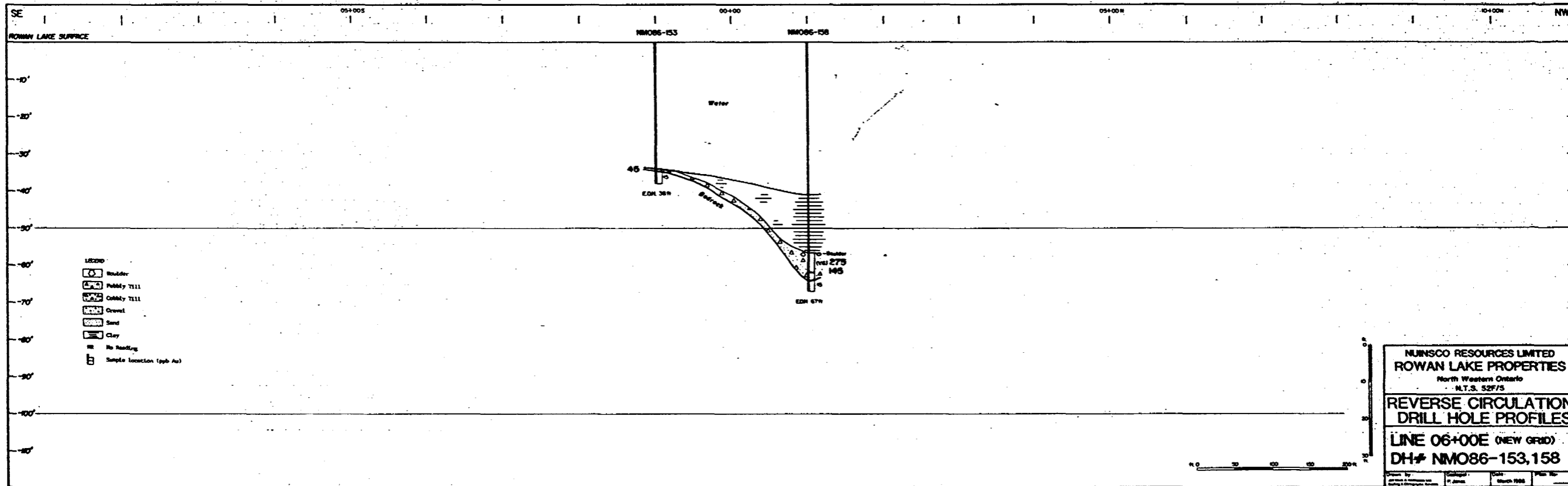


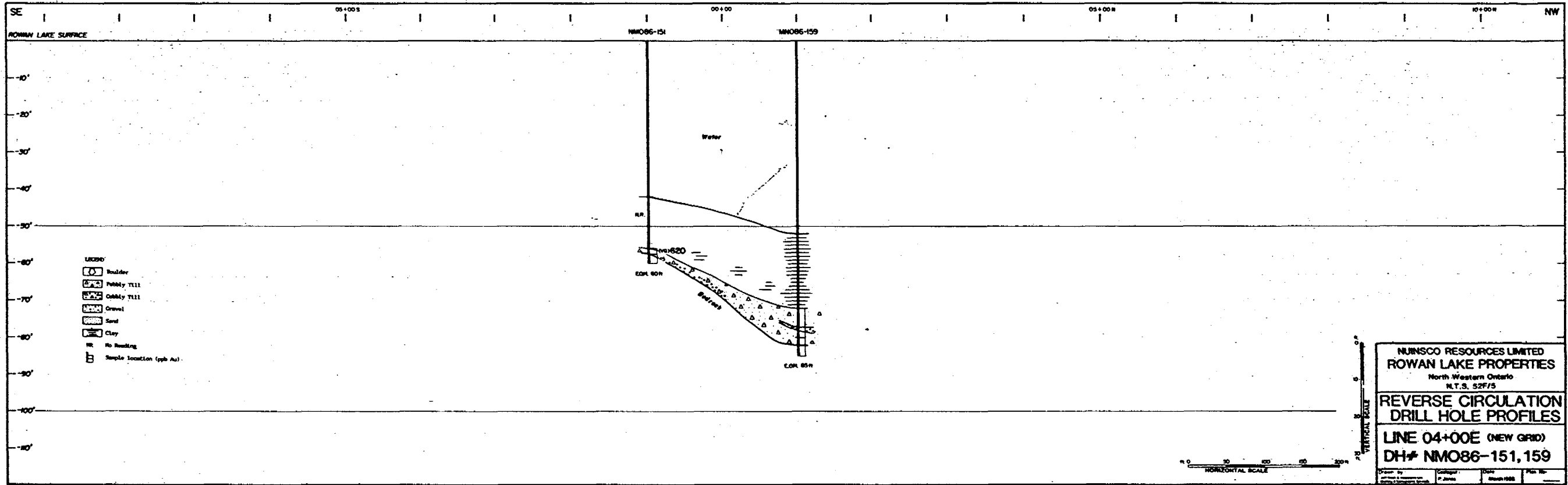


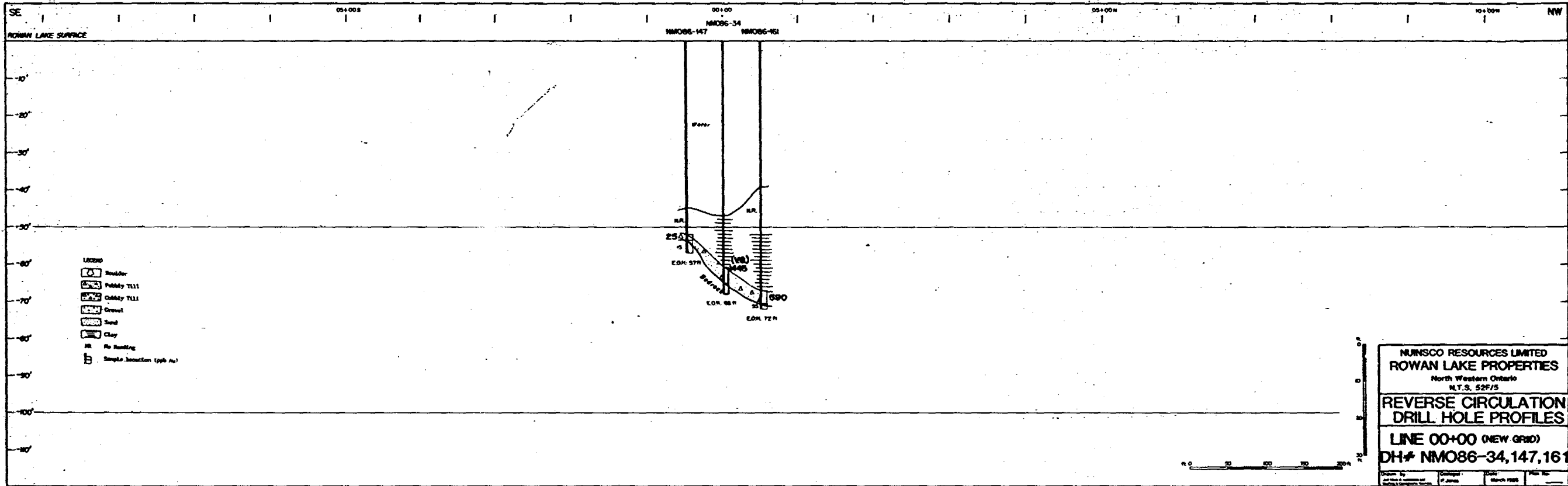
SE 20+00 W 25+00 W 30+00 W 35+00 W NW

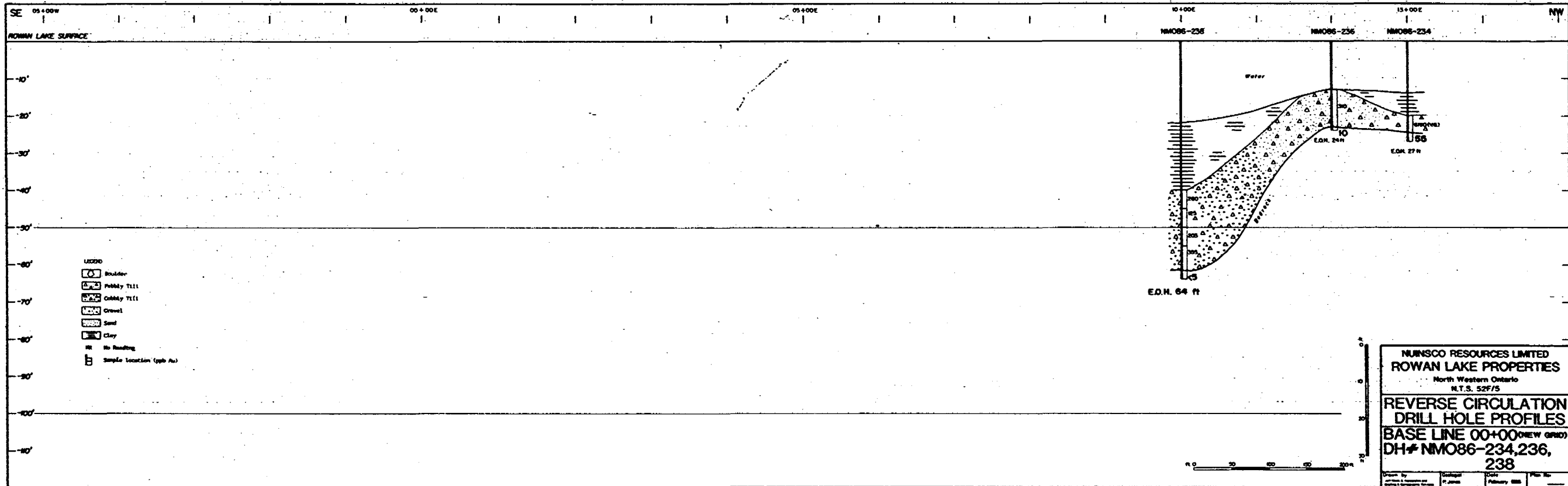


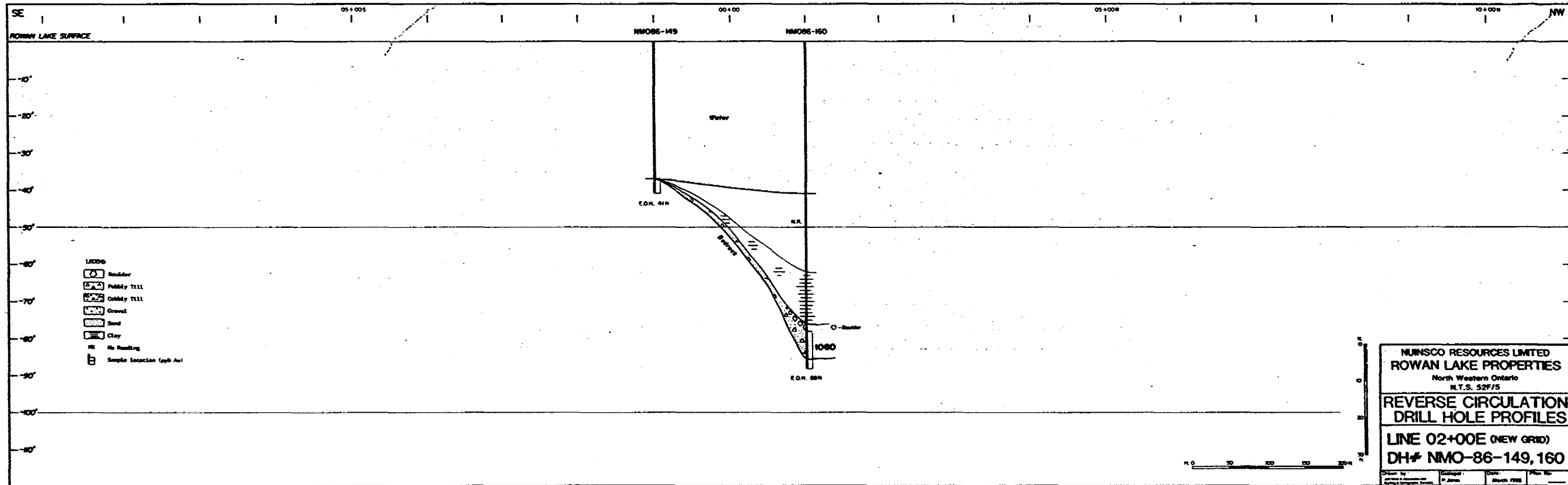


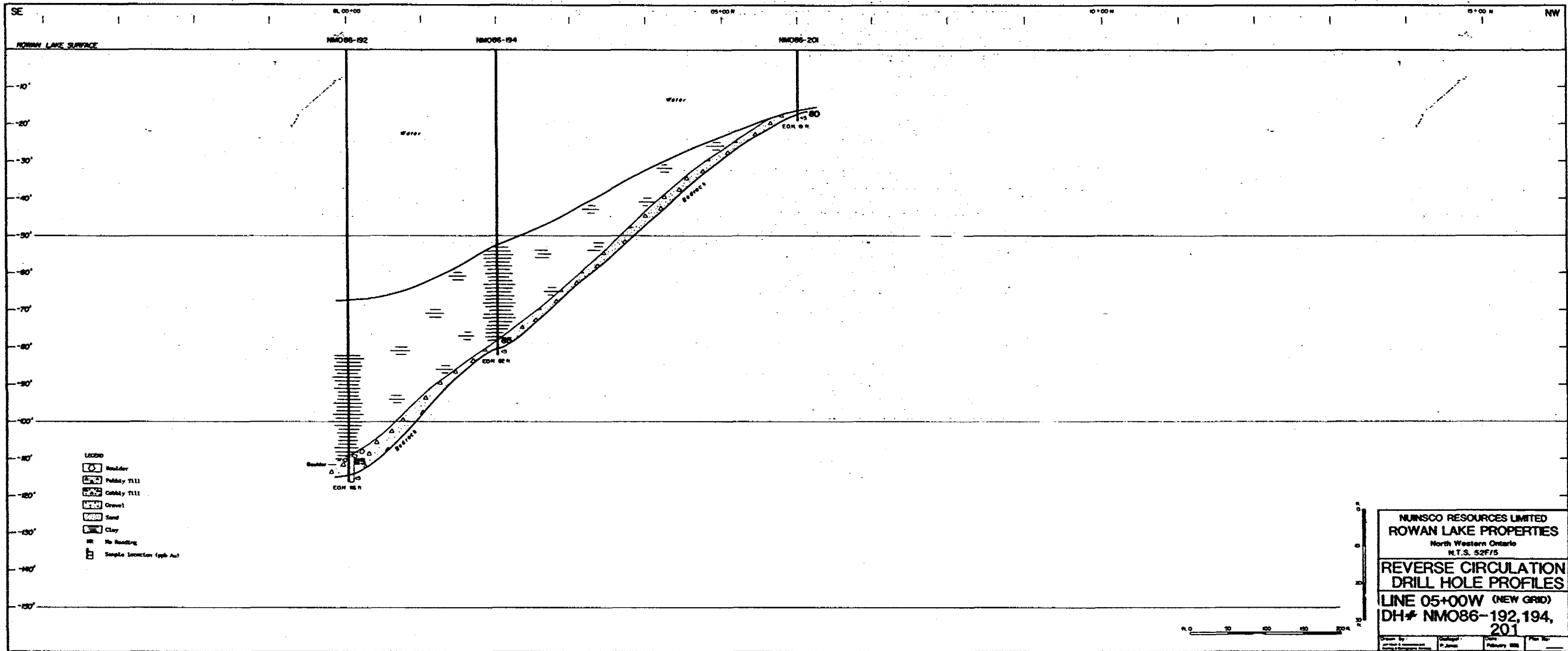


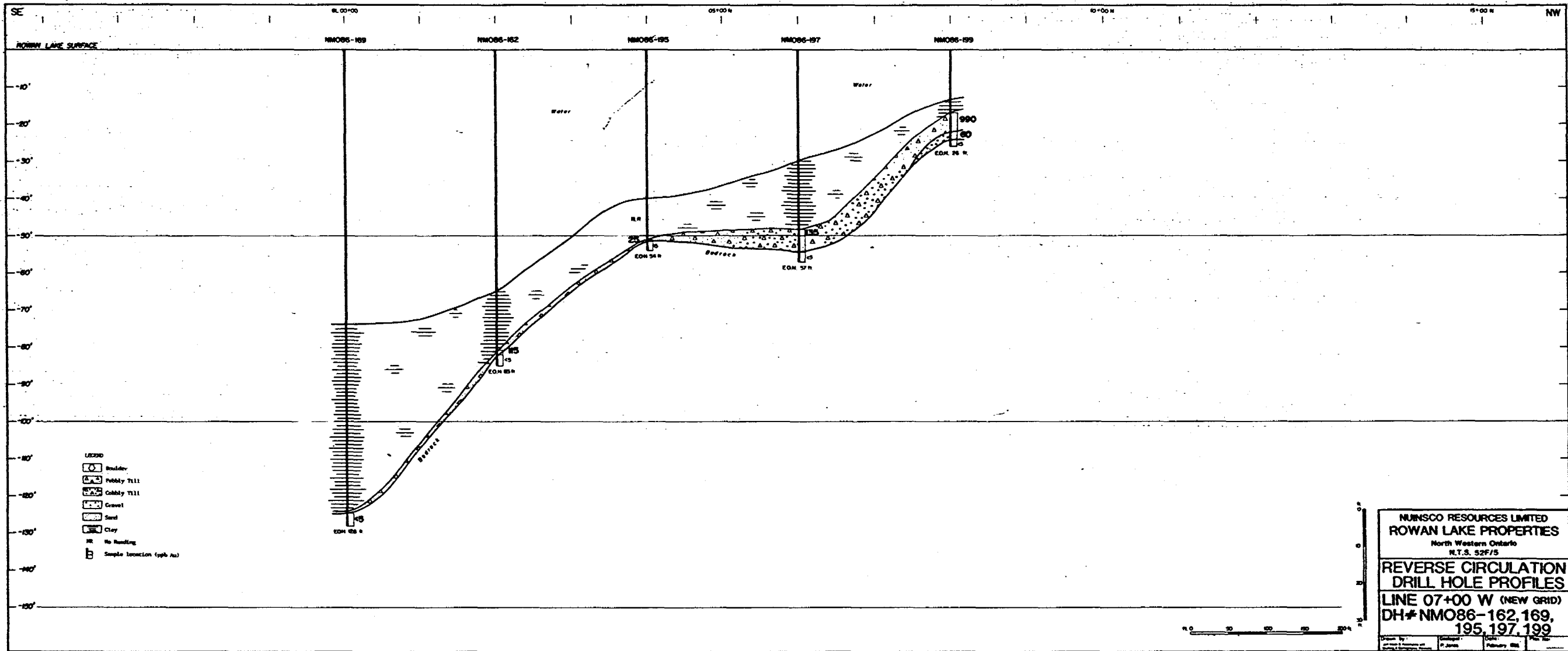


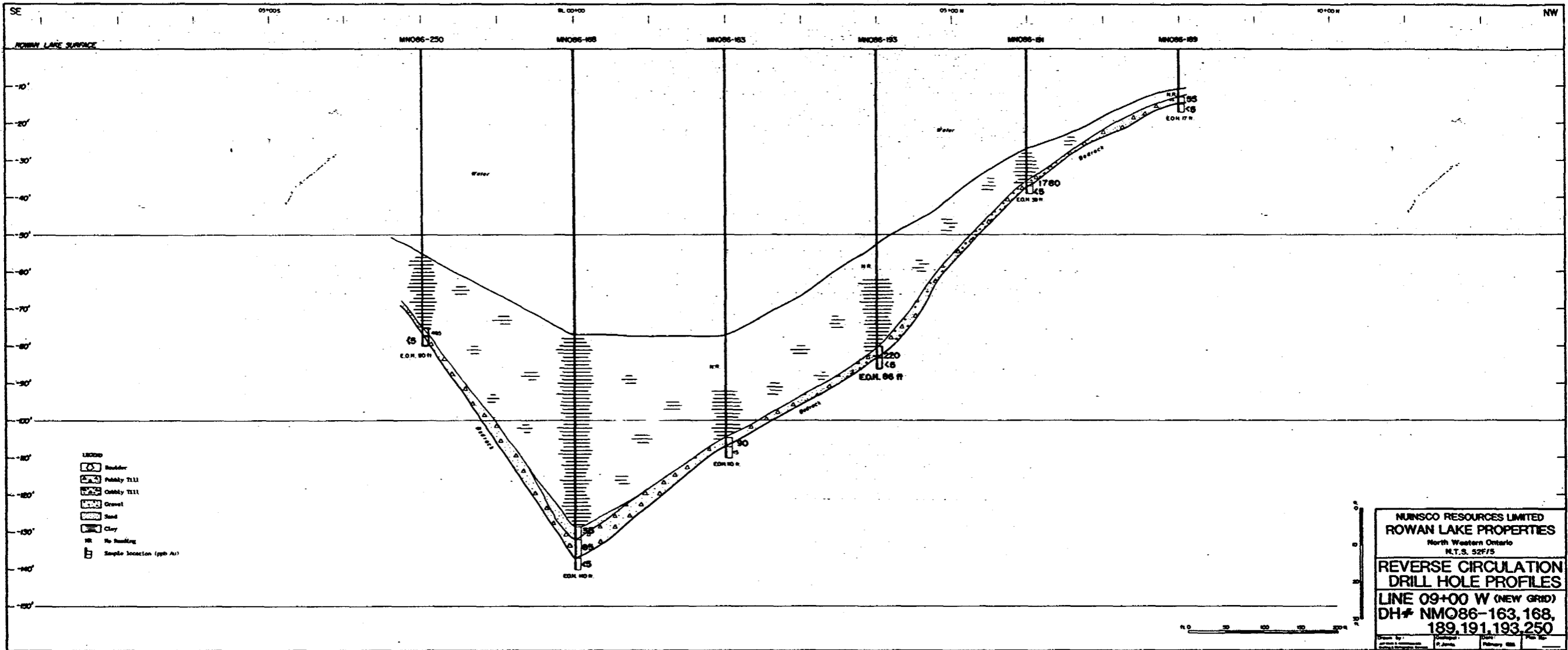


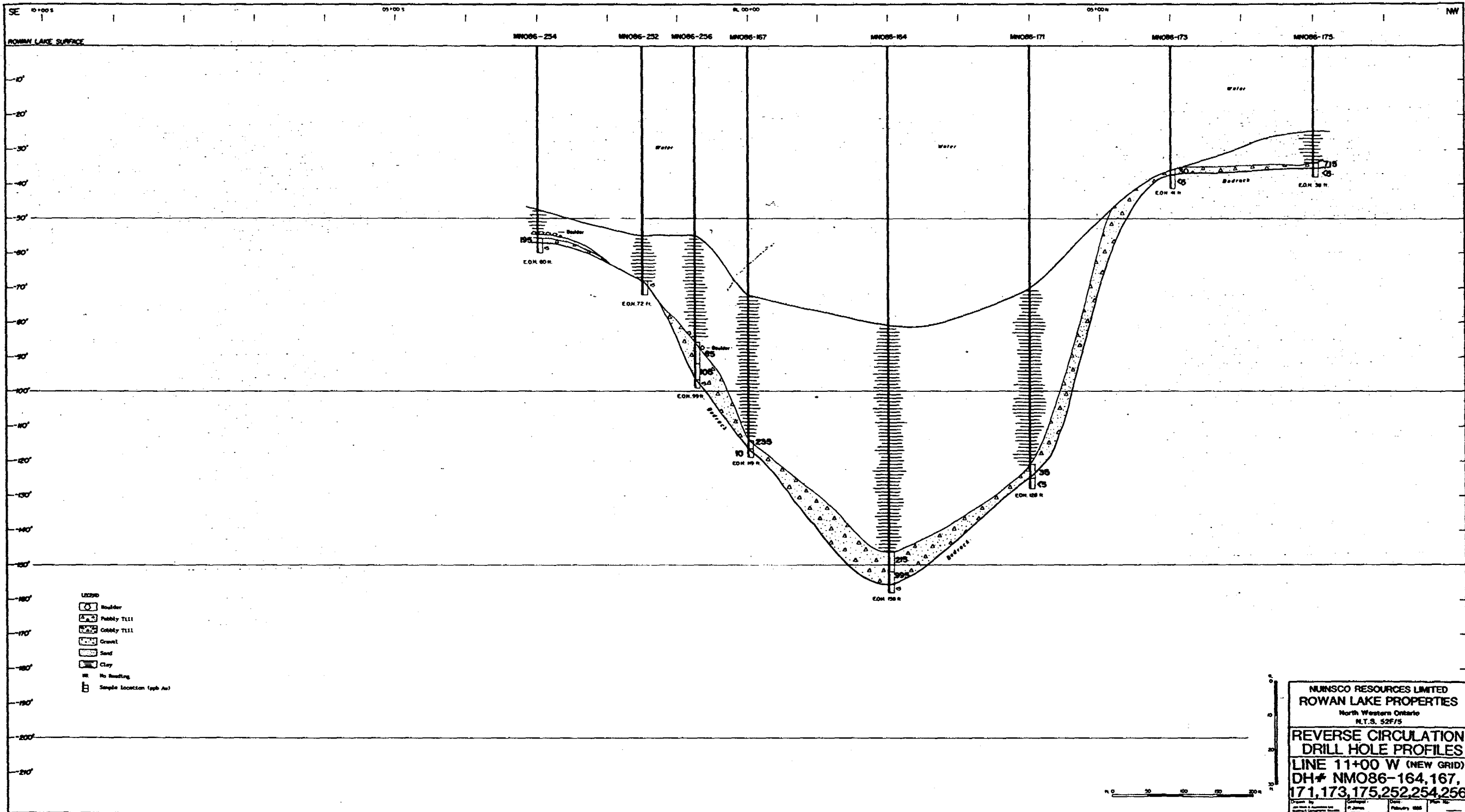












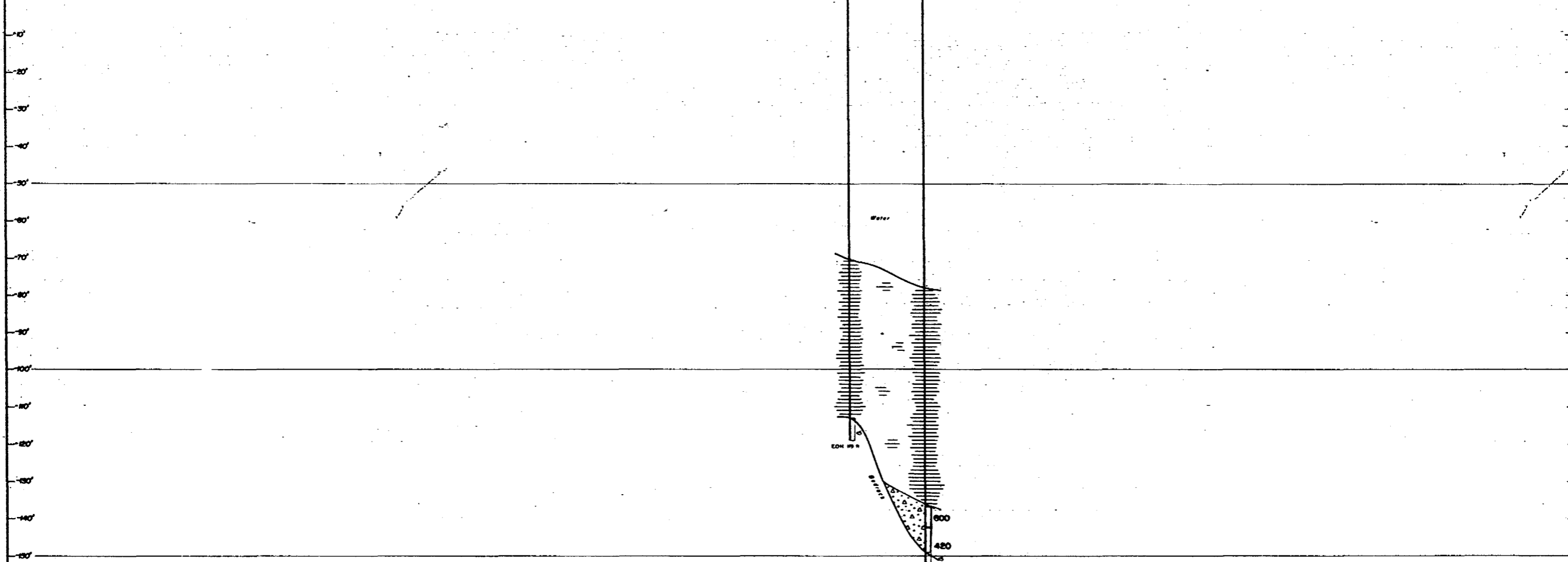
NUINSCO RESOURCES LIMITED
ROWAN LAKE PROPERTIES
 North Western Ontario
 N.T.S. 52F/5

**REVERSE CIRCULATION
 DRILL HOLE PROFILES**
 LINE 11+00 W (NEW GRID)
 DH# NMO86-164, 167,
 171, 173, 175, 252, 254, 256

Drawn by: []
 Checked by: []
 Date: February 1985

SE 10+00 05+000 BL 00+00 05+000 NW

ROWAN LAKE SURFACE



- LEGEND**
- Boulder
 - Pebbly Till
 - Cobble Till
 - Gravel
 - Sand
 - Clay
 - No Sampling
 - Sample Location (ppb Au)

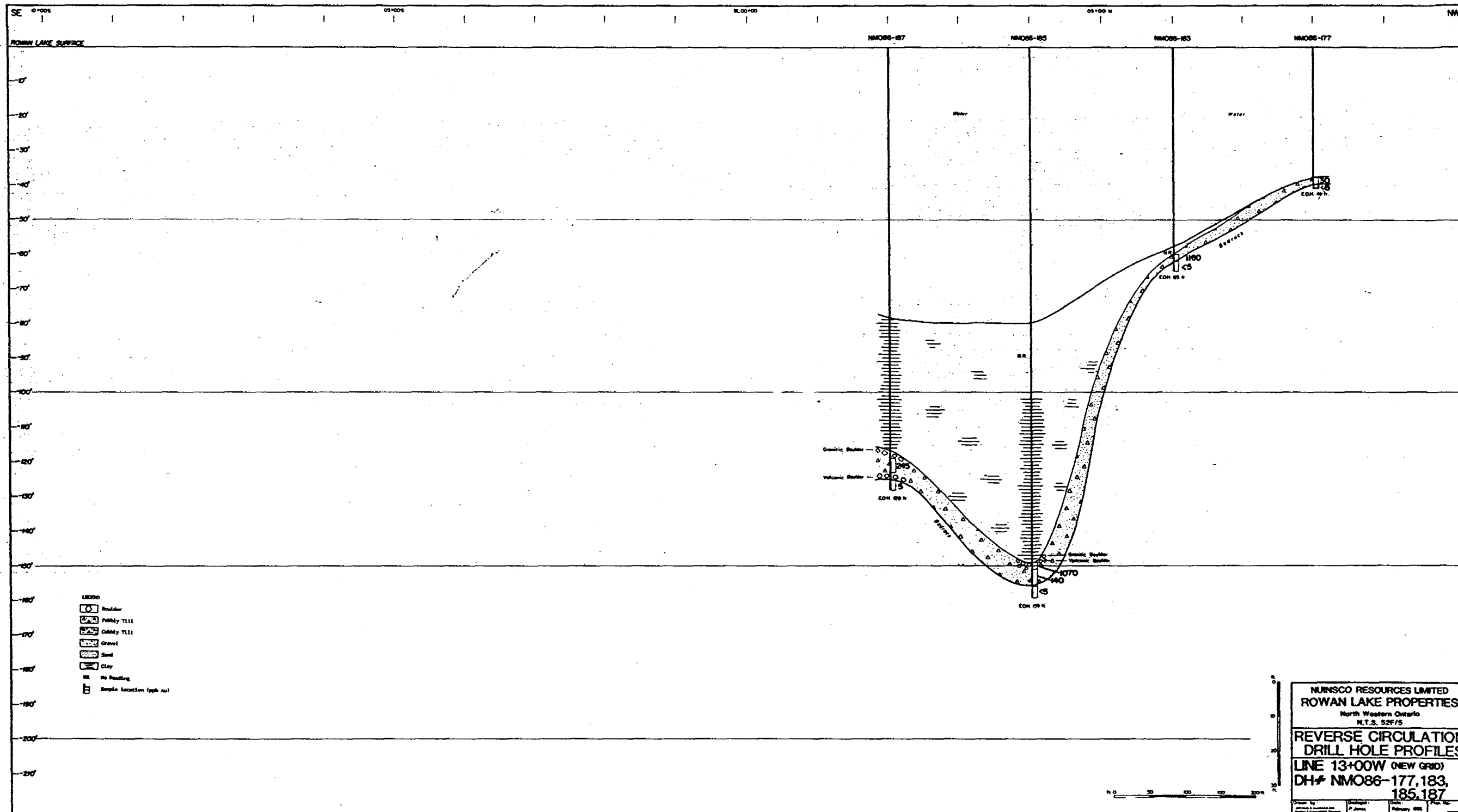
MUNSCO RESOURCES LIMITED
ROWAN LAKE PROPERTIES
 North Western Ontario
 N.T.S. 52F/5

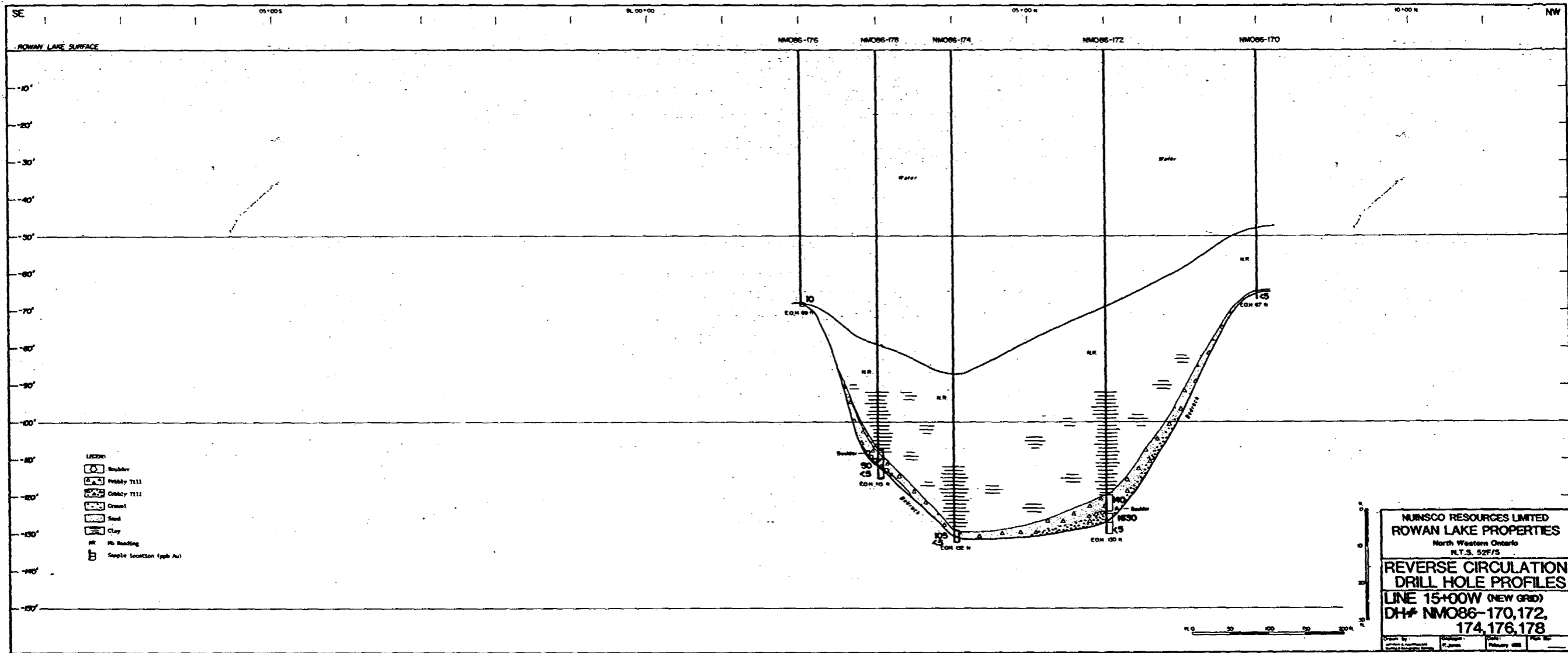
**REVERSE CIRCULATION
 DRILL HOLE PROFILES**

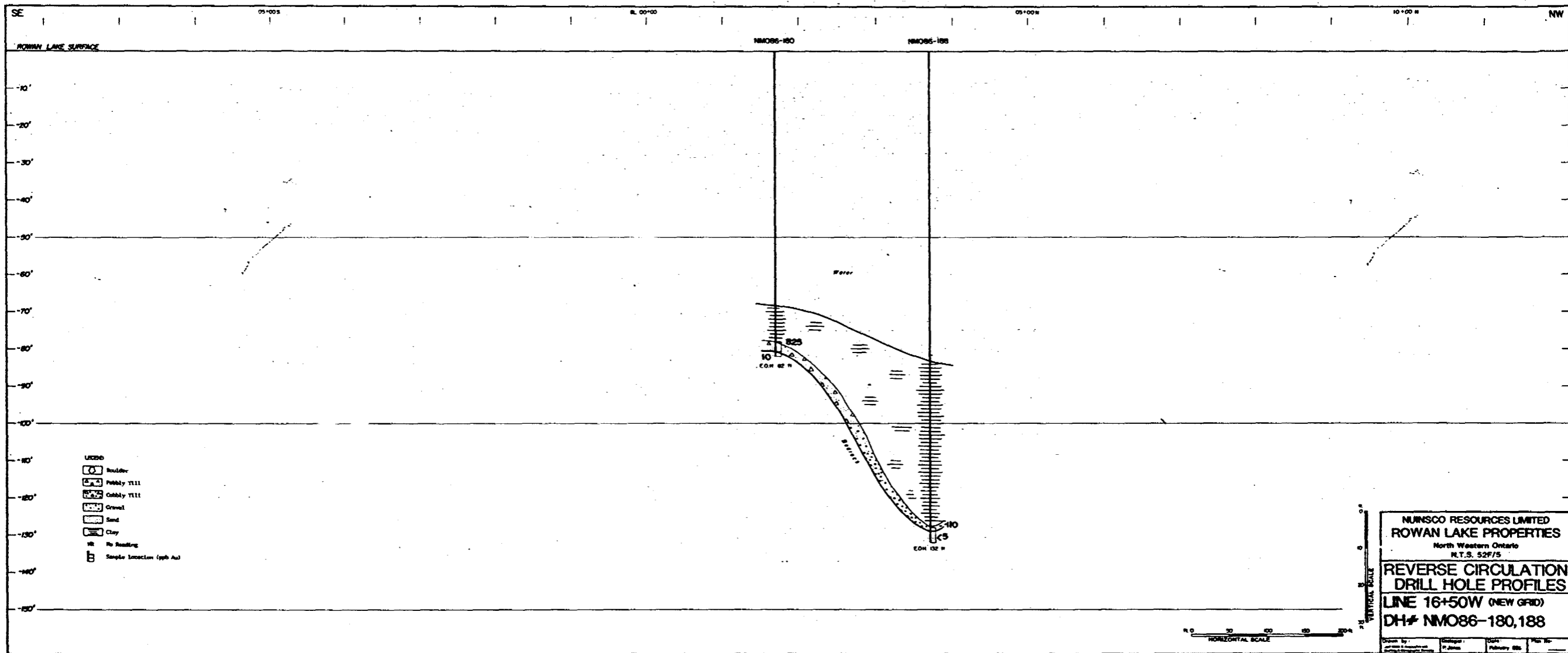
LINE 12+20W (NEW GRID)
DH# NMO86-165, 166

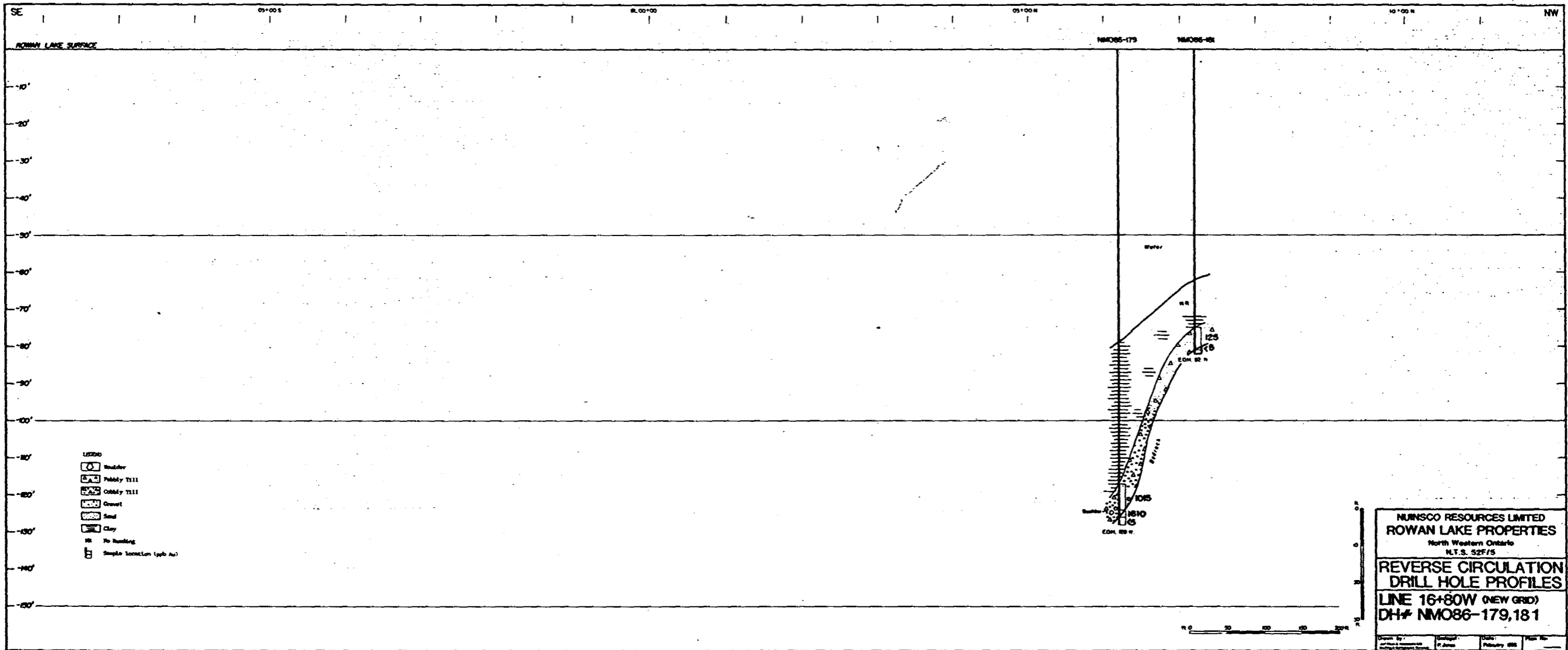
Drawn by: P. Jones Date: February 1986

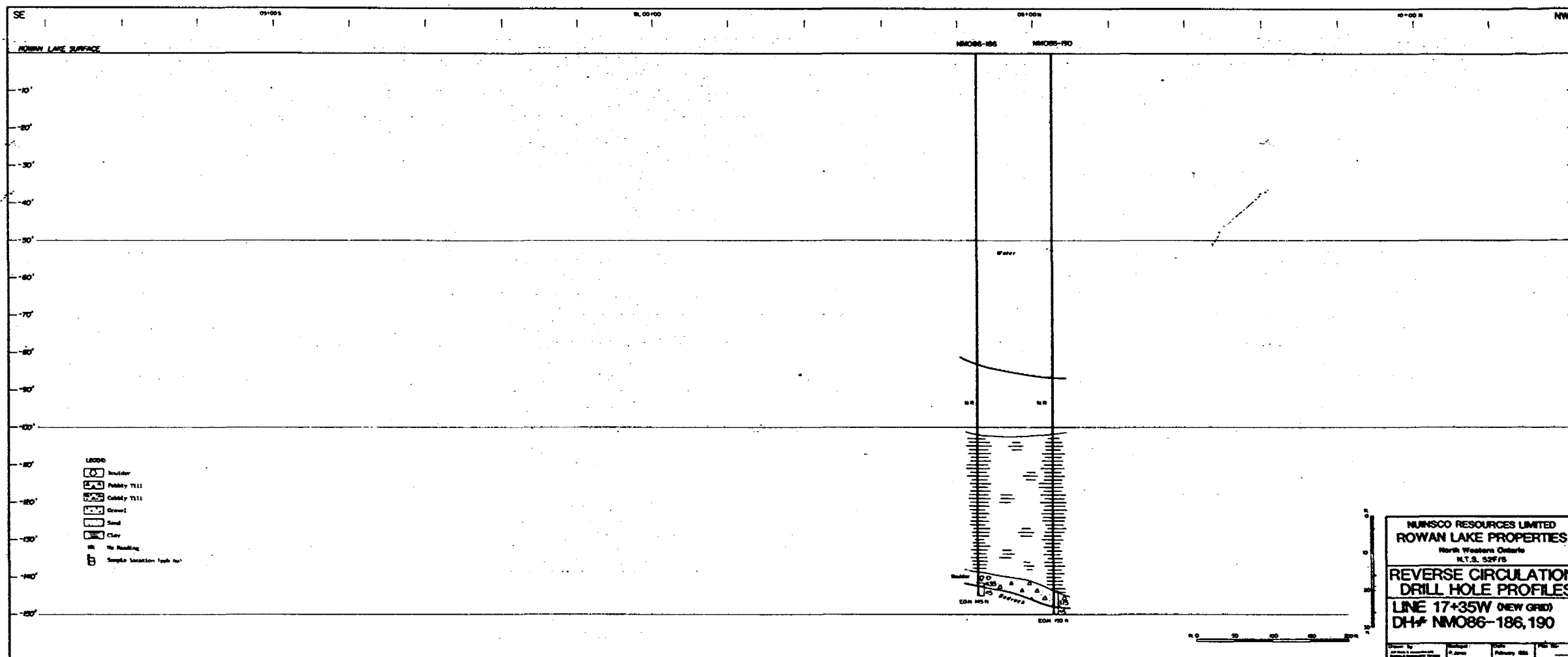


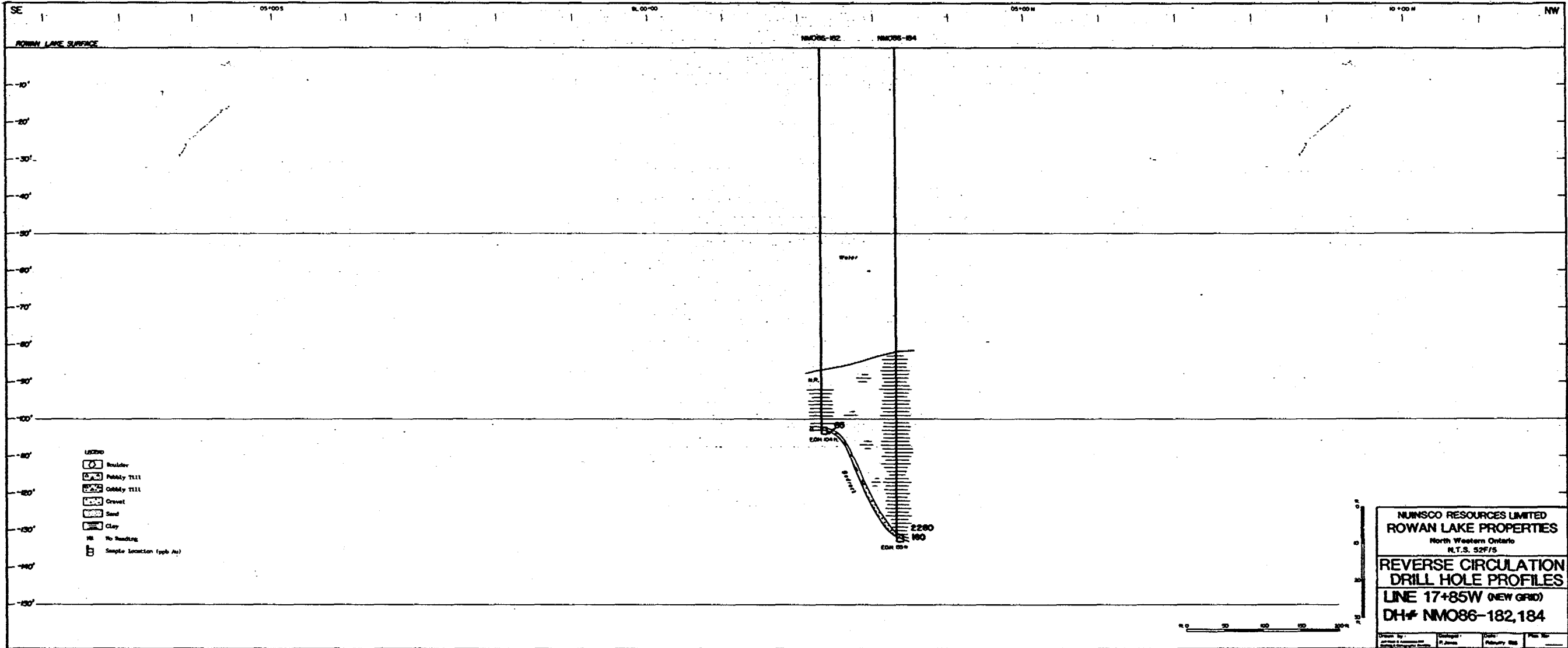


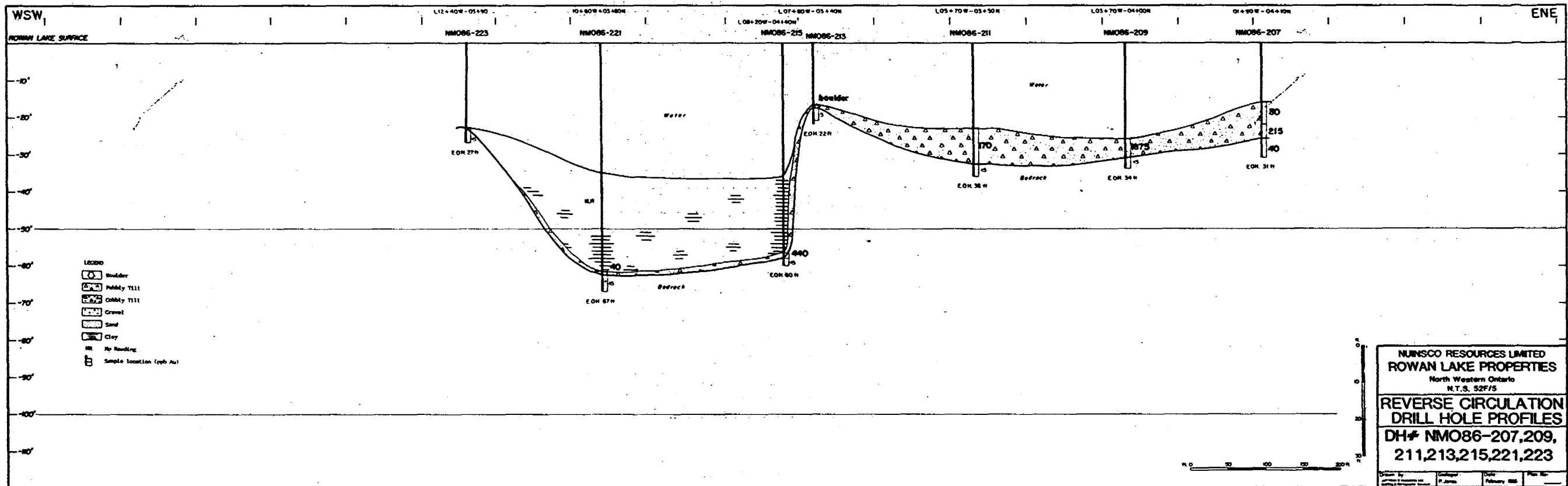


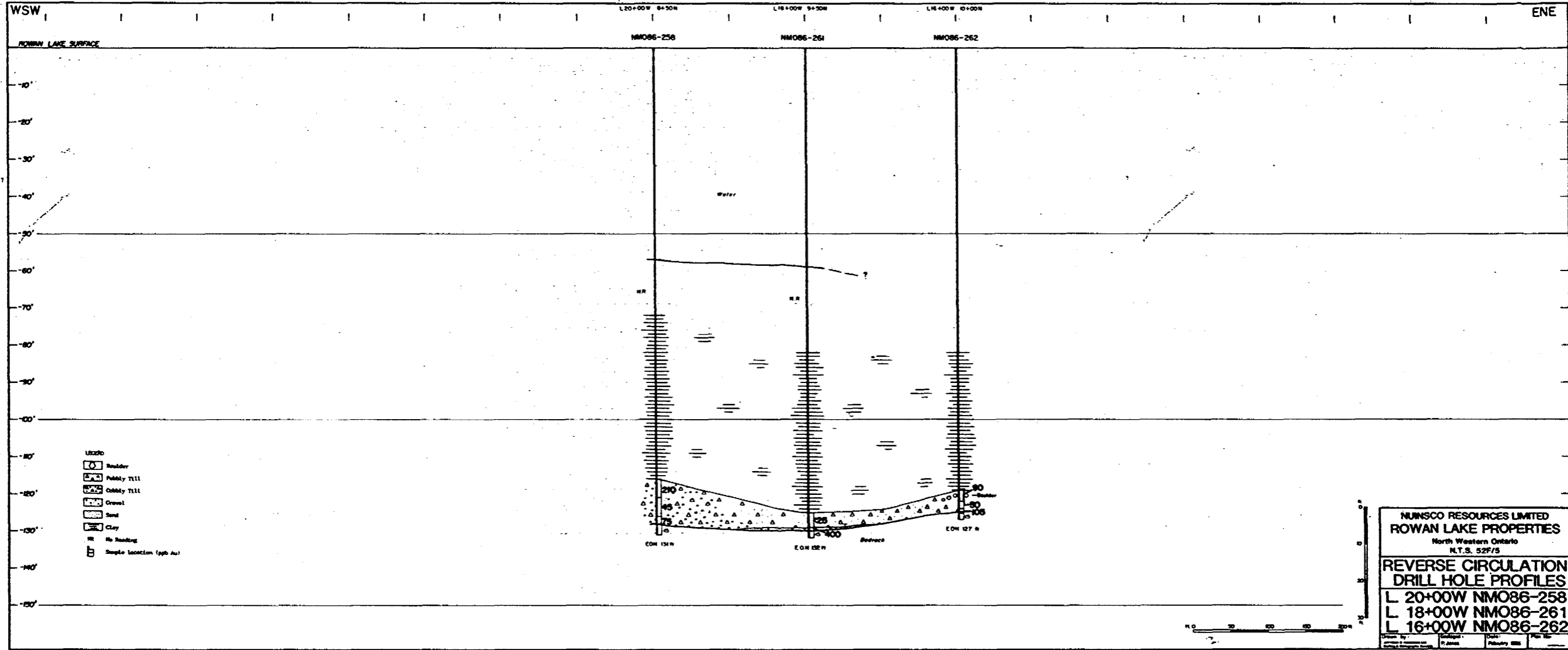


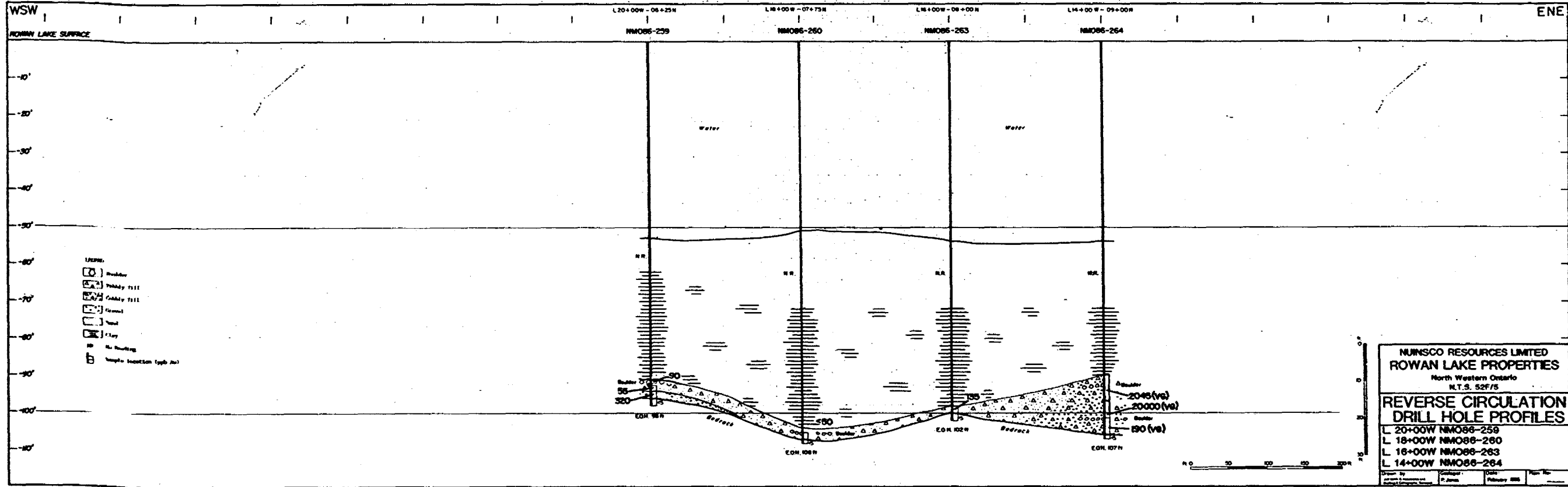




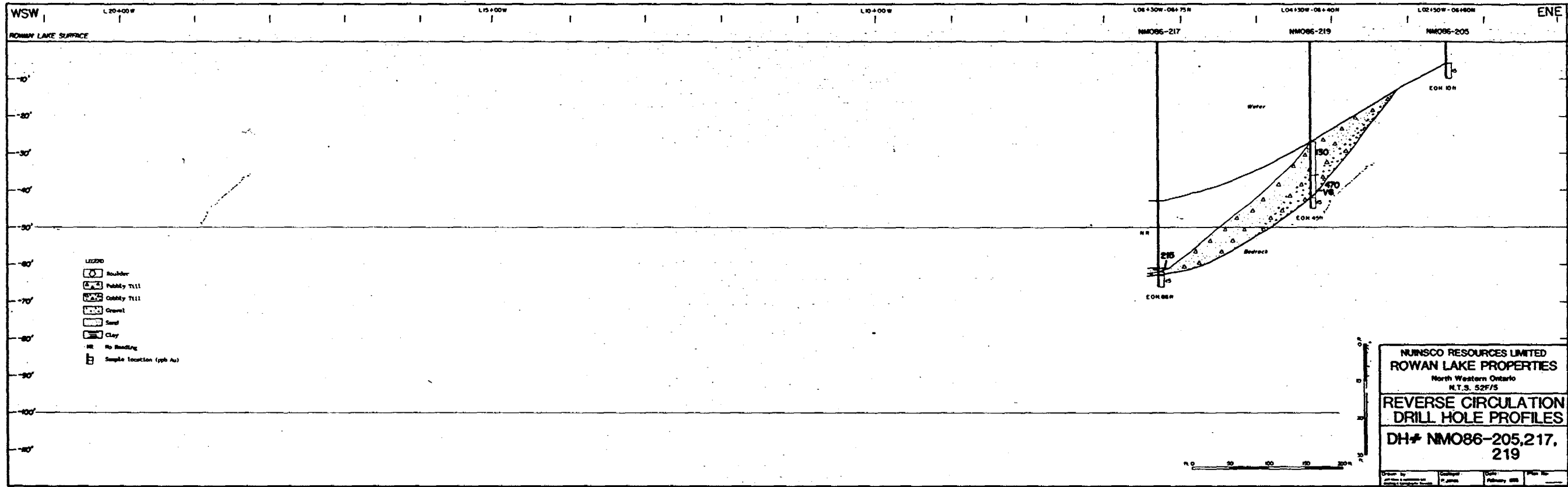


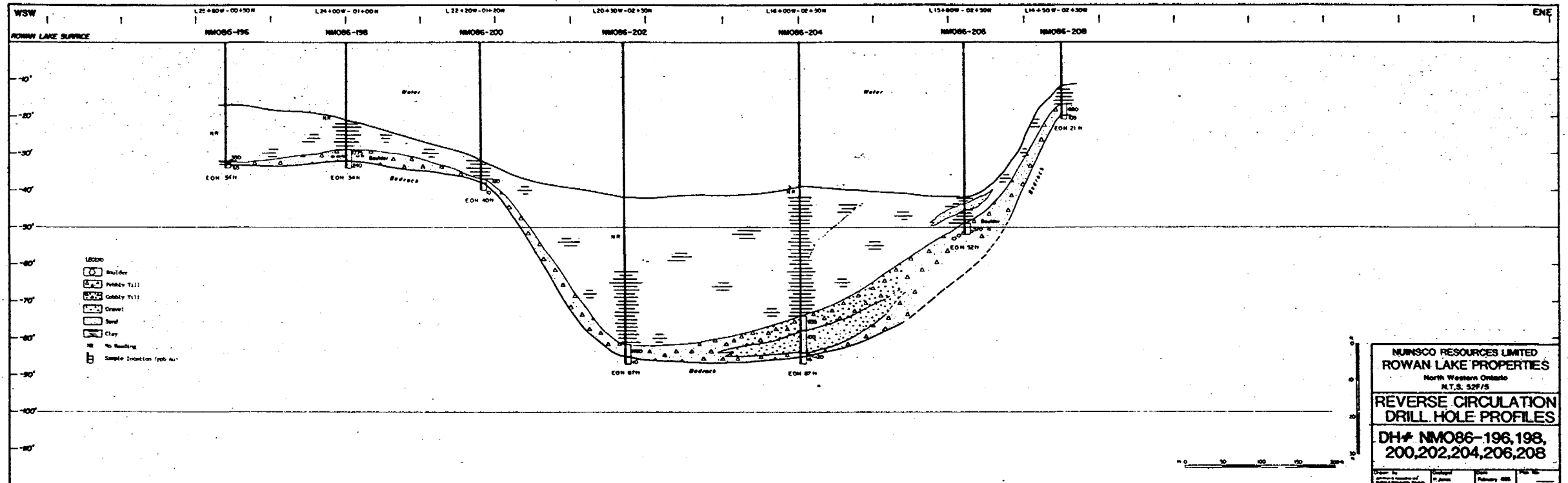






MUNSCO RESOURCES LIMITED
 ROWAN LAKE PROPERTIES
 North Western Ontario
 N.T.S. 52F/5
**REVERSE CIRCULATION
 DRILL HOLE PROFILES**
 L 20+00W NMO86-259
 L 18+00W NMO86-260
 L 16+00W NMO86-263
 L 14+00W NMO86-264





NUNSCO RESOURCES LIMITED
 ROWAN LAKE PROPERTIES
 North Western Ontario
 N.T.S. 52F/5
**REVERSE CIRCULATION
 DRILL HOLE PROFILES**
 DH# NMO86-196, 198,
 200, 202, 204, 206, 208

OVERBURDEN DRILLING MANAGEMENT LIMITED
REVERSE CIRCULATION DRILL HOLE LOG

DATE JAN 15 1986

HOLE NO NMO-86-01 LOCATION L14400 W B/L
GEOLOGIST R. HUNEAU DRILLER GUY FORTIN BIT NO. 1000309 BIT FOOTAGE 0-30.0

SHIFT HOURS
_____ TO _____

MOVE TO HOLE _____
DRILL 9:00 - 10:45

TOTAL HOURS _____

MECHANICAL DOWN TIME _____

CONTRACT HOURS _____

DRILLING PROBLEMS _____

OTHER _____

MOVE TO NEXT HOLE _____

DEPTH IN FEET	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
				ICE THICKNESS = 17 inches water DEPTH = 11 feet
				11.0 - 23.0 Clay - no return from 11.0 to 15.0 - from 15.0 clay is grey, soft and smooth.
			01	23.0 - 27.0 Gravel - beige medium sand matrix. - pebbly, 60-70% granitic 30-40% v/s - thin oxidized bed at 26.0
			02	
				27.0 - 30.0 Bedrock - fine grain - medium grey color - hard, partly silicified - 1% quartz veining - trace very fine dissem. py. - well foliated to weakly schistose.
				30.0 E.O.H.

OVERBURDEN DRILLING MANAGEMENT LIMITED
 REVERSE CIRCULATION DRILL HOLE LOG

DATE JAN 15 19 86 HOLE NO NMO-86-02 LOCATION L14+00 W 2400 N
 GEOLOGIST R. HUNEAULT DRILLER G. FORTIN BIT NO. 1000 309 BIT FOOTAGE 30.0-52
 SHIFT HOURS _____ MOVE TO HOLE 10:45-11:00
 _____ TO _____ DRILL 11:00-12:00
 TOTAL HOURS _____ MECHANICAL DOWN TIME _____
 _____ DRILLING PROBLEMS _____
 CONTRACT HOURS _____ OTHER _____
 _____ MOVE TO NEXT HOLE _____

DEPTH IN FEET	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
				ICE THICKNESS = 17" WATER DEPTH = 14 feet
				14.0 thin layer of grey-green clay. Clay is soft & smooth.
20			01	
			02	14.6 - 17.5 Till - fine sand grey beige matrix - pebbly → 50% granitics 50% volcanic/sediments
				17.5 - 22.0 Bedrock - fine grain - medium green - schistose - intermediate volcanic - no sulphides.
				22.0 E.O.H.
40				
60				
80				

R. Huneault

OVERBURDEN DRILLING MANAGEMENT LIMITED
REVERSE CIRCULATION DRILL HOLE LOG

DATE JAN 15 19 86

SHIFT HOURS
_____ TO _____

TOTAL HOURS

CONTRACT HOURS

HOLE NO NMO-86-03 LOCATION L 14400 W 4400 N
GEOLOGIST R. HUNEAULT DRILLER G. FORTIN BIT NO. 1000309 BIT FOOTAGE 52.0-78.



MOVE TO HOLE 12:00-12:15
DRILL 12:15-12:45

MECHANICAL DOWN TIME _____

DRILLING PROBLEMS _____

OTHER _____

MOVE TO NEXT HOLE _____

DEPTH IN FEET	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG						
				ICE THICKNESS = 17" WATER DEPTH = 21 feet						
20				21.0-21.5 Gravel? - few granitic pebbles in return. NO matrix. - all the sample being blown away.						
			01	21.5-26.0 Bedrock. - fine grain - pale green - very schistose (sheared) - soft, chloritized - chlorite / sericite schist - no sulphides.						
40										
60										
80										

R. Huneault

OVERBURDEN DRILLING MANAGEMENT LIMITED
 REVERSE CIRCULATION DRILL HOLE LOG

DATE JAN 15 1986 HOLE NO NMO-86-04 LOCATION L 14+00 W 6+00 N
 GEOLOGIST R. HUNEAULT DRILLER G. FORTIN BIT NO. 1000309 BIT FOOTAGE 78.0-150
 SHIFT HOURS _____ TO _____ MOVE TO HOLE 12:45-1:00
 TOTAL HOURS _____ DRILL 1:00-3:00
 CONTRACT HOURS _____ MECHANICAL DOWN TIME _____
 _____ DRILLING PROBLEMS _____
 _____ OTHER _____
 _____ MOVE TO NEXT HOLE _____

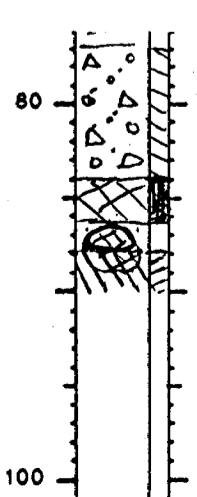
DEPTH IN FEET	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
				ICE THICKNESS = 19" WATER DEPTH = 50 Feet CASING (HW) set to 53 feet
20				50.0-69.5 Clay - From 50.0-66.5 no resistance and no return when lowering rods. Upon pulling out, clay coating around the rods suggests: smooth, soft, water saturated grey green clay gradually grading into a slightly more compact chocolate brown clay. - From 66.5-69.5 intermittent return of clay. Clay is smooth, soft, chocolate brown color.
60				69.5-72.0 Bedrock - fine grain - medium to pale green - very schistose (almost phyllitic) - chlorite/sericite schist.
80				

OK

OVERBURDEN DRILLING MANAGEMENT LIMITED
 REVERSE CIRCULATION DRILL HOLE LOG

DATE JAN 15 1986 HOLE NO NMO-86-05 LOCATION L 14400 W 8400 N
 GEOLOGIST R. HUNEAULT DRILLER G. FORTIN BIT NO. 1000309 BIT FOOTAGE 150.0
 SHIFT HOURS _____ TO _____ MOVE TO HOLE 3:00 - 3:15
 TOTAL HOURS _____ DRILL 3:15 - 5:30
 MECHANICAL DOWN TIME _____
 DRILLING PROBLEMS _____
 CONTRACT HOURS _____ OTHER TRAVEL: 6:00 - 6:30
 MOVE TO NEXT HOLE 5:30 - 6:00

DEPTH IN FEET	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
				ICE THICKNESS = 19" WATER DEPTH = 52 Feet CASING (HW) set to 53 feet
20				
40				52.0-77.0 Clay - grey green gradually grading to chocolate brown color. - smooth, soft - from 65.0 clay becomes more compact. Color goes to medium grey
60				77.0-88.0 Till - from 77.0 to 81.0 matrix scarce. poor return. - from 81.0 to 84.0 till has grey fine sand matrix, pebbly 70% 1/8 30% granitics - from 86.5-88.0 bouldery



section. Mainly chips from
 granitic boulder. Coarse
 grain, white speckled black,
 probably diorite.

88.0-92.0 Bedrock:
 - medium to dark green color
 - medium grain, intrusive
 - well foliated
 - gabbro

Jim Huneault

OVERBURDEN DRILLING MANAGEMENT LIMITED
 REVERSE CIRCULATION DRILL HOLE LOG

DATE JAN 16 19 86 HOLE NO NMO-86-07 LOCATION L20+00W 2+00N
 GEOLOGIST A. BOORDA DRILLER G. FORTIN BIT NO. 1000309 BIT FOOTAGE 256-325
 SHIFT HOURS _____ MOVE TO HOLE 9:15 - 9:30
 _____ TO _____ DRILL 9:30 - 11:05
 TOTAL HOURS _____ MECHANICAL DOWN TIME _____
 _____ DRILLING PROBLEMS _____
 CONTRACT HOURS _____ OTHER _____
 _____ MOVE TO NEXT HOLE _____

DEPTH IN FEET	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
0				ice thickness - 20 inches water depth - 36 feet casing set to 33 feet (HW)
20				
40				36-60' Clay 36-52' no return at 52' pale green clay contact unsure - smooth, soft followed by chocolate brown clay 52-60' - less water saturated, firmer
60				60-61' Till - poor return → no sample - intermittent fine sand with few pebbles
80				61-66' Bedrock - schistose - pale green and white flakes - chips from 2 to 5 mm

M

OVERBURDEN DRILLING MANAGEMENT LIMITED
REVERSE CIRCULATION DRILL HOLE LOG

DATE 16 JAN. 1986

HOLE NO NMO-86-08 LOCATION L20+00W 4+00N
GEOLOGIST SHANNON DRILLER FORTIN BIT NO. 1000309 BIT FOOTAGE 322-397

SHIFT HOURS
TO

MOVE TO HOLE 11:00-11:15
DRILL 11:15-12:45

TOTAL HOURS

MECHANICAL DOWN TIME

CONTRACT HOURS

DRILLING PROBLEMS

OTHER

MOVE TO NEXT HOLE

DEPTH IN FEET	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
0	W			16" ice
43	W			43' water
86	W			43' casing
43-59	W			Clay - 43-59 - No return from 43-52 - clay was green thru brown, 52-59
59-70.5	W			Till - 59-70.5 - grey fine sand matrix - 50% v/s 50% Granitics } pebbly
70.5-75	▲			Bedrock - 70.5-75 - mostly green volcanic flakes with about 15% white - as NMO-86-07
75-80	▲	01		
80-85	▲	02		

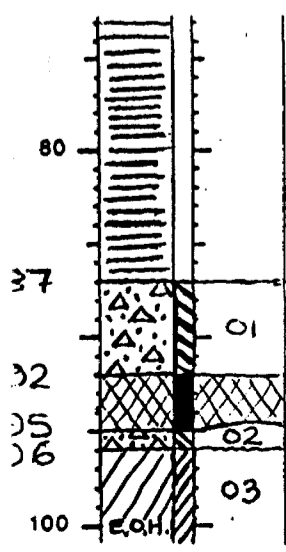
James Green

OVERBURDEN DRILLING MANAGEMENT LIMITED
REVERSE CIRCULATION DRILL HOLE LOG

DATE JAN. 16 19 86 HOLE NO NMD-86 09 LOCATION L 20 + 00W 600 N
 GEOLOGIST BLISS DRILLER FORTIN BIT NO. 1000309 BIT FOOTAGE 397-497
 SHIFT HOURS _____ MOVE TO HOLE 12:45 - 1:00 p.m.
 _____ TO _____ DRILL 1:00 - 3:15 p.m.
 TOTAL HOURS _____ MECHANICAL DOWN TIME N/A
 _____ DRILLING PROBLEMS N/A
 CONTRACT HOURS _____ OTHER _____
 _____ MOVE TO NEXT HOLE _____

DEPTH IN FEET	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
0				48 ft WATER 19 inches ICE 53 ft CASING (HW)
20				
40				
48				48 to 87 ft CLAY - NO RETURN FROM 48 to 72 ft.] CONTACT GRADUAL (IS NOT APPARENT). SOFT SATURATED (WATER) GRAY. - RETURN FROM 72 to 87 ft A GRAY-GREEN SOFT SMOOTH CLAY WAS RETURNED NOTE: THE LAST FEW FEET WERE A LITTLE SILTY.
60				
72				

Matthew Bliss.



87 to 96 ft. TILL
 - SILTY SOME CLAY (AS ABOVE)
 - PEBBLY CLAST COMPOSITION
 50-60% GRANITIC
 40-50% VOLCANIC
 - FINE SANDY MATRIX (GRAY)
 96 to 100 ft. BEDROCK
 (4 ft of BEDROCK SAMPLED)
 - GREEN SCHISTOSE GREEN (FLAKY)

NOTE: BOULDER FOUND AT 92 ft. - BROKE THROUGH AT 95 ft. THEN ANOTHER FOOT OF TILL WAS RETURNED. BOULDER RETURNED WHITE & BLACK SILICIOUS CUTTINGS (UP TO 40% (50%) QUARTZ)

OVERBURDEN DRILLING MANAGEMENT LIMITED
 REVERSE CIRCULATION DRILL HOLE LOG

DATE JAN. 16 / 1986 HOLE NO NM0-86-10 LOCATION L20 + 00W 800N
 GEOLOGIST _____ DRILLER FORTIN BIT NO. 1000309 BIT FOOTAGE 497-606
 SHIFT HOURS _____ MOVE TO HOLE 3:15 - 3:30
 _____ TO _____ DRILL 3:30 - 5:45
 TOTAL HOURS _____ MECHANICAL DOWN TIME _____
 _____ DRILLING PROBLEMS _____
 CONTRACT HOURS _____ OTHER TRAVEL 5:45 - 6:15
 _____ MOVE TO NEXT HOLE _____

DEPTH IN FEET	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
				ICE THICKNESS = 19" WATER DEPTH = 57 feet CASING (HW) set to 63 feet
20				57' - 93' CLAY - 57 feet to 82 feet no return - 82 feet to 93 feet brown and grey clay soft and smooth.
40				93' - 98' TILL first sample - 93 feet to 97 feet (10-01) fine sand matrix, grey in color slightly pebbly with 50% Vol. second sample - 97 feet to 98 feet (10-02) more cobbly 70% Vol.
80				98' BEDROCK - Foliated mafic Vol. 103 feet E.O.H.
100			01 02	
				E.O.H. 103'

OVERBURDEN DRILLING MANAGEMENT LIMITED
REVERSE CIRCULATION DRILL HOLE LOG

DATE 17 JAN. 1986

HOLE NO NMO-86-11 LOCATION L26 400N
GEOLOGIST SHANNON DRILLER FORTIN BIT NO. 1000309 BIT FOOTAGE 600-64

SHIFT HOURS
TO

MOVE TO HOLE 8:00 - 8:15
DRILL 8:15 - 8:45 - 9:15 - 10:00

TOTAL HOURS

MECHANICAL DOWN TIME 8:45 - 9:15 compressor wouldn't start

CONTRACT HOURS

DRILLING PROBLEMS

OTHER

MOVE TO NEXT HOLE

DEPTH IN FEET	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
0				17" ICE
3				31' WATER
33				33' CASING
33				Till - 33-38
33				- matrix - fine grey sand
33				- pebbly
33				- 30% granitoid
33				- 20% volcanic
38				BEDROCK - 38-42
38				- quite platy
38				- 100% volcanic
38				- Hit a vein of carbonate ~ 4"
38			01	
38			02	
40				
60				
80				

James Shannon

**OVERBURDEN DRILLING MANAGEMENT LIMITED
REVERSE CIRCULATION DRILL HOLE LOG**

DATE JAN 17 19 86 HOLE NO NMO-86-12 LOCATION L 26 200N
 GEOLOGIST BLISS DRILLER FORTIN BIT NO. 1000309 BIT FOOTAGE 642.69
 SHIFT HOURS _____ MOVE TO HOLE 10:00 - 10:15 a.m.
 _____ TO _____ DRILL 10:15 - 11:00 a.m.
 TOTAL HOURS _____ MECHANICAL DOWN TIME _____
 _____ DRILLING PROBLEMS N/A
 CONTRACT HOURS _____ OTHER _____
 _____ MOVE TO NEXT HOLE _____

DEPTH IN FEET	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
				ICE THICKNESS 19" WATER DEPTH 26'
20				26-32 ft. NO RETURN ASSUME THAT IT IS A SATURATED SOFT SMOOTH BROWN CLAY.
				32 ft. CLAY - BROWN THEN GRAY/GREEN SMOOTH AND SOFT.
40			01	40 ft SILTY TILL (SOME CLAY) PEBBLY, FINE SANDY GRAY/GREEN MATRIX
			02	47 ft. COBBLY TILL SOME GRAY/GREEN MATRIX (AS ABOVE)
			03	- 70% VOLCANIC - 30% GRANITIC
60				49 ft. BEDROCK - GREEN SCHISTOSE - 51.5 ft BROWNISH RED BEDROCK CONTAMINATION (OXIDATION DUE TO FRACTURE?) - 52 ft. GREEN SCHISTOSE BEDROCK AGAIN.
80				NOTE: 44-47 ft BOULDER WHITE AND BLACK CUTTINGS RETURNED SUGGESTING SILICIOUS (HIGH QUARTZ CONTENT)
100				<i>Matthew Bliss</i>

OVERBURDEN DRILLING MANAGEMENT LIMITED
REVERSE CIRCULATION DRILL HOLE LOG

DATE 17 JAN. 1986

HOLE NO NMO-86-13 LOCATION L26 BL (35ft E. of h26)
GEOLOGIST SHANNON DRILLER FORTIN BIT NO. 1000309 BIT FOOTAGE 694-734

SHIFT HOURS
_____ TO _____

MOVE TO HOLE 11:00 - 11:15 A.M.
DRILL 11:15 - 12:00 A.M.

TOTAL HOURS

MECHANICAL DOWN TIME _____

CONTRACT HOURS

DRILLING PROBLEMS _____

OTHER _____

MOVE TO NEXT HOLE _____

DEPTH IN FEET	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
0				17" ICE
3	3			19' WATER
6	3			
9	3			CLAY - 19-36
12	3			NO RETURN - 19-36
15	3			
18	3			
20				Till - 36-37
22				- fine grey sand matrix
24				- pebbly
26				- 90% volcanic
28				- 10% granitic
30			01	
32			02	
34				BEDROCK - 37-40
36				- 100% volcanic
38				- very platy
40				- occasional white piece
42				- occasional oxidized piece
44				
46				
48				
50				
52				
54				
56				
58				
60				
62				
64				
66				
68				
70				
72				
74				
76				
78				
80				

James Shannon

OVERBURDEN DRILLING MANAGEMENT LIMITED
 REVERSE CIRCULATION DRILL HOLE LOG

DATE JAN 17 1986

HOLE NO NMD-86-14 LOCATION L 26W 6+00N

SHIFT HOURS
 _____ TO _____

GEOLOGIST DAVE J. DRILLER G. FORTIN BIT NO. 1000309 BIT FOOTAGE 734'-80'
 MOVE TO HOLE 12:00 - 12:15
 DRILL 12:15 - 1:45

TOTAL HOURS

MECHANICAL DOWN TIME _____

CONTRACT HOURS

DRILLING PROBLEMS _____

OTHER _____

MOVE TO NEXT HOLE _____

DEPTH IN FEET	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG						
				WATER DEPTH 46' CASING DEPTH 53'						
20										
40										
				46' - 52' NO RETURN						
60				52' - 61' chocolate brown clay mixed with firm grey clay, followed by firm grey clay						
			01	61' - 69' pebbly gravel coarse sandy matrix with fine sandy matrix intermittently						
			02	70% granitics						
			03	30% volcanics						
80				69' - 72' bedrock - strongly foliated light green, silicified mafic volcanic v. fine grained (ophanitic)						
				72' EOH						

OVERBURDEN DRILLING MANAGEMENT LIMITED
 REVERSE CIRCULATION DRILL HOLE LOG

DATE Jan 17 1986 HOLE NO. 15 LOCATION L 26+00 W 8+35 N
 GEOLOGIST R. OPIA DRILLER G. FORTIN BIT NO. 1200309 BIT FOOTAGE 806-908
 SHIFT HOURS _____ MOVE TO HOLE 1:45-2:10
 TO _____ DRILL 2:10-3:30
 TOTAL HOURS _____ MECHANICAL DOWN TIME _____
 CONTRACT HOURS _____ DRILLING PROBLEMS _____
 OTHER _____
 MOVE TO NEXT HOLE _____

DEPTH IN FEET	GRAPHIC LOG	SAMPLE NO.	DESCRIPTIVE LOG
			ICE THICKNESS - 20" WATER DEPTH - 49' CASING SET TO - 53'
20			
40			49-92.5' CLAY 49-72' no return at 72' green clay - very soft, smooth followed by chocolate brown clay from 72-90' - less water saturated
60			
80			90-92.5' green clay - firm layer of clay
			92.5 - 99' TILL - cobbly - fine matrix, grey sand - 50:50 granitics:volcanics
100		01	99 - 102' BED ROCK - pale green - schistose - medium matrix - white flakes
		02	

OVERBURDEN DRILLING MANAGEMENT LIMITED
REVERSE CIRCULATION DRILL HOLE LOG

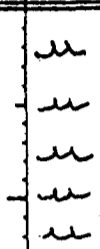
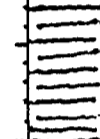
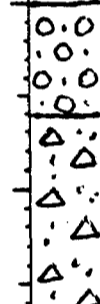



DATE JAN 17 19 86

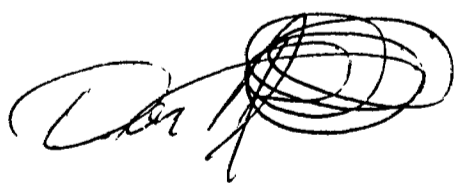
SHIFT HOURS
_____ TO _____

TOTAL HOURS

CONTRACT HOURS

HOLE NO NMO-86-16 LOCATION L 32400W 5100N
GEOLOGIST _____ DRILLER FORTIN BIT NO. 1000309 BIT FOOTAGE 908-95
MOVE TO HOLE 3:00 - 3:45
DRILL 3:45 - 4:45
MECHANICAL DOWN TIME _____
DRILLING PROBLEMS _____
OTHER _____
MOVE TO NEXT HOLE █

DEPTH IN FEET	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
				18' ICE THICKNESS 13' WATER DEPTH 13' to 18' NO RETURN
20				18'-20' CLAY - soft, smooth - gray in color
			01	
			02	20'-26' GRAVEL - coarse sand matrix - pebbly 50% Granitics 50% Vol.
40			03	26'-39' TILL - grey fine matrix - pebbly 60% Vol. 40% Granitics
				39'-42' BEDROCK - fine grain - schistose E.O.H.



OVERBURDEN DRILLING MANAGEMENT LIMITED
 REVERSE CIRCULATION DRILL HOLE LOG

DATE JAN 17 1986

HOLE NO NMD-86-17 LOCATION L 32 W 7+00 N

SHIFT HOURS
 TO

GEOLOGIST D. JAMIESON DRILLER G. FORTIN BIT NO 1000309 BIT FOOTAGE 950-92

TOTAL HOURS

MOVE TO HOLE 4:15 - 4:50
 DRILL 4:50 - 5:45

CONTRACT HOURS

MECHANICAL DOWN TIME
 DRILLING PROBLEMS

OTHER
 MOVE TO NEXT HOLE

DEPTH IN FEET	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
				13' WATER DEPTH
				2'-14' NO RETURN
10				
14				14' - thin layer of till, followed by a granitic boulder
20			01	TILL 15'-21' - till silty matrix, pebbly
			02	50% granitic 50% volcanics BEDROCK
				21'-24' strongly foliated, siliceous light green matrix volcanic, minor yellow sericite; no sulphides
40				24' EOH
				<i>D. Jamieson</i>
60				
80				

OVERBURDEN DRILLING MANAGEMENT LIMITED
 REVERSE CIRCULATION DRILL HOLE LOG

DATE JAN 18 19 86 HOLE NO NMO-86-18 LOCATION L 38+00 W 6+00 N
 GEOLOGIST X DRILLER FORTIN BIT NO. 1000309 BIT FOOTAGE 974-10
 SHIFT HOURS _____ MOVE TO HOLE 8:00 - 8:30
 _____ TO _____ DRILL 8:30 - 9:10
 TOTAL HOURS _____ MECHANICAL DOWN TIME 8:40 - 9:00 COMPRESSOR WOULD NOT START
 _____ DRILLING PROBLEMS _____
 CONTRACT HOURS _____ OTHER _____
 _____ MOVE TO NEXT HOLE _____

DEPTH IN FEET	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
				ICE THICKNESS 18 in. WATER DEPTH 10 ft.
				10'-22' NO RETURN
				CLAY 22' to 24' -soft and smooth -gray in color
20				
			SAMPLE NO. 01	BEDROCK 24' to 28' -dark green -strongly foliated -mafic vol. -10% quartz
				E.O.H
40				
60				
80				

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OVERBURDEN DRILLING MANAGEMENT LIMITED
REVERSE CIRCULATION DRILL HOLE LOG

DATE JAN 18 19 86 HOLE NO NMO-86-19 LOCATION L44W 67CON
 GEOLOGIST D. JAMIESON DRILLER FORTIN BIT NO. 1080309 BIT FOOTAGE 1002-104
 SHIFT HOURS _____ MOVE TO HOLE 9:10-9:15
 _____ TO _____ DRILL 9:15-10:00
 TOTAL HOURS _____ MECHANICAL DOWN TIME _____
 _____ DRILLING PROBLEMS _____
 CONTRACT HOURS _____ OTHER _____
 _____ MOVE TO NEXT HOLE _____

DEPTH IN FEET	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
				ICE THICKNESS = 17" WATER DEPTH 26'
20				26'-38' No Return
				CLAY - from 38'-40' soft, smooth brown and grey clays
40				GRAVEL 40'-40.5' coarse sandy matrix pebbly 50% gneiss 50% volcanic
			01	BEDROCK 40.5'-44' med green, strongly foliated mafic volcanic 5% milky white with yellow sericite alteration
60				
80				

D. Jamieson

OVERBURDEN DRILLING MANAGEMENT LIMITED
REVERSE CIRCULATION DRILL HOLE LOG

DATE JAN 18 19 26

SHIFT HOURS
_____ TO _____

TOTAL HOURS

CONTRACT HOURS

HOLE NO NMO-86-20 LOCATION L 44 W 8 + 20 N (moved 20' off road)
GEOLOGIST X DRILLER FORTIN BIT NO. 1000304 BIT FOOTAGE 1046-111
MOVE TO HOLE 10:00-10:05
DRILL 10:05-10:45
MECHANICAL DOWN TIME _____
DRILLING PROBLEMS _____
OTHER _____
MOVE TO NEXT HOLE _____

DEPTH IN FEET	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
				ICE THICKNESS 20in. WATER DEPTH 30ft.
				NO RETURN 30'-40'
				CLAY 40'-58' -soft and smooth -gray with brown mixed in sample
20				TILL 58'-61.5' -gray fine sand matrix mixed with pebbles
				BEDROCK 61.5'-64.5' -dark green -well foliated -mafic vol. -1% quartz
				E.O.H
60	△ △ △		sample 01	
	△ △		sample 02	
	E.O.H.			
80				

[Handwritten signature]

OVERBURDEN DRILLING MANAGEMENT LIMITED
REVERSE CIRCULATION DRILL HOLE LOG

DATE JAN 18 1986 HOLE NO NMO-86-21 LOCATION L 50W 4100S
 GEOLOGIST D. JAMIESON DRILLER FORTIN BIT NO. 1000309 BIT FOOTAGE 111-120
 SHIFT HOURS _____ MOVE TO HOLE 10:45-11:00
 _____ TO _____ DRILL 11:00-1:10
 TOTAL HOURS _____ MECHANICAL DOWN TIME _____
 _____ DRILLING PROBLEMS _____
 CONTRACT HOURS _____ OTHER _____
 _____ MOVE TO NEXT HOLE _____

DEPTH IN FEET	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
				WATER DEPTH 47' ICE THICKNESS 17" 54' CASING
20				
40				
60				47' - 62' No Return CLAYS 62' - 89' grey clay followed by chocolate brown clay followed by grey clay; all clay soft and smooth.

80				TILL ① 89'-96' fine grey sandy matrix; pebbly 70% volcanic 30% granitic ② 96'-98' fine grey sandy matrix cobbly 90% gabbro (gabbro boulder) some pebbles mainly granitic.
100				BEDROCK 98-101' dark green, coarse grained intrusive gabbro 101' EOH

David Jamieson

OVERBURDEN DRILLING MANAGEMENT LIMITED
REVERSE CIRCULATION DRILL HOLE LOG

DATE JAN 18 19 86 HOLE NO NMO-86-22 LOCATION L50 W · 2+00 S
 GEOLOGIST B.L.S. DRILLER G. FORTIN BIT NO. 1000304 BIT FOOTAGE 0-76
 SHIFT HOURS _____ MOVE TO HOLE 1:00 - 1:15 p.m.
 _____ TO _____ DRILL 1:15 - 2:30 p.m.
 TOTAL HOURS _____ MECHANICAL DOWN TIME _____
 _____ DRILLING PROBLEMS _____
 CONTRACT HOURS _____ OTHER _____
 _____ MOVE TO NEXT HOLE _____

DEPTH IN FEET	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG	New Bit!					
0				16" - ICE THICKNESS 41' - WATER DEPTH. 43' - CASING (WH).						
20	w			<i>Matthew Bliss</i>						
40	w									
	w				41-58 ft. NO RETURN. - ASSUMED TO BE SATURATED CLAYS (SOFT & SMOOTH).					
60					58-62 ft. CLAY - BROWN THEN GRAY/GREEN. - SOFT and SMOOTH.					
					63-69 ft. CLAY (SILTY) - SOFT; GRAY/GREEN; GRITTY.					
			01		69-73 ft. TILL (PEBBLY)					
			02		- FINE SILTY/SANDY LIGHT GRAY MATRIX.					
					• 70-80% VOLCANICS. • 20-30% GRANITICS.					
					73-76 ft. BEDROCK. GREEN SCHISTOSE					
					74 ft PYRITE TRACES (small cubes) (75 ft higher Carbonate Content) (→ lighter green schistose)					
100				76 ft EOH.						

OVERBURDEN DRILLING MANAGEMENT LIMITED
REVERSE CIRCULATION DRILL HOLE LOG

DATE JAN 18 19 86 HOLE NO NMO-86-23 LOCATION L 50+00W - 8
 GEOLOGIST RORIDA DRILLER G FORTIN BIT NO. 1000304 BIT FOOTAGE 76-108
 SHIFT HOURS _____ MOVE TO HOLE 2:30-245
 _____ TO _____ DRILL 2:45-315
 TOTAL HOURS _____ MECHANICAL DOWN TIME _____
 _____ DRILLING PROBLEMS _____
 CONTRACT HOURS _____ OTHER _____
 _____ MOVE TO NEXT HOLE _____

DEPTH IN FEET	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
				ICE THICKNESS 17" WATER DEPTH 25'
20				25-28.5' Clay -no return
			01 02	at 28.5' gray green clay followed by till
40				28.5-30.5 TILL -fine sand matrix, green -50:50 granitics:volcanics -cobbly, 3 to 10mm.
				30.5-32' BEDROCK 30.5-31'-dark green -grainy -fine green matrix
60				31-32'-change to lighter green -schistose -fine matrix, dark and light green
80				EOH 32'

Rorida

OVERBURDEN DRILLING MANAGEMENT LIMITED
REVERSE CIRCULATION DRILL HOLE LOG

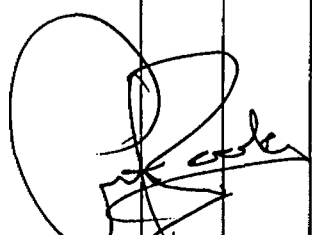
DATE JAN. 18 19 86 HOLE NO NMD 86-24 LOCATION L-50 W - 2+00 N
 GEOLOGIST BLISS DRILLER G. FORSTN BIT NO. 1000 304 BIT FOOTAGE 108-133
 SHIFT HOURS _____ MOVE TO HOLE 3:10 - 3:15 P.M.
 _____ TO _____ DRILL 3:15 - 4:00 P.M.
 TOTAL HOURS _____ MECHANICAL DOWN TIME N/A.
 _____ DRILLING PROBLEMS N/A.
 CONTRACT HOURS _____ OTHER _____
 _____ MOVE TO NEXT HOLE _____

DEPTH IN FEET	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
0	W			ICE THICKNESS 19" WATER DEPTH 24'
10	W			0-20 ft NO RETURN
20	W			20-25 ft BEDROCK - GREEN SCHISTOSE.
22.5	W		01	22.5 ft TRACE OF PYRITE CUBES (very small).
25	W			
30	W			
40	W			
60	W			
80	W			

Matthew Bliss.

OVERBURDEN DRILLING MANAGEMENT LIMITED
REVERSE CIRCULATION DRILL HOLE LOG

DATE JAN 18 1986 HOLE NO NMO-86-25 LOCATION L50W 4+00N
 GEOLOGIST BOORDA DRILLER G. FORTIN BIT NO. 1000304 BIT FOOTAGE 133-18
 SHIFT HOURS _____ MOVE TO HOLE 4:00 - 4:05
 _____ TO _____ DRILL 4:05 - 5:30
 TOTAL HOURS _____ MECHANICAL DOWN TIME _____
 _____ DRILLING PROBLEMS _____
 CONTRACT HOURS _____ OTHER _____
 _____ MOVE TO NEXT HOLE 5:30 - 5:35

DEPTH IN FEET	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
0	Wavy lines representing ice			ICE THICKNESS 18" WATER DEPTH 37' CASING SET TO 43'
20	Wavy lines representing clay			37-44.5' CLAY -no return at 44.5' soft grey, green clay Followed by till
40	Vertical lines representing till			44.5-50 TILL -cobbly -fine to medium sand matrix -green matrix -30% volcanics both light and dark green -70% granitics 3-10m
44.5	Diagonal hatching	01		
45.5	Diagonal hatching	02		
50	EOH			
50	Vertical lines representing bedrock			50-51' BEDROCK -small flakes -medium to light green -slow drilling, small flakes -indicates hard bedrock - flaky green matrix, medium -intermittent large flakes -some colour as small flakes
51	EOH			51' EOH
100				

OVERBURDEN DRILLING MANAGEMENT LIMITED
REVERSE CIRCULATION DRILL HOLE LOG

DATE 19 Jan 19 86 HOLE NO NMO-86-26 LOCATION L50 600N
 GEOLOGIST SHANNON DRILLER FORTIN BIT NO. 1000304 BIT FOOTAGE 185.270
 SHIFT HOURS _____ MOVE TO HOLE _____
 _____ TO _____ DRILL 8:00 - 10:00
 TOTAL HOURS _____ MECHANICAL DOWN TIME _____
 _____ DRILLING PROBLEMS _____
 CONTRACT HOURS _____ OTHER _____
 _____ MOVE TO NEXT HOLE _____

DEPTH IN FEET	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
0	Σ			18" ICE
0	Σ			36' WATER
0	Σ			43' CASING
20	Σ			-CLAY-36-52
	Σ			36-42 - NO RETURN
	Σ			42-52 - Clay - grey with about 20% brown
40	Σ			52-55 - NO RETURN
	Σ			-Till - 55-82
	Σ			- fine grey sand matrix
	Σ			- 30% granitic
	Σ			- 70% volcanic, occasional white piece
60	Δ	01		82-82-5 Till - not enough for a sample
	Δ	02		- BEDROCK
	Δ	03		82.5 - 85
	Δ			- 100% volcanic
80	Δ	04		- schistose -
	Δ			- green with occasional white piece.
	Δ	05		85-E.O.H
100	Δ			

Note: from time to time the matrix was large and cobbly. I suspect there was a bad seal at these times.

James Shaw

OVERBURDEN DRILLING MANAGEMENT LIMITED
REVERSE CIRCULATION DRILL HOLE LOG

DATE JAN. 19 1986 HOLE NO NMO-86-27 LOCATION L50W 8+00 N
 GEOLOGIST BLISS DRILLER G. FORTIN BIT NO 100304 BIT FOOTAGE 270-28
 SHIFT HOURS _____ MOVE TO HOLE 10:00 - 10:15 A.M.
 _____ TO _____ DRILL 10:15 - 11:45 A.M.
 TOTAL HOURS _____ MECHANICAL DOWN TIME N/A
 _____ DRILLING PROBLEMS N/A
 CONTRACT HOURS _____ OTHER _____
 _____ MOVE TO NEXT HOLE _____

DEPTH IN FEET	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
				WATER DEPTH 8' ICE THICKNESS 20"
	W W W W E.O.H.		01	8' ROCK (BOULDER?) WHITE, HARD, FINE CRYSTALLINE. - QUARTZ 90% - MICROCRYSTALLINE BLACK & GREEN 10% MINERALS TRACES OF PYRITE CUBES 12' SAME AS ABOVE WITH INCREASED CONCENTRATION OF COLOURED MINERALS (GREEN). 13' E.O.H.
20				
40				
60				
80				

Matthew Bliss

OVERBURDEN DRILLING MANAGEMENT LIMITED
 REVERSE CIRCULATION DRILL HOLE LOG

DATE JAN 19 1986 HOLE NO NMD-86-28 LOCATION 256W 10400N
 GEOLOGIST D. JAMIESON DRILLER FORTIN BIT NO. 1000304 BIT FOOTAGE 283-330
 SHIFT HOURS _____ MOVE TO HOLE 11:45-11:55
 _____ TO _____ DRILL 11:55-1:15
 TOTAL HOURS _____ MECHANICAL DOWN TIME _____
 _____ DRILLING PROBLEMS _____
 CONTRACT HOURS _____ OTHER _____
 _____ MOVE TO NEXT HOLE _____

DEPTH IN FEET	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
				ICE 17'
				WATER 39'
				CASING 44'
20				
				39'-43'
				No Return
				TILL 43'-43.5'
40				fine grey sandy matrix
				pebbly 50% volcanics
				50% granitics
		01		
		02		
				BEDROCK 43.5'-47'
				med. green, strongly foliated
				mafic volcanic
60				2% gtz
				47' EOH
				<i>David Jamieson</i>
80				

OVERBURDEN DRILLING MANAGEMENT LIMITED
 REVERSE CIRCULATION DRILL HOLE LOG

DATE 19 JAN. 1986 HOLE NO NMO-86-29 LOCATION L56W 800N
 GEOLOGIST SHANNON DRILLER FORTIA BIT NO. 1000304 BIT FOOTAGE 330-40.
 SHIFT HOURS _____ MOVE TO HOLE 1:10 - 120
 _____ TO _____ DRILL 120 - 2:45
 TOTAL HOURS _____ MECHANICAL DOWN TIME _____
 _____ DRILLING PROBLEMS _____
 CONTRACT HOURS _____ OTHER _____
 _____ MOVE TO NEXT HOLE _____

DEPTH IN FEET	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
0				20" ICE
38				38' WATER
43				43' CASING
38-42				- No RETURN
42-68				CLAY - 42-68
				- grey then brown
				- very soft.
				TILL - 67.5, 68.5
				- fine sand matrix
				- grey
				- 70% volcanic
				- 30% granitic
				- occasional white piece. (quartz or carbonate)
				BEDROCK - 69-72
				- 10% white (quartz)
				- 90% volcanic
				- schistose
				72' E.O.H.

James Shannon

**OVERBURDEN DRILLING MANAGEMENT LIMITED
REVERSE CIRCULATION DRILL HOLE LOG**

DATE JAN. 19 19 86 HOLE NO. NMO-86-30 LOCATION L 56 - 6+00N
 GEOLOGIST BLISS DRILLER G. FORTIN BIT NO. 1000304 BIT FOOTAGE 402-498.
 SHIFT HOURS _____ MOVE TO HOLE 2:45 - 2:50 p.m.
 _____ TO _____ DRILL 2:50 - 4:20 p.m.
 TOTAL HOURS _____ MECHANICAL DOWN TIME N/A.
 _____ DRILLING PROBLEMS N/A.
 CONTRACT HOURS _____ OTHER _____
 _____ MOVE TO NEXT HOLE _____

DEPTH IN FEET	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG							
				ICE THICKNESS 18" WATER DEPTH 38' CASING (WH) 43' <i>Matthew Bliss</i>							
				38-55ft. NO RETURN ASSUME SATURATED CLAY (SOFT AND SMOOTH)							
				55ft. CLAY SOFT AND SMOOTH (GRAY)							
				62ft. BROWN CLAY SOFT AND SMOOTH							
				72ft GRAY/GREEN CLAY SOFT AND SMOOTH.							
				87-93ft. TILL - GRAY/GREEN MEDIUM GRAINED SANDY MATRIX. - PEBBLY 60% VOLCANICS. 40% GRANITICS.							
			01	93ft. BEDROCK MEDIUM GREEN, MILDLY FOLIATED, MAFIC VOLCANIC, FINE CRYSTALLINE, ROCK.							
			02								
				96ft. E.O.H.							

OVERBURDEN DRILLING MANAGEMENT LIMITED
REVERSE CIRCULATION DRILL HOLE LOG

DATE JAN 19 1986 HOLE NO NMO-86-31 LOCATION L56W 4100N
 GEOLOGIST D. JAMESON DRILLER FORTIN BIT NO 100304 BIT FOOTAGE 498-557
 SHIFT HOURS _____ MOVE TO HOLE 4:20-4:25
 _____ TO _____ DRILL 4:25-~~4:50~~5:45
 TOTAL HOURS _____ MECHANICAL DOWN TIME _____
 _____ DRILLING PROBLEMS _____
 CONTRACT HOURS _____ OTHER _____
 _____ MOVE TO NEXT HOLE _____

DEPTH IN FEET	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
				18" ICE 29' WATER
				29'-51' No Return
20				<u>CLAY</u> 29-51' smooth soft chocolate br. and grey clays, mixed Rods 4,5,6 dropped before return started.
40				<u>TILL</u> 51'-57' fine grey sandy matrix pebbly 50% volcanics 50% granites
60			01 02	<u>BEDROCK</u> 57'-59' med to dark green, strongly foliated; green and white minerals show lineation parallel to foliation; possibly sheared gabbro
				59' EOH
80				

David Jameson

OVERBURDEN DRILLING MANAGEMENT LIMITED
 REVERSE CIRCULATION DRILL HOLE LOG

DATE JAN 20 19 86

HOLE NO NM0-86-32 LOCATION L 62+00W 6+00N
 GEOLOGIST X DRILLER Fortin BIT NO. 1000304 BIT FOOTAGE 557-58

SHIFT HOURS
 _____ TO _____

MOVE TO HOLE _____
 DRILL 8:00 - 9:00

TOTAL HOURS

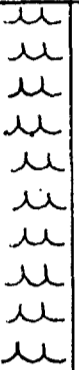
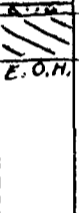

MECHANICAL DOWN TIME _____

CONTRACT HOURS

DRILLING PROBLEMS _____

OTHER _____

MOVE TO NEXT HOLE 9:00 - 9:15

DEPTH IN FEET	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
				ICE THICKNESS 17 in. WATER DEPTH 20 ft.
				20'-20.5' TILL - not enough for sample
20			01	20.5'-23 BEDROCK - gray green - fine grain - mafic volc. - 2% quartz E.O.H.
40				
60				
80				

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OVERBURDEN DRILLING MANAGEMENT LIMITED
REVERSE CIRCULATION DRILL HOLE LOG

DATE 20/06/1986

HOLE NO NM0-86-33 LOCATION L6200W 9400N

SHIFT HOURS
TO

GEOLOGIST Paul Jones DRILLER G. Fortin BIT NO. 1000304 BIT FOOTAGE 580-620

TOTAL HOURS

MOVE TO HOLE 9:00 - 9:15
DRILL 9:15 - 10:55


CONTRACT HOURS

MECHANICAL DOWN TIME

DRILLING PROBLEMS

OTHER

MOVE TO NEXT HOLE

DEPTH IN FEET	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
0	~			Ice 20"
0	~			Water 36'
20	~			36' - 37.5' <u>iiii</u> - grey-green f.g. sand matrix - 70% dk-green vol. clasts - 20%+ granitoid (pink) - rare quartz pebbles - dominantly pebble sized clasts, possible rare cobbles
40			01 02	37.5' - 40' Bedrock - dk green, well foliated - f.g. mafic metavolcanic
60				FoH - 40'
80				

Paul Jones

OVERBURDEN DRILLING MANAGEMENT LIMITED
REVERSE CIRCULATION DRILL HOLE LOG

DATE JAN 20 19 86 HOLE NO NMO-86-34 LOCATION L 62+00 W 10+00 N
 GEOLOGIST ROOPDA DRILLER FORTIN BIT NO. 1000304 BIT FOOTAGE 620-688
 SHIFT HOURS _____ MOVE TO HOLE 10:45 - 10:50
 _____ TO _____ DRILL 11:00 - 12:30
 TOTAL HOURS _____ MECHANICAL DOWN TIME _____
 _____ DRILLING PROBLEMS _____
 CONTRACT HOURS _____ OTHER _____
 _____ MOVE TO NEXT HOLE _____

DEPTH IN FEET	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
0				ICE THICKNESS 19" WATER 47' CASING SET TO 53'
20				
40				
50				47-61' CLAY -no return at 61' soft gray green clay followed by till
60				61-65' TILL -fine gray green matrix -60% granitics -granitics; mostly pink -40% volcanics -volcanics dark green
61-62			01	
62-63			02	
60-64				
80				NOTE: Boulder at 61-61.5 -all pink granite -not in sample 01
90				65-68' BEDROCK -dark green chips -5% quartz until 66' -at 66' change to 15% quartz -med. to heavy foliation -fine grain -more foliated after 66'
100				

OVERBURDEN DRILLING MANAGEMENT LIMITED
REVERSE CIRCULATION DRILL HOLE LOG

DATE JAN. 20 1986 HOLE NO NMO-86-35 LOCATION L68 + 00 W - 10 + 00 N
 GEOLOGIST BLISS DRILLER S. FORTIN BIT NO. 1000304 BIT FOOTAGE 688 - 78'
 SHIFT HOURS _____ MOVE TO HOLE 12:30 - 12:45
 _____ TO _____ DRILL 12:45 - 2:30
 TOTAL HOURS _____ MECHANICAL DOWN TIME N/A
 _____ DRILLING PROBLEMS N/A
 CONTRACT HOURS _____ OTHER _____
 _____ MOVE TO NEXT HOLE _____

DEPTH IN FEET	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG	
				ICE THICKNESS 19" WATER DEPTH 67' CASING (WH) 73'	
0	w			<p><i>Matthew Bliss</i></p> <p>67-92 ft. NO RETURN. ASSUMED SATURATED CLAYS (SMOOTH & SOFT)</p> <p>92 ft. CLAY. GRAY/GREEN THEN BROWN. - SOFT & SMOOTH.</p> <p>92.5-93.5 ft TILL. - FINE SANDY MATRIX GRAY/GREEN. - 70% VOLCANICS.</p> <p>- 30% GRANITICS. - PEBBLY.</p> <p>93.5-97 ft. BEDROCK. MEDIUM DARK GREEN MEDIUM FOLIATION FINE CRYSTALLINE - MAFIC VOLCANIC</p> <p>95 ft INCREASED CONCENTRATION OF QUARTZ - LIGHTER GREEN.</p>	
10	w				
20	w				
30	w				
40	w				
50	w				
60	w				
70	w				
80	w				
90	w				
100	w				
100					<p>01</p> <p>02</p> <p>FOH</p>

OVERBURDEN DRILLING MANAGEMENT LIMITED
REVERSE CIRCULATION DRILL HOLE LOG

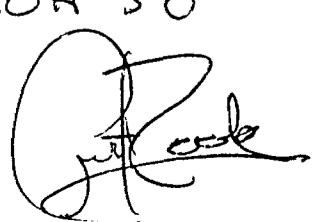
DATE JAN. 20 19 86 HOLE NO NMO-86-36 LOCATION L 68+00 W 8+00 N
 GEOLOGIST X DRILLER FORTIN BIT NO. 1000307 BIT FOOTAGE 0-107'
 SHIFT HOURS _____ MOVE TO HOLE 2:30-2:40
 _____ TO _____ DRILL 2:40-5:00
 TOTAL HOURS _____ MECHANICAL DOWN TIME _____
 _____ DRILLING PROBLEMS _____
 CONTRACT HOURS _____ OTHER NEW DRILL BIT 1000307
 _____ MOVE TO NEXT HOLE 5:00-5:10

DEPTH IN FEET	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
				ICE THICKNESS 19 in. WATER DEPTH 69 ft.
50				NO RETURN 69'-72'
60				CLAY 72'to 96' -green turning to brown, back to green -smooth and soft
70				BOULDER 96'to 97.5' -black and white granitic
80				TILL 97.5'to 102' -fine sand matrix -pebbly slightly cobbly -50% granitic -50% volc. (more volc. farther down)
90				BEDROCK 102'to 107' -fine sand matrix -95% volc. -dark green very foliated -fractured bedrock -some traces pyrite
100	⊕ △ △ △ △		01	(105)
	▨		02	-mildly foliated
	▨		03	-dark green
110	E.O.H.			(106) -strongly foliated (107) -mildly foliated
120				E.O.H.

Bedrock lodges out

OVERBURDEN DRILLING MANAGEMENT LIMITED
REVERSE CIRCULATION DRILL HOLE LOG

DATE AN 20-21 1986 HOLE NO NMO-86-37 LOCATION W 68+00 W 6+00 N
 GEOLOGIST ROORDA DRILLER G. FORTIN BIT NO. 1000307 BIT FOOTAGE 107-165
 SHIFT HOURS _____ MOVE TO HOLE 5:10 - 5:15
 _____ TO _____ DRILL 5:15 - 5:45 pm 8:50 - 9:15 am
 TOTAL HOURS _____ MECHANICAL DOWN TIME _____
 CONTRACT HOURS _____ DRILLING PROBLEMS _____
 _____ OTHER _____
 _____ MOVE TO NEXT HOLE _____

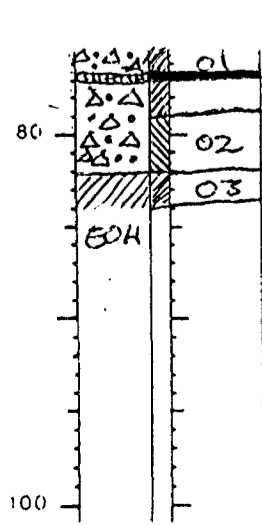
DEPTH IN FEET	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
0	u			ICE THICKNESS 17"
0	u			WATER DEPTH 39'
0	u			CASING SET TO 43'
20	u			
39	u			39-52' CLAY
40	u			no return
40	u			52-53.5' CLAY
40	u			- green clay followed
40	u			by bits of brown
40	u			- med to soft texture
53.5	u			53.5-54.5' TILL
54	u			- 30% granitics
54	u			- orange and pink
54	u			- 70% volcanics
54	u			- dark green
54	u			- fine green sandy matrix
54.5	u			54.5-58' BEDROCK
54.5	u			- dark green
58	u			- med. to heavy foliation
58	u			- small flakes
58	u			- traces of quartz
58	u			EOH 58'
58	u			
100	u			

OVERBURDEN DRILLING MANAGEMENT LIMITED
REVERSE CIRCULATION DRILL HOLE LOG

DATE JAN 21 1986 HOLE NO. NMO-86-38 LOCATION L 74+00W 6+00N
 GEOLOGIST BOORDA DRILLER G. FORTIN BIT NO. 1000307 BIT FOOTAGE 165'-24'
 SHIFT HOURS TO MOVE TO HOLE 9:15 - 9:30
 TOTAL HOURS DRILL 9:30 - 11:50
 CONTRACT HOURS MECHANICAL DOWN TIME
 DRILLING PROBLEMS
 OTHER
 MOVE TO NEXT HOLE

DEPTH IN FEET	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
				ICE THICKNESS 18" WATER DEPTH 48' CASING SET TO 53'
20				48-69' CLAY - no return - at 69' green then brown soft clay - followed by firmer green clay
40				69-72' TILL? - no return - trace of fine sand.
				72-72.5' BOULDER - dark green - volcanic - no sample taken
60				72.5-74' TILL? - no return
				74-75' BOULDER - dark green - visible grains - gabbro
70				75-76.5 TILL - 00% granitics - orange - 40% volcanics - dark green - fine green sandy matrix - pebbly.

[Handwritten signature]



76.5-77' BOULDER
- dark green, volcanic

77-82' TILL
- 30% granitics, orange, black & white
- 70% volcanics, dark & light green
- fine green sandy matrix, pebbly.

82-84' BEDROCK dark green, 2% quartz EOH 84'

OVERBURDEN DRILLING MANAGEMENT LIMITED
REVERSE CIRCULATION DRILL HOLE LOG

DATE JAN 21 19 86 HOLE NO LM-85-39 LOCATION 274W - 1400N
 GEOLOGIST D. JAMIESON DRILLER G. FORTIN BIT NO. 10002302 BIT FOOTAGE 0-66'
 SHIFT HOURS _____ MOVE TO HOLE 12:00 - 12:15
 _____ TO _____ DRILL 12:15 - 1:40
 TOTAL HOURS _____ MECHANICAL DOWN TIME _____
 _____ DRILLING PROBLEMS _____
 CONTRACT HOURS _____ OTHER _____
 _____ MOVE TO NEXT HOLE _____

DEPTH IN FEET	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
				WATER DEPTH 39' ICE 18"
20				
40				39'-60' No Return <u>CLAY</u>
				61' Chocolate brown clay followed by grey clay soft + smooth
60				<u>TILL</u>
				61'-64' - fine grey sand matrix pebbly 50% volcanic 50% granitic
				64'-65' - fine grey sand matrix
80				coarse - 30% coarse sand size granitic 60% volcanic pebbles 10% qtz chips
				<u>BEDROCK</u> 65'-66' dark green massive to weakly foliated mafic volcanic with 30 to 40% milky qtz.
100				66' EOH

OVERBURDEN DRILLING MANAGEMENT LIMITED
REVERSE CIRCULATION DRILL HOLE LOG

DATE 21 JAN. 1988
SHIFT HOURS _____
TO _____
TOTAL HOURS _____
CONTRACT HOURS _____

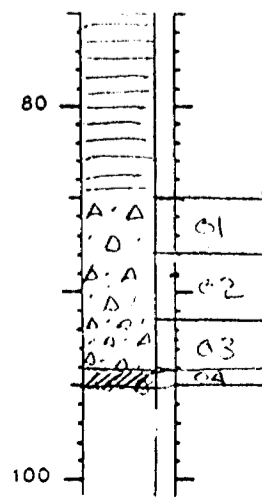
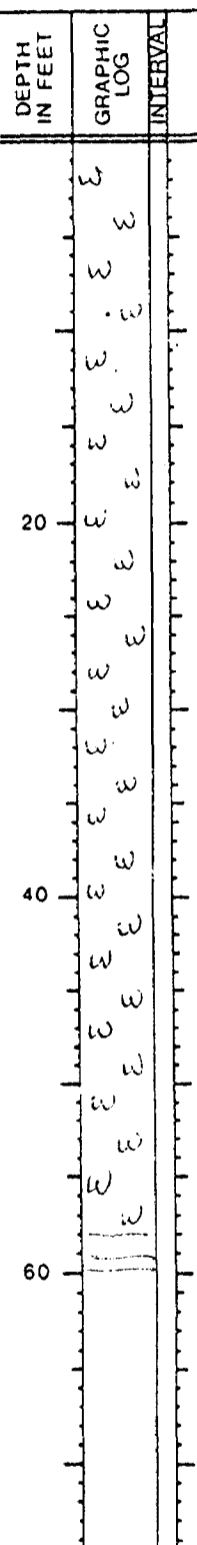
HOLE NO NMO-86-40 LOCATION L74W 2402N
GEOLOGIST S. HANNON DRILLER FORTIN BIT NO. 10002302 BIT FOOTAGE 66'-161'
MOVE TO HOLE 140-150
DRILL 1:50 - 4:35
MECHANICAL DOWN TIME _____
DRILLING PROBLEMS _____
OTHER _____
MOVE TO NEXT HOLE _____

DEPTH IN FEET	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
0				16" ICE
16				58' WATER
63				63' CASING
58-85				CLAY - 58-85 - No Return. 58-75 - grey and brown 75-85 - very soft.
85-94				TILL - 85-94 - Very fine grey sand matrix from 85-89 - about 20% granite
89-94				- LODGEMENT TILL - 89-94 - Very fine grey sand matrix - dark green stones (almost black)
94-95				- 100% volcanic (mostly gneiss) - trace of pyrite BEDROCK - 94-95 - pale grey green - schistos - <10% quartz or carbonate - mostly volcanic
95				95' E.O.H.

Magnification of bedrock
Shows pale green, massive
volcanic, 2% py, possibly fragm.
5% clear quartz

* fine - clay
James Stan

Note: The driller reduced the air pressure at 94' this reduced the sand to nil and gave way to the bedrock



OVERBURDEN DRILLING MANAGEMENT LIMITED
REVERSE CIRCULATION DRILL HOLE LOG

DATE JAN 22 1986 HOLE NO NMO-86-41 LOCATION L74W 8400N
 GEOLOGIST D. JAMIESON DRILLER G. FORTIN BIT NO 1002302 BIT FOOTAGE 161-295
 SHIFT HOURS _____ MOVE TO HOLE _____
 _____ TO _____ DRILL 9:00 - 11:00
 TOTAL HOURS _____ MECHANICAL DOWN TIME _____
 DRILLING PROBLEMS _____
 CONTRACT HOURS _____ OTHER 8:00 - 9:00 - Having equipment - stuck frozen
 _____ MOVE TO NEXT HOLE _____

DEPTH IN FEET	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
				76' WATER 22" ICE
				86' - 112' No Return Assume clays from 76' - 112'
80				
				<u>CLAY</u> 112' - 128' chocolate brown clay followed by grey green clay clays soft and smooth
100				
				<u>TILL</u> 128' - 131' fine sandy matrix pebbly 70% volcanics 30% granitic
120				
				<u>BEDROCK</u> 131' - 134' - light to medium green, very fine grained mafic volcanics
			01	
			02	

80

- massive to weakly foliated
- mica gtz
- 1% py, abundant in a few chips

134' EOH.

David Jamieson

Magnification shows a microporous
grey green mafic volcanic with a very fine
planar fabric. Colour & fabric suggest a talc

100

OVERBURDEN DRILLING MANAGEMENT LIMITED
REVERSE CIRCULATION DRILL HOLE LOG

DATE JAN 22 19 86

SHIFT HOURS _____
TO _____

TOTAL HOURS _____

CONTRACT HOURS _____

HOLE NO MNO-86-42 LOCATION L74 W 10+00 N

GEOLOGIST X DRILLER FORTIN BIT NO. 10067302 BIT FOOTAGE 295-457

MOVE TO HOLE 11:10-11:20

DRILL 11:20-13:15

MECHANICAL DOWN TIME _____

DRILLING PROBLEMS _____

OTHER _____

MOVE TO NEXT HOLE 3:15-3:30

DEPTH IN FEET	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
70				17in ICE THICKNESS 81ft WATER DEPTH 81'to 102' NO RETURN CLAY 102'to 148' -smooth and soft -gray 122' turned brown in color. 132' turned back to gray.
80				TILL 148'to 152' -fine sand matrix -40% Vol. -60% Granitics
90				GRAVEL 152'to 153' -little to no matrix -pebbly to cobbly (not enough for sample)
100				BOULDER 153'to 155.5' -pink granitic
110				TILL 155.5'to 159' -60% Granitics -40% Vol. 156.5' more Vol. then Granitics
120				BEDROCK 159'to 162' -mafic Vol. -dark green
130				

140			
150			-01
			-02
			-03
160			

-medium to heavy foliation
-1% quartz

E.O.H. *[Signature]*

Magnification shows a strong planar fabric in a very fine grained mafic volcanic; also minor py. in quartz along fabric planes.

OVERBURDEN DRILLING MANAGEMENT LIMITED
REVERSE CIRCULATION DRILL HOLE LOG

DATE JAN 22 19 86 HOLE NO NMD-86-43 LOCATION L74W · 12+00N
 GEOLOGIST BLISS DRILLER G. FORTIN BIT NO. J000368 BIT FOOTAGE 0-91
 SHIFT HOURS _____ MOVE TO HOLE 3:30 - 3:40 p.m.
 _____ TO _____ DRILL 3:40 - 5:30 p.m.
 TOTAL HOURS _____ MECHANICAL DOWN TIME _____
 DRILLING PROBLEMS HAD TO CHANGE BIT TWICE - FIRST BIT DIDN'T
 CONTRACT HOURS _____ OTHER FIT PROPERLY!
 MOVE TO NEXT HOLE 5:30 - 5:45 p.m.

DEPTH IN FEET	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG	NEW BIT!						
				18 inches ICE 59 feet WATER 63 feet CASING (WH)							
20				Bedrock - dk. med. green, strongly to v. strongly foliated mafic metavolcanic - brcc. mic.							
40				59 to 72 feet NO RETURN - assumed soft and smooth saturated clays.							
60				72 to 82 feet CLAY - GRAY then - BROWN (SOFT & SMOOTH).							
				82-86 feet GRAY CLAY soft and smooth							
80				(somewhat gritty toward 86 feet). 86 to 91 feet BEDROCK. MAFIC VOLCANIC MILDLY FOLIATED LIGHT GREEN 20-30% QUARTZ. NUMEROUS TRACES OF TINY PYRITE CUBES.							
100				87 to 88/1 INCREASED CONC. - ENTRATION OF PYRITE. 91 feet E.O.H.							

Matthew Bliss

01
E.O.H.

OVERBURDEN DRILLING MANAGEMENT LIMITED
REVERSE CIRCULATION DRILL HOLE LOG

DATE JAN 23 19 86 HOLE NO NMD-86-44 LOCATION L 90 W - 121 00 N
 GEOLOGIST BLISS DRILLER C. FORTIN BIT NO. J000368 BIT FOOTAGE 92-198
 SHIFT HOURS _____ MOVE TO HOLE _____
 _____ TO _____ DRILL 8:00 - 10:45 a.m.
 TOTAL HOURS _____ MECHANICAL DOWN TIME _____
 _____ DRILLING PROBLEMS _____
 CONTRACT HOURS _____ OTHER _____
 _____ MOVE TO NEXT HOLE _____

DEPTH IN FEET	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
				ICE THICKNESS 20" WATER DEPTH 73' (wt) CASING DEPTH 73'
60				
70				73-80 feet NO RETURN ASSUMED SATURATED SOFT AND SMOOTH CLAY.
80				80-82 feet CLAY CLAY SOFT & SMOOTH.
90				82-86 feet BROWN CLAY SOFT & SMOOTH.
				86-97 feet GRAY CLAY SOFT & SMOOTH - SOME COIT.
100	△ △ △ △		01	97 feet PEBBLY TILL LIGHT GRAY FINE SANDY MATRIX
			02	60-70% GRANITICS 30-40% VOLCANICS
			03	100 feet PEBBLY TO COBBLY TILL - same as above MATRIX AND COMPOSITION - small trace of PYRITE.
110				103.5 feet BEDROCK - MAFIC VOLCANIC - MILK FOLIATION - DARK GREEN - MINERALS OF LIGHT AND DARK
130				MINERALS - 3-5% QUARTZ 106 EOH
140				
150				Bedrock - dk green, strong to v. strong fol - mafic subvolcanic. (know me.)

OVERBURDEN DRILLING MANAGEMENT LIMITED
REVERSE CIRCULATION DRILL HOLE LOG

DATE 23 JAN 1986

HOLE NO NMO-86-45 LOCATION L80W 10+02N

GEOLOGIST SHANNON DRILLER FARTIN BIT NO. J000368 BIT FOOTAGE 198-350

SHIFT HOURS
TO

MOVE TO HOLE 10:45-11:00

TOTAL HOURS

DRILL 11:00-12:10 - 12:40-1:50

CONTRACT HOURS

MECHANICAL DOWN TIME 12:10-12:40

DRILLING PROBLEMS No more rods

OTHER

MOVE TO NEXT HOLE

DEPTH IN FEET	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
				19" ICE
				85' WATER
				83' CASING
				CLAY - 85 - 142
8000				85 - 112 - No RETURN
				112 - 142 - about 6" of brown clay followed by very soft grey clay
10040				TILL - 142 - 148.5
				- fine grey matrix (sand)
				- 20% granite
				- 80% volcanic
				- traces of Pyrite
				- stones are greater than 2mm
12000				BEDROCK - 148.5 - 152
				- medium green
				- medium foliated
				- less than 2% carbonate or quartz
				152 - E.O.H.
			01	
			02	
				Bedrock - med. grey green, strong v. strong sh. - mafic - metabasaltic possibly volcanoclastic

James Shannon

OVERBURDEN DRILLING MANAGEMENT LIMITED
REVERSE CIRCULATION DRILL HOLE LOG

DATE JAN 23 1984 HOLE NO NMO-86-46 LOCATION L 80+00 W 2+00N
 GEOLOGIST ROORDA DRILLER A. BELLIVEAU BIT NO CB 67640 BIT FOOTAGE 0-125.5
 SHIFT HOURS _____ MOVE TO HOLE _____
 _____ TO _____ DRILL 8:30 - 11:15
 TOTAL HOURS _____ MECHANICAL DOWN TIME 10:05 - 11:15
 _____ DRILLING PROBLEMS 8 rods lost 2 casing lost
 CONTRACT HOURS _____ OTHER _____
 _____ MOVE TO NEXT HOLE _____

DEPTH IN FEET	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
				ICE THICKNESS 19" WATER DEPTH 66' CASING SET TO 63'
50				66-122' CLAY 66-92 no return at 92' gray green soft clay at 102' soft choc. brown clay at 112' firm green clay
70				122-124 SAND - fine gray green sand mixed with firm green clay - change to all sand
80				124-125.5 TILL - 10% granitics, orange and pink - 90% volcanics, dark green - pebbly - heavy matrix - fine sand green matrix
100				NOTE: at 125.5' the casing bound to the rods, when drilling was resumed, the rod and the casing snapped. - 8 rods lost - 2 pieces of casing lost.
120				EOH 125.5
			01 02	

(Handwritten signature)

OVERBURDEN DRILLING MANAGEMENT LIMITED
REVERSE CIRCULATION DRILL HOLE LOG

DATE JAN 23 1986 HOLE NO NMD-86-47 LOCATION L. 8400W 9400N
 GEOLOGIST D. SAMIEN DRILLER A. BELLINER BIT NO. B67631 BIT FOOTAGE 0-51'
 SHIFT HOURS _____ MOVE TO HOLE 11:55 - 12:15
 _____ TO _____ DRILL 12:15 - 310
 TOTAL HOURS _____ MECHANICAL DOWN TIME _____
 _____ DRILLING PROBLEMS wait for drill rods 12:50 - 1:20
 CONTRACT HOURS _____ OTHER _____
 _____ MOVE TO NEXT HOLE _____

DEPTH IN FEET	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
0				ICE 20' WATER 32' 44' CASING
20				<u>CLAY</u> 32' - 45' soft smooth chocolate brown clay followed by soft smooth grey clay
40				<u>GRAVEL</u> 45' - 48' - pebbles tend to be subrounded granites - less than 10% cuttings - intermittent minor fine sand
45			01	
48			02	
60				<u>BEDROCK</u> 48' - 51' - pale green, strongly foliated and silicified mafic volcanic - 5% quartz chips - approx. 2% py as fine gr. cubes
80				<i>David Samien</i> Bedrock - pl green to tan, schistose chlorite - sericite schist (bino. mic)

OVERBURDEN DRILLING MANAGEMENT LIMITED
REVERSE CIRCULATION DRILL HOLE LOG

DATE JAN 23 1986 HOLE NO NM0-86-48 LOCATION L 8+00W 5+50N
 GEOLOGIST BOORDA DRILLER A. BELLIVEAU BIT NO. CB67631 BIT FOOTAGE 51-137
 SHIFT HOURS _____ MOVE TO HOLE 3:10-3:15
 _____ TO _____ DRILL 3:15-5:45
 TOTAL HOURS _____ MECHANICAL DOWN TIME _____
 _____ DRILLING PROBLEMS _____
 CONTRACT HOURS _____ OTHER _____
 _____ MOVE TO NEXT HOLE _____

DEPTH IN FEET	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
				ICE THICKNESS - 20"
				WATER DEPTH - 43'
				CASING SET TO - 42'
				Bedrock - light green, strong foliation to schistose, possible crystals (?) - indicates crystal tuff
20				<i>with scale</i>
				43-71' CLAY
				43-52' no return
				at 52' green clay, soft
				at 62' chocolate brown clay followed by firmer green clay
40				71-84' GRAVEL
				71-76' - 50% granitics, black, white, pink
				- 50% volcanics, dark green
				NOTE: throughout the gravel there was an intermittent fine sand matrix, green in colour
				76-79' - 60% granitics
				- 40% volcanics
				- cobbly
60				79-79.5' BOULDER
				- green
				- 5% quartz
				79.5-80.5 GRAVEL
				- 30% granitics

				10% volcanics
				- intermittent fine green sand matrix
80				80.5-82' BOULDER
				- gabbro
				- 5% quartz
				- dark green
				82-84' GRAVEL
				- 20% granitics
				- 80% volcanics, green schistose
				84-86' BEDROCK
				- light green
100				- heavy foliation, schistose

EOH 86'

OVERBURDEN DRILLING MANAGEMENT LIMITED
 REVERSE CIRCULATION DRILL HOLE LOG

DATE JAN. 24 19 86

HOLE NO 49 LOCATION L 8+00W 8+00N
 GEOLOGIST X DRILLER BELLIVEAU BIT NO. C1367631 BIT FOOTAGE 139'-199'

SHIFT HOURS
 _____ TO _____

MOVE TO HOLE _____
 DRILL 8:30-11:15

TOTAL HOURS

MECHANICAL DOWN TIME _____

CONTRACT HOURS

DRILLING PROBLEMS _____

OTHER _____

MOVE TO NEXT HOLE _____

DEPTH IN FEET	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
	u			ICE DEPTH 19 in.
	u			WATER DEPTH 51 ft
	u			NO RETURN 51' to 52'
	ii			CLAY 52' to 63'
	u			-gray
	u			-smooth and soft
20	u			TILL 63' to 65.5'
	u			-fine sand matrix
	u			70% Granitics
	u			30% Vol.
40	u			BEDROCK 65.5' to 70'
	u			-gabbro
	u			-massive, medium grain
	u			-medium to dark green
	u			1% quartz
60	u			E. O. H.
	u			<i>[Signature]</i>
80				Bedrock med. dk green, mostly
				blacked, aphanitic - glass matrix
				retavolcanic possibly mafic
				volcaniclastic (trioe. mic.)
100				

OVERBURDEN DRILLING MANAGEMENT LIMITED
REVERSE CIRCULATION DRILL HOLE LOG

DATE 23 JAN. 1986

HOLE NO NMO-86-51 LOCATION L2W-400N

GEOLOGIST SHANNON DRILLER FORTIN BIT NO. J000368 BIT FOOTAGE 357-392

SHIFT HOURS
_____ TO _____

MOVE TO HOLE 3:20 - 3:30

TOTAL HOURS

DRILL 3:30 - 4:15

CONTRACT HOURS

MECHANICAL DOWN TIME _____

DRILLING PROBLEMS _____

OTHER _____

MOVE TO NEXT HOLE _____

DEPTH IN FEET	GRAPHIC LOG	INTERVAL	SAMPLE NO	DESCRIPTIVE LOG
0	W			19" ICE
1	W			20' WATER
2	W			
3	W			
4	W			
5	W			
6	W			
7	W			
8	W			
9	W			
10	W			
11	W			
12	W			
13	W			
14	W			
15	W			
16	W			
17	W			
18	W			
19	W			
20	W			
21	W			
22	W			
23	W			
24	W			
25	W			
26	W			
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30	W			
31	W			
32	W			
33	W			
34	W			
35	W			
36	W			
37	W			
38	W			
39	W			
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59	W			
60	W			
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65	W			
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78	W			
79	W			
80	W			
81	W			
82	W			
83	W			
84	W			
85	W			
86	W			
87	W			
88	W			
89	W			
90	W			
91	W			
92	W			
93	W			
94	W			
95	W			
96	W			
97	W			
98	W			
99	W			
100	W			

19" ICE
20' WATER
CLAY: 20-22
- grey, very soft

TILL: 22-33
- fine grey sand matrix
- 30% granite
- 70% volcanic
- trace of pyrite.

BEDROCK: 33-35
- very foliated
- 30% quartz or carbonate
35-E.O.H

James Jones

Bedrock med-dk green, ophiolitic, schistose, high qtz-carb content. chlorite schist with qtz-carb vein (binoc. mic.)

OVERBURDEN DRILLING MANAGEMENT LIMITED
REVERSE CIRCULATION DRILL HOLE LOG

DATE JAN 23 19 86 HOLE NO NM10-86-52 LOCATION L 2 W - 21.00N
 GEOLOGIST BL104 DRILLER C. FULTON BIT NO. 7000360 BIT FOOTAGE 392.401
 SHIFT HOURS _____ MOVE TO HOLE 4:15 to 4:20
 _____ TO _____ DRILL 4:20 to 5:10
 TOTAL HOURS _____ MECHANICAL DOWN TIME _____
 _____ DRILLING PROBLEMS _____
 CONTRACT HOURS _____ OTHER _____
 _____ MOVE TO NEXT HOLE 5:10 to 5:30 p.m.

DEPTH IN FEET	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
0	ICE			ICE THICKNESS 17"
0	WATER			WATER DEPTH 4'
0	4.5	G1		4.5 feet BOLLINGER
0	4.5	G2		quartzite with trace of pyrite
0	5.5			5.5 feet TILL
0				PEBBLY; LIGHT GRAY SANDY MATRIX;
0				50% VOLCANIC
0				50% GRANITE
0	6			6 feet BEDROCK
0				- MEDIUM TO COARSE GRAIN
0				- HEAVILY FOLIATED
0				- MAFIC VOLCANIC
0				- 5% QUARTZ
0	9			9 feet C.O.H.
0				Bedrock - med green-gray, optaxitic, schistose - chlorite-sericite schist. (chase mic)
20				
40				
60				
80				

OVERBURDEN DRILLING MANAGEMENT LIMITED
REVERSE CIRCULATION DRILL HOLE LOG

DATE JAN 24 19 86 HOLE NO NMO-86-53 LOCATION LAE 2400N
 GEOLOGIST D. SAMIESON DRILLER A. BELLIVEAU BIT NO. C867631 BIT FOOTAGE 197'-236'
 SHIFT HOURS _____ MOVE TO HOLE 11:15 - 11:30
 _____ TO _____ DRILL 11:30 - 12:35
 TOTAL HOURS _____ MECHANICAL DOWN TIME _____
 _____ DRILLING PROBLEMS _____
 CONTRACT HOURS _____ OTHER _____
 _____ MOVE TO NEXT HOLE _____

DEPTH IN FEET	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
				ICE = 16" WATER 11'
				11'-22' No Return
				<u>CLAY</u> 22'-33' soft smooth grey clay followed by chocolate brown clay
20				
				<u>TILL</u> 33'-35' - fine sandy matrix, grey - pebbly 50% volcanic 50% granitic
40			01 02	
				<u>BEDROCK</u> 35'-39' - strongly foliated, med. to dark green, very fine grained mafic volcanic - 5% milky to smoky white qtz. chips
60				
				39' E.O.H.
				<i>Alumina</i>
				<i>quartz</i>
80				
				Bedrock - med to dk green schistose - chlorite schist (broadly mic.)
100				

OVERBURDEN DRILLING MANAGEMENT LIMITED
 REVERSE CIRCULATION DRILL HOLE LOG


DATE JAN 24 1986 HOLE NO NMO-86-54 LOCATION L 10+00 E 4+00 N.
 GEOLOGIST ROORDA DRILLER G. FORTIN BIT NO. 1000368 BIT FOOTAGE 401-453
 SHIFT HOURS _____ MOVE TO HOLE _____
 _____ TO _____ DRILL 8:30-10:00
 TOTAL HOURS _____ MECHANICAL DOWN TIME _____
 DRILLING PROBLEMS _____
 CONTRACT HOURS _____ OTHER _____
 _____ MOVE TO NEXT HOLE _____

DEPTH IN FEET	GRAPHIC LOG	INTERVAL	SAMPLE NO	DESCRIPTIVE LOG
				ICE THICKNESS 19" WATER DEPTH 32'
				Bedrock - med. dk green, schistose, aphanitic - chlorite schist (bioc mic.).
20				32-42' CLAY - Firm green clay - followed by clay mixed with fine sand - no sample
40				42-42.5' BOULDER - dark green - mildly foliated
			01	
			02	42.5-48' TILL - pebbly - 40% granitics, orange and pink - 60% volcanics, dark to medium green - fine green sandy matrix
60				48-49' BOULDER - dark green - heavy foliation
80				49-52' BEDROCK - 5% quartz - 1% quartz - dark green - medium foliation
100				EON 52'



OVERBURDEN DRILLING MANAGEMENT LIMITED
 REVERSE CIRCULATION DRILL HOLE LOG

DATE JAN 24 19 86 HOLE NO 55 LOCATION L 4+00E 4+00N
 GEOLOGIST X DRILLER BELIVEAU BIT NO. CA 67631 BIT FOOTAGE 236'-276'
 SHIFT HOURS _____ MOVE TO HOLE 12:40-12:50
 _____ TO _____ DRILL 12:50-1:40
 TOTAL HOURS _____ MECHANICAL DOWN TIME _____
 _____ DRILLING PROBLEMS _____
 CONTRACT HOURS _____ OTHER _____
 _____ MOVE TO NEXT HOLE _____

DEPTH IN FEET	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
				ICE DEPTH 18 in.
				WATER DEPTH 15 ft
				NO RETURN 15' to 22'
				CLAY 22' to 29'
				-gray turn to brown
				-soft and smooth
				TILL 29' to 31.5'
				-fine sand matrix
			01	
			02	31' till turns cobbly
				BEDROCK 31.5' to 35'
				-mafic Vol.
				-medium to dark green
				-1% quartz
				E.O.H.
				
				Bedrock - pl to med green, strongly schistose chlorite + minor chlorite-sarcolite schist

OVERBURDEN DRILLING MANAGEMENT LIMITED
REVERSE CIRCULATION DRILL HOLE LOG

DATE JAN 24 1986

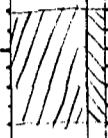
HOLE NO NMO 86-56 LOCATION L 10+00E 2+00N
GEOLOGIST SHANNON DRILLER FORTIN BIT NO. J000368 BIT FOOTAGE 453-46

SHIFT HOURS
TO

MOVE TO HOLE 10:00 - 10:05
DRILL 10:05 - 10:45

TOTAL HOURS
CONTRACT HOURS

MECHANICAL DOWN TIME
DRILLING PROBLEMS
OTHER
MOVE TO NEXT HOLE

DEPTH IN FEET	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
			01	17" ICE
				3' WATER
				BEDROCK - ?
				- light green
				- highly foliated
				- 2% white (i.e. carbonate or quartz)
				- < 2mm
				- 9' E.O.H.
				James Ganan
				Bedrock. aphanitic, pl. green, schistose, chlorite-sericite schist (banded area)
20				
40				
60				
80				

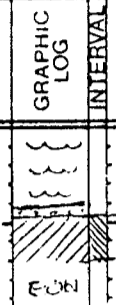
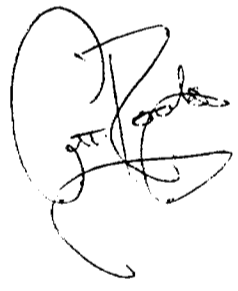
OVERBURDEN DRILLING MANAGEMENT LIMITED
 REVERSE CIRCULATION DRILL HOLE LOG

DATE JAN 24 1986 HOLE NO NMO-86-57 LOCATION L 4E 5 100N
 GEOLOGIST D. JAMIESON DRILLER A. BELLIVEAU BIT NO. CB6763 BIT FOOTAGE 271'-29'
 SHIFT HOURS _____ MOVE TO HOLE 1:40 - 1:45
 _____ TO _____ DRILL 1:45 - 2:50
 TOTAL HOURS _____ MECHANICAL DOWN TIME _____
 CONTRACT HOURS _____ DRILLING PROBLEMS _____
 _____ OTHER _____
 _____ MOVE TO NEXT HOLE _____

DEPTH IN FEET	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
				23" ILE
				9' WATER
				9'-12' No Return
				<u>CLAY</u> 12'-19' chocolate brown
				soft smooth clay
20			01	<u>TILL</u> 19'-21' fine grey sandy
			02	matrix
				pebbly 50% volcanic
				50% granitic
				<u>BEDROCK</u> 21'-24'
				- strongly foliated,
40				med. green mafic volcanic
				- 10% gtz milky white gtz.
				24' E.O.H.
60				<i>Daniel Jamieson</i>
				Bedrock - H med green, aphanitic,
				schistose - chlorite schist
				(bioc. mic.)
80				

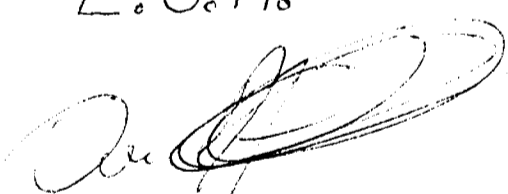
OVERBURDEN DRILLING MANAGEMENT LIMITED
REVERSE CIRCULATION DRILL HOLE LOG

DATE JAN 24, 1986 HOLE NO NMO-86-58 LOCATION L 10+00 E B+30N
 GEOLOGIST BOORDA DRILLER G. FOSTIN BIT NO. 1000368 BIT FOOTAGE 462-465
 SHIFT HOURS _____ MOVE TO HOLE 10:45 - 10:50
 _____ TO _____ DRILL 10:50 - 11:10
 TOTAL HOURS _____ MECHANICAL DOWN TIME _____
 _____ DRILLING PROBLEMS _____
 CONTRACT HOURS _____ OTHER _____
 _____ MOVE TO NEXT HOLE _____

DEPTH IN FEET	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
			01	ICE THICKNESS 17' WATER DEPTH 4'
				EOH
				4 - 4.5' SAND - fine gray green sand
20				4.5 - 7' BEDROCK - medium to dark green - 10% quartz - medium foliation
				EOH 7'
40				
60				Bedrock - med grey-green, possible sp. fragments (lithic), strongly foliated to schistose - mafic metavolcanic - volcanoclastic?
80				

OVERBURDEN DRILLING MANAGEMENT LIMITED
 REVERSE CIRCULATION DRILL HOLE LOG

DATE JAN 24 1986 HOLE NO 59 LOCATION L 16+00 E 2+00 N
 GEOLOGIST X DRILLER BELLIVEAU BIT NO. CB67631 BIT FOOTAGE 297'-37'
 SHIFT HOURS _____ MOVE TO HOLE 3:00 - 3:05
 _____ TO _____ DRILL 3:05 - 4:30
 TOTAL HOURS _____ MECHANICAL DOWN TIME _____
 _____ DRILLING PROBLEMS _____
 CONTRACT HOURS _____ OTHER _____
 _____ MOVE TO NEXT HOLE 4:30 - 4:35

DEPTH IN FEET	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
0	u			ICE DEPTH 16 in.
0	u			WATER DEPTH 30 ft
0	u			NO RETURN 30' to 33'
0	u			34' of casing
0	u			CLAY 33 ft - 33.5 ft
0	u			- gray
20	u			- soft and gritty
0	u			TILL 33.5 ft - 34 ft
0	u			(not enough for sample)
0	u			- fine sand matrix
0	u			50% Vol.
40	u			50% Granitics
0	u			BEDROCK 34 ft - 36 ft
0	u			- strongly foliated
0	u			- mafic Vol.
0	u			2% quartz
0	u			E.O.H.
0	u			
80	u			Bedrock - It is red gray-green, strongly schistose, locally oxidized, contains in chlorite - mica schist

OVERBURDEN DRILLING MANAGEMENT LIMITED
REVERSE CIRCULATION DRILL HOLE LOG

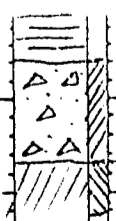
DATE 24 JAN. 1986 HOLE NO NMO-86-60 LOCATION L10400E 6400N
 GEOLOGIST SHANNON DRILLER FORTIN BIT NO. 3000268 BIT FOOTAGE 469-530
 SHIFT HOURS _____ MOVE TO HOLE 11:10 - 3:45
 _____ TO _____ DRILL 4:00 - 6:45
 TOTAL HOURS _____ MECHANICAL DOWN TIME _____
 DRILLING PROBLEMS _____
 CONTRACT HOURS _____ OTHER compressor sank - rig partially sank on hole 58
 _____ MOVE TO NEXT HOLE _____

DEPTH IN FEET	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
0				19" ICE
0				29' WATER
0				CLAY- 29-42
0				- 29-32 - No RETURN
0				- 32-42 - Brown clay - very soft
20				TILL - 42-59
20				- 42-48: fine grey sand matrix with a high number of small cutting.
20				- cobbly
20				- 90% volcanic
20				- 10% various
20			01	- granite
20			02	- quartz
20				- black
20			03	- 48-49 - boulder
20			04	- 49-57 - Till (same matrix as above)
20				- 57-59 till
20				- 50% granite
20				- 50% volcanic
20				- fine brown matrix
20				BEDROCK - 59-61
20				- strongly foliated
20				- medium green
20				- less than 2mm
20				61-E.O.H.
20				Bedrock. dk green aphanitic, schistose, mafic metabasaltic

James Shannon

OVERBURDEN DRILLING MANAGEMENT LIMITED
REVERSE CIRCULATION DRILL HOLE LOG

DATE JAN 24 1986 HOLE NO NMO-86-61 LOCATION L 16 E 4100N
 GEOLOGIST D. JAMIESON DRILLER A. BELLIVEAU BIT NO. C.B. 67671 BIT FOOTAGE 331' - 411'
 SHIFT HOURS _____ MOVE TO HOLE 4:35 - 4:40
 _____ TO _____ DRILL 4:40 - 6:00
 TOTAL HOURS _____ MECHANICAL DOWN TIME _____
 _____ DRILLING PROBLEMS _____
 CONTRACT HOURS _____ OTHER _____
 _____ MOVE TO NEXT HOLE _____

DEPTH IN FEET	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
				ICE 17' WATER 36' CASING 34'
				36'-40' No Return <u>CLAY</u> 40'-42' - grey smooth clay 42'-52' grey clay followed by chocolate br brown clay 52'-62' chocolate brown clay 62'-72' chocolate brown clay followed by grey clay 72'-78' grey clay
				<u>TILL</u> 78'-83.5' fine grey sandy matrix pebbly 50% granitics 50% volcanics
				<u>BEDROCK</u> 83.5' strongly foliated medium green mafic volcanic 20 to 30% white milky quartz
80			01 02	86' E.O.H. Bedrock - med to dk. green, aphanitic, schistose - matrix - chlorite to chlorite-sericite schist (binoc. mic.)
100				

OVERBURDEN DRILLING MANAGEMENT LIMITED
REVERSE CIRCULATION DRILL HOLE LOG

DATE 25 JAN 1986

HOLE NO NMO-86-62 LOCATION L106 8+00N
GEOLOGIST SHANNON DRILLER PORTIN BIT NO. J000368 BIT FOOTAGE 453-464

SHIFT HOURS
_____ TO _____

MOVE TO HOLE _____
DRILL 8:15 - 9:05

TOTAL HOURS _____


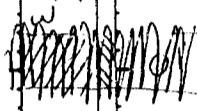
MECHANICAL DOWN TIME _____

CONTRACT HOURS _____

DRILLING PROBLEMS _____

OTHER _____

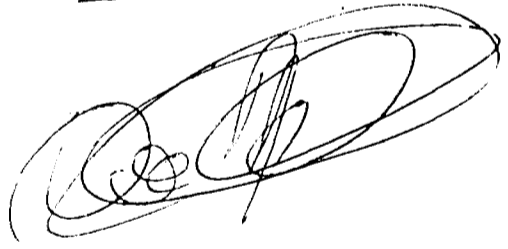
MOVE TO NEXT HOLE _____

DEPTH IN FEET	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
	W			18" ICE
	W			8' WATER
	W			
			01	
				BEDROCK
20				- Dark green
				- 10% white (carbonate or quartz)
				- mildly foliated
40				E.O.H. 11'
				<i>James Shannon</i>
60				Bedrock. red green, weak-mud sltn, v. fine banding, weakly siliceous. to Int(?) metabasaltic ash tuff?
80				

OVERBURDEN DRILLING MANAGEMENT LIMITED
REVERSE CIRCULATION DRILL HOLE LOG

DATE JAN. 25 19 86
SHIFT HOURS _____
TO _____
TOTAL HOURS _____
CONTRACT HOURS _____

HOLE NO NMO-86-23 LOCATION L 16+00E 6+00 N
GEOLOGIST X DRILLER BELLIVEAU BIT NO. CB-767L BIT FOOTAGE 417'-49'
MOVE TO HOLE _____
DRILL 8:30 - 10:30
MECHANICAL DOWN TIME _____
DRILLING PROBLEMS _____
OTHER _____
MOVE TO NEXT HOLE 10:30 - 10:40

DEPTH IN FEET	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
0				ICE THICKNESS 17in.
10				WATER DEPTH 40ft.
20				NO RETURN 40' to 52'
30				CLAY 52' to 70'
40				-gray
50				-soft and smooth
60				TILL 70' to 71'
70				(to. small for sample)
80				-fine sand matrix
90				BEDROCK 71' to 75'
100				-mafic Vol
110				-strongly foliated
120				-medium green
130				-oxydation of Vol. at 73'
140				E. O. H.
150				
160				Bedrock med green strongly
170				foliated to schistose locally
180				oxidized carbonate - mafic int
190				metavolcanic possibly volcanoclastic
200				(b. noc. mic.)

REVERSE CIRCULATION DRILL HOLE LOG

DATE JAN 25 19 86

HOLE NO NMC-8674 LOCATION 4622102E 8400N

GEOLOGIST ROOPDA DRILLER FORTIN BIT NO. J000369 BIT FOOTAGE 464-509

SHIFT HOURS
____ TO ____

MOVE TO HOLE 9:05 - 9:20

TOTAL HOURS

DRILL 9:20 - 11:50

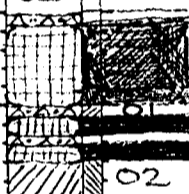
MECHANICAL DOWN TIME _____

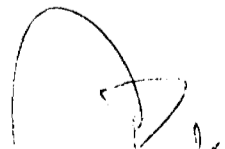
CONTRACT HOURS

DRILLING PROBLEMS _____

OTHER _____

MOVE TO NEXT HOLE _____

DEPTH IN FEET	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
				ICE THICKNESS 19"
				WATER DEPTH 35'
				CASING SET TO 33'
				Bedrock - med. dk green-grey, v. fine banding, possible v. fine frags, weak mod foln. mafic-int metavolcanic - possibly volcanoclastic
20				35-35.5 TILL - fine green sand matrix - 50% granitics - 50% volcanics - no sample.
				35.5-40' BOULDER - light green - mild foliation.
40				40-40.5' TILL - pebbly - 20% granitics, orange, pink - 80% volcanics, med to dark green - heavy, fine, green sandy matrix
				40.5-41.5 BOULDER - light green. - medium foliation
60				41.5-42 TILL - same as till from 40-40.5'
				42-43 BOULDER - same as boulder from 40.5-41.5'
				43-45' BEDROCK - mild foliation - light green flakes.
80				EOH 45'



OVERBURDEN DRILLING MANAGEMENT LIMITED
REVERSE CIRCULATION DRILL HOLE LOG

DATE JUN 25 19 86 HOLE NO NMD 86 65 LOCATION L16+00E - B+00N
 GEOLOGIST BLISS DRILLER BELLIVEAR BIT NO. CD67671 BIT FOOTAGE 492-602
 SHIFT HOURS _____ MOVE TO HOLE 10:40 - 10:45
 _____ TO _____ DRILL 10:45 - 12:30
 TOTAL HOURS _____ MECHANICAL DOWN TIME _____
 CONTRACT HOURS _____ DRILLING PROBLEMS _____
 _____ OTHER _____
 _____ MOVE TO NEXT HOLE 12:30 - 1:15

DEPTH IN FEET	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
				<p>ICE THICKNESS 16" WATER DEPTH 47'</p> <p>Bedrock. pl. grey-green mud to strong foliation, locally abundant pyrite - probably volcanoclastic unit, presence of sericite indicates intermediate felsic? (binoc. mic.)</p> <p><i>Matthew Bliss</i></p> <p>47 to 72 feet NO RETURN assumed soft saturated soft and smooth slays.</p> <p>72 feet CLAY (grey) GRAY SOFT AND SMOOTH</p> <p>85 feet CLAY BROWN SOFT AND SMOOTH</p>
90				<p>95 feet GRAY CLAY as above</p> <p>103.5 feet TILL PEBBLY 60-70% VOLCANICS 30-40% GRAN. FCS FINE SANDY GRAY MATRIX.</p>
100				<p>107.5 feet BEDROCK MEDIUM GREEN MEDIUM FOLIATION MAFIC VOLCANIC LITTLE TO NO QUARTZ.</p>

107.5 feet

OVERBURDEN DRILLING MANAGEMENT LIMITED
REVERSE CIRCULATION DRILL HOLE LOG

DATE 25 JAN 1986

HOLE NO NMD-86-66 LOCATION L226 6400N
GEOLOGIST SHANNON DRILLER FERTIN BIT NO. J000368 BIT FOOTAGE 509-571

SHIFT HOURS
_____ TO _____

MOVE TO HOLE 11:50 12:00
DRILL 12:00 - 1:20

TOTAL HOURS

MECHANICAL DOWN TIME _____

CONTRACT HOURS

DRILLING PROBLEMS _____

OTHER _____


MOVE TO NEXT HOLE _____

DEPTH IN FEET	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
				17" ICE
				37' WATER
				33' CASING
				No RETURN - 37-53
20				TILL - 53-58
				- fine grey sand matrix
				- 60% volcanic
				- 40% various
				- pink (granite)
				- white (quartz or carbonate)
				- black
				BEDROCK 58-62
				- highly foliated
				- medium green
				- 100% volcanic
				- occasional piece of white
60			01	
			02	
80				
				Bedrock - aphanitic, dk green schistose - chlorite schist with high qtz-carb vein content.
100				

James Shannon

OVERBURDEN DRILLING MANAGEMENT LIMITED
REVERSE CIRCULATION DRILL HOLE LOG

DATE JAN 25 1986 HOLE NO UMO-86-68 LOCATION L 27+00 E S+00 N
 GEOLOGIST BOORDA DRILLER FORTIN BIT NO. J000368 BIT FOOTAGE 571-610
 SHIFT HOURS _____ MOVE TO HOLE 1:30 - 1:50
 _____ TO _____ DRILL 1:50 - 3:00
 TOTAL HOURS _____ MECHANICAL DOWN TIME _____
 CONTRACT HOURS _____ DRILLING PROBLEMS _____
 _____ OTHER _____
 _____ MOVE TO NEXT HOLE _____

DEPTH IN FEET	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
0	~			ICE THICKNESS 18" WATER DEPTH 42'
20	~			
40	~			42-46' BEDROCK - dark green - 20% quartz - med to heavy foliation
46	EH		01	EOH 46'
60				
80				Bedrock - dk green, aphanitic, schistose, chlorite schist.

OVERBURDEN DRILLING MANAGEMENT LIMITED
REVERSE CIRCULATION DRILL HOLE LOG

DATE JAN. 25 19 86 HOLE NO NMU-86-69 LOCATION L34+00E 2100 S
 GEOLOGIST BUSS DRILLER BELLIVEAU BIT NO. CB67071 BIT FOOTAGE 663-74
 SHIFT HOURS _____ MOVE TO HOLE 3:20 - 3:30
 _____ TO _____ DRILL 3:30 - 5:45
 TOTAL HOURS _____ MECHANICAL DOWN TIME _____
 _____ DRILLING PROBLEMS _____
 CONTRACT HOURS _____ OTHER _____
 _____ MOVE TO NEXT HOLE 5:45 to 6:00 p.m.

DEPTH IN FEET	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
	W			ICE THICKNESS 17" WATER DEPTH 43' CASING 54'
	W			
	W			
	W			
	W			
20	W			
	W			
	W			
	W			
	W			
	W			
	W			
40	W			
	W			
				<i>Matthew Blain</i>
				43 to 65 feet NO RETURN assumed saturated soft and smooth clays.
				65 feet GRAY CLAY SOFT/SMOOTH
60				72 feet GRAY CLAY CRITTY
				81-84 feet TILL GRAY FINE SANDY MATRIX 50% VOLCANICS 5% GRANITICS
				PEBBLY
80			01	84 feet BEDROCK (?) VERY SLOW DRILLING
			02	95% VOLCANICS WITH TRACE OF GRANITICS AND SANDY GRAY FINE MATRIX
				84.5 feet BEDROCK - LIGHT TO MEDIUM GREEN - MASSIVE FINE CRYSTALLINE MAFIC VOLCANICS - HEAVILY FOLIATED TRACE OF QUARTZ CUBES DISSEMINATED IN VOLCANICS.
100				

86 ft. E.O.H.

DATE 25 JAN 1986
 SHIFT HOURS _____
 _____ TO _____
 TOTAL HOURS _____
 CONTRACT HOURS _____

HOLE NO NMO-86-70 LOCATION L46E 200N
 GEOLOGIST SHANNON DRILLER FORTIN BIT NO. J20038 BIT FOOTAGE 617-64
 MOVE TO HOLE 3:00 - 3:15
 DRILL 3:20 - 4:10
 MECHANICAL DOWN TIME _____
 DRILLING PROBLEMS _____
 OTHER _____
 MOVE TO NEXT HOLE _____

DEPTH IN FEET	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
				17" ICE
				24' WATER
				Till - 25-29
				- fine grey matrix
				- 70% volcanic
				- 30% various
				- granite
				- quartz or carbonate
				- block
				BEDROCK 29-32
				- Dark green
				- medium foliation
				- 100% volcanic
				32 E.O.H
				<i>James Shannon</i>
				Bedrock - dk green, ophanitic, weak. mod foliation, mafic retrovolcanic (flow?)

OVERBURDEN DRILLING MANAGEMENT LIMITED
REVERSE CIRCULATION DRILL HOLE LOG

DATE JAN. 26 19 86 HOLE NO NMD-86-71 LOCATION L 34+00E 4+00S
 GEOLOGIST X DRILLER BELLEVILLE BIT NO. CB-6767L BIT FOOTAGE 749'-82'
 SHIFT HOURS _____ MOVE TO HOLE _____
 _____ TO _____ DRILL 10:30-1:30
 TOTAL HOURS _____ MECHANICAL DOWN TIME CHUCK SEAL SHOT 2 1/2 hrs. DOWN TIME
 _____ DRILLING PROBLEMS _____
 CONTRACT HOURS _____ OTHER _____
 _____ MOVE TO NEXT HOLE _____

DEPTH IN FEET	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
50	u u u u			ICE THICKNESS = 19 in. WATER DEPTH = 59 ft. NO RETURN 59' to 92'
60				CLAY 92' to 126.5' - soft and smooth - gray
70				102' brown 110' gray
80				BEDROCK 126.5 to 129' - mafic vol. - medium to dark green 1% quartz
90				E. O. H.
100				<u>NOTE</u> - FROM 112' to 126' WATER WAS DIRTY WITH METALLIC QUALITIES BUT NO MATRIX OR OTHER PROPERTIES COULD BE FOUND IN IT.
120				AT 126' A GRAY SMOOTH AND SOFT CLAY CAME THROUGH FOLLOWED BY CLEAN BEDROCK CHIPS!
130	E.O.H.		01	EXCESSIVE WATER AT 126' PROBABLY FRACTURED ZONE

OVERBURDEN DRILLING MANAGEMENT LIMITED
REVERSE CIRCULATION DRILL HOLE LOG

DATE JAN 25 19 86 HOLE NO NM0-86-77 LOCATION L 46+00 E B
 GEOLOGIST _____ DRILLER _____ BIT NO. _____ BIT FOOTAGE 645-728
 SHIFT HOURS _____ MOVE TO HOLE _____
 _____ TO _____ DRILL _____
 TOTAL HOURS _____ MECHANICAL DOWN TIME _____
 _____ DRILLING PROBLEMS _____
 CONTRACT HOURS _____ OTHER _____
 _____ MOVE TO NEXT HOLE _____

DEPTH IN FEET	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
0	u			ICE THICKNESS 17'
5	u			WATER DEPTH 45'
10	u			CASING SET TO 43'
15	u			
20	u			
25	u			45-77' CLAY
30	u			- no return.
35	u			
40	u			77-79' TILL
45	u			- 10% granitics, orange, white, black
50	u			- 90% volcanics, dark green
55	u			- heavy, fine, green, sandy matrix
60	u			- pebbly
65	u			79-82' BEDROCK
70	u			- pale green, quartz
75	u			- med foliation
80	u			- 1% pyrite
85	u			EOH 82'
90	u			
95	u			
100	u			

80	0-2	01
80	2-3	02
80	EOH	
100		

Bedrock - pl. tan, schistose, highly sericite, some carbonate, pyrite aggregates (bands), sericite schist.

OVERBURDEN DRILLING MANAGEMENT LIMITED
REVERSE CIRCULATION DRILL HOLE LOG

DATE JAN 26 19 86

HOLE NO NMO-86-73 LOCATION L. 34 E 1400N
GEOLOGIST D. JAMIESON DRILLER A. SULLIVAN BIT NO. C867671 BIT FOOTAGE 878'-93'

SHIFT HOURS
____ TO ____

MOVE TO HOLE 2:00 - 2:50
DRILL 2:50 - 4:20

TOTAL HOURS

MECHANICAL DOWN TIME _____
DRILLING PROBLEMS _____

CONTRACT HOURS

OTHER _____
MOVE TO NEXT HOLE _____

DEPTH IN FEET	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
				ICE 18" WATER 25'
20				
				CLAY 25'-45' soft smooth grey clay followed by soft smooth grey chocolate brown clay
40				GRAVEL 45'-49' medium to coarse sand, pebbles 30% granitic 30% volcanics
			01	49'-53' coarse sand, abundant cuttings (cobbley)
			02	TILL 53'-54'
			03	- fine grey sandy matrix
			04	- pebbly 50% granitic 50% volcanics
60				BEDROCK 54'-57'
				- weakly foliated, med. to dark green mafic volcanic - 5-10% qtz. - 1% py.
80				57' E.O.H.

OVERBURDEN DRILLING MANAGEMENT LIMITED
 REVERSE CIRCULATION DRILL HOLE LOG

DATE JAN. 26 1986 HOLE NO NMD-86-74 LOCATION L46+00E - 4+00N
 GEOLOGIST BLISS DRILLER G. FORTIN BIT NO. JUNO368 BIT FOOTAGE 728-751
 SHIFT HOURS _____ MOVE TO HOLE 9:00 to 9:30
 _____ TO _____ DRILL 10:45 to 11:20
 TOTAL HOURS _____ MECHANICAL DOWN TIME _____
 CONTRACT HOURS _____ DRILLING PROBLEMS _____
 _____ OTHER WARM UP EQUIPMENT (DEFROST) 8:00 to 9:00
 _____ MOVE TO NEXT HOLE 9:30 to 10:45.

DEPTH IN FEET	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
0				ICE THICKNESS 16" WATER DEPTH 19'
19	W W W W W W W W W W W W			19-20.5 NO RETURN assumed saturated clays. (soft and smooth).
20			01	20.5 feet GRAY CLAY gritty and soft.
20.5				20.5/21 feet BEDROCK FELSIC VOLCANIC FINE GRAINED VERY LIGHT GREEN LIGHT QUARTZ (SiO ₂) CONTENT HEAVILY FOLIATED. 23 E.O.H.
40				
60				
80				

Matthew Bliss

BINOC. MICROSCOPE: - mainly quartz
and sericite, with minor amounts
of mafic minerals; some fragments
show strong foliation - felsic dyke?

OVERBURDEN DRILLING MANAGEMENT LIMITED
REVERSE CIRCULATION DRILL HOLE LOG

DATE JAN 26 19 86 HOLE NO NMO-86-75 LOCATION 40+00E 500N
 GEOLOGIST X DRILLER BELVAHAI BIT NO. CR 6767L BIT FOOTAGE 935.90
 SHIFT HOURS 4:30 - 4:30
 TO _____
 DRILL 4:30 - 5:30
 TOTAL HOURS _____
 MECHANICAL DOWN TIME _____
 DRILLING PROBLEMS _____
 CONTRACT HOURS _____
 OTHER _____
 MOVE TO NEXT HOLE _____

DEPTH IN FEET	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
0	u			ICE THICKNESS = 17in
0	u			WATER DEPTH = 15 ft.
0	u			
0	u			
0	u			
0	u			
0	u			
15	u			Till clays 15' to 22.5'
15	△			- fine sand matrix
15	△		01	- slightly cobbly
20	△			
20	△			
22.5	///			BEDROCK 22.5' to 27'
22.5	///		02	- mafic Vol.
22.5	///			- dark green
27	///			E.O.H.
40				
60				
80				

OVERBURDEN DRILLING MANAGEMENT LIMITED
REVERSE CIRCULATION DRILL HOLE LOG

DATE 26 JAN. 1986

HOLE NO NMO-86-76 LOCATION L46E 6100N

SHIFT HOURS
____ TO ____

GEOLOGIST SHANNON DRILLER FORTIN BIT NO. 51000368 BIT FOOTAGE 751-773

TOTAL HOURS

MOVE TO HOLE 11:30 - 12:30
DRILL 12:30 - 2:00

CONTRACT HOURS

MECHANICAL DOWN TIME _____

DRILLING PROBLEMS _____

OTHER _____

MOVE TO NEXT HOLE _____

DEPTH IN FEET	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
0	W			16" ICE
1	W			12' WATER
2	W			15' CONTACT
3	W			
4	W			
5	W			
6	W			
7	W			
8	W			
9	W			
10	W			
11	W			
12	W			
13	W			
14	W			
15	W			
16	W			
17	W			
18	W			
19	W			
20	W		02	TILL - 17-18 - fine grey matrix - 80% volcanic - 20% granitic
21	W			
22	W			
23	W			
24	W			
25	W			
26	W			
27	W			
28	W			
29	W			
30	W			
31	W			
32	W			
33	W			
34	W			
35	W			
36	W			
37	W			
38	W			
39	W			
40	W			
41	W			
42	W			
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88	W			
89	W			
90	W			
91	W			
92	W			
93	W			
94	W			
95	W			
96	W			
97	W			
98	W			
99	W			
100	W			

TILL - 17-18

- fine grey matrix
- 80% volcanic
- 20% granitic

BEDROCK - 18-21

- medium green
- medium foliation
- 100% volcanic

E.O.H. 21

James Shannon

BINOC. MICROSCOPE: fine to medium grained, medium green gabbro; 60-70% soft pale green chips (carbonate?)

OVERBURDEN DRILLING MANAGEMENT LIMITED
REVERSE CIRCULATION DRILL HOLE LOG

DATE JAN. 27 19 86

SHIFT HOURS
____ TO ____

TOTAL HOURS

CONTRACT HOURS

HOLE NO NM0-86-77 LOCATION L 40+00 E 10+00 N

GEOLOGIST X DRILLER BELLIVEAU BIT NO. C867671 BIT FOOTAGE 952-100

MOVE TO HOLE _____
DRILL 9:00 - 12:45

MECHANICAL DOWN TIME _____

DRILLING PROBLEMS RAN OUT OF RODS 3hr WAIT FOR MORE

OTHER _____

MOVE TO NEXT HOLE _____

DEPTH IN FEET	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
0	u			ICE THICKNESS = 18 in.
1	u			WATER DEPTH = 37 ft.
2	u			NO RETURN 37'-39'
3	u			
4	u			
5	u			
6	u			
7	u			
8	u			
9	u			
10	u			
11	u			
12	u			
13	u			
14	u			
15	u			
16	u			
17	u			
18	u			
19	u			
20	u			
21	u			
22	u			
23	u			
24	u			
25	u			
26	u			
27	u			
28	u			
29	u			
30	u			
31	u			
32	u			
33	u			
34	u			
35	u			
36	u			
37	u			
38	u			
39	u			
40	Δ		01	TILL 39'to 43.5'
41	Δ			- fine sand matrix
42	Δ			- slightly cobbly
43	Δ			1% quartz
44	Δ			
45	Δ			
46	Δ			
47	Δ			
48	Δ			
49	Δ			
50	Δ			
51	Δ			
52	Δ			
53	Δ			
54	Δ			
55	Δ			
56	Δ			
57	Δ			
58	Δ			
59	Δ			
60	Δ			
61	Δ			
62	Δ			
63	Δ			
64	Δ			
65	Δ			
66	Δ			
67	Δ			
68	Δ			
69	Δ			
70	Δ			
71	Δ			
72	Δ			
73	Δ			
74	Δ			
75	Δ			
76	Δ			
77	Δ			
78	Δ			
79	Δ			
80	Δ			
81	Δ			
82	Δ			
83	Δ			
84	Δ			
85	Δ			
86	Δ			
87	Δ			
88	Δ			
89	Δ			
90	Δ			
91	Δ			
92	Δ			
93	Δ			
94	Δ			
95	Δ			
96	Δ			
97	Δ			
98	Δ			
99	Δ			
100	Δ			

ICE THICKNESS = 18 in.
WATER DEPTH = 37 ft.
NO RETURN 37'-39'

TILL 39'to 43.5'
- fine sand matrix
- slightly cobbly
1% quartz

BEDROCK 43.5 to 48
- medium to dark green
- massive mafic Volc.
- fine grain

E. O. H.

60
80
100

Bedrock (microscope) - fine to medium grained, medium green gabbro; massive to weakly foliated with plagioclase being oriented in the plane of foliation; minor glass quartz with red iron staining

OVERBURDEN DRILLING MANAGEMENT LIMITED
 REVERSE CIRCULATION DRILL HOLE LOG

DATE JAN. 26 1986 HOLE NO NMO-86-78 LOCATION L46 + 0.2C 8400N
 GEOLOGIST BLISS DRILLER G. FORJAN BIT NO. J000368 BIT FOOTAGE 772-831
 SHIFT HOURS _____ MOVE TO HOLE 2:00-2:15
 _____ TO _____ DRILL 2:15-4:00
 TOTAL HOURS _____ MECHANICAL DOWN TIME _____
 _____ DRILLING PROBLEMS _____
 CONTRACT HOURS _____ OTHER 2 LENGTHS OF CASING LOST; CASING BROKE AT THREADS
AND ~~WAS REPAIRED~~ (20+2 ft CUTTING LENGTH) THIRD LENGTH SALVAGED

DEPTH IN FEET	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
				<p>WATER DEPTH 50' ICE THICKNESS 17" CASING (N) 54'</p>
20	W			<p>49 feet TILL PEBBLY GRAY FINE SANDY MATRIX 50-60% GRANITICS 40-50% VOLCANICS TRACES OF PYRITE.</p>
40	W			<p>56 feet BEDROCK DARK GREEN MEDIUM TO COARSE GRAINED MAFIC INTRUSIVE GABBRO. TRACE OF PYRITE. MILD FOLIATION</p>
60	Δ		01	
	Δ		02	
				<p>58 feet INCREASED QUARTZ CONTENT</p>
				<p>59 feet E.O. H.</p>
80				<p>Bliss</p>
				<p>Matthaeus</p>
100				<p>BEDROCK (Binocular Microscope) - fine to medium grained, massive gabbro; very fine grained pyrite in 1mm aggregates; minor qtz; minor amount of soft calcareous chips with fine gr. pyrite</p>

OVERBURDEN DRILLING MANAGEMENT LIMITED
REVERSE CIRCULATION DRILL HOLE LOG

DATE JAN 27 1986 HOLE NO NMO-86-79 LOCATION L40E 8400N
 GEOLOGIST D. JAMIESON DRILLER A. BELLIVEAU BIT NO. SR 6767 BIT FOOTAGE 100-1039
 SHIFT HOURS _____ MOVE TO HOLE 12:45-12:50
 _____ TO _____ DRILL 12:50-1:50
 TOTAL HOURS _____ MECHANICAL DOWN TIME _____
 _____ DRILLING PROBLEMS _____
 CONTRACT HOURS _____ OTHER _____
 _____ MOVE TO NEXT HOLE _____

DEPTH IN FEET	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
				17" ICE 26' WATER
20				26'-31.5' No Return 31.5' till - no sample
				31.5-30 31.5'-35' boulder - dark green massive mafic volcanic
40				35'-39' bedrock - white, yellow light green and dark green platy chips. - cryptocrystalline - white + pale green chips resemble chert - PY 3%
60				39' E.O.H.
				David Jamieson



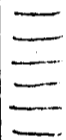
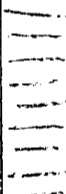

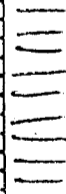

80


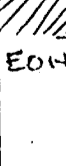

Bedrock (here microscopically) grey to grey green, aphanitic, strongly foliated but, occasionally showing fine grained crystals of plagioclase. Cryptocrystalline white-grey cherty fragments are platy and show some red-orange iron staining. These make up 40-50% of the chips. minor PY

100

OVERBURDEN DRILLING MANAGEMENT LIMITED
REVERSE CIRCULATION DRILL HOLE LOG

DATE JAN 27 19 86 HOLE NO NMO-86-80 LOCATION L46+00E 10+00N
 GEOLOGIST BOB DA DRILLER CORTIN BIT NO J000349 BIT FOOTAGE 0-134
 SHIFT HOURS _____ MOVE TO HOLE _____
 _____ TO _____ DRILL 10:00 - 12:15
 TOTAL HOURS _____ MECHANICAL DOWN TIME _____
 _____ DRILLING PROBLEMS _____
 CONTRACT HOURS _____ OTHER NEW BIT NEW SUB
 _____ MOVE TO NEXT HOLE _____

DEPTH IN FEET	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
60				WATER DEPTH 67' ICE THICKNESS 19" CASING SET TO 63'
70				67-129' CLAY - no return - at 129' firm green clay
80				129-131' BOULDER - orange, black & white - granite
90				131-134' BEDROCK - med green - mafic intrusive - 10% quartz
100				EDH 134'
110				

130				BEDROCK (BIND. MICROSCOPE) - medium grained, medium green gabbro 5% milky white to clear qtz. containing minor amounts of py
145				
150				

OVERBURDEN DRILLING MANAGEMENT LIMITED
REVERSE CIRCULATION DRILL HOLE LOG

DATE JAN. 27 19 86

SHIFT HOURS
_____ TO _____

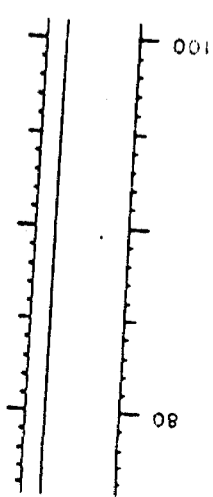
TOTAL HOURS

CONTRACT HOURS

HOLE NO NMO-86-21 LOCATION L 40+00E 6+00N
GEOLOGIST X DRILLER BELLEVUE BIT NO. CB6767L BIT FOOTAGE 1039-1067
MOVE TO HOLE 2:00 - 2:05
DRILL: 2:05 - 2:45
MECHANICAL DOWN TIME _____
DRILLING PROBLEMS _____
OTHER _____
MOVE TO NEXT HOLE _____

DEPTH IN FEET	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
0	u			ICE THICKNESS = 16in. WATER DEPTH = 20ft
10	u			NO RETURN 20' to 21'
20	u			CLAY 21' to 21.5' - brown - soft and smooth
21.5	Δ		01	
24.5	///		02	TILL 21.5' to 24.5' - fine sand matrix - 5% quartz
40				BEDROCK 24.5' to 28' - mildly foliated - mafic Volc. - dark green - 5% quartz
60				E ₀ O ₀ H ₀

Bedrock (medium greenish mafic volcanic) - dark green, moderately foliated, silicified (10% quartz) mafic volcanic mineral fine grained py.



OVERBURDEN DRILLING MANAGEMENT LIMITED
REVERSE CIRCULATION DRILL HOLE LOG

DATE JAN 27 1986 HOLE NO NMD 86-82 LOCATION L52+100E 6+00N
 GEOLOGIST BLISS DRILLER C. FORTIN BIT NO. 1000369 BIT FOOTAGE 139-198
 SHIFT HOURS _____ MOVE TO HOLE 2:00 to 2:15 p.m.
 _____ TO _____ DRILL 2:30 to 5:00 p.m.
 TOTAL HOURS _____ MECHANICAL DOWN TIME 2:15 to 2:30 BROKEN FUEL LINE ON TREE HALLER
 _____ DRILLING PROBLEMS _____
 CONTRACT HOURS _____ OTHER _____
 _____ MOVE TO NEXT HOLE 5:00 to 5:20 p.m.

DEPTH IN FEET	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
				ICE THICKNESS 17"
				WATER DEPTH 43"
				CASING DEPTH 44'
20				BEDROCK (BINOC. microscope) - medium green weakly foliated; elongate, prismatic black mafic mineral in a fine grained greenand white gabbroic or mafic volcanic matrix give a porphyritic texture; 5% quartz mafic porphyry?
				43 to 49.5 feet NO RETURN CLAY assumed saturated, soft and smooth.
40				49.5 to 56.5 feet TILL - fine sandy gray matrix - pebbly 60% GRANITICS 40% VOLCANICS
			01	54.5 feet NEW SAMPLE OF TILL MATRIX AS ABOVE.
			02	60% VOLCANICS (PEBBLY)
			03	40% GRANITICS
60				traces of pyrite in volcanics.
				56.5 to 59 feet BEDROCK DARK GREEN FINE CRYSTALLINE HIGH CONTENT OF VERY DARK GREEN TO BLACK MINERALS. MAFIC VOLCANIC MILD FOLIATION
80				59 feet E.O.H - higher concentration of light green flaky soft minerals at this depth.
100				

Matthew Bliss

OVERBURDEN DRILLING MANAGEMENT LIMITED
REVERSE CIRCULATION DRILL HOLE LOG

DATE JAN 27 19 86

SHIFT HOURS
_____ TO _____

TOTAL HOURS

CONTRACT HOURS

HOLE NO NMO-86-83 LOCATION L 69E 4700N
GEOLOGIST D. JAMIESON DRILLER A. BELLIVEAU BIT NO. C36767 BIT FOOTAGE 1067-1116

MOVE TO HOLE 2:45-3:10
DRILL 3:10-4:45

MECHANICAL DOWN TIME _____

DRILLING PROBLEMS _____

OTHER _____

MOVE TO NEXT HOLE 4:45-5:00

DEPTH IN FEET	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
				ICE 20"
				WATER 43'
				CASING 44'
				43'-48' No Return
20				48' Bedrock
				- strongly foliated, light to med. green
				- fine grained mafic volcanic
				- 25% qtz.
40				51' E.O.H.
				<i>David Jamieson</i>
60				Bedrock (microscope) - light to medium green, moderately foliated, moderately silicified (10-20% qtz)
				fine grained mafic volcanic; minor fine grained py ass. with qtz.
80				

OVERBURDEN DRILLING MANAGEMENT LIMITED
REVERSE CIRCULATION DRILL HOLE LOG

DATE JAN 28 1986 HOLE NO NMO-86-84 LOCATION L58+00E - 8+00N
 GEOLOGIST BLISS DRILLER C FORTIN BIT NO. J000369 BIT FOOTAGE 198-276
 SHIFT HOURS _____ MOVE TO HOLE _____
 _____ TO _____ DRILL 9:15 to 11:00
 TOTAL HOURS _____ MECHANICAL DOWN TIME _____
 _____ DRILLING PROBLEMS _____
 CONTRACT HOURS _____ OTHER 8:00 to 9:15 DEFROST (MORNING PREP.)
 _____ MOVE TO NEXT HOLE _____

DEPTH IN FEET	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
				ICE THICKNESS 19" WATER DEPTH 52' CASING DEPTH(N) 54'
				<u>BINOC. MICROSCOPE: moderately foliated, light green, fine grained; 5% soft green chips (carbonate) - silicified mafic volcanic</u>
				<u>Matthew Bliss</u>
				52 feet NO RETURN CLAY assumed saturated soft and smooth.
				60-67 feet CLAY GRAY, soft and smooth.
				67-70 feet TILL PEBBLY, FINE GRAY SANDY MATRIX.
				67-69 feet 70% GRANITICS. 30% VOLCANICS.
			01	69-70 feet 60% VOLCANICS. 40% GRANITICS.
			02	70-70.5 feet VOLCANIC BOULDER.
			03	70.5 to 75.5 feet TILL MATRIX AS ABOVE PEBBLY 40% VOLCANICS 60% GRANITICS
				75.5 to 78 feet BEDROCK MAFIC VOLCANIC MEDIUM GREEN HEAVILY FOLIATED LINEATION OF LIGHT AND DARK MINERALS.
				78 feet E.O.H.

OVERBURDEN DRILLING MANAGEMENT LIMITED
REVERSE CIRCULATION DRILL HOLE LOG

DATE JAN 28 1986 HOLE NO NMC-86-85 LOCATION L 64E 6100N
 GEOLOGIST D. JAMIESON DRILLER A. BELLINENI BIT NO. CR 67631 BIT FOOTAGE 1118' - 1192'
 SHIFT HOURS _____ MOVE TO HOLE _____
 _____ TO _____ DRILL 8:45 - 10:45
 TOTAL HOURS _____ MECHANICAL DOWN TIME _____
 _____ DRILLING PROBLEMS _____
 CONTRACT HOURS _____ OTHER _____
 _____ MOVE TO NEXT HOLE _____

DEPTH IN FEET	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
				20" ICE
				44' WATER
				44' CASING
				44'-51' No Return
20				<u>CLAY</u> 51'-64'
				Chocolate brown soft smooth clay
				<u>TILL</u> 64'-68.5' Sandy to silty matrix
40				pebbly 70% volcanics
				30% granitics
				68.5'-71' granitic mafic volcanic boulder
				71'-74' granodiorite boulder.
				BEDROCK NOT REACHED
60				74' F.O.H.
			01	
			02	
				David Jamieson
80				BINDC MICROSCOPE :
				1/2 the chips are moderately to strongly foliated, very fine grained mafic volcanic, half are mainly quartz with minor amounts of green minerals medium grained felsic dyke.

OVERBURDEN DRILLING MANAGEMENT LIMITED
REVERSE CIRCULATION DRILL HOLE LOG

DATE JAN 28 1986 HOLE NO NMU 86-86 LOCATION L58700E - 3100N
 GEOLOGIST ROORDA DRILLER G. FORTIN BIT NO. J000369 BIT FOOTAGE 276-329
 SHIFT HOURS _____ MOVE TO HOLE 11:00 to 11:40
 _____ TO _____ DRILL 11:40 to 1:00
 TOTAL HOURS _____ MECHANICAL DOWN TIME _____
 _____ DRILLING PROBLEMS _____
 CONTRACT HOURS _____ OTHER _____
 _____ MOVE TO NEXT HOLE _____

DEPTH IN FEET	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
				WATER DEPTH 25' ICE THICKNESS 17"
20				25-45 feet NO RETURN CLAY assumed saturated soft and smooth.
40				45 feet TILL PEBBLY 20% GRANITICS 80% VOLCANICS VERY LITTLE FINE SANDY GRAY MATRIX.
			01	45.5 to 48 feet BEDROCK. 40% QUARTZ GABBRO TRACE OF PYRITE APPARENT OXIDATION 2 types of rock BIOG. MICROSCOPE: 1) medium grained quartz and plagioclase crystals in a fine green chlorite/amphibole matrix; minor coarse py - porphyritic gtz gabbro? 2) white, with plagioclase phenocrysts in gtz plagioclase groundmass; green mafic mineral (chlorite) minor - felsic dyke -
60				
80				

OVERBURDEN DRILLING MANAGEMENT LIMITED
 REVERSE CIRCULATION DRILL HOLE LOG

DATE 28 JAN 1986 HOLE NO D.M.C. 86-87 LOCATION L64E 2400N
 GEOLOGIST SHANNON DRILLER A. BOLLING BIT NO. C36763 L BIT FOOTAGE 1192-124
 SHIFT HOURS _____ MOVE TO HOLE 10:45 - 10:55
 _____ TO _____ DRILL 10:55 - 12:20
 TOTAL HOURS _____ MECHANICAL DOWN TIME _____
 CONTRACT HOURS _____ DRILLING PROBLEMS _____
 _____ OTHER _____
 _____ MOVE TO NEXT HOLE _____

DEPTH IN FEET	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
0	W			19" ICE
5	W			51' WATER
10	W			53' CASING
15	W			
20	W			32' - 52' 3" - TILL
25	W			- fine sand matrix (grey)
30	W			- 80% volcanic
35	W			- 20% granitic
40	W			52' 3" - 55' - BEDROCK
45	W			- medium green
50	W			- ~10% white (quartz or carbonate)
55	W			- 90% volcanic
55	W			55' E.O.H.
55	W		02	
60				
70				
80				

James Shannon

fine grained, moderately foliated. some chips show strong qtz-sericite alteration, minor pyrite, mafic volcanic.

OVERBURDEN DRILLING MANAGEMENT LIMITED
REVERSE CIRCULATION DRILL HOLE LOG

DATE JAN 28 19 86 HOLE NO NMO-86-88 LOCATION L 58 T 00E - 2100N
 GEOLOGIST BLISS DRILLER G. FORTIN BIT NO. J000369 BIT FOOTAGE 324-34
 SHIFT HOURS _____ MOVE TO HOLE 1:00 to 1:15
 _____ TO _____ DRILL 1:15 to 2:30
 TOTAL HOURS _____ MECHANICAL DOWN TIME _____
 CONTRACT HOURS _____ DRILLING PROBLEMS _____
 _____ OTHER _____
 _____ MOVE TO NEXT HOLE _____

DEPTH IN FEET	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
0				WATER DEPTH 38' ICE THICKNESS 19"
20				BINOC. MICROSCOPE: fine to medium grained, gabbro, massive; soft pale green chips 10-20% (carbonate)
40				Matthew Bliss
40				38 to 50 feet NO RETURN CLAY assumed saturated soft and smooth.
60				50-60 feet CLAY GRAY, SOFT & SMOOTH.
60				60-67.5 feet CLAY BROWN, SOFT & SMOOTH.
67.5			01	67.5 to 71 feet TILL

80			02	PEBBLY; FINE SANDY GRAY MATRIX; GRAY CLAY. 60% GRANITICS 40% VOLCANICS
100				71-74 feet BEDROCK DARK GREEN MEDIUM TO COARSE CRYSTALLINE GRAINS MAFIC INTRUSIVE GABBRO THIN QUARTZ VEINS (~.5mm) < 5%
100				74 E.O.H.

OVERBURDEN DRILLING MANAGEMENT LIMITED
REVERSE CIRCULATION DRILL HOLE LOG

DATE JAN 28 19 86 HOLE NO NMO-90-89 LOCATION L 64E BL
 GEOLOGIST D. JAMIESON DRILLER A BELLINER BIT NO. F000161 BIT FOOTAGE 0-116'
 SHIFT HOURS _____ MOVE TO HOLE 1:20 - 1:30
 _____ TO _____ DRILL 1:30 - 4:15
 TOTAL HOURS _____ MECHANICAL DOWN TIME _____
 _____ DRILLING PROBLEMS _____
 CONTRACT HOURS _____ OTHER _____
 _____ MOVE TO NEXT HOLE _____

DEPTH IN FEET	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
				17" ICE 67' WATER 64' CASING
				<u>CLAY</u> 67'-82' No Return 82'-92' soft, grey clay 92'-102' soft, grey clay, followed by soft chocolate ^{brown} clay 102'-108' soft chocolate brown clay
				<u>TILL</u> 108'-108.5' fine grey sandy matrix pebbly 60% granitics 40% volcanics 108.5'-109.5' granodiorite boulder 109.5'-113.5' fine grey sandy matrix cobbley 60% granitics 40% volcanics
				<u>BEDROCK</u> 113.5' 113.5'-116' medium green, fine to medium granodiorite 116' E.O.H.
				Daniel Jamieson

OVERBURDEN DRILLING MANAGEMENT LIMITED
REVERSE CIRCULATION DRILL HOLE LOG

DATE JAN 28 19 86

HOLE NO NMO-86-90 LOCATION L58+00E - 4
GEOLOGIST ROBERTA DRILLER G. FORTIN BIT NO. 700369 BIT FOOTAGE 397-48

SHIFT HOURS
_____ TO _____

MOVE TO HOLE 2:30 to 2:35
DRILL 2:35 to 5:00

TOTAL HOURS

MECHANICAL DOWN TIME _____

CONTRACT HOURS

DRILLING PROBLEMS _____

OTHER _____

MOVE TO NEXT HOLE _____

DEPTH IN FEET	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
				ICE THICKNESS 19" WATER DEPTH 53' CASING DEPTH (N) 59'
20				BINOC. MICROSCOPE: medium grained plagioclase and quartz in a fine grained chlorite/amphibole ground mass; up to 5% coarse PY; minor carbonate and sericite - porphyritic qtz - gabbro?
40				53-72 feet NO RETURN CLAY assumed saturated soft and smooth.
60				72-82 feet CLAY GRAY/GREEN SOFT SMOOTH
				82-87 feet CLAY BROWN as above.
80				87 feet BOULDER (VOLCANIC) LIGHT GREEN MEDIUM FOLIATION PYRITE 1%
				87.5 to 90 feet BEDROCK DARK GREEN 40% QUARTZ TRACE OF PYRITE GABBRO
100				90 feet E.O.H.

OVERBURDEN DRILLING MANAGEMENT LIMITED
REVERSE CIRCULATION DRILL HOLE LOG

DATE JAN 28 1986 HOLE NO NMO-86-91 LOCATION L 42E 2100N
 GEOLOGIST D. JAMIESON DRILLER A. BELLVERA BIT NO. F000161 BIT FOOTAGE 116-159'
 SHIFT HOURS _____ MOVE TO HOLE 4:5 - 4:45
 _____ TO _____ DRILL 4:45 - 5:45
 TOTAL HOURS _____ MECHANICAL DOWN TIME _____
 _____ DRILLING PROBLEMS _____
 CONTRACT HOURS _____ OTHER _____
 _____ MOVE TO NEXT HOLE 5:45 - 6:00

DEPTH IN FEET	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
				ICE 17"
				WATER 34'
				CASING 34'
20				<u>CLAY</u> 34'-36' soft grey clay
				<u>TILL</u> 36'-36.5' fine grey sandy matrix; cobbly 50% volcanics 50% granitics
				36.5'-38' granite boulder
40			01	38'-39' fine grey sandy matrix; cobbly 50% volcanics 50% granitics
			02	39'-40' quartzite boulder
				40'-41' fine grey sandy matrix pebbly 50% volcanics 50% granitics
60				<u>BEDROCK</u>
				41'-43' medium green, weakly foliated, very fine grained mafic volcanic; 60% soft, light green chips (carbonate)
80				

OVERBURDEN DRILLING MANAGEMENT LIMITED
REVERSE CIRCULATION DRILL HOLE LOG

DATE JAN 29 19 86 HOLE NO N110-85-92 LOCATION L 28+00E 2+00S
 GEOLOGIST ROORDA DRILLER FORTIN BIT NO. 1000349 BIT FOOTAGE 487-53
 SHIFT HOURS _____ MOVE TO HOLE _____
 _____ TO _____ DRILL 8:30 - 9:55
 TOTAL HOURS _____ MECHANICAL DOWN TIME _____
 _____ DRILLING PROBLEMS _____
 CONTRACT HOURS _____ OTHER _____
 _____ MOVE TO NEXT HOLE _____

DEPTH IN FEET	GRAPHIC LOG	INTERVAL	SAMPLE NO	DESCRIPTIVE LOG
0				ICE THICKNESS 17" WATER DEPTH 31' CASING SET TO 33'
0-31				<u>BINOC. MICROSCOPE</u> : very fine (aphanitic) to fine grained, siliceous, weakly foliated, light green; 15-20% white, milky, clear, or sugary quartz - silicified mafic volcanic
31-47				31-47' CLAY - no return - at 47' chocolate brown soft clay - followed by firm green clay
47-50				47-50' BEDROCK
47-48.5			01	47-48.5' - 90% quartz - mild foliation - dark green
48.5-50				48.5-50' - 20% quartz - trace of pyrite - med foliation
50-53				ECH 50'
53-80				

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OVERBURDEN DRILLING MANAGEMENT LIMITED
 REVERSE CIRCULATION DRILL HOLE LOG

DATE JAN 29 1986 HOLE NO NM0-66-93 LOCATION L 42E BL
 GEOLOGIST D. SAMIUSON DRILLER A. BENJAMIN BIT NO. FUR00161 BIT FOOTAGE 124'-237'
 SHIFT HOURS _____ MOVE TO HOLE _____
 _____ TO _____ DRILL 8:30-11:00
 TOTAL HOURS _____ MECHANICAL DOWN TIME _____
 _____ DRILLING PROBLEMS _____
 CONTRACT HOURS _____ OTHER _____
 _____ MOVE TO NEXT HOLE _____

DEPTH IN FEET	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
				18" ICE
				46' WATER
				44' CASING
20				
				46'-52' No Return
				<u>CLAY</u> 52'-60' chocolate brown clay followed by grey clay
40				
				<u>TILL</u> 60'-61' boulder
				61'-61.5' - fine grey sandy matrix; cobbly 70% granitic 30% volcanic
60				
				61.5
				<u>BEDROCK</u> 61.5'-63' medium green, coarse grained gabbro.
				63' E.O.H
80				
				<i>D. Samiusion</i>

**OVERBURDEN DRILLING MANAGEMENT LIMITED
REVERSE CIRCULATION DRILL HOLE LOG**

DATE 29 JAN. 1986

HOLE NO NMO-86-94 LOCATION L28E QB

SHIFT HOURS
_____ TO _____

GEOLOGIST SHANNON DRILLER FORTIN BIT NO. 300369 BIT FOOTAGE 537-566

TOTAL HOURS

MOVE TO HOLE 9:55 - 10:00
DRILL 10:00 - 11:00

CONTRACT HOURS

MECHANICAL DOWN TIME _____

DRILLING PROBLEMS _____

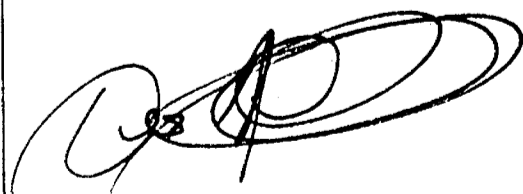
OTHER _____

MOVE TO NEXT HOLE _____

DEPTH IN FEET	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG						
	W			17'6" ICE						
	W			26' WATER						
	W									
	W									
20	W			TILH - 26' - 27'6"						
	W			- fine gray sand matrix						
	W			- 80% volcanic						
	W			- 20% various						
	W	0.1	01	- granite (Pink)						
	W	0.2	02	- brown granite						
				- traces of pynite						
40				BEDROCK - 27'6" - 29'						
				- dark green						
				- medium foliated						
60				G.O.H. 29'						
				<u>BINOC. MICROSCOPE</u> : medium grained, medium green gabbro; massive texture.						
80				James Shannon						


OVERBURDEN DRILLING MANAGEMENT LIMITED
REVERSE CIRCULATION DRILL HOLE LOG

DATE JAN. 29 19 86 HOLE NO NM0-86-95 LOCATION L 64+00 E 8+00 N
 GEOLOGIST X DRILLER BELLIVEAU BIT NO. F000161 BIT FOOTAGE 137'-262'
 SHIFT HOURS _____ MOVE TO HOLE 11:00-11:20
 _____ TO _____ DRILL 11:20-2:00
 TOTAL HOURS _____ MECHANICAL DOWN TIME _____
 _____ DRILLING PROBLEMS _____
 CONTRACT HOURS _____ OTHER _____
 _____ MOVE TO NEXT HOLE _____

DEPTH IN FEET	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
70	u u u u u			ICE THICKNESS = 19 in. WATER DEPTH = 73 ft NO RETURN 73' to 102'
80	[Hatched pattern]			CLAY 102' to 122' -soft and smooth -gray in color
90	[Hatched pattern]			TILL 122' to 123' (not enough for sample) -fine sand matrix
100	[Hatched pattern]			BEDROCK 123' to 125' -gray green in color -moderately foliated -fine grain
120	[Hatched pattern]			-very small amount of fine grain pyrite
130	[Hatched pattern]			1% quartz 10% carbonate
140	[Hatched pattern]			E.O.H.
150	[Hatched pattern]			

OVERBURDEN DRILLING MANAGEMENT LIMITED
REVERSE CIRCULATION DRILL HOLE LOG

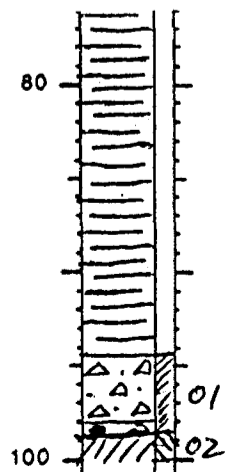
DATE JAN 29 19 86 HOLE NO NMO-86-96 LOCATION L 28+00E 2+00N
 GEOLOGIST ROORDA DRILLER FORTIN BIT NO. 1000369 BIT FOOTAGE 566-600
 SHIFT HOURS _____ MOVE TO HOLE 11:00-11:10
 _____ TO _____ DRILL 11:10-12:10
 TOTAL HOURS _____ MECHANICAL DOWN TIME _____
 _____ DRILLING PROBLEMS _____
 CONTRACT HOURS _____ OTHER _____
 _____ MOVE TO NEXT HOLE _____

DEPTH IN FEET	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
				ICE THICKNESS 17" WATER DEPTH 12'
				20 - 22.5 TILL - poor return - no sample
20			01	
			02	22.5 - 24' BEDROCK - dark green - med foliation - fine crystalline
40				EOH 24'
				
60				<u>BINOC. MICROSCOPE:</u> fine grained, weakly foliated, medium to dark green minor gtz and carbonate - crystal tall?
80				

OVERBURDEN DRILLING MANAGEMENT LIMITED
REVERSE CIRCULATION DRILL HOLE LOG

DATE JAN 29 1986 HOLE NO NMO-86-97 LOCATION L58+00 10+00N
 GEOLOGIST D. JAMIESON DRILLER A. BELLINERU BIT NO. FOOD 161 BIT FOOTAGE 262'-362'
 SHIFT HOURS 2:00 - 2:30
 TO _____ DRILL 2:45 - 5:10
 TOTAL HOURS _____ MECHANICAL DOWN TIME _____
 DRILLING PROBLEMS _____
 CONTRACT HOURS _____ OTHER _____
 MOVE TO NEXT HOLE _____

DEPTH IN FEET	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
				ICE 20" WATER 61" CASING 64'
				61'-72' No Return <u>CLAY</u> 72'-82' grey clay followed by brown clay 82'-94.5' brown clay
				<u>TILL</u> 94.5' - 98' - fine grey sandy to silty matrix - pebbly 60% volcanics 40% granitics
				98' - 98.5' - fine grey sandy matrix - cobbly 70% volcanics 30% granitics
				<u>BEDROCK</u> 98.5' - 100' medium green, medium grained gabbro - 10% soft, pale green chips (carbonate)



100' E.O.H.

David Jamieson

OVERBURDEN DRILLING MANAGEMENT LIMITED
REVERSE CIRCULATION DRILL HOLE LOG

DATE JAN. 29 1986

HOLE NO NM0-86-93 LOCATION L 284006 4725N
GEOLOGIST SHANNON DRILLER FORTIN BIT NO. T00369 BIT FOOTAGE 600-634

SHIFT HOURS
TO

MOVE TO HOLE 12:10-12:05
DRILL 1:10-2:05

TOTAL HOURS

MECHANICAL DOWN TIME

CONTRACT HOURS

DRILLING PROBLEMS

OTHER

MOVE TO NEXT HOLE

DEPTH IN FEET	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
0				17" ICE
3				17' WATER
20				CLAY - 20' - 29'
				- brown then grey
				- very soft
			01	TIHh - 29' - 31'6"
			02	- fine grey sand matrix
				- 20% granite
				- 80% volcanic
				- trace of pyrite
				BEDROCK - 31'6" - 34'
				- medium green
				- highly foliated
				- 5% white
				E.O.H. 34'

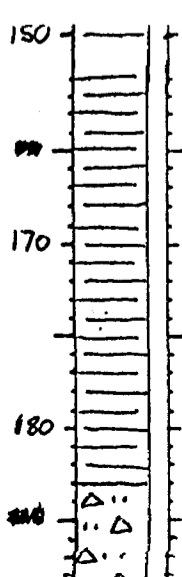
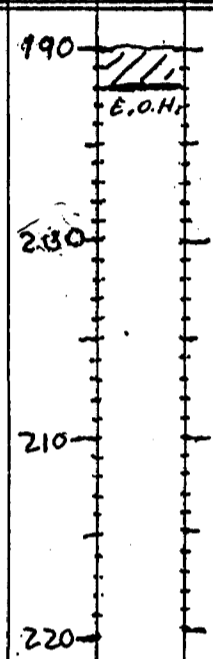
James Shan

BINOC. MICROSCOPE: fine grained, moderately foliated, medium green; minor quartz and carbonate - mafic volcanic

OVERBURDEN DRILLING MANAGEMENT LIMITED
REVERSE CIRCULATION DRILL HOLE LOG

DATE JAN 30 19 86 HOLE NO NMO-86-99 LOCATION L 52 E 10+00E
 GEOLOGIST X DRILLER BELIVEAU BIT NO. J000368 BIT FOOTAGE 0-192'
 SHIFT HOURS _____ MOVE TO HOLE 5:10-5:20
 _____ TO _____ DRILL (CASING 5:20) 8:30-11:40
 TOTAL HOURS _____ MECHANICAL DOWN TIME _____
 _____ DRILLING PROBLEMS _____
 CONTRACT HOURS _____ OTHER NEW BIT
 _____ MOVE TO NEXT HOLE _____

DEPTH IN FEET	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
70	u u u u u			ICE THICKNESS = 17" WATER DEPTH = 78' casing = 84 ft.
80				NO RETURN 78' to 142'
90				CLAY 142' to 183' -soft and smooth -gray in color
100				TILL 183' to 190' -fine sand matrix 40% Vol. 60% Granitics 10% Quartz 1% Pyrite
130				BEDROCK 190' to 192' -large amount of fine sand in sand -dark green -mafic Vol. -carbonates
140				E.O.H.



[Handwritten signature]

BINOC. MICROSCOPE: fine grained, some chips show moderate foliation, 10% soft green chips (carbonate), qtz goethite

OVERBURDEN DRILLING MANAGEMENT LIMITED
 REVERSE CIRCULATION DRILL HOLE LOG

DATE JAN 29 1987 HOLE NO NMO-84100 LOCATION L 28+00E 4+00N
 GEOLOGIST ROBERTA DRILLER FORTIN BIT NO. 1000249 BIT FOOTAGE 634-665
 SHIFT HOURS _____ MOVE TO HOLE 2:05 - 2:10
 _____ TO _____ DRILL 2:10 - 3:00
 TOTAL HOURS _____ MECHANICAL DOWN TIME _____
 CONTRACT HOURS _____ DRILLING PROBLEMS _____
 _____ OTHER _____
 _____ MOVE TO NEXT HOLE _____

DEPTH IN FEET	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
0				ICE THICKNESS 17" WATER DEPTH 17'
17				17-28.5' CLAY - 17-22' no return - at 22' chocolate brown followed by green
20				28.5-30' TILL - 100% granitics, orange white - 90% volcanics, dark green - heavy green sand matrix - pyrite contained in quartz
30				30-31' BEDROCK - 50% quartz - med to high foliation - dark green - change to 10% quartz at 30.5'
31				EOH 31'

[Handwritten signature]

BINOC. MICROSCOPE: moderately foliated, medium to coarse grained;
 15% qtz.
 - qtz gabbro or diorite

OVERBURDEN DRILLING MANAGEMENT LIMITED
REVERSE CIRCULATION DRILL HOLE LOG

DATE JAN 30 19 86 HOLE NO NMD-86-101 LOCATION L52+00E - 8+00N
 GEOLOGIST BLISS DRILLER BELLIVEAU BIT NO. 1000368 BIT FOOTAGE 192.334
 SHIFT HOURS _____ MOVE TO HOLE 11:40 - 12:00
 _____ TO _____ DRILL 12:00 - 2:30
 TOTAL HOURS _____ MECHANICAL DOWN TIME _____
 _____ DRILLING PROBLEMS _____
 CONTRACT HOURS _____ OTHER _____
 _____ MOVE TO NEXT HOLE 2:30 - 4:00

DEPTH IN FEET	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
				ICE THICKNESS 17"
				WATER DEPTH 70'
				CASING DEPTH (N) 74'
70				BINOC. MICROSCOPE: extremely fissile, sugary qtz and sericite with minor biotite; fine grained; slight iron staining qtz-sericite schist?
				70 to 92 feet NO RETURN CLAY assumed saturated soft and smooth.
90				92 to 112 feet CLAY GRAY, SOFT and SMOOTH.
				112 to 122 feet CLAY BROWN, SOFT and SMOOTH.
				122 to 136 feet CLAY BROWN/GRAY, AS ABOVE.
110				136 to 138 feet TILL PEBBLY 60% VOLCANICS 40% GRANITICS FINE SANDY GRAY MATRIX.
				138 BEDROCK FINE LIGHT GREEN GRANS FRAGMENTS EASILY CRUSHED TO CLAY, ALSO SOME YELLOWING (SERICITE) FELSIC VOLCANIC

			01	10-15% QUARTZ.
			02	(degree of foliation difficult to determine - lineation of light and dark minerals, however, is apparent.)
				142 feet F.O.H.

Matthew Bliss

OVERBURDEN DRILLING MANAGEMENT LIMITED
REVERSE CIRCULATION DRILL HOLE LOG

DATE 30 JAN. 1986

HOLE NO NMO-86-102 LOCATION L52E 3005
GEOLOGIST SHANNON DRILLER E. FORTIN BIT NO. Jam369 BIT FOOTAGE 656-705

SHIFT HOURS
____ TO ____

MOVE TO HOLE _____
DRILL 8:45-10:00

TOTAL HOURS _____

MECHANICAL DOWN TIME _____

CONTRACT HOURS _____

DRILLING PROBLEMS _____
OTHER bit broke during bedrock

MOVE TO NEXT HOLE _____

DEPTH IN FEET	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
0	~			17" ICE
0	~			35' WATER
0	~			31' CASING
0	~			35'-48' - NO RETURN
20	~			48'-48'6" BEDROCK
20	~			- oxidized at surface
20	~			- medium-dark green
20	~			- medium foliation
20	~			- trace of pyrite
40	~			E.O.H. 48'6"
40	~			<i>James Shannon</i>
60	~			BINOC. MICROSCOPE: moderately foliated, medium to coarse grained
60	~			qtz gabbro or diorite - 15% qtz
80	~			BINOC. MICROSCOPE: fine grained weakly foliated, iron staining and Py upto 1% as coarse cubes.
80	~			- fine grained gabbro mafic metavolcanic?

OVERBURDEN DRILLING MANAGEMENT LIMITED
REVERSE CIRCULATION DRILL HOLE LOG

DATE JAN. 30 19 86

SHIFT HOURS
_____ TO _____

TOTAL HOURS

CONTRACT HOURS

HOLE NO NM0-86-103 LOCATION L 80+00W 4+00N
GEOLOGIST X DRILLER BELIVEAU BIT NO. JDD036R BIT FOOTAGE 334'-396'
MOVE TO HOLE 2:30-4:00
DRILL 4:00-6:15
MECHANICAL DOWN TIME _____
DRILLING PROBLEMS _____
OTHER _____
MOVE TO NEXT HOLE _____

DEPTH IN FEET	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
0	u			ICE THICKNESS = 20 in.
5	u			WATER DEPTH = 49 ft.
10	u			casing 54 ft.
15	u			
20	u			NO RETURN 49' to 52'
25	u			
30	u			CLAY 52' to 57'
35	u			- soft and smooth
40	u			- gray
45	u			
50	u			TILL 57' to 58.5'
55	u			- fine sand matrix
60	u			50% Vol.
65	u			50% Granitics
70	u			BEDROCK 58.5' to 60'
75	u			- dark green
80	u			- mafic Vol.
85	u			1% quartz
90	u			1% pyrite
95	u			E.O.H.
100	u			

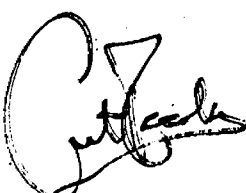
BINOC. MICROSCOPE:

Very fine grained, appears moderately siliceous, weak to moderate foliation mafic volcanic

OVERBURDEN DRILLING MANAGEMENT LIMITED
REVERSE CIRCULATION DRILL HOLE LOG

DATE JAN 30 19 86 HOLE NO NMD-86-104 LOCATION L 64+00 E 10+00N
 GEOLOGIST ROZDA DRILLER FORTIN BIT NO CB67638 BIT FOOTAGE 0-168
 SHIFT HOURS _____ MOVE TO HOLE _____
 _____ TO _____ DRILL 11:00 - 2:00
 TOTAL HOURS _____ MECHANICAL DOWN TIME _____
 _____ DRILLING PROBLEMS _____
 CONTRACT HOURS _____ OTHER NEW BIT CB67638
 _____ MOVE TO NEXT HOLE _____

DEPTH IN FEET	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
				ICE 18" WATER DEPTH 78'
80				77 - 164' CLAY 77-102' no return
90				102' soft green clay 112' firm green clay 122' firm green clay
100				142' firm green clay followed by choc. brown clay
110				152' choc. brown followed by green clay
				162' firm green clay
120				164-166' TILL - 40% granitics, mostly orange - 60% volcanics, dark green - pebbly - fine green sandy matrix
130				
140				166-168' BEDROCK - light green and white flakes - med foliation

150				EOH 168'
160				
170				BINOC. MICROSCOPE: fine grained weakly foliated, siliceous; up to 1% py - felsic to intermediate volcanic.

OVERBURDEN DRILLING MANAGEMENT LIMITED
REVERSE CIRCULATION DRILL HOLE LOG

DATE JAN 31 19 86

HOLE NO NMO-86-105 LOCATION L BOYDOW GYON
GEOLOGIST D. JAMESON DRILLER A. BELLEWEN BIT NO J000368 BIT FOOTAGE 394'-9"

SHIFT HOURS
_____ TO _____

MOVE TO HOLE _____
DRILL 8:00-11:45

TOTAL HOURS

MECHANICAL DOWN TIME _____

CONTRACT HOURS

DRILLING PROBLEMS _____
OTHER _____
MOVE TO NEXT HOLE _____

DEPTH IN FEET	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
				ICE 19" WATER 44' CASING 44'
				44'-55' No Return
20				<u>TILL</u> 55'-56' silty, very fine sandy matrix pebbly 70% volcanics 30% granites
40				<u>BEDROCK</u> 56' - very fine grained, massive, dark green mafic volcanic; hard, difficult to drill
				57' E.O.H
60				<i>D. Jameson</i>
				<u>BINOC. MICROSCOPE</u> : fairly massive, very fine grained, moderately silicified, dark green 1% PY
80				

60-61
61-62

OVERBURDEN DRILLING MANAGEMENT LIMITED
REVERSE CIRCULATION DRILL HOLE LOG

DATE JAN 30 1986

HOLE NO NMO-86-106 LOCATION L80+00W 8400N
GEOLOGIST SHANNON DRILLER FERTIN BIT NO 6867638 BIT FOOTAGE 188-296

SHIFT HOURS
TO

MOVE TO HOLE 2:00 - 4:20
DRILL 4:20 - 6:00

TOTAL HOURS

MECHANICAL DOWN TIME

CONTRACT HOURS

DRILLING PROBLEMS

OTHER

MOVE TO NEXT HOLE

DEPTH IN FEET	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
70	W			21" ICE
80	W			80' WATER
83	W			83' CASING
80 - 124	W			80' - 124' - NO RETURN
124 - 126'6"	W			124' - 126'6" - TILL - very cobbly - 90% volcanic - 10% granitic - coarse grey matrix
126'6" - 128'	W			126'6" - 128' - BEDROCK - medium green - medium foliation - 95% volcanic - 5% white - quartz - Carbonate - traces of pyrite
		A.D.	01	
			02	
140				E.O.H. 128

BINOC. MICROSCOPE! finely laminated,
light grey, very fine grained, siliceous;
~~py~~ Py up to 10% as fine grained cubes,
sometimes banded - Pyrite rich felsic tuff

OVERBURDEN DRILLING MANAGEMENT LIMITED
REVERSE CIRCULATION DRILL HOLE LOG

DATE JAN 21 19 86

SHIFT HOURS
_____ TO _____

TOTAL HOURS _____

CONTRACT HOURS _____

HOLE NO NME-86-107 LOCATION L 142+00 W 22+00 N
GEOLOGIST X DRILLER BELLEVUE BIT NO. 3000 368 BIT FOOTAGE 451-60'
MOVE TO HOLE 11:45 - 12:30
DRILL 12:30 - 5:30
MECHANICAL DOWN TIME _____
DRILLING PROBLEMS _____
OTHER 3:00 - 3:40 PLUGGED RODS - PULLED AND CLEANED
MOVE TO NEXT HOLE NEW BIT 1000 308

DEPTH IN FEET	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
80				ICE DEPTH = 18 in. WATER DEPTH = 83 ft. casing 84 ft. NO RETURN 84' to 122'
90				CLAY 122' to 149' - gray - soft and smooth
100				132 ft. brown ✓ TILL 149' to 150' - fine sand matrix 50% Vol.
110				50% Granitics BOULDER 150' to 152' - mafic Vol. - dark green
120				✓ TILL 152' to 153' - fine sand 40% Vol.
130				60% Granitics 10% Quartz
140				✓ GRAVEL 153' to 153.5' (NOT ENOUGH FOR SAMPLE)
150				✓ TILL 153.5' to 155' - slightly cobbly

[Handwritten signature]

153.5		01		- coarse sand matrix 70% Vol.
156.5		02		30% Granitics - some pyrite ✓ BOULDER 155' to 156' (SAME AS BOULDER NO. 11)
160				TILL 156' to 156.5' - fine sand matrix 80% Vol. - 20% Granitics
170				BEDROCK 156.5' to 158' - mafic Vol. - black very fine grain

*BNDC. MICROSCOPE: - very fine grained
(epheritic) with weak to moderate
foliation; silicates with fine qtz
and stretched qtz eyes - mafic
meta volcanic*

E₀O₀H₀

OVERBURDEN DRILLING MANAGEMENT LIMITED
REVERSE CIRCULATION DRILL HOLE LOG

DATE 31 JAN. 1986

HOLE NO NMO-86-108 LOCATION L142+00W 28+00N
GEOLOGIST SHANNON DRILLER G. FORTIN BIT NO. CB67638 BIT FOOTAGE 26-472

SHIFT HOURS
_____ TO _____

MOVE TO HOLE _____
DRILL 10:00 - 1:15

TOTAL HOURS

MECHANICAL DOWN TIME _____

CONTRACT HOURS

DRILLING PROBLEMS _____

OTHER _____

MOVE TO NEXT HOLE _____

DEPTH IN FEET	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
80				20" ICE
				80' WATER
				81' CASING
100				80'-156' CLAY - brown and grey - very soft.
120				156'-173' TILL - fine grey sand matrix - pebbly - 70% volcanic - 30% granitic - large volume
140				173'-176' BEDROCK - hard and black - mild foliation - fine grain

G.O.H. 176

01	△-△
02	△-△
03	△-△
04	△-△

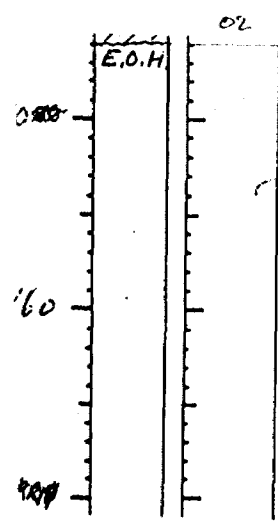
James Shannon

BINOC. MICROSCOPE: dark grey, very fine grained, moderately foliated; 1-2% PY, finely disseminated - mafic metablastic, text? -

OVERBURDEN DRILLING MANAGEMENT LIMITED
REVERSE CIRCULATION DRILL HOLE LOG

DATE FEB 1 1986 HOLE NO NMD-86-109 LOCATION L 142 W 2010XN
 GEOLOGIST D. JAMIESON DRILLER A. BELLIVEAU BIT NO. 100308 BIT FOOTAGE 150'-296'
 SHIFT HOURS _____ MOVE TO HOLE _____
 _____ TO _____ DRILL 9:00-11:15
 TOTAL HOURS _____ MECHANICAL DOWN TIME _____
 _____ DRILLING PROBLEMS _____
 CONTRACT HOURS _____ OTHER _____
 _____ MOVE TO NEXT HOLE _____

DEPTH IN FEET	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
				ICE 19" WATER 83' CASINO 84'
80				No Return 83'-102'
90				CLAY 102'-122' soft smooth grey clay
				122-140.5 soft smooth chocolate brown clay
100				TILL 140.5'-144' very sandy fine grey-brown sandy matrix pebbly 70% volcanics 30% granites
110				BEDROCK 144'-146'
120				fine grained, medium to dark green mafic volcanic - 10% pale green soft chips (carbonate?)
130				- 10-15% milky white gtz chips
140			01	- weakly foliated with minor amounts of yellow sericite



E.O.H. 146'
David Jamieson

bioc. mic. bimodal lithology (?) (1) mg
dk green crystalline, unfoliated mafic
intrusive (gabbroid). (2) fine med. grey
massive pyritic volcanoclastic. - Bedrock?
- possibly near a contact?

OVERBURDEN DRILLING MANAGEMENT LIMITED
REVERSE CIRCULATION DRILL HOLE LOG

DATE JAN. 31 19 86 HOLE NO NMD-86-110 LOCATION L142+00W - 26+00N
 GEOLOGIST BLISS DRILLER G. FORTIN BIT NO. CB57638 BIT FOOTAGE 472-625
 SHIFT HOURS _____ MOVE TO HOLE 1:15 to 1:20
 _____ TO _____ DRILL 1:20 to 4:45
 TOTAL HOURS _____ MECHANICAL DOWN TIME _____
 CONTRACT HOURS _____ DRILLING PROBLEMS _____
 _____ OTHER _____
 _____ MOVE TO NEXT HOLE 4:45 to 5:30

DEPTH IN FEET	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
80				WATER DEPTH 81' ICE THICKNESS 20" CASING DEPTH(N) 81 92' <i>Matthew Bliss</i>
100				81 to 115 feet NO RETURN CLAY assumed soft & smooth.
120				115 to 128 feet CLAY GRAY, SOFT and SMOOTH.
140				128 to 149 feet CLAY BROWN, SOFT and SMOOTH.
				149 to 151.5 feet TILL FINE SANDY GRAY MATRIX PEBBLY 60% GRANITICS 40% VOLCANICS
				151.5 to 152 GRAVEL PEBBLY to COBBLY
				CONCRETE SANDY GRAY MATRIX 50% GRANITICS 50% VOLCANICS
0				152 to 153 BEDROCK DARK GREEN, VERY HARD FINE GRAIN MASSIVE CRYSTALLINE MAFIC VOLCANIC (LITTLE TO NO APPARENT FOLIATION).

OVERBURDEN DRILLING MANAGEMENT LIMITED
 REVERSE CIRCULATION DRILL HOLE LOG

DATE FEB. 1 1986 HOLE NO NM0-86-111 LOCATION L142+00 W 18+00 N
 GEOLOGIST X DRILLER BELLEVILLE BIT NO. 1000308 BIT FOOTAGE 296'
 SHIFT HOURS _____ MOVE TO HOLE _____
 _____ TO _____ DRILL 11:30-4:00
 TOTAL HOURS _____ MECHANICAL DOWN TIME _____
 _____ DRILLING PROBLEMS _____
 CONTRACT HOURS _____ OTHER _____
 _____ MOVE TO NEXT HOLE _____

DEPTH IN FEET	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
80				ICE DEPTH = 19 in. WATER DEPTH = 83 ft. NO RETURN 83' to 102'
90				CLAY 102' to 127' - soft and smooth - brown
100				BOULDER 127' to 128.5' - granite
110				CLAY 128.5' to 132' - soft and smooth - gray
120				TILL 132' to 135' - fine sand matrix 50% Volc. 50% Granitics
130			01 02	BOULDER 135' to 136' - carbonates - fine to medium grain Volc. - light green
140				TILL 136' to 136.5' (NOT ENOUGH FOR SAMPLE) - fine sand matrix 60% Volc. 40% Granitics
160				BEDROCK 136.5' to 138' - fine grain mafic Volc. - medium to dark green 5% quartz E.O.H.

(Handwritten signatures and scribbles)

OVERBURDEN DRILLING MANAGEMENT LIMITED
REVERSE CIRCULATION DRILL HOLE LOG

DATE Feb 1 19 86

HOLE NO NMO-86-112 LOCATION L 190+00 W 24+00 N
GEOLOGIST ROORDA DRILLER FORTIN BIT NO. CB67638 BIT FOOTAGE 62.5-78

SHIFT HOURS
TO

MOVE TO HOLE
DRILL 9:00-12:00

TOTAL HOURS

MECHANICAL DOWN TIME

CONTRACT HOURS

DRILLING PROBLEMS
OTHER
MOVE TO NEXT HOLE

DEPTH IN FEET	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
80				WATER DEPTH 81' ICE THICKNESS 18' CASING SET TO 93'
90				81-150.5 CLAY 81-132 no return 132 firm green clay 142 choc. brown clay
100				142 150.5-152.5 BOULDER - black & white granite
110				152.5-154 TILL - 50% granitics, orange, black, white - 50% volcanics, dark green - heavy sand matrix
120				154-157' BEDROCK - 2% quartz - dark green - medium foliation
130				
140				EOH 157'
150			01	
155			02	
160				

[Handwritten signature]

BINOC. MICROSCOPE: dark grey-green, very fine grained weakly foliated, appearing siliceous, with white and milky quartz. 1% py, fine grained, tending to associate with quartz. mafic metavolcanic.

OVERBURDEN DRILLING MANAGEMENT LIMITED
REVERSE CIRCULATION DRILL HOLE LOG

DATE 2 FEB. 1986

HOLE NO NMO-86-113B LOCATION L148^{no}-25+00N
GEOLOGIST SHANNON DRILLER BELLIVEAU BIT NO. 100308 BIT FOOTAGE 438-4

SHIFT HOURS
____ TO ____

MOVE TO HOLE _____
DRILL 8:15 - 9:30

TOTAL HOURS _____

MECHANICAL DOWN TIME _____

CONTRACT HOURS _____

DRILLING PROBLEMS _____

OTHER _____

MOVE TO NEXT HOLE _____

DEPTH IN FEET	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
0	W			19" ICE
19	W			40' WATER
59	W			44' CASING
99	W			40' - 52' - CLAY
139	W			- grey
179	W			- very soft.
219	W			52' - 55' - TILL
259	W			- fine grey sand matrix
299	W			- 90% volcanic
339	W			- 10% granitic
359	W			55' - 56' - BEDROCK
379	W		01	- 100% volcanic
399	W		02	- medium foliation
419	W			- fine grain
438	W			- dark green
				E.O.H. 56.
				James Shannon
				bin. mic. - fig. mag. dk green, unfoliated matrix metavolcanic (flow)

OVERBURDEN DRILLING MANAGEMENT LIMITED
REVERSE CIRCULATION DRILL HOLE LOG

DATE FEB 1 19 86 HOLE NO NMO-86-114 LOCATION L148+00W - 18+00N
 GEOLOGIST BLISS DRILLER A. MARTIN BIT NO. CB67638 BIT FOOTAGE 782-856
 SHIFT HOURS _____ MOVE TO HOLE 12:00 to 12:30
 _____ TO _____ DRILL 12:30 to 2:30
 TOTAL HOURS _____ MECHANICAL DOWN TIME _____
 CONTRACT HOURS _____ DRILLING PROBLEMS _____
 _____ OTHER _____
 _____ MOVE TO NEXT HOLE _____

DEPTH IN FEET	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
				WATER DEPTH 59' ICE THICKNESS 19" CASING DEPTH(N) 64'
20				59 to 70 feet NO RETURN CLAYS assumed soft and smooth.
				70 to 71 feet TILL PEBBLY; FINE, SANDY, GRAY MATRIX.
40				90% VOLCANICS 10% GRANITICS (QUARTZ)
60				71 to 74 BEDROCK VERY DARK GREEN TO BLACK. FINE CRYSTALLINE TRACES OF PYRITE MICACEOUS MINERAL CONTENT (BIOTITE) MODERATE FOLIATION.
				74 feet. E.O.H.
			01 02	
80				

Matthew Bliss

BINOC. MICROSCOPE: black, massive;
 80% coarse biotite
 20% medium grained quartz
 - biotite flakes not aligned to give foliation

OVERBURDEN DRILLING MANAGEMENT LIMITED
REVERSE CIRCULATION DRILL HOLE LOG

DATE FEB 2 1986 HOLE NO NMO-86-115 LOCATION L 140W 25+00 N
 GEOLOGIST D. JAMIESON DRILLER A. BELLINSEAN BIT NO. 1000308 BIT FOOTAGE 496'-54'
 SHIFT HOURS _____ MOVE TO HOLE 9:30 - 9:35
 _____ TO _____ DRILL 9:35 - 11:15
 TOTAL HOURS _____ MECHANICAL DOWN TIME _____
 _____ DRILLING PROBLEMS _____
 CONTRACT HOURS _____ OTHER _____
 _____ MOVE TO NEXT HOLE _____

DEPTH IN FEET	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
				WATER 40' CASING 44'
20				CLAY 40'-50' soft, smooth, grey clay
				TILL 49.5'-50' - mainly fine grey sand to coarse sand, with 5-10% pebbles 75% volcanics 25% granitics
40				BEDROCK 50'-51' - dark green, massive, fine grained gabbro - 10-15% pale green soft chips (carbonate?)
60				51' E.O.H. <i>David Jamieson</i> brn. mic. - fg. - mg. unfoliated, ailline, mafic metavolcanic. (flow)
80				

OVERBURDEN DRILLING MANAGEMENT LIMITED
 REVERSE CIRCULATION DRILL HOLE LOG

DATE Feb 1 19 86 HOLE NO NMO-86-116 LOCATION W 148+00W 20+00N
 GEOLOGIST ROORDA DRILLER FORTIN BIT NO. 267638 BIT FOOTAGE 856-97
 SHIFT HOURS _____ MOVE TO HOLE 2:30-2:45
 _____ TO _____ DRILL 2:45-6:00
 TOTAL HOURS _____ MECHANICAL DOWN TIME _____
 CONTRACT HOURS _____ DRILLING PROBLEMS _____
 _____ OTHER _____
 _____ MOVE TO NEXT HOLE _____

DEPTH IN FEET	GRAPHIC LOG	INTERVAL	SAMPLE NO	DESCRIPTIVE LOG
				WATER DEPTH 69' ICE THICKNESS 17"
60				69-86' CLAY 69-82' no return at 82' chocolate brown clay, soft followed by firm green clay
70				86-110' TILL - 20% granitics, orange, white, black - 80% volcanics, light to dark green - silty grey matrix - trace of pyrite - cobbly until 101', then pebbly - volcanics black after 96'
90			01	
100			02	110-114' GRAVEL - trace of pyrite - pebbly
			03	- 20% granitics, orange & white - 80% volcanics, black, dark green - intermittent grey matrix
110			04	
			05	114-116' BEDROCK - black - medium foliation - very hard - 3% carbonate
120				
130				

EOH 116'
 bioc. mic. med. green-grey, v.f.g. sub-conchoidal
 fracture, possible laminae, mafic
 volcanics (ash tuff?)

OVERBURDEN DRILLING MANAGEMENT LIMITED
REVERSE CIRCULATION DRILL HOLE LOG

DATE 2 FEB. 1986 HOLE NO NMO-86-117 LOCATION L148 - 24N
 GEOLOGIST SHANNON DRILLER BELLIVEAU BIT NO. 1000308 BIT FOOTAGE _____
 SHIFT HOURS _____ TO _____ MOVE TO HOLE 11:15 -
 TOTAL HOURS _____ DRILL 11:15 - 11:30 1:30
 MECHANICAL DOWN TIME _____
 DRILLING PROBLEMS broken bit (clogged) - No bedrock sample
 CONTRACT HOURS _____ OTHER LOST 22 FT casing
 MOVE TO NEXT HOLE _____

DEPTH IN FEET	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
0	W			19" ICE
10	W			48' WATER
20	W			54' CASING
30	W			No RETURN - 48' - 69'
40	W			TILL - 69' - 73'
50	W			- fine grey sand matrix
60	W			- 70% volcanic
70	W			- 30% granitic
80	W			- GRUVEL - 73' - 77'
90	W			- TILL - 77' - 81'
100	W			- Same as above
110	W			BEDROCK
120	W			- No bedrock sample
130	W			i.e. the bit broke.
140	W			Boulder: 80' - 82 - granite
150	W			James Shannon
160	W			
170	W			
180	W			
190	W			
200	W			
210	W			
220	W			
230	W			
240	W			
250	W			
260	W			
270	W			
280	W			
290	W			
300	W			
310	W			
320	W			
330	W			
340	W			
350	W			
360	W			
370	W			
380	W			
390	W			
400	W			
410	W			
420	W			
430	W			
440	W			
450	W			
460	W			
470	W			
480	W			
490	W			
500	W			

E.O.H 82

OVERBURDEN DRILLING MANAGEMENT LIMITED
REVERSE CIRCULATION DRILL HOLE LOG

DATE FEB. 2 19 86 HOLE NO NMO-86-118 LOCATION L148+00W - 22+00N
 GEOLOGIST BLISS DRILLER G. FORTIN BIT NO. CB67638 BIT FOOTAGE 272-1025
 SHIFT HOURS _____ MOVE TO HOLE _____
 _____ TO _____ DRILL 10:15 to 11:30
 TOTAL HOURS _____ MECHANICAL DOWN TIME 9:00 to 10:15 REPLACE TOWER CABLE.
 _____ DRILLING PROBLEMS _____
 CONTRACT HOURS _____ OTHER 8:00 to 9:00 MORNING PREP. (DEFROST)
 _____ MOVE TO NEXT HOLE _____

DEPTH IN METRES	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
0	W.			ICE THICKNESS ~20'
1	W.			WATER DEPTH 67'
60	W.			CASING(N) 73'
67	W.			67 to 92 NO RETURN
70				CLAYS assumed soft & smooth
92				92 to 107 CLAY
80				GRAY, BROWN then GRAY
				SOFT and SMOOTH.
107				107 to 111 GRAVEL
				60 to 70% GRANITICS
				30 to 40% VOLCANICS
100				MEDIUM to COARSE GRAINED
				SANDY, GRAY MATRIX.
				PEBBLY TO COBBLY.
110	△△△ E.O.H.	01		111 to 114 feet TILL
		02		GRAY FINE SANDY MATRIX
120				CLASTS COMPOSITION: AS ABOVE
114				114 to 116 BEDROCK
130				FINE CRYSTALLINE - MASSIVE (HARD)

DARK GREEN
UNEVEN (CONCHOIDAL-LIKE)
FRACTURE
5% QUARTZ
TRACE OF VISIBLE Biotite FLAKES
AND PYRITE CRYSTALS.
MILD FOLIATION.

116 feet E.O.H.

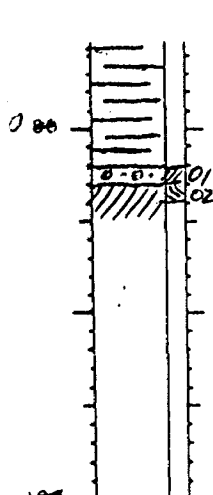
Matthew Bliss

bloc. mic. Mrg. crystalline, dk green, unfoliated. mafic intrusive (gabbroic) 5-10% qtz and carb. pebbly veins.

OVERBURDEN DRILLING MANAGEMENT LIMITED
REVERSE CIRCULATION DRILL HOLE LOG

DATE FEB 2 1986 HOLE NO NMO-86-119 LOCATION L154W 30N
 GEOLOGIST D. SAMIESON DRILLER A. BELLUSCHI BIT NO 10003/B BIT FOOTAGE 0-169'
 SHIFT HOURS _____ MOVE TO HOLE 1:30-2:00
 _____ TO _____ DRILL 2:00-5:45
 TOTAL HOURS _____ MECHANICAL DOWN TIME _____
 _____ DRILLING PROBLEMS _____
 CONTRACT HOURS _____ OTHER _____
 _____ MOVE TO NEXT HOLE _____

DEPTH IN FEET	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
				19" ICE 73' WATER 74' CASING
				72' - 92' No Return <u>CLAY</u>
				92' - 102' grey clay, soft & smooth
100				102' - 112' grey clay followed by chocolate brown clay, soft and smooth
				112' - 122' chocolate brown clay followed by grey clay, soft and smooth
120				122' - 132' grey clay, soft and smooth
				132' - 142' grey clay followed by chocolate brown clay, soft and smooth
				142' - 152' chocolate brown clay followed by grey clay, soft and smooth
140				<u>GRAVEL</u> 162' - 163' - well sorted coarse sand and pebbles, 50% volcanic 50% granitic
				<u>BEDROCK</u> 163' - 164'

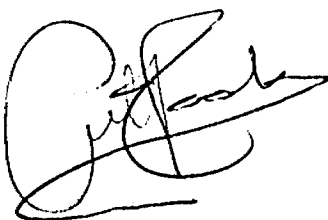


cryptocrystalline, grey-green
siliceous, with weak foliation; shear
planes show py, pos. ep mineralization
20% soft grey chips (carbonate?)
164' E.O.H.
David Jamieson

OVERBURDEN DRILLING MANAGEMENT LIMITED
REVERSE CIRCULATION DRILL HOLE LOG

DATE Feb 2 19 86 HOLE NO NM0-86-120 LOCATION L 154+02W 20+00N
 GEOLOGIST ROSRDA DRILLER FORTIN BIT NO. F000158 BIT FOOTAGE 0-42'
 SHIFT HOURS MOVE TO HOLE 11:30 - 11:45
 _____ TO _____ DRILL 11:45 - 1:30
 TOTAL HOURS MECHANICAL DOWN TIME _____
 DRILLING PROBLEMS _____
 CONTRACT HOURS OTHER NEW BIT F000158
 _____ MOVE TO NEXT HOLE _____

DEPTH IN METRES	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
				WATER DEPTH 30' ICE THICKNESS 18" CASING SET TO 40'
10	u			
20	u			30-39' CLAY - soft, green
30	u			39-40' GRAVEL - coarse sand matrix - grey matrix
40	u	01 02		- 10% granitics; orange, white - 90% volcanics; dark green - pebbly
50				40-42' BEDROCK - smoky quartz - pale green - 2% carbonate - mildly foliated - traces of pyrite
60				
70				
80				
90				
100				

EOH 42'


bioc. mic. pl. grey to white, v.f.g. to f.g.
groundmass containing f.g. pyrite. Mg to c.g.
white xls common, acicular tourmaline (?)
observed - felsic intrusive

OVERBURDEN DRILLING MANAGEMENT LIMITED
 REVERSE CIRCULATION DRILL HOLE LOG

DATE FEB. 3RD, 1986
 SHIFT HOURS _____ TO _____
 TOTAL HOURS _____
 CONTRACT HOURS _____

HOLE NO NMO-86-121 LOCATION L154+00W 28+00N
 GEOLOGIST X DRILLER BELLEVUE BIT NO. 1000318 BIT FOOTAGE 164' - 306'
 MOVE TO HOLE 8:00 - 8:30
 DRILL 8:30 - 11:00
 MECHANICAL DOWN TIME _____
 DRILLING PROBLEMS _____
 OTHER _____
 MOVE TO NEXT HOLE _____

DEPTH IN METRES	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
70	EE EE EE EE			ICE DEPTH = 18 in. WATER DEPTH = 75 ft 74' of casing
80				NO RETURN 75' to 112'
90				CLAY 112' to 137' - soft and smooth - gray in color
100				122' brown 132' gray
110				TILL 137' to 142' - fine sand matrix 70% Granitics 30% Vol. (MORE SAND THEN USUAL IN MATRIX)
120				
130				
140	△△ △△ △△ E.O.H.			NOTE ♂ - HIT SOMETHING SOLID AT 142 FEET, TO HARD FOR BIT TO CUT. STOPPED DRILLING AT 10:30 BECAUSE RODS WERE BINDING. NO BEDROCK SAMPLE!!! E.O.H. 142 ft.
150				
160				

OVERBURDEN DRILLING MANAGEMENT LIMITED
REVERSE CIRCULATION DRILL HOLE LOG

DATE FEB. 2 19 86 HOLE NO NMU-86-122 LOCATION L 154+00W - 22+00N
 GEOLOGIST BLISS DRILLER G. FORTIN BIT NO. F000158 BIT FOOTAGE 42-144
 SHIFT HOURS _____ MOVE TO HOLE 1:30 to 1:35
 _____ TO _____ DRILL 1:35 to _____
 TOTAL HOURS _____ MECHANICAL DOWN TIME _____
 _____ DRILLING PROBLEMS _____
 CONTRACT HOURS _____ OTHER _____
 _____ MOVE TO NEXT HOLE _____

DEPTH IN METRES	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
60	u			WATER DEPTH 69' ICE THICKNESS 19" CASING (N) 73'
80	u			69 to 82 feet NO RETURN 82 to 85 feet CLAY BROWN then GRAY SOFT & SMOOTH.
100	u			85 to 99 TILL intermittent layers of TILL, SAND and GRAVEL.
	o		01	TILL: PEBBLY 50% GRANITICS 50% VOLCANICS
	Δ		02	VERY FINE GRAY SANDY MATRIX.
	Δ		03	SAND: VERY FINE SANDY to SILTY GRAY.
	EOH			ALSO - ● MASSES (PEBBLE SIZE) OF DARK BROWN ORGANIC- LIKE MATERIAL (SILTY TO CLAY. SIZE SIZE GRAINS).
120	●			97 to 98 feet GRANITIC BOULDER HIGH CONCENTRATION OF FELSPAR.
	●			99 feet 90% VOLCANICS 10% GRANITICS VERY LITTLE SANDY MATRIX.

99.5 feet BEDROCK
 FINE GRAIN CRYSTALLINE; MASSIVE
 UNEVEN FRACTURE
 LITTLE TO NO APPARENT FOLIATION
 INTERMITTENT QUARTZ FRAGMENTS ~5%
 TRACES OF CARBONATE FLAKES
 (SEEMS TO BE A HIGH SiO₂ CONTENT IN THE DARK GREEN FRAGMENTS - VERY HARD)
 102 feet E.O.H.

binoc. mic. v.f.g. - f.g. massive and possibly laminated, unfoliated to weakly foliated, in places apparently v. siliceous. Mafic - ultravolcanic - flow or tuff.

Matthew Bliss

OVERBURDEN DRILLING MANAGEMENT LIMITED
REVERSE CIRCULATION DRILL HOLE LOG

DATE FEB 3 19 86

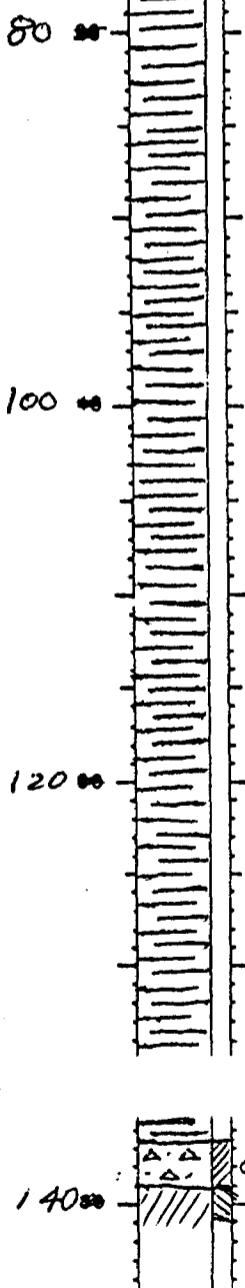
SHIFT HOURS
____ TO ____

TOTAL HOURS

CONTRACT HOURS

HOLE NO NMO-86-123 LOCATION L 160W 30+00N
GEOLOGIST D. JAMIESON DRILLER A. BELLIVEAU BIT NO. LD00318 BIT FOOTAGE 306'-447'
MOVE TO HOLE 11:00-2:15 MOVE TO LINE 80W THEN BACK TO THIS HOLE
DRILL 2:15-4:10
MECHANICAL DOWN TIME _____
DRILLING PROBLEMS _____
OTHER _____
MOVE TO NEXT HOLE _____

DEPTH IN FEET	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
				WATER 74' CASING 74'
				No Return 74'-112'
				<u>CLAY</u> 112'-122' smooth soft grey clay followed by chocolate brown clay 122'-132' smooth soft grey clay 132'-136.5' " " " "
				<u>TILL</u> 136.5'-139' fine grey sandy matrix pebbly 70% volcanic 30% granitics
				<u>BEDROCK</u> 139'-141' - medium green, fine grained gabbro with 10-15% quartz - 5% soft green chips (carbonate?)
				141' E.O.H.
				<i>D. Jamieson</i>
				bin. mic. dk green, m.g. not crystalline, unfoliated, gabbro.



OVERBURDEN DRILLING MANAGEMENT LIMITED
REVERSE CIRCULATION DRILL HOLE LOG

DATE Feb 3 1986

HOLE NO NM0-86-124 LOCATION L 154+00 W 24+00 N

SHIFT HOURS
____ TO ____

GEOLOGIST BOORDA DRILLER FORTIN BIT NO. T000319 BIT FOOTAGE 0-96'

TOTAL HOURS

MOVE TO HOLE _____
DRILL 8:45 - 10:15

CONTRACT HOURS

MECHANICAL DOWN TIME _____

DRILLING PROBLEMS _____

OTHER NEW BIT

MOVE TO NEXT HOLE _____

DEPTH IN FEET	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
0				ICE THICKNESS 18" WATER DEPTH 75' CASING SET TO 84'
20				
40				
60				75-94' CLAY - soft green - no return until 92'
80				94-95' TILL

[Handwritten signature]

80				
90				
91			01	
92			02	
100				

- 5% granitics; orange
- 95% volcanics, dark green
- pebbly
- Fine green sand matrix

95-96' BEDROCK
- dark green
- mild foliation
- medium to fine grain
- very hard

fin. mic. - mg. dk green, unfoliated, crystalline - mafic intrusive? (gabbroid)

96' EOH

OVERBURDEN DRILLING MANAGEMENT LIMITED
REVERSE CIRCULATION DRILL HOLE LOG

DATE FEB. 3 19 86 HOLE NO NMO-86-125 LOCATION L 160+00W 28+00N
 GEOLOGIST X DRILLER BELLIVEAU BIT NO. 1000312 BIT FOOTAGE 447'-58'
 SHIFT HOURS _____ MOVE TO HOLE 4:10-4:15
 _____ TO _____ DRILL 4:15-6:15
 TOTAL HOURS _____ MECHANICAL DOWN TIME _____
 _____ DRILLING PROBLEMS _____
 CONTRACT HOURS _____ OTHER _____
 _____ MOVE TO NEXT HOLE _____

DEPTH IN FEET	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
70				ICE THICKNESS WATER DEPTH = 73ft. 74ft. of casing NO RETURN 73'-110'
80				CLAY 110ft. - 138ft. - soft and smooth - gray
90				TILL 138ft. - 140ft. - fine sand matrix - 60% Vol. - 40% Granitics
100				BEDROCK 140ft. - 141ft. - plagioclase phenocrysts in very fine grain mafic Vol. - green
110				$E_0O_0H_0$
120				
130				
140			01 02	bin. mic. med. green-grey, v. fine matrix and mg. xls. banded (laminated), mafic int xl tuff
150				

OVERBURDEN DRILLING MANAGEMENT LIMITED
REVERSE CIRCULATION DRILL HOLE LOG

DATE FEB 3 1986

HOLE NO NMO-86-126 LOCATION L154400W 26400N
GEOLOGIST SHANNON DRILLER FERTIN BIT NO. I000349 BIT FOOTAGE 96-189

SHIFT HOURS
TO

MOVE TO HOLE 10:15 - 10:30
DRILL 10:30 - 12:45

TOTAL HOURS
CONTRACT HOURS

MECHANICAL DOWN TIME
DRILLING PROBLEMS
OTHER
MOVE TO NEXT HOLE

DEPTH IN FEET	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
	W			73' WATER
	W			82' CASING
	W			CLAY - 73' - 90'6"
	W			- grey
	W			- very soft
80.00				TILW - 90'6" - 92'
				- fine grey sand matrix
				- traces of pyrite
				- almost no pebbles
				- very sandy
				- 90% volcanic
				- 10% granitic
100.00				BEDROCK 92'-93'
				- fine grain
				- mildly foliated
				- medium-dark green
				- 100% volcanic
120.00				E.O.H. - 93

br. mic. - pg-mg, dk green, weakly foliated,
matrix volcanic intrusive

OVERBURDEN DRILLING MANAGEMENT LIMITED
REVERSE CIRCULATION DRILL HOLE LOG

DATE FEB 5 19 86

HOLE NO NMO-86-127 LOCATION L160W 26N
GEOLOGIST D. JAMIESON DRILLER A. BELLIVEAU BIT NO. 100318 BIT FOOTAGE 588'-727'

SHIFT HOURS
TO

MOVE TO HOLE
DRILL 8:15-11:20

TOTAL HOURS

MECHANICAL DOWN TIME

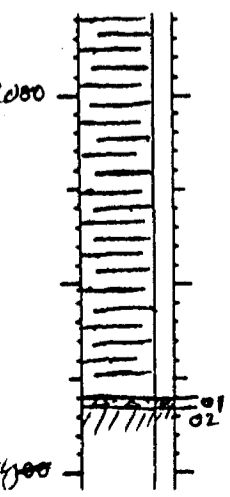
CONTRACT HOURS

DRILLING PROBLEMS

OTHER

MOVE TO NEXT HOLE

DEPTH IN FEET	GRAPHIC LOG INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
			76' WATER
			74' CASING
			No Return 76'-102'
			<u>CLAY</u>
60			102'-112' grey clay
			112'-122' grey clay followed by brown clay
			122'-132' grey clay
			<u>TILL</u>
80			136'-136.5' fine grey Sandy matrix pebbly 80% volcanics 20% granitics
			<u>BEDROCK</u> 136.5'-137'
100			fine to medium grained, massive gabbro
			137' E.O.H
			David Jamieson



... unfoliated to weakly foliated
- gabbroic or xl tuff?

OVERBURDEN DRILLING MANAGEMENT LIMITED
 REVERSE CIRCULATION DRILL HOLE LOG

DATE Feb 3 1986

HOLE NO NMD-86-128 LOCATION L 160+00 W 18+00 N

SHIFT HOURS
 _____ TO _____

GEOLOGIST ROBERTA DRILLER FORTIN BIT NO. 1000319 BIT FOOTAGE 189-22

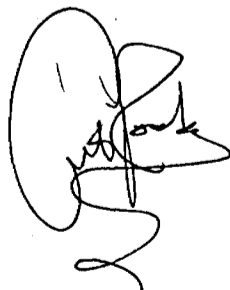
TOTAL HOURS

MOVE TO HOLE 1:30 - 1:50
 DRILL 1:50 - 3:25

CONTRACT HOURS

MECHANICAL DOWN TIME _____
 DRILLING PROBLEMS _____

OTHER _____
 MOVE TO NEXT HOLE _____

DEPTH IN FEET	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
				<p>WATER DEPTH 23' ICE THICKNESS 17"</p>
20	Wavy lines			<p>23-31' CLAY - soft green clay</p>
	Vertical lines			<p>31-32.5' TILL - 50% granitics, orange, white - 50% volcanics, mostly dark - traces of pyrite - fine green sand matrix - cobbly</p>
	Diagonal lines		01 02	
40	EDH			<p>32.5-34' BEDROCK - dark green, almost black - 10% quartz - medium foliation - medium to fine crystals</p>
80				<p>EDH 34'</p> 

thin mic. v. dk. gr., fg. crystalline,
 unfoliated, mafic volcanic

OVERBURDEN DRILLING MANAGEMENT LIMITED
 REVERSE CIRCULATION DRILL HOLE LOG

DATE FEB. 5 19 86

SHIFT HOURS
 _____ TO _____

TOTAL HOURS

CONTRACT HOURS

HOLE NO NMD-86-129 LOCATION h 172 + 00 W 26 + 00 N
 GEOLOGIST X DRILLER BELLIVEAU BIT NO. 67640 BIT FOOTAGE 127' to 2

MOVE TO HOLE 11:20 - 11:30
 DRILL 11:30 - 1:30

MECHANICAL DOWN TIME _____

DRILLING PROBLEMS _____

OTHER RECOVERED BIT WITH 127 FT. ON IT

MOVE TO NEXT HOLE _____

DEPTH IN FEET	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
70				ICE THICKNESS = 20 in. WATER DEPTH = 72 ft. 74' of casing
80				NO RETURN 72' to 112' CLAY 112' to 118.5' - brown in color - soft and smooth
90				TILL 118.5' to 119.5' - fine sand matrix 60% Vol. 40% Granitics
100				BEDROCK 119.5' to 122' - dark green - fine grain mafic Vol. 1% quartz pyrite in sample
120			01 02	E.O.H. = 122'
130				
140				fin. m. v.f.g., med. grey-green, pyritic int. mafic tuff
150				

OVERBURDEN DRILLING MANAGEMENT LIMITED
REVERSE CIRCULATION DRILL HOLE LOG

DATE FEB. 3 19 86

HOLE NO NM0-86-130 LOCATION L160+00N 26+00N
GEOLOGIST SHANNON DRILLER FURTIN BIT NO. 2000319 BIT FOOTAGE 223-265

SHIFT HOURS
_____ TO _____

MOVE TO HOLE _____
DRILL 3:30:4:30

TOTAL HOURS

MECHANICAL DOWN TIME _____
DRILLING PROBLEMS _____

CONTRACT HOURS

OTHER _____
MOVE TO NEXT HOLE _____

DEPTH IN FEET	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
0				17" ICE
3				22' WATER
6				No RETURN 22'-25'
9				
12				
15				
18				
21				TILL 25'-40'6"
24				- fine grey sand matrix
27				- traces of pyrite
30				- 90% volcanic
33				- 10% granitic
36				- occasional brown matrix
39				
42				BEDROCK 40'6"-42'
45				- fine grain
48				- mildly foliated
51				- medium - dark green
54				- 100% volcanic
57				
60				
63				
66				
69				
72				
75				
78				
81				
84				
87				
90				

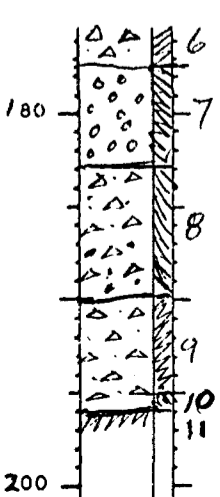
bin. mic. fg - mg dk green, weak
foln. local visible plog. grains - mg
flow / fg intrusive? - mafic

James J. ...

OVERBURDEN DRILLING MANAGEMENT LIMITED
REVERSE CIRCULATION DRILL HOLE LOG

DATE FEB 5 1986 HOLE NO NMD-86-131 LOCATION L 172W 24N
 GEOLOGIST D. JAMIESON DRILLER A. BELLIVEAU BIT NO. 62640 BIT FOOTAGE 249'-445'
 SHIFT HOURS _____ MOVE TO HOLE 1:30-185
 _____ TO _____ DRILL 1:35-6:15
 TOTAL HOURS _____ MECHANICAL DOWN TIME _____
 _____ DRILLING PROBLEMS _____
 CONTRACT HOURS _____ OTHER _____
 _____ MOVE TO NEXT HOLE _____

DEPTH IN FEET	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
				74' WATER 74' CASING
				No Return 74'-102'
				<u>CLAY</u> 102'-112' grey clay 112'-122' chocolate brown clay 122'-132' chocolate brown clay followed by grey clay 132'-142' grey clay 142'-153' grey clay
				<u>SAND</u> 153'-170' well sorted, fine to medium grained sand - thin gravel interbeds
				<u>TILL</u> 170'-177.5' fine grey sandy matrix pebbles 50% volcanic 50% granites
			01	<u>GRAVEL</u> 177.5'-183' well sorted pebbles, rounded
			02	<u>TILL</u> 183'-196' fine grey sandy matrix pebbles 50% volcanic 50% granites
			03	
			04	
			05	



BEDROCK
 196' ~~there~~ only a small amount of sample obtained due to plugging of bit and sub holes with sand.
 dark, fine grained, abundant qtz.
 E.O.H 196'
 bin. mic. med grey-green, weakly foliated
 fine mafic ash tuff

David Jamieson

OVERBURDEN DRILLING MANAGEMENT LIMITED
REVERSE CIRCULATION DRILL HOLE LOG

DATE Feb 4 1986

HOLE NO NMD-86-132 LOCATION L 160+00 W 20+00 N
GEOLOGIST BOORDS DRILLER FORTIN BIT NO. 100319 BIT FOOTAGE 265-32

SHIFT HOURS
_____ TO _____

MOVE TO HOLE _____
DRILL 8:45 - 11:25

TOTAL HOURS

MECHANICAL DOWN TIME _____
DRILLING PROBLEMS _____

CONTRACT HOURS

OTHER _____
MOVE TO NEXT HOLE _____

DEPTH IN FEET	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
				WATER DEPTH 39' CASING SET TO 43'
20	u			
	u			
	u			
	u			
	u			
	u			
	u			
40	u			39-53' CLAY -no return -at 52' brown then green soft clay
				53-56' TILL -40% granitics, mostly orange and white -60% volcanics, mostly dark green
	△△		01	- fine grey sandy matrix
	△△		02	- 2% biotite in black and white granite
60	EOH			56-58.5 BEDROCK -dark green -5% quartz -medium foliation -fine crystals
80				EOH 58.5

bin. mic. - med. - dk. green, weak to med
foliation, fine to med grained mafic
metavolcanic (flow?). Pyrite aggregates
(oxidized) up to 0.5mm.

OVERBURDEN DRILLING MANAGEMENT LIMITED
REVERSE CIRCULATION DRILL HOLE LOG

DATE 4 Feb. 1986
SHIFT HOURS _____
TO _____
TOTAL HOURS _____
CONTRACT HOURS _____

HOLE NO Nmo-86-134 LOCATION L160400W 22+00N
GEOLOGIST SHANNON DRILLER FORTIN BIT NO. 1000319 BIT FOOTAGE 323.5 - 411
MOVE TO HOLE 11:25 - 11:30
DRILL 11:30 - 3:00
MECHANICAL DOWN TIME _____
DRILLING PROBLEMS _____
OTHER _____
MOVE TO NEXT HOLE _____

DEPTH IN FEET	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
0	W			60' WATER
1	W			61' CASING
2	W			
3	W			
4	W			
5	W			
6	W			
7	W			
8	W			
9	W			
10	W			
11	W			
12	W			
13	W			
14	W			
15	W			
16	W			
17	W			
18	W			
19	W			
20	W			60'-86 - NO RETURN
21	W			86-87 - TILL
22	W			- fine grey sand matrix
23	W			- traces of pyrite
24	W			- 20% granitic
25	W			- 80% volcanic
26	W			
27	W			
28	W			
29	W			
30	W			
31	W			
32	W			
33	W			
34	W			
35	W			
36	W			
37	W			
38	W			
39	W			
40	W			87-88 - BEDROCK
41	W			- black
42	W			- fine grain
43	W			- mild foliation
44	W			- 25% white
45	W			
46	W			
47	W			
48	W			
49	W			
50	W			
51	W			
52	W			
53	W			
54	W			
55	W			
56	W			
57	W			
58	W			
59	W			
60	W			88 - E.O.H.
61	W			
62	W			
63	W			
64	W			
65	W			
66	W			
67	W			
68	W			
69	W			
70	W			
71	W			
72	W			
73	W			
74	W			
75	W			
76	W			
77	W			
78	W			
79	W			
80	W			

James Shannon

finoc. mic. dk grey. fine grained
weakly foliated ash and fg. crystal
buff.

OVERBURDEN DRILLING MANAGEMENT LIMITED
 REVERSE CIRCULATION DRILL HOLE LOG

DATE FEB. 6 19 86 HOLE NO NMO-86-135 LOCATION L 184+00 W 27+00 N
 GEOLOGIST X DRILLER BELIVEAU BIT NO. 1000305 BIT FOOTAGE 0-49
 SHIFT HOURS MOVE TO HOLE 10:15 - 10:30
 TO DRILL 10:30 - 2:15
 TOTAL HOURS MECHANICAL DOWN TIME _____
 DRILLING PROBLEMS _____
 CONTRACT HOURS OTHER NEW BIT!
 MOVE TO NEXT HOLE _____

DEPTH IN METRES	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
30	W W W			ICE DEPTH = 20" WATER DEPTH = 32'
40	o o o o o		01 02	CLAY 32' to 33' - brown in color - soft and gritty
50	/// E.O.H.		03	GRAVEL 33' to 47' - pebbly 60% Vol. 40% Granitics GRAVEL 37' 60% Granitics 40% Vol. - some pyrite
60				
70				
80				
90				BEDROCK 47' to 49' - silicified - grey to dark green - weakly foliated
100				E.O.H. 49'
110				

[Handwritten signature]
[Handwritten signature]
 bin. mic. H. med grey green, laminated
 pyritic, unfoliated mafic - int buff.

OVERBURDEN DRILLING MANAGEMENT LIMITED
REVERSE CIRCULATION DRILL HOLE LOG

DATE Feb 4 1986 HOLE NO UMO-86-B4 LOCATION L160+00W 24+00N
 GEOLOGIST POORDA DRILLER FORTIN BIT NO. EOM374 BIT FOOTAGE 0-133
 SHIFT HOURS _____ MOVE TO HOLE 3:00-3:05
 _____ TO _____ DRILL 3:05-6:00
 TOTAL HOURS _____ MECHANICAL DOWN TIME _____
 _____ DRILLING PROBLEMS _____
 CONTRACT HOURS _____ OTHER NEW BIT
 _____ MOVE TO NEXT HOLE _____

DEPTH IN FEET	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
				70' WATER CASING SET TO
80				70-115' CLAY -at 102' green and brown soft clay
100				115-132' TILL -50% granitics, orange, black white, pink -50% volcanics, med. green -fine sandy matrix, grey -cobble -pyrite contained in matrix
120			01	132-133' BEDROCK -mildly foliated -medium green
			02	-fine crystalline -very hard.
			03	EOM 133'
140				

brca. mic. - med. green, med. grained
 mafic rock - intrusive (gabbroid?) - possible
 garnet observed.

OVERBURDEN DRILLING MANAGEMENT LIMITED
REVERSE CIRCULATION DRILL HOLE LOG

DATE FEB 6 19 86

HOLE NO NM0-86-137 LOCATION L 190W 20N

GEOLOGIST D. JAMIESON DRILLER A. BELLIVEAU BIT NO. 1000305 BIT FOOTAGE 49'-154'

SHIFT HOURS
____ TO ____

MOVE TO HOLE 2:15-2:30

TOTAL HOURS

DRILL 2:30-6:15

MECHANICAL DOWN TIME _____

CONTRACT HOURS

DRILLING PROBLEMS _____

OTHER _____

MOVE TO NEXT HOLE _____

DEPTH IN FEET	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
				56' WATER 54' CASING
20				<u>CLAY</u> 62'-72' grey clay
				72'-82' chocolate brown clay followed by grey clay
40				82'-87' grey clay
				<u>SAND + GRAVEL</u>
				87'-92' fine to medium grained sand, grey with a few pebbles
60				92'-93' well sorted, rounded gravel
				<u>TILL</u> fine grey sandy matrix pebbles 50% volcanics 50% granites
80				<u>BEDROCK</u>
				94-95' fine to medium grained dark green, massive gabbro; minor qtz.
				95' E. of
			01	<i>David Jamieson</i>
			02	fin. mc. mg. dk green, unfoliated, gabbroic
100				

OVERBURDEN DRILLING MANAGEMENT LIMITED
REVERSE CIRCULATION DRILL HOLE LOG

DATE 5 Feb. 1986 HOLE NO NMO-86-138 LOCATION L166700W - 22700N
 GEOLOGIST SHANNON DRILLER FORTIN BIT NO. 3000374 BIT FOOTAGE 132-226
 SHIFT HOURS _____ MOVE TO HOLE 8:20 - 8:30
 _____ TO _____ DRILL 8:30 - 10:55
 TOTAL HOURS _____ MECHANICAL DOWN TIME _____
 _____ DRILLING PROBLEMS _____
 CONTRACT HOURS _____ OTHER _____
 _____ MOVE TO NEXT HOLE _____

DEPTH IN FEET	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
0				60' WATER
2				20" ICE
61				61' CASING
60-88				CLAY - grey - soft
88-92				TILL - fine to coarse grey matrix - 20% granitic - 80% volcanic - traces of pyrite
92-93				Bedrock - mildly foliated - black - fine grain
E.O.H. 93				bioc. mic. banded (bedded) dk grey to black pyritic ash and fine lapilli tuff. (ie ≈ 5% pyrite)
80			01 02	
100				

James Shannon

OVERBURDEN DRILLING MANAGEMENT LIMITED
REVERSE CIRCULATION DRILL HOLE LOG

DATE FEB 7 1986

HOLE NO NMD-86-139 LOCATION L 202 W 22N
GEOLOGIST D. SAMIEN DRILLER A. BELLINER BIT NO. L000305 BIT FOOTAGE 154'-244'

SHIFT HOURS
____ TO ____

MOVE TO HOLE 8:00 - 8:30
DRILL 8:30 - 11:40

TOTAL HOURS

MECHANICAL DOWN TIME _____

CONTRACT HOURS

DRILLING PROBLEMS _____

OTHER _____

MOVE TO NEXT HOLE _____

DEPTH IN FEET	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
				68' WATER 64' CASING
				No Return 68'-87'
20				TILL 87'-89.5' fine grey sandy matrix pebbly 80% volcanics 20% granites
40				BEDROCK 89.5' massive, dark green, fine grained gabbro
60				90' E.O.H.
				David Samien
80				fin. mic. - larger fragments are dk green fg. mg and crystalline with no apparent foliation - white flow or fg. gabbro. The remainder of the sample contains abundant qtz grains with much rarer feldspars many apparently unfragmented possibly indicating some contamination from the overlying till unit.
100				

OVERBURDEN DRILLING MANAGEMENT LIMITED
REVERSE CIRCULATION DRILL HOLE LOG

DATE FEB. 5 19 86 HOLE NO NMO-86-140 LOCATION L172+00-22+00N
 GEOLOGIST BLISS DRILLER G. FORTIN BIT NO. J000374 BIT FOOTAGE 226-385
 SHIFT HOURS _____ MOVE TO HOLE 10:55 to 11:00
 _____ TO _____ DRILL 11:00 to 1:30
 TOTAL HOURS _____ MECHANICAL DOWN TIME _____
 _____ DRILLING PROBLEMS _____
 CONTRACT HOURS _____ OTHER _____
 _____ MOVE TO NEXT HOLE _____

DEPTH IN FEET	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
80				80' WATER DEPTH 21" ICE THICKNESS 92' CASING DEPTH (N)
90				80 to 100 feet NO RETURN CLAY assumed soft & smooth. 100 to 122 CLAY GRAY then BROWN 122 to 155.5 feet TILL (soft, smooth) few pebbles CLAY (brown / gray) and SILTY (GRAY) MATRIX. MOSTLY DARK MINERAL CLASTS (VOLCANICS)
110				155.5 COBBLY TILL 90% VOLCANICS 10% GRANITICS CLAYEY MATRIX GRAY
130				156 BEDROCK FINE TO MEDIUM GRAIN MAFIC INTRUSIVE (GABBRO) QUARTZ (5%) SOFT WHITE CARBONATE FLAKES MODERATE TO HEAVY FOLIATION.
140			01	158.5 feet E.O.H.
				bioc. mic m.g. dk green unfoliated to weakly foliated, dominantly mafic min (chlorite - amph?) + qtz possibly gabbroic.
			02	

Matthew Bliss

OVERBURDEN DRILLING MANAGEMENT LIMITED
REVERSE CIRCULATION DRILL HOLE LOG

DATE 7 FEB 19 86

HOLE NO NMO-88-141 LOCATION L208400W - 22400N

SHIFT HOURS
_____ TO _____

GEOLOGIST SHANNON DRILLER BELMIVEAN BIT NO. 1000305 BIT FOOTAGE 244-352

TOTAL HOURS

MOVE TO HOLE 1140-1145
DRILL 1145-3100

CONTRACT HOURS

MECHANICAL DOWN TIME _____

DRILLING PROBLEMS _____

OTHER _____

MOVE TO NEXT HOLE _____

DEPTH IN FEET	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
	W			62' WATER
	W			63' CASING
	W			
	W			
	W			CLAY - 62' - 92'
	W			- grey
	W			- soft.
4000	W			
	W			TILL 92' - 107'
	W			- 92-97- gritty clay
	W			- 97-104' - fine grey sand matrix
6000	W			- cobbly
	W			- 40% granitic
	W			- 60% volcanic
	W			- traces of pyrite
8000	W			

	W			BEDROCK
	W			- 30% carbonate or quartz
	W			- 70% volcanic
	W			- fine grain
	W			- medium foliation
	W			- medium green
10000	W		01	
	W		02	
	W		03	
	W			E.O.H. 108'
	W			bin. mic. n.g. to c.g. crystalline mafic rock (well defined plag. crystals), unfoliated - gabbroic with abundant qtz-carb chips (vein material?)
12000	W			

James Shannon

OVERBURDEN DRILLING MANAGEMENT LIMITED
REVERSE CIRCULATION DRILL HOLE LOG

DATE 5 FEB 1986

HOLE NO NMO-86-142 LOCATION L178+00W - 22400N

GEOLOGIST SHANNON DRILLER FORTIN BIT NO. 3000374 BIT FOOTAGE 385-527.5

SHIFT HOURS
____ TO ____

MOVE TO HOLE 130-1:40

TOTAL HOURS

DRILL 1:40-5:30

CONTRACT HOURS

MECHANICAL DOWN TIME

DRILLING PROBLEMS

OTHER

MOVE TO NEXT HOLE

DEPTH IN FEET	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
	W			80' WATER
	W			20" ICE
	W			81' CASING
	W			80-92 - CLAY
	W			- grey
80	W			92-141 1/2 - TILL
	W			- 92-102 - Clayey
	W			- 102-112 -
	W			- coarse grain matrix
100	W		01	- 20% granitic
	W			- 80% volcanic
	W			- almost gravel except
	W			for occasional trace
	W			of pyrite
	W		02	- 120'-123' bed of sand
120	W			- 132 1/2' - 133' boulder (granite)
	W		03	- 135-141 1/2 - lodgement till
	W		04	
	W		05	141 1/2 - 142 1/2 - BEDROCK
	W		06	

	W		07	
140	W		08	
	W		09	

- light green
- highly foliated
- 30% volcanic
- 50% white
- quartz
- carbonate
- not too hard.

bioc. mic. - H. - med. green, banded
possibly volcanoclastic, fine grained

James Shannon

142 1/2 E.O.H

OVERBURDEN DRILLING MANAGEMENT LIMITED
REVERSE CIRCULATION DRILL HOLE LOG

DATE FEB 7 1986 HOLE NO NMO-86-143 LOCATION L 208W 24N
 GEOLOGIST D. SAMUELSON DRILLER A. BELLINSEH BIT NO. 100305 BIT FOOTAGE 352'-48"
 SHIFT HOURS _____ MOVE TO HOLE 3:00-3:10
 _____ TO _____ DRILL 3:10-6:00
 TOTAL HOURS _____ MECHANICAL DOWN TIME _____
 _____ DRILLING PROBLEMS _____
 CONTRACT HOURS _____ OTHER _____
 _____ MOVE TO NEXT HOLE _____

DEPTH IN FEET	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
				63' WATER 64' CASING
60				<u>CLAY</u> 82'-92' grey clay 92'-102' grey clay followed by brown clay followed by grey clay 102'- 115.5' grey clay
80				<u>SAND</u> 115.5'-116' fine to coarse grained sand
100				<u>GRAVEL</u> 116'-129.5 well sorted pebbles with thin sandy interbeds

80			01	<u>TILL</u> 129.5-132' fine grey sandy matrix pebbly 50% volcanics 50% granitics
			02	<u>BEDROCK</u> 132'-133' finely laminated, bedded grey-black clay felsic tuff or chert; cryptocrystalline
			03	
			04	
			05	


bin mic. med grey-brown v.fg. to fg. laminated mafic-intermediate ash tuff. weakly foliated.

David Samuelson

OVERBURDEN DRILLING MANAGEMENT LIMITED
 REVERSE CIRCULATION DRILL HOLE LOG

DATE Feb 6 1986 HOLE NO NMO-86-144 LOCATION L 184+00W 22+00N
 GEOLOGIST ROBERTA DRILLER FORTIN BIT NO. 1000374 BIT FOOTAGE _____
 SHIFT HOURS _____ MOVE TO HOLE _____
 _____ TO _____ DRILL 9:00 - _____
 TOTAL HOURS _____ MECHANICAL DOWN TIME _____
 _____ DRILLING PROBLEMS _____
 CONTRACT HOURS _____ OTHER _____
 _____ MOVE TO NEXT HOLE _____

DEPTH IN METRES	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
0	u			WATER DEPTH 57' ICE THICKNESS 21" CASING SET TO 73'
10	u			
20	u			57-69' CLAY -at 59' sand mixed with soupy green clay -several pebbles
30	u			69-89' TILL -40% granitics, orange, black, white, pink -60% volcanics, medium green -fine grey sandy matrix -intermittent gravel -cobbly -at 83' 90% volcanics -10% granitics -small boulders at 85' and 87'
40	u			
50	u			
60	u			
70	△		01	89-90' BEDROCK -dark green -mild foliation -fine crystals -3% carbonite
80	△			
90	△			
100	△			
110	△			
120	△			
130	△			
140	△			
150	△			
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1000	△			


EOH 90'


bin. mic. med-dk green, crystalline, unfoliated mafic volcanic intrusive.

OVERBURDEN DRILLING MANAGEMENT LIMITED
 REVERSE CIRCULATION DRILL HOLE LOG

DATE FEB. 8 1986 HOLE NO NMO-86-145 LOCATION L 214+00N 22+00N
 GEOLOGIST X DRILLER BELLIVEAU BIT NO. 1000316 BIT FOOTAGE 0-153
 SHIFT HOURS _____ MOVE TO HOLE _____
 _____ TO _____ DRILL 9:00-12:15
 TOTAL HOURS _____ MECHANICAL DOWN TIME _____
 _____ DRILLING PROBLEMS _____
 CONTRACT HOURS _____ OTHER NEW BIT!!
 _____ MOVE TO NEXT HOLE _____

DEPTH IN METRES	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
50				WATER DEPTH = 58ft. 54' of casing NO RETURN 58'to 92'
60				CLAY 92'to 126' -soft and smooth -grey in color 102' brown 112' grey
70				
80				BOULDER 126'to 127' -granitic
90				GRAVEL 127'to 138' -sand and gravel interbred -pebbly with fine sand
100				TILL 138'to 151' -fine sand matrix 50% Vol. 50% Granitic
110				BEDROCK 151'to 153' -pale green -soft rock -foliated
120				
130			01	E.O.H. 153'

140			02	 bin. mic. - pl. med grey and green. f.g. matrix with possible lapilli and crystal fragments - mafic - intermediate crystal - lapilli and ash buff. weakly foliated
			03	
			04	
			05	
			E.O.H.	

OVERBURDEN DRILLING MANAGEMENT LIMITED
REVERSE CIRCULATION DRILL HOLE LOG

DATE FEB. 6 19 86 HOLE NO NMD-86-146 LOCATION L 184+00W - 24+00N
 GEOLOGIST BLISS DRILLER G. FORTIN BIT NO. J000372 BIT FOOTAGE 0-122
 SHIFT HOURS _____ MOVE TO HOLE 11:45 to 12:00
 _____ TO _____ DRILL 12:00 to 3:30
 TOTAL HOURS _____ MECHANICAL DOWN TIME _____
 _____ DRILLING PROBLEMS _____
 CONTRACT HOURS _____ OTHER _____
 _____ MOVE TO NEXT HOLE _____

DEPTH IN FEET	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG	NEW BIT					
20				WATER DEPTH 28' ICE THICKNESS 24" (N) CASING DEPTH 32' 28 to 37 NO RETURN assumed saturated sandy clays 37 to 42 TILL sandy (gray fine matrix) pebbly 50% GRANITICS 50% VOLCANICS.						
40			01							
			02	42 to 97 GRAVEL (COBBLY) LITTLE TO NO MATRIX 60% VOLCANICS 40% GRANITICS 84 to 97 TILL PEBBLY GRAY FINE SANDY MATRIX (SOME CLAY) 60% GRANITICS 40% VOLCANICS						
60			03	97 to 100 BOULDER (GRANITIC) 100 to 107 GRAVEL as above. 107 to 110 SAND medium gray (medium grain)						
80			04	110 to 120 PEBBLY TILL as above (60% GRANITICS) 40% VOLCANICS) PEBBLY to COBBLY.						
			05	120 to 122 BEDROCK 70% DARK MINERALS (CHLORITE) 30% LIGHT MINERALS (CARBONATE/ QUARTZ)						
			06	FINE GRAINED MAFIC VOLCANIC MILDLY FOLIATED fine. vic. - v.f.g. groundmass, fig.-mg fragments, unfoliated mafic volcanoclastic (ash tuff).						
			07							
			08							

Matthew Bliss

OVERBURDEN DRILLING MANAGEMENT LIMITED
REVERSE CIRCULATION DRILL HOLE LOG

DATE FEB. 15 1986 HOLE NO NMO-86-147 LOCATION O.G. 63+80W 9+50N
 GEOLOGIST BLISS DRILLER DEBROUERS BIT NO. 100870 BIT FOOTAGE 188.24
 SHIFT HOURS 11:15 to 11:30
 TO 11:30 to 2:45
 TOTAL HOURS _____ MECHANICAL DOWN TIME _____
 DRILLING PROBLEMS SYSTEM CLOGGED 12:00 - PULL UP
 CONTRACT HOURS _____ OTHER RODS TO CHECK BIT.
 MOVE TO NEXT HOLE _____

DEPTH IN FEET	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG	NEW GRID									
				45' WATER 28" ICE 54' CASING (N)										
				45 to 52 feet NO RETURN saturated sands & clays										
20				52 to 53.5 feet TILL COBBLY 80% GRANITICS 20% VOLCANICS FINE SANDY GRAY MATRIX										
				53.5 to 57 feet BEDROCK Calcite Schist mafic (meta) volcanics medium green high degree of foliation 5-10% Carbonate fine grained -micaceous mineral content gives the rock chips a silver/gray sheen. apparent banding - with sericite laminae (tan) trace of pyrite.										
60			01 02											
				57 feet E.O.H										

80

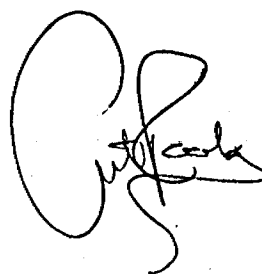
100

fin. mic. med green, v. strong foliation to schistose, strongly laminated, rare pyrite, 5%+ qtz-carbonate.
 Sheared mafic metavolcanic (chlorite schist.)

Matthew Bliss

OVERBURDEN DRILLING MANAGEMENT LIMITED
 REVERSE CIRCULATION DRILL HOLE LOG

DATE Feb 6 1986 HOLE NO NMO-86-18 LOCATION L 196+00N 20+00N
 GEOLOGIST ROBERTA DRILLER FORTIN BIT NO. J000372 BIT FOOTAGE 122-22'
 SHIFT HOURS _____ MOVE TO HOLE 3:30 - 3:45
 _____ TO _____ DRILL 3:45 - 6:00
 TOTAL HOURS _____ MECHANICAL DOWN TIME _____
 _____ DRILLING PROBLEMS _____
 CONTRACT HOURS _____ OTHER _____
 _____ MOVE TO NEXT HOLE _____

DEPTH IN FEET	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
0				ICE THICKNESS 20" WATER DEPTH 74' CASING SET TO 83'
80				74-102' CLAY - no return until 92' - green and brown soft clay
90				
100				102-103' BEDROCK - medium to light green - mild foliation - fine crystals
102			01	
110				EOH 103'
120				
130				Handwritten text, mostly illegible due to scribbles
140				Handwritten text, mostly illegible due to scribbles
150				bioc. mic. - v.f.g. matrix, lg to mg fragments med. green with little foliation. Matrix ash and xl left.

OVERBURDEN DRILLING MANAGEMENT LIMITED
 REVERSE CIRCULATION DRILL HOLE LOG

DATE 15 FEB. 1986

HOLE NO. NMO-86-149 LOCATION O.G. 69+85 W 9+50N L 2400E - 1400S (N.G.)

SHIFT HOURS _____
 TO _____

GEOLOGIST SHANNON DRILLER FORTIN BIT NO. J050372 BIT FOOTAGE 245-286

TOTAL HOURS _____

MOVE TO HOLE 2:15 - 2:30

CONTRACT HOURS _____

DRILL 2:30 - 4:00

MECHANICAL DOWN TIME _____

DRILLING PROBLEMS _____

OTHER _____

MOVE TO NEXT HOLE _____

DEPTH IN FEET	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
	W			37' WATER
	W			21" ICE
	W			34' CASING
20	W			37'-41' BEDROCK
	W			- medium green
	W			- high foliation
	W			- 40% quartz or carbonate
	W			- 60% volcanic (matrix)
40	W		01	- fine grain
				Note! there was a fine dusting of sand on top of Bedrock - Not enough for a sample.
60				E.O. H. 41'
				fin. mic. med. green, v. strong foliation to schistose, strongly laminated, mafic meta-volcanic (chlorite schist) etc. carb content 20% prob. vein derived.
80				James Shanon

OVERBURDEN DRILLING MANAGEMENT LIMITED
REVERSE CIRCULATION DRILL HOLE LOG

DATE FEB 7 19 86 HOLE NO NMD-86-150 LOCATION L196+00W - 22+00N
 GEOLOGIST BLISS DRILLER G. FORTIN BIT NO. J000372 BIT FOOTAGE 225 to 41
 SHIFT HOURS _____ MOVE TO HOLE _____
 _____ TO _____ DRILL 9:00 to 11:50
 TOTAL HOURS _____ MECHANICAL DOWN TIME _____
 DRILLING PROBLEMS _____
 CONTRACT HOURS _____ OTHER 8:00 to 9:00 DEFROST.
 _____ MOVE TO NEXT HOLE _____

DEPTH IN FEET	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
				WATER DEPTH 77' ICE THICKNESS 18" CASING (N) 84'
110				77 to 112 NO RETURN saturated CLAYS.
120				112 to 130 GRAY CLAY soft & smooth. 130 to 132 BROWN/GRAY CLAY (as above) 132 to 150 BROWN CLAY (as above) 150 to 165 GRAY CLAY (as above)
130				165 to 167 SANDY CLAY grey fine matrix.
140				167 to 171 SAND (fine to SILTY) GRAY.
150				171 to 178 SAND (COARSE) GRANITIC (GRAY) 178 FINE SAND with PEBBLY INTERBEDS.
160				180 TILL (PEBBLY) FINE SANDY GRAY MATRIX 70% GRANITICS. 30% VOLCANICS.
				186 TILL VERY FINE SANDY SILTY MATRIX PEBBLY TO COBBLY 60% VOLCANICS 40% GRANITICS.

170		01		187 BEDROCK DARK GREEN QUARTZ/CARBONATE CONTENT ~ 10% HARD (UNEVEN FRACTURE - SILICIOUS?) MILDLY FOLIATED
180		02		FINE GRAINED TRACE OF PYRITE.
190		03		189 feet E.D.H. bioc. mic. med. to dk grey, v.f.g. to f.g. subchoidal fracture, unfoliated, volcanoclastic (intermediate), containing 5-10% pyrite

Matthew Bliss

OVERBURDEN DRILLING MANAGEMENT LIMITED
 REVERSE CIRCULATION DRILL HOLE LOG

O.G. 57+90W 9+90N

DATE FEB. 15 1986

HOLE NO NMO-86-151 LOCATION L 4+00 E - 1+00 S
 GEOLOGIST BLISS DRILLER DESROSIERS BIT NO. 1000370 BIT FOOTAGE 286-341

SHIFT HOURS
 _____ TO _____

MOVE TO HOLE 3:45 to 4:00
 DRILL 4:00 to 5:15

TOTAL HOURS

MECHANICAL DOWN TIME _____

CONTRACT HOURS

DRILLING PROBLEMS _____

OTHER _____

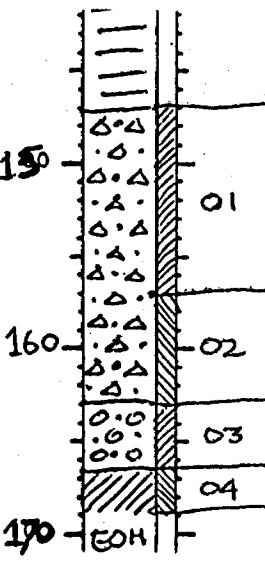
MOVE TO NEXT HOLE 5:15 to 5:25 / CASING 5:25 to 5:45

DEPTH IN FEET	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
	W			42' WATER
	W			44' CASING (N)
	W			22" ICE
	W			42 to 56 feet NO RETURN assumed saturated clay.
20	W			56 to 57.5 feet TILL FINE GRAY SANDY MATRIX PEBBLY TO COBBLY 80% GRANITIC 20% VOLCANIC
	W			57.5 to 60 feet BEDROCK MODERATE TO HEAVY FOLIATION TRACES OF PYRITE CUBES 5% QUARTZ MEDIUM GREEN FINE GRAINED MAFIC (META) VOLCANIC TRACES OF CARBONATE
40	W			60 feet E.O.H.
	W		01	
60	W		02	fin. mic. mod. green, v. strong foliation to schistose, rare pyritic aggregates, strong lamination with some colour variation between laminae. Sheared matrix metabasaltic (chlorite schist)
80				

OVERBURDEN DRILLING MANAGEMENT LIMITED
REVERSE CIRCULATION DRILL HOLE LOG

DATE Feb 7 19__ HOLE NO NMO-86-152 LOCATION L 196+00 24+00N
 GEOLOGIST ROOPDA DRILLER FORTIN BIT NO. 1000372 BIT FOOTAGE 414-58
 SHIFT HOURS _____ TO _____ MOVE TO HOLE 11:50 - 11:55
 TOTAL HOURS _____ DRILL 11:55 - 4:45
 CONTRACT HOURS _____ MECHANICAL DOWN TIME _____
 _____ DRILLING PROBLEMS _____
 _____ OTHER _____
 _____ MOVE TO NEXT HOLE _____

DEPTH IN FEET	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
74				WATER DEPTH 74' ICE THICKNESS 20" CASING SET TO 83'
74 - 147'				CLAY 112' Firm green clay 122' change to choco. brown 132 Firm green clay
147 - 163'				TILL - 60% granitics, mostly orange - 40% volcanics - Fine grey sandy matrix - traces of pyrite - intermittent gravel - pebbly
163 - 166.5				GRAVEL - 60% granitics - 40% volcanics - cobbly - medium to coarse sand - intermittent fine sand.



166.5 - 168.5' BEDROCK
 - dark green
 - fine crystals
 - mild foliation
 - 2% quartz
 EOH 168.5

bioc. mc. fig. - v. fig. med. - dk grey - green
 subchaotoidal texture, unfoliated
 mafic - int ash buff

OVERBURDEN DRILLING MANAGEMENT LIMITED
REVERSE CIRCULATION DRILL HOLE LOG

DATE FEB. 16 19 86 HOLE NO NMD-86-153 LOCATION N. C. L 6+00 E - 1+00 S / O.G. 156 W - 10+40 A
 GEOLOGIST BLISS DRILLER DESPRES BIT NO. 1000370 BIT FOOTAGE 346.385
 SHIFT HOURS _____ MOVE TO HOLE _____
 _____ TO _____ DRILL 9:00 to 10:55
 TOTAL HOURS _____ MECHANICAL DOWN TIME _____
 DRILLING PROBLEMS _____
 CONTRACT HOURS _____ OTHER 8:00 to 9:00 DEFROST
 _____ MOVE TO NEXT HOLE _____

DEPTH IN FEET	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
				WATER 34'
				ICE 23"
				CASING 44'
				34 feet TILL PEBBLY
				70% GRANITICS
				30% VOLCANICS
20				FINE SANDY GRAY MATRIX
				TRACE OF PYRITE
				34.5 feet BEDROCK
				FINE GRAINED
				MEDIUM GREEN
				5-10% CARBONATE (QUARTZ)
			01	(MILD SCHISTOSITY)
			02	(MODERATE TO INTENSE)
40				TRACE OF PYRITE
				MICACEOUS MINERAL CONTENT
				GIVES THE ROCK CHIPS
				A SILVER/GRAY SHEEN.
				E.O.H 38 feet.
60				bin. mic. med. grey-green, v. strong foliation,
				to schistose, well laminated. Sheared
				matrix metabasaltic (chlorite-sericite
				schist).
80				

OVERBURDEN DRILLING MANAGEMENT LIMITED
REVERSE CIRCULATION DRILL HOLE LOG

DATE 8 Feb. 1986

HOLE NO NMO-86-154 LOCATION L208+00W - 28+00N
GEOLOGIST SHANNON DRILLER FORTIN BIT NO. S000374 BIT FOOTAGE 5825-680

SHIFT HOURS
TO

MOVE TO HOLE
DRILL 8:45 - 11:20

TOTAL HOURS

MECHANICAL DOWN TIME

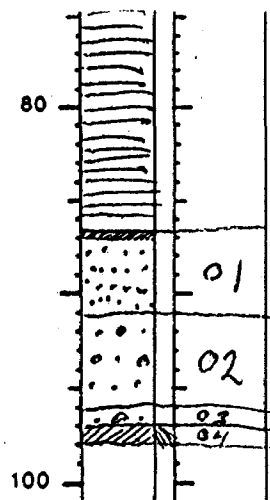
CONTRACT HOURS

DRILLING PROBLEMS

OTHER

MOVE TO NEXT HOLE

DEPTH IN FEET	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
0-52				52' WATER 62' CASING
52-86.5				62-86.5 - CLAY - grey then brown then grey again - very soft
86.5-91				86.5-91 - TILL AND SAND - ~4" of fine grey sand on top of boulder - 1/2 foot of granite boulder - 4 feet of coarse sand
91-96				91-96 - GRAVEL - 50% volcanic - 10% white (quartz or carbonate) - 30% granitic - pebbly with sand interbeds - granite boulder 95-95.5



96-97 - TILL
- fine grey sand matrix
- 10% quartz
- 45% volcanic
- 45% granitic

since mic. red green, v.f. to lg. groundmass with 10% xls, unlabeled matrix w/ tuff

97-98 - BEDROCK
- mild foliation
- 100% volcanic
- dark green

Shannon

E.O.H. 98

OVERBURDEN DRILLING MANAGEMENT LIMITED
 REVERSE CIRCULATION DRILL HOLE LOG

DATE Feb 16 1986 HOLE NO NMO-86-155 LOCATION OG 54+00W 11+00N
NEW GRID 8+00E 1+00S
 GEOLOGIST ROORDA DRILLER FORTIN BIT NO. 600370 BIT FOOTAGE 384-441
 SHIFT HOURS _____ MOVE TO HOLE 10:55 - 11:00
 _____ TO _____ DRILL 11:00 - 12:10
 TOTAL HOURS _____ MECHANICAL DOWN TIME _____
 _____ DRILLING PROBLEMS _____
 CONTRACT HOURS _____ OTHER _____
 _____ MOVE TO NEXT HOLE _____

DEPTH IN FEET	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
				WATER DEPTH 37' ICE THICKNESS 22" CASING SET TO 43'
20				37-53.5' CLAY - at 52' brown & green clay, soft.
40				53.5-54.5 TILL - 50% granitics - 50% volcanics - Fine grey sandy matrix
60			01 02	54.5-57' BEDROCK - light grey - med-high foliation - schistose - trace of quartz - trace of pyrite - micro crystalline
				EOH 57'

80

[Signature]

fin. mic. lt. med. green tan, strong sericite sheen. schistose. chlorite-sericite schist. Rare pyrite aggregates

100

OVERBURDEN DRILLING MANAGEMENT LIMITED
 REVERSE CIRCULATION DRILL HOLE LOG

DATE Feb 8 1986

HOLE NO N10-86156 LOCATION W 208+00W 26+00N

SHIFT HOURS
 _____ TO _____

GEOLOGIST POORDA DRILLER FORTIN BIT NO. E000162 BIT FOOTAGE 0-101'

TOTAL HOURS

MOVE TO HOLE 11:20-11:25
 DRILL 11:25-2:00

CONTRACT HOURS

MECHANICAL DOWN TIME _____

DRILLING PROBLEMS _____

OTHER _____

MOVE TO NEXT HOLE _____

DEPTH IN FEET	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
63				WATER DEPTH 63' CASING SET TO 73'
63-115				CLAY - at 102' green soft clay
115-117.5				GRAVEL - 20% granitics, black & white, orange - 80% volcanics, medium green - trace of pyrite - medium to coarse sand
117.5-119.5				TILL - cobbly - fine grey sandy matrix - trace of pyrite
119.5-121				BEDROCK - medium green - 5% light green - no foliation - medium size crystals - 1% quartz
120-120.0		01		
120-120.5		02		
120-121		03		
121				EOH 121'
140				

trace. mi. - mg. crystalline, med-dk green, unfoliated mafic intrusive (gabbroic)

OVERBURDEN DRILLING MANAGEMENT LIMITED
 REVERSE CIRCULATION DRILL HOLE LOG

DATE FEB. 16 19 86 HOLE NO NMO-86-157 LOCATION 04. 54+50W 12+90N
L 8+00 E - 1400N (N.G.)
 GEOLOGIST BLISS DRILLER FORTIN BIT NO. J000370 BIT FOOTAGE 441-476
 SHIFT HOURS _____ MOVE TO HOLE 12:10 - 12:15
 _____ TO _____ DRILL 12:15 - 2:10
 TOTAL HOURS _____ MECHANICAL DOWN TIME _____
 _____ DRILLING PROBLEMS _____
 CONTRACT HOURS _____ OTHER _____
 _____ MOVE TO NEXT HOLE _____

DEPTH IN FEET	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
				28' WATER 22" ICE
				28 to 32 NO RETURN
				32 ft. CLAY GRAY SOFT & SMOOTH
				33.5 ft TILL PEBBLY GRAY FINE SANDY MATRIX 70% GRANITICS 30% VOLCANICS
20				34 ft BEDROCK FINE GRAINED MEDIUM TO DARK GREEN 15% QUARTZ 10% CARBONATE PYRITE BANDED WITH CALCITE ISOLATED PYRITE CUBES IN QUARTZ MODERATE FOLIATION
40			01 02	
			EDH	
60				EDH 37 feet. bin. mic. med. dk. green, strong sericite- chlorite shear, strongly laminated, chlorite-sericite schist with, 10% qtz-carb.
80				

OVERBURDEN DRILLING MANAGEMENT LIMITED
 REVERSE CIRCULATION DRILL HOLE LOG

O.G. 56+50W 12+40N

DATE Feb 16 1986

HOLE NO ~~NMO-86-158~~ LOCATION NEW GRID L6100E 1+00N
 GEOLOGIST ROORDA DRILLER FORTIN BIT NO. 1000370 BIT FOOTAGE 478-545

SHIFT HOURS
 _____ TO _____

MOVE TO HOLE 2:10-2:15

TOTAL HOURS

DRILL 2:15-3:30

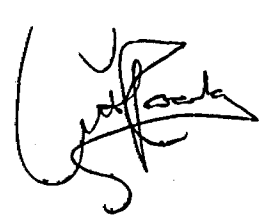
CONTRACT HOURS

MECHANICAL DOWN TIME _____

DRILLING PROBLEMS _____

OTHER _____

MOVE TO NEXT HOLE _____

DEPTH IN FEET	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
				WATER DEPTH 41' ICE THICKNESS 21"
0				
10				
20				41-56.5' CLAY - at 52' green & brown soft clay
30				
40				56.5-64' TILL - 56.5-57.5' BOULDER, orange granite - 60% gneissics, mostly pink - 40% volcanics, medium green - traces of pyrite - fine sandy matrix
50				
60			01 02 03	64-67' BEDROCK - medium to dark green - high foliation - 5% quartz - fine crystals.
70				60N 67'
80				
90				bin. mic. - med. - dk. green, sericitic sheen, v. strongly foliated to schistose, multi metamorphic.
100				

OVERBURDEN DRILLING MANAGEMENT LIMITED
REVERSE CIRCULATION DRILL HOLE LOG

DATE FEB. 16 19 86

HOLE NO NMO-86-159 LOCATION OG 58+50W 11+90N L 4+00E 1+00N (N-G)
GEOLOGIST BLISS DRILLER FORTIN BIT NO. J000370 BIT FOOTAGE 595-680

SHIFT HOURS
_____ TO _____

MOVE TO HOLE 3:30 to 3:40
DRILL 3:40 to 5:15

TOTAL HOURS

MECHANICAL DOWN TIME _____

CONTRACT HOURS

DRILLING PROBLEMS _____

OTHER _____

MOVE TO NEXT HOLE _____

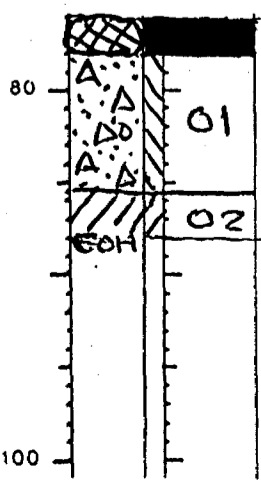
DEPTH IN FEET	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
				WATER 4' ICE 21'
				52 ft CLAY GRAY SOFT & SMOOTH
20				62 ft CLAY BROWN SOFT & SMOOTH
				70 ft CLAY GRAY SOFT & SMOOTH
40				72 feet TILL PEBBLY FINE SANDY GRAY MATRIX 60% GRANITICS 40% VOLCANICS
				77 GRAVEL INTERBED PEBBLY 50% GRANITICS 50% VOLCANICS COARSE SAND TO GRANULAR MATRIX (SILICIOUS)
60				82 BEDROCK FINE GRAINED MEDIUM GREEN 5-10% CARBONATE (QUARTZ) MODERATE FOLIATION / SCHISTOSITY MAFIC VOLCANIC TRACE OF LINEATION OF LIGHTER AND DARKER MINERALS
			01	
				E.O.H 85 ft.
80			02	
			03	
100				

Matthew Bliss

OVERBURDEN DRILLING MANAGEMENT LIMITED
 REVERSE CIRCULATION DRILL HOLE LOG

DATE FEB. 17 19 86 HOLE NO NM0-86-160 LOCATION OG. 60+50W 11+40N
L 2+00 E - 1+00N
 GEOLOGIST ROORDA DRILLER FORTIN BIT NO. J000370 BIT FOOTAGE 680.768
 SHIFT HOURS _____ MOVE TO HOLE _____
 _____ TO _____ DRILL 8:45 to 11:10
 TOTAL HOURS _____ MECHANICAL DOWN TIME _____
 _____ DRILLING PROBLEMS _____
 CONTRACT HOURS _____ OTHER _____
 _____ MOVE TO NEXT HOLE _____

DEPTH IN FEET	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
				WATER 41' ICE 21'
				41 to 62 NO RETURN (CLAYS)
				62 CLAY BROWN GREEN, SOFT & SMOOTH
				72 CLAY FIRM GREEN, SOFT & SMOOTH
20				76 BOULDER (TILL) GRANITIC
				78 TILL REBBLY 50/50 GRANITICS/VOLCANICS FINE SANDY GRAY MATRIX TRACE OF PYRITE
40				85.5 ft. BEDROCK MEDIUM GREEN MEDIUM TO HIGH FOLIATION OXYDIZED 85.5 to 86.5 ft. SOFT LIGHT GREEN SILTY MINERALS (CARBONATE)
				10% QUARTZ 85.5 ft 30% QUARTZ 87 - 88 ft
60				EOH 88 feet. bin. mic. med. dk green, sercatic sheen schistose, strongly laminated. 15%+ qtz-carb. minor oxidation. chlorite-sercatic schist
80				
100				



OVERBURDEN DRILLING MANAGEMENT LIMITED
 REVERSE CIRCULATION DRILL HOLE LOG

DATE FEB. 17 19 86 HOLE NO NMD-86-161 LOCATION L 0+00 64+13W 10+50N
 GEOLOGIST BLISS DRILLER FORTIN BIT NO. J000370 BIT FOOTAGE 760-890
 SHIFT HOURS _____ MOVE TO HOLE 11:10 to 11:15
 _____ TO _____ DRILL 11:15 to 12:10
 TOTAL HOURS _____ MECHANICAL DOWN TIME _____
 _____ DRILLING PROBLEMS _____
 CONTRACT HOURS _____ OTHER _____
 _____ MOVE TO NEXT HOLE _____

DEPTH IN FEET	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
				WATER 39' ICE 21"
				39 to 52 ft. NO RETURN (CLAYS)
				52 feet CLAY BROWN, SOFT AND SMOOTH
				62 CLAY GRAY, SOFT AND SMOOTH
20				67 TILL GRAVEL INTERBEDS NEAR 67 feet - TILL PEBBLY. 70% GRANITICS, 30% VOLCANICS. FINE GRAY SANDY MATRIX.
				70.5 BEDROCK LIGHT TO MEDIUM GREEN (SOMEWHAT FELSIC) H: 6-7) FINE GRAINED INTERMEDIATE MAFIC VOLCANIC HEAVILY FOLIATED - SILVER/GRAY SHEEN. LINEATION OF LIGHT/DARK MINERALS TRACE OF PYRITE SERICITE IS APPARENT (TAN MINERAL)
			01	E.O.H 72 feet
			02	br. mic. lt tan-green, fg. schistose, sericite and sericite-chlorite schist.
80				

OVERBURDEN DRILLING MANAGEMENT LIMITED
 REVERSE CIRCULATION DRILL HOLE LOG

DATE FEB 17 19 86 HOLE NO NM0-86-162 LOCATION AG. 69+35 W 10+25 N
L 7+00 2+00 N
 GEOLOGIST ROORDA DRILLER DESROSIERS BIT NO. J000370 BIT FOOTAGE 840-925
 SHIFT HOURS _____ MOVE TO HOLE 12:10 to 1:00
 _____ TO _____ DRILL 1:00 to 3:00
 TOTAL HOURS _____ MECHANICAL DOWN TIME _____
 _____ DRILLING PROBLEMS _____
 CONTRACT HOURS _____ OTHER _____
 _____ MOVE TO NEXT HOLE _____

DEPTH IN FEET	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
				WATER 65'
				CASING (N) 74'
				65 to 72 NO RETURN (CLAYS)
				72 to 80'S CLAY
				GREEN/BROWN. FIRM, SMOOTH
				80.5 ft TILL PEBBLY
20				40% GRANITICS
				60% VOLCANICS
				FINE GREY SANDY MATRIX
				82 feet BEDROCK
				3% CARBONATE
				MEDIUM GREEN
				MEDIUM FOLIATION
40				MICROCRYSTALLINE
				TRACE OF OXYDATION AT
				83.5'
				E. O. H. : 85'
				fin. mic. f.g. lt-med. green,
				schistose, strongly laminated,
				chlorite-sericite schist
60				
80				
			01	
			02	

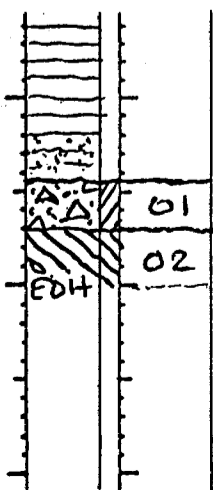
OVERBURDEN DRILLING MANAGEMENT LIMITED
REVERSE CIRCULATION DRILL HOLE LOG

DATE FEB. 17 19 86 HOLE NO NMD-86-163 LOCATION OG. 71+30W 9+65N
L 9+00W 2+00N
 GEOLOGIST BLISS DRILLER DESROSIERS BIT NO. J000370 BIT FOOTAGE 925 1035
 SHIFT HOURS 3:00 to 3:15
 MOVE TO HOLE 3:15 to 5:15
 DRILL 3:15 to 5:15
 MECHANICAL DOWN TIME _____
 DRILLING PROBLEMS _____
 OTHER _____
 MOVE TO NEXT HOLE _____

DEPTH IN FEET	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
	W			WATER 77' CASING (N) 84'
	W			77 to 92 feet NO RETURN ASSUMED SATURATED CLAYS
	W			92 feet CLAY GRAY SOFT AND SMOOTH
40	W			102 feet CLAY with some grit (GRAY)
	W			104.5 feet TILL LODGEMENT TILL 5% GRANITICS 95% VOLCANICS HEAVILY FOLIATED (SHEARED) CALCITE SCHIST MEDIUM GREEN LITTLE TO NO MATRIX LOCAL BEDROCK VOLCANICS SEEM TO MAKE UP THE MAJORITY OF THE PEBBLY CLASTS.
60	W			
	W			107 BEDROCK FINE GRAINED MED TO DARK GREEN MAFIC (META) VOLCANIC HEAVY FOLIATION APPARENTLY SOME SERICITE MINERAL CONTENT LINATION OF LIGHT AND DARK MINERALS 5% CARBONATE / QUARTZ
80	W			

E.O.H. 110 feet

bin. mic. f.g. #14-med green, schistose,
strongly laminated, chlorite-sericite
schist.



Matthew Bliss

OVERBURDEN DRILLING MANAGEMENT LIMITED
 REVERSE CIRCULATION DRILL HOLE LOG

OG 73+25W 9+00N

DATE 18 FEB 1986

HOLE NO NM086-164 LOCATION L1100W - 2400N
 GEOLOGIST SHANNON DRILLER FORTIN BIT NO. 3000370 BIT FOOTAGE 135-119

SHIFT HOURS
 TO

MOVE TO HOLE -
 DRILL 9:00 - 11:35

TOTAL HOURS

MECHANICAL DOWN TIME

CONTRACT HOURS

DRILLING PROBLEMS
 OTHER
 MOVE TO NEXT HOLE

DEPTH IN FEET	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
				81' WATER 94' CASING
100				81-146 - CLAY - brown interbed at 112'-122' - grey - very soft
120				146-156 - TILL - fine grey sand matrix - 50% granitic - traces of pyrite
140				156-158 - BEDROCK - 50% volcanic - 50% quartz or carbonate - highly foliated
	.A.A .A.A .D.D .D.D .D.D		01	- medium green
	.D.D .D.D		02	- medium grain
			03	
0				E.O.H. 158' bin. mic. dk green, fig.-mg. massive mod. foliated, crystalline, matrix flow/intensive (gabbroic). High qtz. carb content 30%+ probably vein derived. James Shannon

OVERBURDEN DRILLING MANAGEMENT LIMITED
 REVERSE CIRCULATION DRILL HOLE LOG

O.G. 74+20W 8+50N

DATE Feb 18 1986

HOLE NO NMO-86-165 LOCATION W12+20N 1+60N
 GEOLOGIST ROOPER DRILLER FORTIN BIT NO. J000370 BIT FOOTAGE 193-13'

SHIFT HOURS _____
 TO _____

MOVE TO HOLE 11:25-11:30

TOTAL HOURS _____

DRILL 11:30-3:15

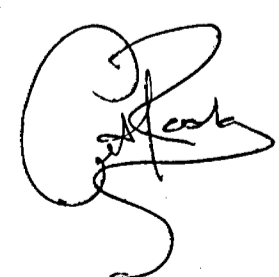
CONTRACT HOURS _____

MECHANICAL DOWN TIME _____

DRILLING PROBLEMS _____

OTHER _____

MOVE TO NEXT HOLE _____

DEPTH IN FEET	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
70				WATER DEPTH 78'
80				78-136' CLAY - soft grey - choc brown, soft, 107-120
90				136-149' TILL - 10% quartz - 40% granitics, orange, black & white - 50% volcanics, medium green - fine and medium grain matrix - grey matrix - after 142' 90% volcanics 10% granitics - pyrite traces - cobbly
100				
110				
120				
130				149-152' BEDROCK - medium green - mild foliation - fine crystals
140			01 02	
				EOH 152'
			03	
				EOH
				
				fin. mc. med 'grey, fg., strong foliation, intermediate metavolcanic

OVERBURDEN DRILLING MANAGEMENT LIMITED
 REVERSE CIRCULATION DRILL HOLE LOG

O.G. 73+95W 7+55N

DATE 18 Feb 1986

HOLE NO NMO 86-166 LOCATION L12+20N - 01600N
 GEOLOGIST SHANNON DRILLER FORTIN BIT NO. T000370 BIT FOOTAGE 1345-146

SHIFT HOURS
 _____ TO _____

MOVE TO HOLE 3:15 - 3:30
 DRILL 3:30 - 5:15

TOTAL HOURS

MECHANICAL DOWN TIME _____

CONTRACT HOURS

DRILLING PROBLEMS _____

OTHER _____

MOVE TO NEXT HOLE _____

DEPTH IN FEET	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
				70' WATER 104' CASING
70				70' - 113' CLAY - grey - very soft
100				113' - 119' BEDROCK - medium green - high foliation - fine grain - 100% volcanic - fine silt on top of Bedrock - not enough for a sample - traces of pyrite.
120			01	E.O.H. 119
140				
150				

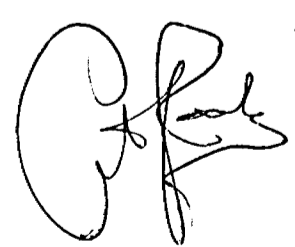
James Shan

fin. mic. pl. tan green, fig. schistose.
 primary texture obliterated - sericite-
 chlorite schist

OVERBURDEN DRILLING MANAGEMENT LIMITED
 REVERSE CIRCULATION DRILL HOLE LOG

DATE Feb 19 19 86
 SHIFT HOURS _____
 TO _____
 TOTAL HOURS _____
 CONTRACT HOURS _____

HOLE NO N40-86-167 LOCATION O.G. 72+75 W 7+10 N
11+00 W
 GEOLOGIST ROBERTA DRILLER FORTIN BIT NO. 1000370 BIT FOOTAGE 1464-157
 MOVE TO HOLE _____
 DRILL 9:00 - 11:20
 MECHANICAL DOWN TIME _____
 DRILLING PROBLEMS _____
 OTHER _____
 MOVE TO NEXT HOLE _____

DEPTH IN FEET	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
0				WATER DEPTH 72' CASING 84'
70				72-104' CLAY -at 92' soft green -at 102' soft green followed by soft brown followed by firmer green -at 112' firm green clay
80				
90				114-116.5 TILL -30% granitics, orange, black & white -70% volcanics, medium green -fine sand grey matrix -traces of pyrite
100				
110				116.5-119 BEDROCK dark green -mild foliation -pyrite in quartz veins
120			01 02	-3% quartz -fine crystals.
130				EOH 119
140				

fin. mic. dk grey-green, strongly foliated to schistose, laminated, mafic metavolcanic. Qtz-carb. tour-pyrite vein observed.

OVERBURDEN DRILLING MANAGEMENT LIMITED
REVERSE CIRCULATION DRILL HOLE LOG

O.G. 70+80W 7+70N

DATE Feb 19 19 86

HOLE NO UMO-86-168 LOCATION L 9+00W
GEOLOGIST SHANNON DRILLER FORTIN BIT NO. 4000370 BIT FOOTAGE 1570-161

SHIFT HOURS
TO

MOVE TO HOLE 11:20 - 11:30
DRILL 11:30 - 3:00

TOTAL HOURS

MECHANICAL DOWN TIME

CONTRACT HOURS

DRILLING PROBLEMS
OTHER
MOVE TO NEXT HOLE

DEPTH IN FEET	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
				WATER 77' CASING 84'
80				77-128.5' CLAY - soft grey-green - brown inter bed at 105' - 112'
90				128.5-132 SAND - Fine grain - grey - traces of pyrite
100				132-137 TILL - Fine grey sand matrix - 100% volcanic - traces of pyrite - occasional piece of granite quartz
110				137-140 BEDROCK - 30% volcanic; med. green - 70% beige coloured rock (TUFF?) - no foliation
130			01	- uniform texture
			02	- traces of pyrite
140			02	- occasional piece of quartz - surface of bedrock is red from oxidation
150				EOH 140'

BIND. MICROSCOPE
very fine grained, finely laminated,
tan to grey green tuff; weak to
moderate quartz-calcite alteration,
minor py as fine grained disseminations
and laminations

OVERBURDEN DRILLING MANAGEMENT LIMITED
REVERSE CIRCULATION DRILL HOLE LOG

O.G. 68+85W 8+30N

DATE Feb 19 1986

HOLE NO NM-86-169 LOCATION L 7+00W B
GEOLOGIST POOPDA DRILLER FORTIN BIT NO. 1000370 BIT FOOTAGE 1610-173

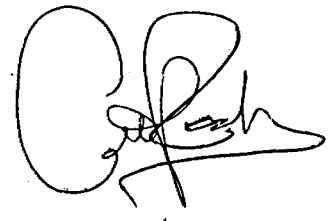
SHIFT HOURS
____ TO ____

MOVE TO HOLE 3:00 - 3:05
DRILL 3:05 - 5:00

TOTAL HOURS

CONTRACT HOURS

MECHANICAL DOWN TIME _____
DRILLING PROBLEMS _____
OTHER _____
MOVE TO NEXT HOLE _____

DEPTH IN FEET	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
				WATER 74' CASING 81'
70				74-124' CLAY - soft green - soft chocolate brown interbed 104-110'
80				
90				124-124.5 TILL - poor return - no sample taken
100				124.5-128 BEDROCK - medium foliation - dark green - 5% quartz - traces of pyrite - fine crystals
110				
120				EOH 128'
130			01	
140				bin. mic. - pl. med. grey-green, strongly foliated to schistose, tan. flecking, laminated. Mafic schistose meta-volcanics

OVERBURDEN DRILLING MANAGEMENT LIMITED
 REVERSE CIRCULATION DRILL HOLE LOG

DATE FEB. 20 1986

HOLE NO NMO-86-170 LOCATION OG. 78+55W 13+80N
L 15+00W 8+00N
 GEOLOGIST X DRILLER BELLIVEAU BIT NO. 1000320 BIT FOOTAGE 55'-62'

SHIFT HOURS
 _____ TO _____

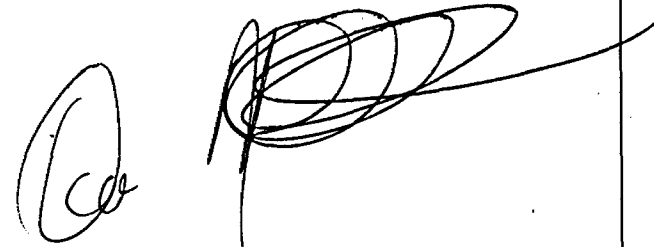
MOVE TO HOLE _____
 DRILL 9:30 - 11:45

TOTAL HOURS

MECHANICAL DOWN TIME _____

CONTRACT HOURS

DRILLING PROBLEMS _____
 OTHER _____
 MOVE TO NEXT HOLE _____

DEPTH IN FEET	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
				WATER DEPTH = 48 ft.
				54' of casing
10				NO RETURN 48' to 65'
20				TILL 65' to 65.5'
				(NOT ENOUGH FOR SAMPLE)
				-fine sand matrix
				-50% Vol. 50% Granitics
30				BEDROCK 65.5' to 67'
				-mafic Vol.
				-strongly foliated
				-some quartz
40				
				E.O.H. 67'
50				
60				
				BIND. MICROSCOPE:
				med. green, fine grained,
70				strongly foliated, moderately
				silicified mafic meta volcanic
				minor sericite and carbonate
80				

OVERBURDEN DRILLING MANAGEMENT LIMITED
 REVERSE CIRCULATION DRILL HOLE LOG

O.G. 73+80 W 10+95 N

DATE 20 Feb. 1986

HOLE NO NM086-171 LOCATION L1100 W - 4400 N
 GEOLOGIST SHANNON DRILLER FORTIN BIT NO. J000370 BIT FOOTAGE 1738-1866

SHIFT HOURS
 _____ TO _____

MOVE TO HOLE _____
 DRILL: 8:30 - 11:30

TOTAL HOURS

MECHANICAL DOWN TIME _____

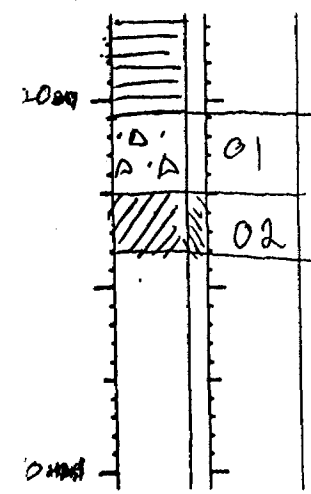
CONTRACT HOURS

DRILLING PROBLEMS _____

OTHER _____

MOVE TO NEXT HOLE _____

DEPTH IN FEET	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
	W			71' WATER
	W			84' CASING
	W			71'-121 1/2' - CLAY
	W			- grey
6000	W			- very soft
	W			- brown interbed at 105-114
	W			121 1/2' - 125' - TILL
	W			- 60% granitic
8000	W			- 40% volcanic
	W			- fine grey sand matrix
	W			- traces of pyrite
	W			125-128. BEDROCK
	W			- fine grain
10000	W			- high foliation
	W			- 100% volcanic
	W			- medium green
				E.O.H. 128'



James Shannon
 bio. mic. red green, v. strongly
 laminated, schistose, silic
 metavolcanic.

OVERBURDEN DRILLING MANAGEMENT LIMITED
REVERSE CIRCULATION DRILL HOLE LOG

DATE FEB 20 1986 HOLE NO NMO-86-172 LOCATION O.G. 78+05 W 11+85 N
 GEOLOGIST D. JAMIESON DRILLER A. BELL BIT NO. 100320 BIT FOOTAGE 623'-7"
 SHIFT HOURS _____ MOVE TO HOLE 11:45 - 11:50
 _____ TO _____ DRILL 11:50 - 2:15
 TOTAL HOURS _____ MECHANICAL DOWN TIME _____
 _____ DRILLING PROBLEMS _____
 CONTRACT HOURS _____ OTHER _____
 _____ MOVE TO NEXT HOLE _____

DEPTH IN FEET	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
				69' WATER 74' CASING
				No Return 69'-92'
				<u>CLAY</u>
90				92'-102' grey-brown clay
				102'-112' brown clay
				112'-119.5' brown clay
				<u>TILL</u>
110				119.5'-124' fine grey sandy matrix pebbly 75% granitics 25% volcanics
				124'-124.5' boulder-laminated suff.
			01	
			02	
130			03	124.5'-127' fine grey sandy matrix cobbles 90% volcanics 10% granitics

BEDROCK

127' fine grained, moderately foliated, laminated (light green, dark green, quartz) - suff?

130' E.O.H.

D. Jamieson

BINOC. MICROSCOPE: fine grained moderately foliated, weakly to moderately silicified mafic meta-volcanic

OVERBURDEN DRILLING MANAGEMENT LIMITED
 REVERSE CIRCULATION DRILL HOLE LOG

O.G. 74+30W 12+85N
 L 11 W - 6 N

DATE FEB 20 19 86
 SHIFT HOURS _____
 _____ TO _____
 TOTAL HOURS _____
 CONTRACT HOURS _____

HOLE NO NMW-86-173 LOCATION _____
 GEOLOGIST BLISS DRILLER DEBOSIERS BIT NO. J000370 BIT FOOTAGE 1866-190
 MOVE TO HOLE 11:30 to 11:35
 DRILL 11:35 to 2:00
 MECHANICAL DOWN TIME _____
 DRILLING PROBLEMS _____
 OTHER _____
 MOVE TO NEXT HOLE _____

DEPTH IN FEET	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
0				36' WATER
0				34' CASING (N)
0				36 feet TILL PEBBLY
0				FINE SANDY GRAY MATRIX
0				70% GRANITIC
0				30% VOLCANICS
20				37.5 BEDROCK
20				MEDIUM GRAINED
20				MILD TO NO FOLIATION
20				MEDIUM TO DARK GREEN
20				MAFIC INTRUSIVE
20				OXIDATION APPARENT
40			01	5-10% QUARTZ
40			02	10-15% CARBONATE
40				E.O.H. 41 feet
60				fin. mic. med. grey-green, fg-mg
60				xline, weakly foliated?
60				mafic metavolcanic (flow/intrusive)
80				

OVERBURDEN DRILLING MANAGEMENT LIMITED
 REVERSE CIRCULATION DRILL HOLE LOG

O.G. 77+50W 9+95N

DATE FEB. 20 19 86

HOLE NO. ALMO-86-174 LOCATION h 15+00 W 4+00 N
 GEOLOGIST X DRILLER BEULIEAU BIT NO. 1000320 BIT FOOTAGE 753-885

SHIFT HOURS
 _____ TO _____

MOVE TO HOLE _____
 DRILL _____

TOTAL HOURS

MECHANICAL DOWN TIME _____

CONTRACT HOURS

DRILLING PROBLEMS _____
 OTHER _____
 MOVE TO NEXT HOLE _____

DEPTH IN FEET	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
46				WATER DEPTH = 87 ft. 94' of casing NO RETURN 87' to 112'.
100				CLAY 112' to 129' - brown - soft and smooth
110				TILL 129' to 131' - fine sand matrix - 60% Vol. 40% Granitics - some pyrite
120				BEDROCK 131' to 132' - medium to dark green - mafic Vol.
130		01 02		- 50% pyrite - some quartz E.O.H. = 132'
140				
150				
				grey, silicified, pyritiferous tuff; fine grained, finely laminated py is in fine gr. fine grained py in aggregates associating with milky white qtz 15-20% PY

OVERBURDEN DRILLING MANAGEMENT LIMITED
 REVERSE CIRCULATION DRILL HOLE LOG

DATE 20 FEB 1976

HOLE NO NMO-86-175 LOCATION O.G. 74+80W A+80N
L11+00W - 8+00N

SHIFT HOURS _____
 TO _____

GEOLOGIST SARNON DRILLER PKSROSIGES BIT NO. 5000370 BIT FOOTAGE 1907-191

TOTAL HOURS _____

MOVE TO HOLE 1:50-2:00
 DRILL 2:00-4:00

CONTRACT HOURS _____

MECHANICAL DOWN TIME _____

DRILLING PROBLEMS _____

OTHER _____

MOVE TO NEXT HOLE _____

DEPTH IN FEET	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
				25' WATER.
				25-34 - CLAY
				- grey
				- very soft
20				34-36. TILL
				- 50% volcanic
				- 50% granitic
				- fine grey sand matrix
				- traces of pyrite
40				36-38. BEDROCK
				- medium grained
				- 100% volcanic
				- no foliation
				- light green
				E.O.H. 38'
				James Shana
80				fin. mc. - med. green, med. grained, massive, crystalline, mafic intrusive (gabbroid).

OVERBURDEN DRILLING MANAGEMENT LIMITED
 REVERSE CIRCULATION DRILL HOLE LOG

DATE FEB. 20 19 86

HOLE NO NMW-86-177 LOCATION OG. 76+75W A+20N
L 13 W - 8 N

SHIFT HOURS
 _____ TO _____

GEOLOGIST BUSS DRILLER DESPONTER BIT NO. 1000371 BIT FOOTAGE 0-41
 MOVE TO HOLE 4:00 to 4:10

TOTAL HOURS

DRILL 4:16 to 5:30
 MECHANICAL DOWN TIME _____

CONTRACT HOURS

DRILLING PROBLEMS _____

OTHER _____
 MOVE TO NEXT HOLE _____

DEPTH IN FEET	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
	W			38' WATER
	W			44' CASING
	W			38' TILL PERBLY FINE SANDY GRAY MATRIX 60% GRANITICS 40% VOLCANICS
20	W			40' BEDROCK SILICIOUS VEINS at 40ft OXYDATION APPARENT FINE TO MEDIUM CRYSTALLINE MASSIVE
40	W			MAFIC INTRUSIVE MEDIUM TO DARK GREEN MILD FOLIATION 10% QUARTZ
	W			E.O.H 41 feet.
60				fin. mc. med. dk. green, mg., xline, mafic intrusive (gabbroid)
80				

OVERBURDEN DRILLING MANAGEMENT LIMITED
 REVERSE CIRCULATION DRILL HOLE LOG

O.G. 77.25W 9400N.

DATE FEB. 21 1986

HOLE NO. NMD-86-178 LOCATION h 15+00 W 3400 N

SHIFT HOURS
 TO

GEOLOGIST X DRILLER A.B. BIT NO. G66764 BIT FOOTAGE 0'-115'

TOTAL HOURS

MOVE TO HOLE 12:10-12:15
 DRILL 12:15-3:15

CONTRACT HOURS

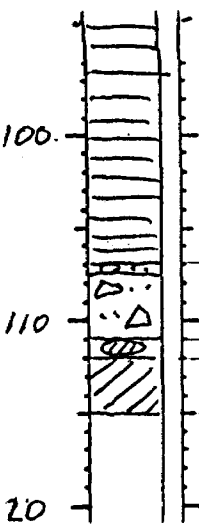
MECHANICAL DOWN TIME CHANGE DR 12:15-12:30

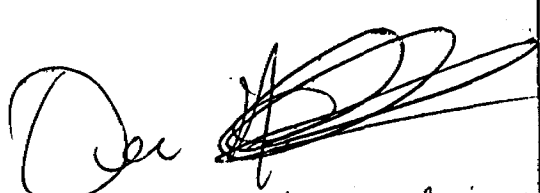
DRILLING PROBLEMS

OTHER NEW BIT

MOVE TO NEXT HOLE

DEPTH IN FEET	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
30				WATER DEPTH = 79' 74' of casing NO RETURN 79' to 92'
40				CLAY 92' to 107' -grey -soft and smooth
50				GRAVEL 107' to 107.5' -cobbly -granitic -some quartz
60				TILL 107.5' to 111' -fine sand matrix -40% Vol. 60% Granitics -quartz
70				BOULDER 111' to 112' -granitic
80				SAND 112' -fine
90				BEDROCK 112' to 115' -medium green -mafic Vol.



- some quartz
 E. O. H. 115ft.

 BINDU MICROSCOPE: finely laminated
 felds to intermediate felds. significant
 with 1-2% fine to med. grained PY

OVERBURDEN DRILLING MANAGEMENT LIMITED
 REVERSE CIRCULATION DRILL HOLE LOG

O.G. 79+83W 11+50N

DATE Feb 21 1986

HOLE NO ~~NMO-86-179~~ LOCATION ~~L16+80W~~ 6+20N
 GEOLOGIST ROORDA DRILLER FORTIN BIT NO. CB57642 BIT FOOTAGE 0-128

SHIFT HOURS
 TO

MOVE TO HOLE
 DRILL 9:45-1:30

TOTAL HOURS

MECHANICAL DOWN TIME

CONTRACT HOURS

DRILLING PROBLEMS

OTHER NEW BIT

MOVE TO NEXT HOLE

DEPTH IN FEET	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
0				WATER DEPTH 79'
80				79-117' CLAY - green, soft - brown interbed at 112'
90 20				117-126' TILL - 80% granitics - 20% volcanics, dark green - after 121' - 50% granitics - 50% volcanics, dark green - Fine grey sandy matrix - soft green boulder 123-124' - traces of pyrite - cobbly
120			01	126-128' BEDROCK
			02	- mild foliation
			03	- medium green
130 60				- Fine grain - trace of pyrite - 100% volcanics
140				EOH 128'
150 80				

P. Fortin

fin. mic. H-med grey-green,
 strongly laminated, schistose,
 mafic-int metavolcanic

OVERBURDEN DRILLING MANAGEMENT LIMITED
 REVERSE CIRCULATION DRILL HOLE LOG

DATE FEB 21 1986 HOLE NO NMO-86-180 LOCATION O.G. 78+20W 7+30N
16+50W 1+70N
 GEOLOGIST D. JAMIESON DRILLER A. BELLIVEM BIT NO. CR67641 BIT FOOTAGE 115-196
 SHIFT HOURS _____ MOVE TO HOLE 3:15-3:30
 _____ TO _____ DRILL 3:30-4:30
 TOTAL HOURS _____ MECHANICAL DOWN TIME _____
 _____ DRILLING PROBLEMS SCRAP LENGTHS OF CASING (BAD THREADS)
 CONTRACT HOURS _____ OTHER _____
 _____ MOVE TO NEXT HOLE 4:30-5:30

DEPTH IN FEET	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
				WATER 68' CASING 64'
				<u>CLAY</u> 68'-78' grey clay
20				<u>TILL</u> 78'-80.5' silty to fine ^{grey} sandy matrix abundant pebbles 60% volcanic 40% granitic mafic volcanic pebbles increase toward bedrock.
40				<u>BEDROCK</u> 80.5' strongly foliated, medium grained, medium green; yellow brown alteration along foliation plane 5% milky white quartz.
60				82' E.O.H. David Jamieson
				BINOC. MICROSCOPE: <u>stony</u> strongly foliated, with laminated brown alteration (carbonate) and minor silicification - mafic meta-volcanic
80			01 02	

OVERBURDEN DRILLING MANAGEMENT LIMITED
 REVERSE CIRCULATION DRILL HOLE LOG

O.G. 80+13 W 12+50 N

DATE FEB 21 19 86

HOLE NO NMD-86-181 LOCATION L 16+80N - 7+20N

GEOLOGIST BLISS DRILLER DESROSIERS BIT NO. CB67642 BIT FOOTAGE 128-210

SHIFT HOURS
 TO

MOVE TO HOLE 1:30 to 1:40

DRILL 1:40 to 4:00

TOTAL HOURS

MECHANICAL DOWN TIME

DRILLING PROBLEMS

CONTRACT HOURS

OTHER

MOVE TO NEXT HOLE

DEPTH IN FEET	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
				<p>WATER 62'</p> <p>CASING 74</p> <p>62 to 72 feet NO RETURN</p> <p>ASSUMED CLAYS SOFT, SMOOTH</p> <p>72 feet CLAY GRAY SOFT, SMOOTH</p> <p>75 feet TILL PERBLY</p> <p>70% GRANITIC</p> <p>30% VOLCANIC</p> <p>FINE SANDY GRAY MATRIX.</p> <p>81 feet BEDROCK</p> <p>FINE GRAINED</p> <p>MEDIUM GREEN</p> <p>HEAVILY FOLIATED</p> <p>TRACES OF SERICITE APPARENT (TAN COLOURED MINERAL)</p> <p>15% QUARTZ (CARBONATE)</p> <p>MAFIC (META) VOLCANIC</p> <p>LINATION OF DARK AND LIGHT MINERALS APPARENT.</p> <p>E.O.H. 82 feet.</p> <p>BINOC. MICROSCOPE: fine grained</p> <p>Strongly foliated mafic metavolcanic with weak to moderate quartz-sericite alteration along foliation; minor fine grained py</p>
20				
40				
60				
80			01	

OVERBURDEN DRILLING MANAGEMENT LIMITED
 REVERSE CIRCULATION DRILL HOLE LOG

DATE FEB 22 19 86 HOLE NO NMD-86-182 LOCATION 0679+83W 7+50N
17+85W 2+30N
 GEOLOGIST D. JAMIESON DRILLER A. BELLWEE BIT NO. CB67641 BIT FOOTAGE 196-300
 SHIFT HOURS _____ MOVE TO HOLE _____
 _____ TO _____ DRILL 8:45 - 9:45
 TOTAL HOURS _____ MECHANICAL DOWN TIME _____
 _____ DRILLING PROBLEMS _____
 CONTRACT HOURS _____ OTHER _____
 _____ MOVE TO NEXT HOLE _____

DEPTH IN FEET	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
				WATER - 87'
				CASING - 84'
				87' - 92' No Return
				CLAY 92' - 102.5' grey clay
				TILL 102.5' thin layer of till 90% volcanics no sample
60				BEDROCK 102.5' weakly foliated, fine grained mafic volcanic 5% Qtz
80				104' E.O.H.
100				<i>D. Jamieson</i>
				BIND. MICROSCOPE: moderately foliated, strongly silicified, minor py hematite; fine grained mafic meta volcanic
80				

OVERBURDEN DRILLING MANAGEMENT LIMITED
 REVERSE CIRCULATION DRILL HOLE LOG

DATE Feb 21 1986

HOLE NO NM0-86-183 LOCATION O.G. 76+20W 12+30N
L13+00W - 6+00N
 GEOLOGIST ROORDA DRILLER FORTIN BIT NO. GB676A2 BIT FOOTAGE 210-275

SHIFT HOURS _____
 _____ TO _____

MOVE TO HOLE _____
 DRILL _____

TOTAL HOURS _____

MECHANICAL DOWN TIME _____

CONTRACT HOURS _____

DRILLING PROBLEMS _____
 OTHER _____
 MOVE TO NEXT HOLE _____

DEPTH IN FEET	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
				WATER DEPTH 58' CASING 63'
				58-60' CLAY -no return
20				60-62' TILL -50% granitics, mostly orange -50% volcanics, dark green -traces of pyrite -heavy matrix -fine grey sandy matrix
40				62-65' BEDROCK -light grey-green -no foliation -medium grain
60			01 02	EOH 65'
80				

OVERBURDEN DRILLING MANAGEMENT LIMITED
 REVERSE CIRCULATION DRILL HOLE LOG

DATE 22 Feb 1986

HOLE NO. NMO-86-184 LOCATION L17+85W - 3+30N
 O.G. 0043W 8+50N
 GEOLOGIST SHANNON DRILLER BELLEVILLE BIT NO. LB67641 BIT FOOTAGE 300-43

SHIFT HOURS
 TO

MOVE TO HOLE 9:45 - 9:55
 DRILL 9:55 - 11:45

TOTAL HOURS

MECHANICAL DOWN TIME

CONTRACT HOURS

DRILLING PROBLEMS

OTHER

MOVE TO NEXT HOLE

DEPTH IN FEET	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
	W			82' WATER
	W			84' CASING
	W			82' - 131' ? CLAY
	W			- grey
	W			- very soft
	W			- brown interbed at 122' - 130'
100				131' - 131 1/2' - GRAVEL
				- no matrix
				- 100% volcanic
				- oxidation apparent
120				131 1/2' - 133 - BEDROCK
				- medium foliation
				- medium green
				- 40% white
				- 60% volcanic
				- oxidized surface (~ 2"-3")
				- traces of pyrite

James Shannon

Binuc. Microscope: strongly
 foliated, strongly altered (silicified,
 brown carbonate) mafic meta-volcanic,
 tuff? py 5-10% fine to medium grained

OVERBURDEN DRILLING MANAGEMENT LIMITED
REVERSE CIRCULATION DRILL HOLE LOG

DATE FEB 22 1986 HOLE NO NMO-86-185 LOCATION L 13+00 W 4+00 N O.G. 75+65 W 10+35 N
 GEOLOGIST BLISS DRILLER DESROSIER BIT NO. CB67642 BIT FOOTAGE 275-43
 SHIFT HOURS _____ MOVE TO HOLE 8:30 to 8:45
 _____ TO _____ DRILL 8:45 to 11:55
 TOTAL HOURS _____ MECHANICAL DOWN TIME _____
 _____ DRILLING PROBLEMS _____
 CONTRACT HOURS _____ OTHER 8:00 to 8:30 DEFROST
 _____ MOVE TO NEXT HOLE _____

*B₁ NO. MICROSCOPE fine to medium
ground, strongly foliated gabbro, 10% quartz*

DEPTH IN METRES	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
				WATER 80' CASING 84'
80				80 to 102 NO RETURN ASSUMED CLAYS SOFT AND SMOOTH.
				102 to 112 feet CLAY GRAY SOFT AND SMOOTH
				112 to 122 feet CLAY GRAY/BROWN SOFT AND SMOOTH
100				122 to 132 feet CLAY GRAY BROWN SOFT & SMOOTH
				132 to 149 feet CLAY GRAY SOFT & SMOOTH
				149 feet TILL PEBBLY 60% GRANITICS 40% VOLCANICS GRAY CLAYEY SAND MATRIX.
				149.5 GRANITIC BOULDER
				150.5 VOLCANIC BOULDER
140				151.5 LODGEMENT TILL PEBBLY
			01	95% VOLCANICS
			02	5% GRANITICS
				CLASTS COMPOSED ALMOST
			03	ENTIRELY OF LOCAL BEDROCK FRAGMENTS, LITTLE TO NO MATRIX.
				156 BEDROCK
				MODERATE TO HEAVY FOLIATION 10-15% QUARTZ 5-10% SERPENTINE - OFTEN BANDED WITH CHLORITE LINEATION OF DARK & LIGHT MINERALS MEDIUM TO DARK GREEN FINE GREEN MAGMA (METH) VOLCANIC

Matthew Bliss

E.O.H 159 feet

OVERBURDEN DRILLING MANAGEMENT LIMITED
REVERSE CIRCULATION DRILL HOLE LOG

DATE FEB 22 19 86

HOLE NO NMO-86-186 LOCATION O.G. 79+83 W 9+50 N
17+35 W 4+25 N

SHIFT HOURS
TO

GEOLOGIST D. JAMIESON DRILLER A. BELLINENI BIT NO. CB67641 BIT FOOTAGE 434'-57'
MOVE TO HOLE 11:45 - 12:00
DRILL 12:00 - 2:30

TOTAL HOURS

MECHANICAL DOWN TIME

CONTRACT HOURS

DRILLING PROBLEMS

OTHER

MOVE TO NEXT HOLE

DEPTH IN FEET	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
				83' WATER
				84' CASING
				83'-102' No Return
				<u>CLAY</u>
				102'-112' grey clay
120				112'-122' brown clay
				122'-139' brown clay followed by grey clay
				<u>TILL</u>
				139' granite boulder
140				141.5'-142.5' fine grey sandy matrix 60% granitic pebbly 40% volcanic
				<u>BEDROCK</u>
				142.5' strongly foliated, fairly fresh, medium grained gabbro
60				145' E.O.H
				David Jamieson
				BINOC. MICROSCOP. medium grained strongly foliated gabbro
80				

OVERBURDEN DRILLING MANAGEMENT LIMITED
 REVERSE CIRCULATION DRILL HOLE LOG

DATE Feb 22 1986 HOLE NO NMO-86-187 LOCATION O.G. 75+10W 8+40N
L13+00W 2+00N
 GEOLOGIST ROOPDA DRILLER FORTIN BIT NO CB 67697 BIT FOOTAGE 454-66
 SHIFT HOURS _____ MOVE TO HOLE 11:55-12:00
 _____ TO _____ DRILL 12:00-3:00
 TOTAL HOURS _____ MECHANICAL DOWN TIME _____
 _____ DRILLING PROBLEMS _____
 CONTRACT HOURS _____ OTHER _____
 _____ MOVE TO NEXT HOLE _____

DEPTH IN FEET	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
				WATER DEPTH 78'
89				78-116.5 CLAY - soft green - brown interbed 102-112'
90				116.5-119 BOULDER - black & white granite - thin sand covering
100				119-123' TILL - 30% granitics, orange, pink, black & white - 70% volcanics, all greens - fine sandy grey matrix - trace of pyrite
120			01	123-125' BOULDER - medium green - fine grain - 5% pyrite
130			02	125-128' BEDROCK - light green - medium foliation - fine grain - 20% quartz - traces of pyrite
150				EOH 128'

BINOC. MICROSCOPE: strongly foliated with moderate quartz-sericite alteration, minor py mafic meta volcanic tuff? - fine grained.

OVERBURDEN DRILLING MANAGEMENT LIMITED
 REVERSE CIRCULATION DRILL HOLE LOG

DATE 22 Feb 1986

HOLE NO NMO-86-188

O.G. 78+70W 9+20N

LOCATION L16+50W - 3+70N

GEOLOGIST SHANNON

DRILLER BELLINER

BIT NO. LB67641

BIT FOOTAGE 579-711

SHIFT HOURS

MOVE TO HOLE 2:30 - 2:45

TO

DRILL 2:45 - 4:45

TOTAL HOURS

MECHANICAL DOWN TIME

CONTRACT HOURS

DRILLING PROBLEMS

OTHER

MOVE TO NEXT HOLE

DEPTH IN FEET	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
				83' WATER
				84' CASING
				83-128 - CLAY
				- grey
				- very soft
				- brown interbed at 110' - 120'
				128-129 - GRAVEL
				- 80% volcanic
				- 20% granitic
				- traces of pyrite
				129-132 - BEDROCK
				- 40% white
				- 60% volcanic
				- medium foliation
				- medium green
				- traces of pyrite
				E.O.H. 132'

BINOC. MICROSCOPE: medium grained, moderately foliated gabbro minor py.

OVERBURDEN DRILLING MANAGEMENT LIMITED
 REVERSE CIRCULATION DRILL HOLE LOG

DATE FEB 22 19 86 HOLE NO NMO 86 189 LOCATION O.G. 72+90W 15+35 N
L 9+00 W - 8+00 N
 GEOLOGIST BLISS DRILLER FORTIN BIT NO. CB67642 BIT FOOTAGE 662-67
 SHIFT HOURS _____ MOVE TO HOLE 3:00 to 3:15
 _____ TO _____ DRILL 3:15 to 3:50
 TOTAL HOURS _____ MECHANICAL DOWN TIME _____
 _____ DRILLING PROBLEMS _____
 CONTRACT HOURS _____ OTHER _____
 _____ MOVE TO NEXT HOLE _____

DEPTH IN METRES	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
0	W			WATER 11'
1	W			ICE 19"
2	W			11 to 13 feet NO RETURN (CLAYS)
3				13 to 15 feet TILL
4	A.F.	01		FINE GRAY SANDY MATRIX
5	EDH	02		60% GRANITIC
6				40% VOLCANIC
7				PEBBLY
8				15 feet BEDROCK
9				MEDIUM GRAINED
10				MEDIUM GREEN
11				MAFIC INTRUSIVE
12				(GABBROIC)
13				LITTLE TO NO FOLIATION
14				E.O.H. 17 feet
15				BINOC. MICROSCOPE: grey green,
16				finely laminated buff, schistoid,
17				minor quartz eyes, minor py
18				
19				
20				
21				
22				
23				
24				
25				
26				
27				
28				
29				
30				

A.I.S

OVERBURDEN DRILLING MANAGEMENT LIMITED
REVERSE CIRCULATION DRILL HOLE LOG

DATE FEB 23 1986 HOLE NO NMO-86-190 LOCATION OG 80+13 W 10+50N 17+35 W 5+25 N
 GEOLOGIST D. JAMIESON DRILLER A. BELL (VEAR) BIT NO. CB67641 BIT FOOTAGE 711-861
 SHIFT HOURS _____ MOVE TO HOLE _____
 _____ TO _____ DRILL 9:00 - 11:30
 TOTAL HOURS _____ MECHANICAL DOWN TIME _____
 _____ DRILLING PROBLEMS _____
 CONTRACT HOURS _____ OTHER _____
 _____ MOVE TO NEXT HOLE _____

DEPTH IN FEET	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
				87' WATER 84' CASING
				87' - 102' No Return CLAY
				102' - 112' grey clay
				112' - 122' brown clay
20				122' - 132' grey clay
				132' - 142' grey clay
				TILL
				144' fine grey sandy matrix pebbly 50% volcanics 50% granites
				<u>BEDROCK</u>
40				148' 2 types
				① medium green, moderately foliated, fine grained mafic volcanic or tuff.
60				② grey to beige, medium grained felsic tuff, strongly foliated/laminated
				150' E.D.H.
				<i>David Jamieson</i>
80				In mic. It - med grey-green + tan, schistose, strongly laminated, rusty oxidized surfaces observed (presence of Fe-cnts). Chlorite-sericite schist.

OVERBURDEN DRILLING MANAGEMENT LIMITED
 REVERSE CIRCULATION DRILL HOLE LOG

DATE Feb 22 1986 HOLE NO NMO-86-191 LOCATION OG. 72+35 W 13+40 N
L9+00 W - 6+00 N
 GEOLOGIST BOERDA DRILLER FORTIN BIT NO CB 67642 BIT FOOTAGE 679-710
 SHIFT HOURS _____ MOVE TO HOLE 3:57 - 4:00
 _____ TO _____ DRILL 4:00 - 4:35
 TOTAL HOURS _____ MECHANICAL DOWN TIME _____
 _____ DRILLING PROBLEMS _____
 CONTRACT HOURS _____ OTHER _____
 _____ MOVE TO NEXT HOLE _____

DEPTH IN FEET	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
				WATER DEPTH 27'
20				27-36' CLAY - green, soft brown interbed
				36-37' TILL - 50% granitics, orange black and white - 50% volcanics, medium & dark green - fine grey sandy matrix - cobbly
40			01 02	37-39' BEDROCK - dark green - medium grain - no foliation - 5% quartz
60				EOH 39'

C. Boerda

BINOC. MICROSCOPE: moderately foliated, moderately grained gabbro, tan flecking, silicification
 minor py

711
 OVERBURDEN DRILLING MANAGEMENT LIMITED
 REVERSE CIRCULATION DRILL HOLE LOG

DATE FEB. 23 19 86

HOLE NO. NMO-86-192 LOCATION BASE LINE 5+00 W
 O.G. 66+90 W 8+80 N

SHIFT HOURS _____

GEOLOGIST X DRILLER A.B. BIT NO. CR 6764 BIT FOOTAGE 861-977

TO _____

MOVE TO HOLE 11:30-12:00

TOTAL HOURS _____

DRILL 12:00-2:00

CONTRACT HOURS _____

MECHANICAL DOWN TIME _____

DRILLING PROBLEMS _____

OTHER _____

MOVE TO NEXT HOLE _____

DEPTH IN FEET	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
				WATER DEPTH = 67ft. 64' of casing
30				NO RETURN 67'to 82'
40				CLAY 82' to 109' -grey -soft and smooth
50				TILL 109' to 109.5' -fine sand matrix -70% Granitics 30% Vol.
60				BOULDER 109.5' to 110' -granitics
70				TILL 110' to 114' -coarse sand matrix -70% Granitics 30% Vol.
80				BEDROCK 114' to 116' -medium green -mafic Vol. -strongly foliated

90				-small amount of quartz
00				E.O.H. = 116ft.
10				NOTE: Sample No. 1 = 109.5' No. 2 = 114' BEDROCK No. 3 = 116'
20				br. mc. med. green mafic, chlorite schist, strongly laminated.

OVERBURDEN DRILLING MANAGEMENT LIMITED
REVERSE CIRCULATION DRILL HOLE LOG

DATE FEB 22 1986 HOLE NO NMD-86-193 LOCATION O.G. 71+85W 11+50N
L 9+00 W-4+00N
 GEOLOGIST BLISS DRILLER DESROSIERS BIT NO. CB67642 BIT FOOTAGE 718-806
 SHIFT HOURS _____ MOVE TO HOLE 4:35 to 4:40
 _____ TO _____ DRILL 4:40 to 5:50
 TOTAL HOURS _____ MECHANICAL DOWN TIME _____
 _____ DRILLING PROBLEMS _____
 CONTRACT HOURS _____ OTHER _____
 _____ MOVE TO NEXT HOLE _____

DEPTH IN FEET	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
				WATER 53' CASING 64'
				53 to 62 feet NO RETURN ASSUMED SATURATED CLAYS
				62 to 72 feet CLAY GRAY SOFT AND SMOOTH
20				72 to 80 feet CLAY BROWN SOFT AND SMOOTH
				80 to 83 feet TILL PEBBLY (FEW COBBLES)
				FINE SANDY GRAY MATRIX 70% GRANITIC 30% VOLCANIC TRACE OF PYRITE
40				83 feet BEDROCK DARK GREEN MILD FOLIATION FINE TO MEDIUM GRAIN 15% CARBONATE (QUARTZ) TRACE OF BANDING OF BLACK AND GREEN MINERALS
60				E.O.H. 86 feet fin. mic - med. green. f.g., mod. weak foliation, mafic rebovolcanic (tan flecking).
80			01	

OVERBURDEN DRILLING MANAGEMENT LIMITED
 REVERSE CIRCULATION DRILL HOLE LOG

DATE FEB 23 1986 HOLE NO NM0-86-194 LOCATION OG. 67+40W 10+75N
 GEOLOGIST D. JAMISON DRILLER A. BELLIVIERA BIT NO. CB67641 BIT FOOTAGE 977-1059
 SHIFT HOURS _____ MOVE TO HOLE 2:10-2:15
 _____ TO _____ DRILL 2:15-3:30
 TOTAL HOURS _____ MECHANICAL DOWN TIME _____
 _____ DRILLING PROBLEMS _____
 CONTRACT HOURS _____ OTHER _____
 _____ MOVE TO NEXT HOLE _____

DEPTH IN FEET	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
				WATER 53' CASING 54'
				<u>CLAY</u> 52'-62' grey clay followed by chocolate brown clay
20				62'-72' grey clay
				72'-78' grey clay
				<u>TILL</u> 78' fine grey sandy matrix pebbly 50% quartzites 50% volcanics
40				<u>BEDROCK</u> 80' very strongly foliated, silicified sericite schist white-beige-brown 5-10% massive milky white qtz.
60				82' E.O.H.
				bin. mic. lt-red grey-green + tan, strongly laminated, sericite shear (schistose). Colour banding marked.
80			01	82'-84' calcite-sericite schist, no Fe-ox. oxidation observed.
			02	

OVERBURDEN DRILLING MANAGEMENT LIMITED
 REVERSE CIRCULATION DRILL HOLE LOG

O.G. 69+90W 12+20N

DATE 23 Feb. 1986

HOLE NO NMO 86-195 LOCATION L7+00W - 4+00N
 GEOLOGIST SHANNON DRILLER FORTIN BIT NO. CB67642 BIT FOOTAGE 804-856

SHIFT HOURS
 _____ TO _____

MOVE TO HOLE 9:00 - 9:30

TOTAL HOURS

DRILL 9:30 - 10:45

CONTRACT HOURS

MECHANICAL DOWN TIME _____

DRILLING PROBLEMS _____

OTHER _____

MOVE TO NEXT HOLE _____

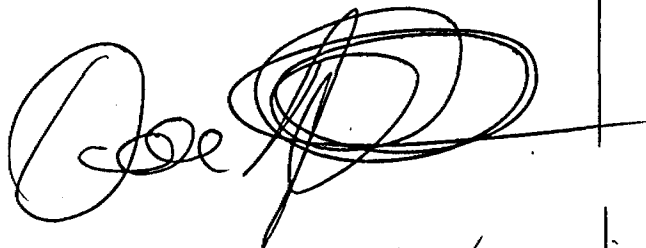
DEPTH IN FEET	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
0	W			44' WATER
0	W			44' CASING
0	W			40-51- No RETURN
0	W			51-51½ - TILL
20	W			- fine grey sand matrix
	W			- 50% gneissic
	W			- 50% volcanic
	W			- pebbly
40	W			51½-54 - BEDROCK
	W			- highly foliated
	W			- 20% white
	W			- medium green
	W		01	54- E.O.H.
60				
80				

James Shannon

fin. mic. med. green, schistose,
 strongly laminated, frag.
 Schistose mafic metavolcanic

OVERBURDEN DRILLING MANAGEMENT LIMITED
 REVERSE CIRCULATION DRILL HOLE LOG

DATE MARCH 5, 1986 HOLE NO NMO-86-196 LOCATION L 25+60W 0+50N
 GEOLOGIST X DRILLER BELLIVEAU BIT NO. C867691 BIT FOOTAGE 1059-109
 SHIFT HOURS _____ MOVE TO HOLE 9:00-10:30
 _____ TO _____ DRILL 10:30-11:30
 TOTAL HOURS _____ MECHANICAL DOWN TIME _____
 _____ DRILLING PROBLEMS _____
 CONTRACT HOURS _____ OTHER _____
 _____ MOVE TO NEXT HOLE _____

DEPTH IN FEET	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
0	u			H ₂ O = 17ft
5	u			NO RETURN 17' to 32'
10	u			CLAY 32' to 32'3"
15	u			- grey brown
20	u			- soft and smooth
25	u			TILL 32'3" to 33'
30	u			- fine sand matrix
35	u			- 50% Vol. 50% Granitics
40	u			BEDROCK 33' to 34'
45	u			- medium to dark green
50	u			- mafic Vol.
55	u			- some pyrite
60	u			- 1% quartz
65	u			(SMALL SAMPLE)
70	u			E. O. H. 34ft.
75	u			NOTE: ICE SAGGING AND CRACKING
80	u			WORRIED RIG WILL GO THROUGH!
85	u			
90	u			BINOC. MICROSCOPE: fine to medium
95	u			grained, moderately foliated gabbro
100	u			or quartz gabbro

NOTE: SAMPLE NO. 1 = 32'6"
 NO. 2 = 34'

OVERBURDEN DRILLING MANAGEMENT LIMITED
 REVERSE CIRCULATION DRILL HOLE LOG

DATE Feb 23 19 86 HOLE NO NM0-86-97 LOCATION Q 70+40W 14+10N
L 7+00W 6+00N
 GEOLOGIST ROBERTA DRILLER FORTIN BIT NO. CR67142 BIT FOOTAGE 858-915
 SHIFT HOURS _____ MOVE TO HOLE 10:45 - 10:55
 _____ TO _____ DRILL 10:55 - 12:30
 TOTAL HOURS _____ MECHANICAL DOWN TIME _____
 _____ DRILLING PROBLEMS _____
 CONTRACT HOURS _____ OTHER _____
 _____ MOVE TO NEXT HOLE _____

DEPTH IN FEET	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
				WATER DEPTH 30'
0	4			
10	4			
20	4			30-48.5' CLAY -soft green -firm chocolate brown interbed at 50'
30	4			
40	4			48.5-54.5' TILL -50% granitics, mostly orange -50% volcanics, medium to dark green -cobble -fine grey sandy matrix -traces of pyrite
50	4			
54.5	Δ Δ		01	54.5-57 BEDROCK -dark green -medium grain -no foliation -5% carbonate in veins
57	Δ Δ		02	
60	EOH			EOH 57'
70				
80				

P. Fortin

bin. mic. dk green, fg.-m.g., massive,
 probable qtz grains, mafic flow/
 intrusive?

OVERBURDEN DRILLING MANAGEMENT LIMITED
REVERSE CIRCULATION DRILL HOLE LOG

DATE MARCH 5 19 86 HOLE NO NMO-86-198 LOCATION L 24 + 00W - 1 + 00N
 GEOLOGIST BLISS DRILLER BELLIVEAU BIT NO. CB6764-1 BIT FOOTAGE 1093-112
 SHIFT HOURS _____ MOVE TO HOLE 11:30 to 12:00
 _____ TO _____ DRILL 12:00 to 2:30
 TOTAL HOURS _____ MECHANICAL DOWN TIME _____
 _____ DRILLING PROBLEMS _____
 CONTRACT HOURS _____ OTHER 12:00 to 12:15 REMOVE RODDER LINE FROM DRILL
 _____ MOVE TO NEXT HOLE _____

DEPTH IN FEET	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
21	~			21' WATER
20"	~			20" ICE
21 to 22	~			NO RETURN
22 to 29	~			CLAY GRAY SOFT AND SMOOTH.
29 to 30.5	~			TILL FINE GRAINED SANDY MATRIX (GRAY) 60-70% GRANITICS 30-40% VOLCANICS
30.5 to 31	~			BOULDER GRANITIC
31 to 32	~		01 02	LODGEMENT TILL 90% VOLCANIC 10% GRANITIC PEBBLY LITTLE TO NO MATRIX
32 to 34	~			BEDROCK FINE TO MEDIUM GRAINED LIGHT TO MEDIUM VOLCANICS (GREENSTONE) WITH MILD TO MODERATE FOLIATION HIGH SILICA CONTENT (VERY HARD) LIGHT GRAY TO PALE PINK FELSIC MINERAL CONTENT TRACE OF PYRITE APPARENT BANDING OF LIGHT AND DARK MINERALS. TRACE OF OXYDATION ON VOLCANICS.
E.O.H.	~			34 feet

OVERBURDEN DRILLING MANAGEMENT LIMITED
 REVERSE CIRCULATION DRILL HOLE LOG

DATE 23 Feb 1986

HOLE NO NMO-86-199 LOCATION 70+90W 16+00N
L7+00W - 8+00N

SHIFT HOURS
 TO

GEOLOGIST SHANNON DRILLER KORTIN BIT NO. CB67642 BIT FOOTAGE 915-941
 MOVE TO HOLE 12:30-12:45

TOTAL HOURS

DRILL 12:45-2:15
 MECHANICAL DOWN TIME

CONTRACT HOURS

DRILLING PROBLEMS
 OTHER

MOVE TO NEXT HOLE

DEPTH IN FEET	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
0-13	W			13' WATER
13-17	CLAY			13-17- CLAY - grey - very soft
17-22	TILL			17-22- TILL - fine grey sand matrix - 40% granitic - 60% volcanic - traces of pyrite
22-24	GRAVEL			22-24- GRAVEL - 40% granitic - 60% volcanic - no matrix - cobbly
24-26	BEDROCK			24-26- BEDROCK - mild foliation - medium-dark green - medium grain

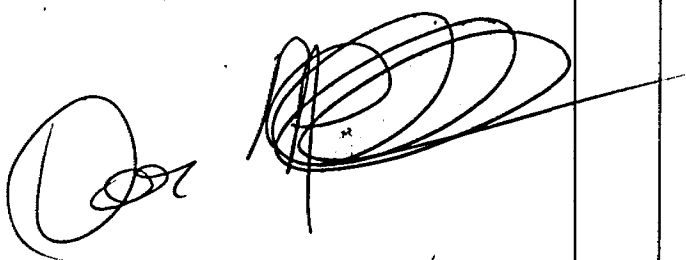
bin. mic. med-dk green, massive,
 fg-gr., m. g. flow / intrusive
 (gabbroid)

OVERBURDEN DRILLING MANAGEMENT LIMITED
REVERSE CIRCULATION DRILL HOLE LOG

DATE MARCH 5, 19 86 HOLE NO NMD-86-200 LOCATION L 22+20W 1+20N
 GEOLOGIST X DRILLER BELLIVEAU BIT NO. 8881 BIT FOOTAGE 1127-116
 SHIFT HOURS _____ MOVE TO HOLE 2:30-2:45
 _____ TO _____ DRILL 2:45-4:30
 TOTAL HOURS _____ MECHANICAL DOWN TIME _____
 _____ DRILLING PROBLEMS _____
 CONTRACT HOURS _____ OTHER _____
 _____ MOVE TO NEXT HOLE _____

DEPTH IN FEET	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
0				H ₂ O = 32 ft.
0-32				CLAY 32' to 37' - grey - soft and smooth
32-37				TILL 37' to 38' - fine sand matrix - 40% Vol. 60% Granitics - some quartz
37-38				BEDROCK 38' to 40' - light green - mafic Vol. - 30% quartz (SMALL SAMPLE)
38-40				E.O.H. 40ft NOTE: ICE SAGGING MOVED RIG SO IT WOULDN'T SINK!
40				
40-45				
45-50				
50-55				
55-60				
60-65				
65-70				
70-75				
75-80				
80-85				
85-90				
90-95				
95-100				
100-105				
105-110				
110-115				
115-120				
120-125				
125-130				
130-135				
135-140				
140-145				
145-150				
150-155				
155-160				
160-165				
165-170				
170-175				
175-180				
180-185				
185-190				
190-195				
195-200				

NOTE: SAMPLE N°1 = 38'
N°2 = 40'



BINOC. MICROSCOPE: fine grained, light green.
 strongly foliated, strongly altered
 (quartz-sericite, carbonate?) mafic
 meta-volcanic.
 (chlorite schist)

OVERBURDEN DRILLING MANAGEMENT LIMITED
 REVERSE CIRCULATION DRILL HOLE LOG

O.G. 68+45 W 14+60 N

DATE Feb 23 1986

HOLE NO NM0-86-21 LOCATION L 5+00 W 6+00 N
 GEOLOGIST BOORDA DRILLER FORTIN BIT NO. C367642 BIT FOOTAGE 941-960

SHIFT HOURS
 _____ TO _____

MOVE TO HOLE 2:15 - 2:30
 DRILL 2:30 - 3:45

TOTAL HOURS

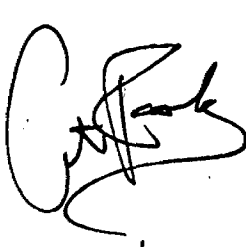
MECHANICAL DOWN TIME _____

CONTRACT HOURS

DRILLING PROBLEMS _____

OTHER _____

MOVE TO NEXT HOLE _____

DEPTH IN FEET	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
				WATER DEPTH 16'
16	ε			16-17' TILL
17	ε			-50% granitics
18	ε			-50% volcanics
19	ε			-traces of pyrite
20	ε			- fine sandy grey matrix
	ε			- pebbly
	ε			17-19' BEDROCK
	ε			- dark green
	ε			- no foliation
	ε			- medium grain
	ε			- very hard
	ε			- traces of carbonate
	ε			EOH 19'
	ε			
	ε			fin. nic. med-dk green, n.g., crystalline, massive, medium intrusive (gabbroid)
80				

OVERBURDEN DRILLING MANAGEMENT LIMITED
 REVERSE CIRCULATION DRILL HOLE LOG

DATE MARCH 6 19 86

SHIFT HOURS
 _____ TO _____

TOTAL HOURS

CONTRACT HOURS

HOLE NO NMO-86-302 LOCATION h 20+30W - 2+50N
 GEOLOGIST X DRILLER BELLIVEAU BIT NO. 216-87 BIT FOOTAGE 1167-125

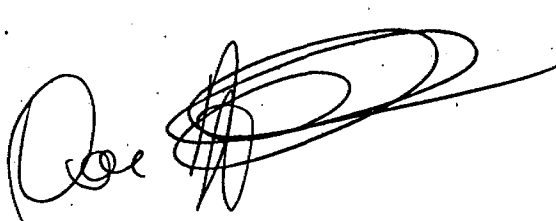
MOVE TO HOLE _____
 DRILL 8:30 - 12:00

MECHANICAL DOWN TIME _____

DRILLING PROBLEMS _____

OTHER _____

MOVE TO NEXT HOLE _____

DEPTH IN FEET	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG						
0	W			42' of water	NOTE: Sample No. 1 = 85' No. 2 = 87'					
0	W			44' of casing						
0	W			NO RETURN 42' to 62'						
0	W			CLAY 62' to 82'						
0	W			-grey						
20	W			-soft and smooth						
0	W			TILL 82' to 85'						
0	W			-fine sand matrix						
0	W			-50% Vol. 50% Granitics						
0	W			-small amount of quartz						
40	W			BEDROCK 85' to 87'						
0	W			-medium to dark green						
0	W			with 50% pink chips						
0	W			-mafic Vol.						
0	W			-86 feet, medium to dark						
0	W			green with 40% light						
0	W			yellow chips 10% pink						
0	W			chips						
0	W			E.O.H. 87ft.						
0	W									
80	W									
0	W									
0	W									
0	W									

BINOC. MICROSCOPE: strongly
 foliated, fine grained strongly altered
 (quartz, sericite, carbonate) mafic
 metavolcanic (chlorite schist)

OVERBURDEN DRILLING MANAGEMENT LIMITED
 REVERSE CIRCULATION DRILL HOLE LOG

OG. 67+95 W 12+65 N

DATE 23 Feb 1986

HOLE NO NMD-86-203 LOCATION 67+95 W - 12+65 N

GEOLOGIST SHANNON DRILLER FORTIN BIT NO CB6764 BIT FOOTAGE 0.28

SHIFT HOURS
 TO

MOVE TO HOLE 3:45 - 4:00
 DRILL 4:00 - 5:15

TOTAL HOURS

MECHANICAL DOWN TIME

CONTRACT HOURS

DRILLING PROBLEMS

OTHER New BIT

MOVE TO NEXT HOLE

DEPTH IN FEET	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
0				24' WATER
24				24-28- BEDROCK
25				- highly foliated
26				- 20% white
27				- medium green
28				- fine grain
28			01	28' E.O.H.
40				James Graham
60				bin. mic. red. green green, laminated schistose, f.g., radii chlorite schist.
80				

OVERBURDEN DRILLING MANAGEMENT LIMITED
REVERSE CIRCULATION DRILL HOLE LOG



DATE MAR 6 1986 HOLE NO NMO-86-204 LOCATION L 18400W 2130N
 GEOLOGIST D. JAMIESON DRILLER A. BELLIVEAU BIT NO. OLD BIT BIT FOOTAGE 1254-13
 SHIFT HOURS _____ MOVE TO HOLE 12:00-12:30 CB67641
 _____ TO _____ DRILL 12:30-2:30
 TOTAL HOURS _____ MECHANICAL DOWN TIME _____
 CONTRACT HOURS _____ DRILLING PROBLEMS _____
 _____ OTHER _____
 _____ MOVE TO NEXT HOLE _____

DEPTH IN FEET	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
				39' WATER
				44' CASING
				39'-42' No Return
				<u>CLAY</u>
				42'-52' grey clay
				52'-62' grey clay followed by
				chocolate brown clay
				62'-74' grey clay
				<u>TILL</u>
				74'-78' fine grey sandy matrix
				pebbly 75% volcanics
				25% granitics
				<u>GRAVEL</u>
				78'-84' clean, poor to medium
				moderately sorted, angular pebbles
				70% volcanics
				30% granitics
				<u>TILL</u>
			01	84'-85' fine grained sandy matrix
			02	pebbly 80% volcanics
			03	20% granitics
			04	<u>BEDROCK</u>
				85' strongly foliated
				med-green, mafic metavolcanic
				(chlorite schist)
				15% qtz-sericite alteration
				minor carbonate, trace py
				87' E.O.H.

FINC. MICROSCOPE: strongly foliated,
 fine grained, moderately altered (quartz, sericite, carbonate)
 mafic metavolcanic
 (chlorite schist)

OVERBURDEN DRILLING MANAGEMENT LIMITED
 REVERSE CIRCULATION DRILL HOLE LOG

DATE MAR. 5 1986 HOLE NO NMO-86-205 LOCATION 2+50 W 6+60 N
 GEOLOGIST ROZDA DRILLER FORTIN BIT NO CB674E BIT FOOTAGE 28-38'
 SHIFT HOURS _____ MOVE TO HOLE _____
 _____ TO _____ DRILL 11:40-12:35
 TOTAL HOURS _____ MECHANICAL DOWN TIME _____
 _____ DRILLING PROBLEMS _____
 CONTRACT HOURS _____ OTHER 8:30-11:40 set up
 _____ MOVE TO NEXT HOLE _____

DEPTH IN FEET	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
				WATER DEPTH 6'
			01	6-10' BEDROCK - surface oxidized, light orange - after 6.5' - light green - translucent - medium grain - no foliation EOW 10'  BINOC. MICROSCOPE: dull white, siliceous crystalline, possibly felsic dyke
20				
40				
60				
80				

DATE MARCH 6 19 86

SHIFT HOURS
TO

TOTAL HOURS

CONTRACT HOURS

HOLE NO NMO-86-206 LOCATION APPROX. 15+80W - 2+50N
GEOLOGIST X DRILLER A.B. BIT NO. ^{CB67641} 265 BIT BIT FOOTAGE 1341-139.
MOVE TO HOLE 2:30-3:00
DRILL 3:00-6:00
MECHANICAL DOWN TIME _____
DRILLING PROBLEMS _____
OTHER _____
MOVE TO NEXT HOLE _____

DEPTH IN FEET	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
	W			44' of casing
	W			
	W			
	W			
	W			CLAY 42' to 44'
	W			- grey
	W			- soft and smooth
20	W			TILL 44'
	W			- fine sand matrix
	W			(not enough for sample)
	W			BOULDER 44' to 45'
	W			- granodiorite
40	W			BOULDER 45' to 45.5'
	W			- granite
	W			
	W			
	W			CLAY 45.5' to 49'
	W			- grey hard and gritty
	W			- mixed with Vol. chips
60	W			TILL 49' to 51.5'
	W			- hard clay matrix
	W			BOULDER 51.5' to 52'
	W			- granodiorite
	W			
80	W			E.O.H. 52
	W			
	W			HOLE STOPPED BECAUSE
	W			WATER LEVEL RISING
	W			OUTSIDE RIG!

SAMPLE N^o 1 = 52'

HOLE STOPPED BECAUSE
WATER LEVEL RISING
OUTSIDE RIG!

OVERBURDEN DRILLING MANAGEMENT LIMITED
REVERSE CIRCULATION DRILL HOLE LOG

DATE Feb 5 19 86 HOLE NO NHO-85207 LOCATION 1+90 W 4+10N
 GEOLOGIST ECORDA DRILLER PORTIN BIT NO. CD6745 BIT FOOTAGE 58-69
 SHIFT HOURS _____ MOVE TO HOLE 12:35 - 12:45
 _____ TO _____ DRILL 12:45 - 2:00
 TOTAL HOURS _____ MECHANICAL DOWN TIME _____
 _____ DRILLING PROBLEMS _____
 CONTRACT HOURS _____ OTHER _____
 _____ MOVE TO NEXT HOLE _____

DEPTH IN FEET	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
				WATER DEPTH 16'
				16-26' TILL
				- 70% granitics, orange & white
				- 30% volcanics, dark green
				- fine grey sandy matrix
				- pebbly
20	△△		01	
	△△		02	
	△△		03	
				26-31' BEDROCK
				- high foliation
				- very fine grain
				- shistose
				- medium green
				- crumbly
				- 30% quartz
				EOH 31'
40				
60				
80				

St. Paul

BINOC. MICROSCOPE: fine grained, strongly foliated, weakly altered (quartz, sericite, carbonate) mafic meta volcanic (chlorite schist)

OVERBURDEN DRILLING MANAGEMENT LIMITED
REVERSE CIRCULATION DRILL HOLE LOG

DATE MARCH 7 19 86

HOLE NO NM-86-208 LOCATION APPROX. L 14+50N - 2+30N

SHIFT HOURS
TO

GEOLOGIST X DRILLER BELLIVEAU BIT NO. O.B. BIT FOOTAGE 1393-141
CB67641


TOTAL HOURS

MOVE TO HOLE
DRILL 11:00-12:30

CONTRACT HOURS

MECHANICAL DOWN TIME
DRILLING PROBLEMS
OTHER EVERYTHING FROZEN 8:00-11:00

MOVE TO NEXT HOLE

DEPTH IN FEET	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
12	~			CLAY 12' to 17'
13	~			- grey
14	~			- soft and smooth
15	~			
16	~			
17	~			TILL 17' to 20'
18	~			- fine sand matrix
19	~			- 60% Granitics
20	~			40% Vol.
20	~		01	
20	~		02	
20	~			BEDROCK 20' to 21'
21	~			- dark green
22	~			- mafic Vol.
23	~			(SMALL SAMPLE)
24	~			E.O.H. 21ft.
25	~			
26	~			BINOC. MICROSCOPE: fine to medium
27	~			grained, weakly foliated to moderately
28	~			foliated gabbro
29	~			
30	~			

SAMPLE NO. 1 = 20'
NO. 2 = 21'

OVERBURDEN DRILLING MANAGEMENT LIMITED
REVERSE CIRCULATION DRILL HOLE LOG

DATE 5 March 1986

HOLE NO NMO-86-209 LOCATION 3470W 4400N

SHIFT HOURS
_____ TO _____

GEOLOGIST SHANNON DRILLER FORTIN BIT NO. C367645 BIT FOOTAGE 69-103

TOTAL HOURS

MOVE TO HOLE 2:00 - 2:15

DRILL 2:15 - 3:00

CONTRACT HOURS

MECHANICAL DOWN TIME _____

DRILLING PROBLEMS _____

OTHER _____

MOVE TO NEXT HOLE _____

DEPTH IN FEET	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
	W			26' WATER
	W			
	W			26' - 31' - TILL
	W			- Pebbly
	W			- 60% granitic
20	W			- 40% volcanic
	W			- fine grey sand matrix
	W			- traces of pyrite
	Δ Δ		01	
	Δ Δ		02	
	Δ Δ			
	Δ Δ			
40				31' - 34' - BEDROCK
				- highly foliated
				- medium green
				- 60% quartz
60				- 40% volcanic
				E.O.H. 34
				BINO. MICROSCOPE: ^{fine grained} strongly foliated
				fine grained, strongly altered (60% quartz,
				sericite, carbonate) mafic metavolcanic
				(chlorite schist)
80				

OVERBURDEN DRILLING MANAGEMENT LIMITED
REVERSE CIRCULATION DRILL HOLE LOG

DATE 8 March 1986

HOLE NO NMO-86-210 LOCATION L87006 5+50N
GEOLOGIST SHANNON DRILLER FORTIN BIT NO. CB67645 BIT FOOTAGE 613-694

SHIFT HOURS
TO

MOVE TO HOLE 8:30 - 8:45
DRILL 8:45 - 11:00

TOTAL HOURS

MECHANICAL DOWN TIME

CONTRACT HOURS

DRILLING PROBLEMS

OTHER

MOVE TO NEXT HOLE

DEPTH IN FEET	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
0-32	W			32' WATER
32-44	W			32'-44' CLAY - grey - very soft
44-47	W			44'-47' TILL - 80% volcanic - 20% granitic - occasional piece of quartz - fine grey sand matrix - pebbly (occasional delicate piece) - boulder at 45 1/2 - 46 - granite - traces of pyrite
47-51	W		02	47'-51' BEDROCK - medium green - medium foliation - 60% carbonate or quartz (contains mica) - 40% volcanic
51-51.6	W			51- E.O.H.

BINOC. MICROSCOPE: Strongly foliated
strongly silicified (20% milky white quartz)
fine grained mafic meta volcanic
(chlorite schist)

OVERBURDEN DRILLING MANAGEMENT LIMITED
REVERSE CIRCULATION DRILL HOLE LOG

DATE 5 March 1986

HOLE NO NMG-86-211 LOCATION 5770W - 3+50N

SHIFT HOURS
TO

GEOLOGIST SHANNON DRILLER FORTIN BIT NO. 586764B BIT FOOTAGE 103-135

TOTAL HOURS

MOVE TO HOLE 3:00 - 3:15
DRILL 3:15 - 3:40

CONTRACT HOURS

MECHANICAL DOWN TIME _____
DRILLING PROBLEMS _____
OTHER _____
MOVE TO NEXT HOLE _____

DEPTH IN FEET	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
				23' WATER
				23-28 1/2 - GRITTY CLAY
				28 1/2 - 32 1/2 - TILL
20				- 10% quartz
				- 45% granite
				- 45% volcanic
			01	- traces of pyrite
40			02	- fine grey sand matrix
				- pebbly
				32 1/2 - 36 - BEDROCK
				- medium green
60				- high foliation
				- high foliation schist
				- 100% volcanic
				- occasional oxidized piece
80				E.O.H. 36'

James Shannon
BIOC. MICROSCOPE: strongly foliated
medium green, moderately altered (quartz, sericite, carbonate)
fine gr mafic metavolcanic!
(chlorite schist)



OVERBURDEN DRILLING MANAGEMENT LIMITED
REVERSE CIRCULATION DRILL HOLE LOG

DATE MARCH 8 1986 HOLE NO NMO 86-212 LOCATION L 12 E - 5+50 N
 GEOLOGIST BLISS DRILLER FERTIN BIT NO. CB67645 BIT FOOTAGE 694.7
 SHIFT HOURS _____ MOVE TO HOLE 9:50 to 10:00
 _____ TO _____ DRILL 10:00 to 11:10
 TOTAL HOURS _____ MECHANICAL DOWN TIME _____
 CONTRACT HOURS _____ DRILLING PROBLEMS _____
 _____ OTHER _____
 _____ MOVE TO NEXT HOLE _____

DEPTH IN FEET	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
				35' WATER
				35 to 42 feet NO RETURN
				42 to 47 feet CLAY
				GRAY, SOFT AND SMOOTH
				47 to 50 feet TILL
20				PERBLY
				50% VOLCANICS
				50% GRANITICS
				FINE SANDY GRAY MATRIX.
				50 to 55 feet BEDROCK
				FINE GRAINED
				MEDIUM GREEN
				HEAVILY FOLIATED CALORITE
40				SCHIST WITH 10 to 15%
				QUARTZ
				LINATION IS APPARENT
				HIGH SILVER/GRAY SHEEN
				TO ROCK CHIPS.
			01	
			02	
				E.O.H. 55 feet
60				
				INCL. MICROSCOPE: strongly
				foliated, light green, moderately
				altered (quartz, calcite, sericite)
				5-10% quartz, trace py
				fine gr. mafic metavolcanic
80				(chlorite schist)

OVERBURDEN DRILLING MANAGEMENT LIMITED
REVERSE CIRCULATION DRILL HOLE LOG

DATE Feb 5 1986 HOLE NO NMO-86-213 LOCATION 7+80 W 3+40 N
 GEOLOGIST ROBERTA DRILLER FORTIN BIT NO. C86767 BIT FOOTAGE 159-161
 SHIFT HOURS _____ MOVE TO HOLE 3:40-3:45
 _____ TO _____ DRILL 3:45-4:20
 TOTAL HOURS _____ MECHANICAL DOWN TIME _____
 _____ DRILLING PROBLEMS _____
 CONTRACT HOURS _____ OTHER _____
 _____ MOVE TO NEXT HOLE _____

DEPTH IN FEET	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
				WATER DEPTH 17'
				17-17.5' TILL
				- poor return
				- no sample
20			01	17.5 - 22' BEDROCK
				- light green
				- med to high foliation
				- very fine grain
				- traces of quartz
				- 5% carbonate
40				EOH 22'
60				
80				BINOC. MICROSCOPE: fine grained, strongly foliated, weak to moderately altered (quartz, sericite, carbonate) mafic metavolcanic (chlorite schist)

OVERBURDEN DRILLING MANAGEMENT LIMITED
REVERSE CIRCULATION DRILL HOLE LOG

DATE 8 March 1986

HOLE NO Nmo-86-214 LOCATION L12+00E - 7+50N

SHIFT HOURS
TO

GEOLOGIST SHANNON DRILLER FORTIN BIT NO. CB67627 BIT FOOTAGE 749-78

TOTAL HOURS

MOVE TO HOLE 11:10 - 11:20

DRILL 11:20 - 12:15

CONTRACT HOURS

MECHANICAL DOWN TIME

DRILLING PROBLEMS

OTHER

MOVE TO NEXT HOLE

DEPTH IN FEET	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
				35' WATER
				36'-37 1/2' TILL
				- 20% granitic
				- 80% volcanic
				- traces of pyrite
				- pebbly
				- fine grey sand matrix
				- occasional piece of quartz
40	AAA		01	
	///		02	
				37 1/2' - 39' BEDROCK
				- medium foliation
				- grey
				- 5% carbonate
				- fine grain
				E.O.H. 39

James Shann

BINOC. MICROSCOPE: fine grained, grey, moderately foliated felsic to intermediate tuff?

DATE 5 March 1986

HOLE NO NMO-86-215 LOCATION L8720W - 4440N
GEOLOGIST SHANNON DRILLER FORTIN BIT NO. CB67645 BIT FOOTAGE 161.221

SHIFT HOURS
_____ TO _____

MOVE TO HOLE 4:20 - 5:00
DRILL 5:00 - 5:45

TOTAL HOURS

MECHANICAL DOWN TIME

CONTRACT HOURS

DRILLING PROBLEMS
OTHER waited 1/2 hr for the tree farmer

MOVE TO NEXT HOLE

DEPTH IN FEET	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
0				36' WATER
36				36-56 1/2 CLAY
36				- grey
46				- brown interbed. at 46'-52'
56 1/2				- very soft
56 1/2				56 1/2-58. TILL
56 1/2				- fine grey sand matrix
56 1/2				- pebbly
56 1/2				- 45% granitic
56 1/2				- 45% volcanic
56 1/2				- 10% quartz
58			01	
58			02	
58				58-60 - BEDROCK
58				- light green
58				- highly foliated
58				- 100% volcanic
60				60' E.O.H.

James Shanon

BINOC. MICROSCOPE: strongly foliated, strongly altered (quartz, carbonate, sericite)
mafic metavolcanic
(chlorite schist)

OVERBURDEN DRILLING MANAGEMENT LIMITED
REVERSE CIRCULATION DRILL HOLE LOG

DATE MARCH 8 19 86 HOLE NO NMO 86-216 LOCATION L14+00 E 8+00N
 GEOLOGIST BLISS DRILLER FORTIN BIT NO. CB67645 BIT FOOTAGE 788-8
 SHIFT HOURS _____ MOVE TO HOLE 12:15 to 12:30
 _____ TO _____ DRILL 12:30 to 2:45
 TOTAL HOURS _____ MECHANICAL DOWN TIME _____
 CONTRACT HOURS _____ DRILLING PROBLEMS _____
 _____ OTHER _____
 _____ MOVE TO NEXT HOLE _____

DEPTH IN FEET	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
				WATER 35'
				35 to 41 feet NO RETURN
				41 SANDY CLAY (GRAY)
20				42 to 47 feet GRAY CLAY SOFT AND SMOOTH
				47 to 48 feet TILL PEBBLY FINE SANDY GRAY/GREEN MATRIX 60% VOLCANICS 40% GRANITICS
40				48 to 51 feet BEDROCK FINE GRAINED MEDIUM GREEN MILD TO NO FOLIATION MAFIC VOLCANIC 5 to 10% CARBONATE VERY HARD
			01	
			02	
				E. O. H. 51 feet. BINOC. MICROSCOPE: fine grained, massive to weakly foliated, medium green mafic metavolcanic
60				
80				

OVERBURDEN DRILLING MANAGEMENT LIMITED
REVERSE CIRCULATION DRILL HOLE LOG

DATE MARCH 6 1986

HOLE NO NMD-86-217 LOCATION L6+30 W - 6+75 N
GEOLOGIST BLISS DRILLER FORTIN BIT NO. CB67648 BIT FOOTAGE 221-287

SHIFT HOURS
_____ TO _____

MOVE TO HOLE 9:30 to 10:15
DRILL 10:15 to 12:30

TOTAL HOURS

MECHANICAL DOWN TIME _____

CONTRACT HOURS

DRILLING PROBLEMS _____
OTHER 8:00 to 9:30 DEFROST

MOVE TO NEXT HOLE _____

DEPTH IN FEET	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
				43 feet WATER
				54 feet CASING (N)
				43 to 62 ft. NO RETURN.
				61 feet TRACE OF GRAY CLAY RETURN.
20				62 feet CONTACT TILL PEBBLY 50% GRANITIC 50% VOLCANIC FINE GRAINED GRAY SANDY MATRIX
				63 feet BEDROCK FINE TO MEDIUM GRAINED SOMEWHAT GABBROIC (INTRUSIVE) MEDIUM GREEN 10-15% CARBONATE CONTENT TRACES OF BANDING OF LIGHT AND DARK MINERALS. MODERATE FOLIATION. AT 65.5 feet TRACE OF TAN MINERAL. LIKELY SERPENTINE.
				E.O.H. 66 feet
				BINOC. MICROSCOPE: fine grained to medium grained massive gabbro; weakly carbonatized.
80				

42-30
21-0

OVERBURDEN DRILLING MANAGEMENT LIMITED
REVERSE CIRCULATION DRILL HOLE LOG

DATE 8 March 19 86

HOLE NO NMO-86-218 LOCATION L141006 - 6100N
GEOLOGIST SHANNON DRILLER FORTIN BIT NO. CB67645 BIT FOOTAGE 839-87

SHIFT HOURS
TO

MOVE TO HOLE 2:45 - 3:00
DRILL 3:00 - 4:30

TOTAL HOURS

MECHANICAL DOWN TIME

CONTRACT HOURS

DRILLING PROBLEMS

OTHER

MOVE TO NEXT HOLE

DEPTH IN FEET	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
0				32' WATER
32				32' CASING
32				32' - 32' 4" - TILL
32.5				- fine grey sand
33				- high bedrock content
33.5				- traces of pyrite
34			01	
34.5			02	
36				32' 4" - 36' BEDROCK
36.5				- highly foliated
37				- 15% carbonate
37.5				- medium green
38				- 85% volcanic
36				36' E.O.H.
80				James Shana

BINOC. MICROSCOPE: *fine grained*
strongly foliated, moderately altered
(quartz, sericite, carbonate) mafic metavolcanic
(chlorite schist)

OVERBURDEN DRILLING MANAGEMENT LIMITED
REVERSE CIRCULATION DRILL HOLE LOG

DATE 6 March 1986 HOLE NO NMO-86-219 LOCATION L4+30W - 6+40N
 GEOLOGIST SHANNON DRILLER FORTIN BIT NO. CB67645 BIT FOOTAGE 287-332
 SHIFT HOURS _____ MOVE TO HOLE 12:30 - 1:00
 _____ TO _____ DRILL 1:00 - 2:30
 TOTAL HOURS _____ MECHANICAL DOWN TIME _____
 CONTRACT HOURS _____ DRILLING PROBLEMS _____
 _____ OTHER _____
 _____ MOVE TO NEXT HOLE _____

DEPTH IN FEET	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
				27' WATER
				27-36 - TILL
				- 60% volcanic
				- 40% granitic
				- fine grey sand matrix
				- traces of pyrite
				- pebbly
				36-42 - Cobble TILL
				- 80% volcanic
				- 20% granitic
				- traces of pyrite
				Note - possibly bedrock with till wash in
				42-45 - BEDROCK
				- medium green
				- medium grain
				- no foliation
				- 100% volcanic
				E.O.H. 45

Liam Shannon

BIND. MICROSCOPE: fine to medium grained, massive gabbro

OVERBURDEN DRILLING MANAGEMENT LIMITED
REVERSE CIRCULATION DRILL HOLE LOG

DATE Mar 9 19 86

SHIFT HOURS
____ TO ____

TOTAL HOURS

CONTRACT HOURS

HOLE NO NMO-86-22 LOCATION L44+20W 7+00N
GEOLOGIST ROORDA DRILLER ROBIN BIT NO. CB67627 BIT FOOTAGE 0-72
MOVE TO HOLE _____
DRILL: 09:00-11:00
MECHANICAL DOWN TIME _____
DRILLING PROBLEMS _____
OTHER NEW BIT - NEW SUB
MOVE TO NEXT HOLE _____

DEPTH IN FEET	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
				WATER 32
20	u			32-66.5' CLAY - soft green clay - brown interbed
	u			66.5-67.5' BOULDER - black, white, orange granite
40				67.5-69' TILK - 60% granitics; orange - 40% volcanics; medium to dark green - gravel interbeds - medium to fine grey sandy matrix
60				69-72' BEDROCK - dark green - fine grain - med. foliation - 5% carbonate
			01	EOH 72'
			02	
80				

C. Rooda

Bina. Microscope: Strongly
foliated fine grained, weakly
altered (quartz carbonate sericite)
Chlorite Schist

OVERBURDEN DRILLING MANAGEMENT LIMITED
REVERSE CIRCULATION DRILL HOLE LOG

DATE MARCH 6 1986 HOLE NO NMO-86-221 LOCATION L 10+60 W - 3+80 N
 GEOLOGIST BLISS DRILLER FORTIN BIT NO. CB67648 BIT FOOTAGE 332-390
 SHIFT HOURS _____ MOVE TO HOLE 3:00 to 3:30
 _____ TO _____ DRILL: 4:15 to 5:15
 TOTAL HOURS _____ MECHANICAL DOWN TIME _____
 CONTRACT HOURS _____ DRILLING PROBLEMS _____
 _____ OTHER 3:30 to 4:15 REPLACE LINE ON SKIDDER WINCH.
 _____ MOVE TO NEXT HOLE _____

DEPTH IN FEET	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
				35 feet WATER
				35 to 52 feet NO RETURN
				52 to 62 feet CLAY GRAY, SOFT AND SMOOTH.
				62 to 62.5 feet TILL PEBBLY
20				60% GRANITICS 40% VOLCANICS
				VERY THIN BED (< 6 INCHES)
				SAMPLE IS HEAVILY CONTAMINATED WITH BEDROCK MATERIAL FROM BENEATH TILL BED.
				FINE SANDY GRAY MATRIX.
40				62.5 feet BEDROCK
				HEAVILY FOLIATED CHLORITE SCHIST
				HIGH SILVER/GRAY SHEEN ON ROCK CHIPS.
				VERY FINE/MEDIUM GREEN
				5-10% CARBONATE (QUARTZ)
				BANDING OF WHITE AND GREEN MINERALS IS APPARENT.
				RELATIVELY LOW SILICIOUS MINERAL CONTENT (SOFT)
60				MILKY QUARTZ VEIN INTERSECTION AT 66.5 feet (INCREASED QUARTZ CONTENT)
			01 02	
				E.O.H. 67
80				<i>BINOC. MICROSCOPE: fine to medium grained, strongly foliated, strongly altered (quartz, sericite, carbonate) mafic metavolcanic or gabbro (chlorite schist)</i>

DATE 9 March 1986

HOLE NO NMO-86-222 LOCATION L46100W - 6406N
 GEOLOGIST SHANNON DRILLER FORTIN BIT NO. CB67627 BIT FOOTAGE 72-126
 MOVE TO HOLE 11:00 - 11:15
 DRILL 11:15 - 12:15
 MECHANICAL DOWN TIME _____
 DRILLING PROBLEMS _____
 OTHER _____
 MOVE TO NEXT HOLE _____

SHIFT HOURS

TO

TOTAL HOURS

CONTRACT HOURS

DEPTH IN FEET	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
0				32' WATER
32.50				32.50 1/2' - CLAY
35				- grey
36				- very soft
38				- brown interbed at 35-42'
50.5				50 1/2' - SI - TILL
40				- fine grey sand matrix
42				- pebbly
44			01	- 40% granitic
46			02	- 60% volcanic
48				- occasional piece of quartz or carbonate
50				- traces of pyrite
51.54				51-54' BEDROCK
52				- medium green
54				- mild foliation
56				- traces of pyrite
58				- 40% quartz (carbonate)
60				- 60% volcanic
54				54' E.O.H

BIOC. MICROSCOPE: moderate to
 strongly foliated, fine grained
 weakly altered (quartz, carbonate, sericite)
 Chlorite schist

OVERBURDEN DRILLING MANAGEMENT LIMITED
REVERSE CIRCULATION DRILL HOLE LOG

DATE Mar 9 1986 HOLE NO NMO-86-22 LOCATION L 46+00 W 8100 N
 GEOLOGIST ROBERTA DRILLER FORTIN BIT NO. CB67627 BIT FOOTAGE 26-193
 SHIFT HOURS _____ MOVE TO HOLE 1:15 - 1:20
 _____ TO _____ DRILL 1:20 - 3:00
 TOTAL HOURS _____ MECHANICAL DOWN TIME _____
 _____ DRILLING PROBLEMS _____
 CONTRACT HOURS _____ OTHER 12:15 - 1:15 WAIT FOR SKIDDER
 _____ MOVE TO NEXT HOLE _____

DEPTH IN FEET	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
				WATER 32'
20				32-70' CLAY - soft green - brown interbed between 52-62'
40				70-70.5 TILL - 50% granitics; orange - 50% volcanics; medium to dark green - fine grey sandy matrix - pebbly - bits of clay - traces of pyrite
60				70.5-72' BEDROCK - medium green - fine grains - medium foliation - 20% quartz - traces of pyrite
80				EOH 72'

At Ready

3/NOV. MICROSCOPE: strongly foliated
fine grained, weakly altered
(quartz carbonate sericite)
chlorite schist

OVERBURDEN DRILLING MANAGEMENT LIMITED
REVERSE CIRCULATION DRILL HOLE LOG

DATE MARCH 7 19 86

SHIFT HOURS
_____ TO _____

TOTAL HOURS

CONTRACT HOURS

HOLE NO NMD-86-225 LOCATION L 4+00E 7+50N
GEOLOGIST BLISS DRILLER FORTIN BIT NO. CB67645 BIT FOOTAGE 426-47
MOVE TO HOLE 11:10 to 11:30
DRILL 11:30 to 12:45
MECHANICAL DOWN TIME _____
DRILLING PROBLEMS _____
OTHER _____
MOVE TO NEXT HOLE _____

DEPTH IN FEET	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
	W			15' WATER
	W			15 to 22 feet NO RETURN
	W			22 to 41 feet CLAY
	W			GRAY, SOFT AND SMOOTH
	W			41 to 45 feet TILL
				PEBBLY
20				60% GRANITIC
				40% VOLCANIC
				FINE SANDY GRAY MATRIX
				13 feet GRANITIC BOULDER
				45 to 47 feet BEDROCK
				FINE GRAINED
				MEDIUM TO DARK GREENY VOLCANICS
40				80% GREENSTONE CHLORITE SCHIST
				HEAVILY FOLIATED
			01	20% QUARTZ (CARBONATE)
			02	TRACE OF BANDING OF
				LIGHT AND DARK MINERALS
				STRONG SILVER/GRAY SHEEN
				ON ROCK CHIPS, THE
				MAJORITY OF WHICH ARE
				ELONGATE.
60				E.O.H. 47 feet
				BINOC. MICROSCOPE: strongly
				foliated, moderately altered
				(quartz, sericite, carbonate)
				mafic metavolcanic
				(chlorite schist)
80				

OVERBURDEN DRILLING MANAGEMENT LIMITED
REVERSE CIRCULATION DRILL HOLE LOG

DATE 9 March 1986

HOLE NO NMO.86.226 LOCATION L48+00W - 7+00N

SHIFT HOURS
TO

GEOLOGIST SHANNON DRILLER FORTIN BIT NO. CB67627 BIT FOOTAGE 198-260

TOTAL HOURS

MOVE TO HOLE 3:00-4:00
DRILL 4:00-5:00

CONTRACT HOURS

MECHANICAL DOWN TIME

DRILLING PROBLEMS

OTHER

MOVE TO NEXT HOLE

DEPTH IN FEET	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
0				28' WATER
28				28'-57' CLAY
				- grey
				- very soft
				- brown interbed at 35'-42'
57				57'-60' TILL
				- fine grey sand matrix
				- high sand volume
				- 10% granite
				- 90% volcanic
				- pebbly
60			01	60'-62' BEDROCK
			02	- medium foliation
				- traces of pyrite
				- medium green & grey
				- 40% carbonate (quartz)
				- 60% volcanic
62				62-E.O.H.

BINOC. MICROSCOPE:

Strongly foliated, strongly altered
(quartz carbonate sericite) with
medium grained py up to 3% in strongly
carbonatized, sericitized chips. Altered chlorite schist

OVERBURDEN DRILLING MANAGEMENT LIMITED
REVERSE CIRCULATION DRILL HOLE LOG

DATE Mar 7 1986 HOLE NO NM0-86-227 LOCATION L 6+00 E 1+50 N
 GEOLOGIST ROBERTA DRILLER FORTIN BIT NO. CB6764 BIT FOOTAGE 425-467
 SHIFT HOURS MOVE TO HOLE 12:45-1:00 473-500
 _____ TO _____ DRILL: 1:00 - 2:00
 TOTAL HOURS MECHANICAL DOWN TIME _____
 CONTRACT HOURS DRILLING PROBLEMS _____
 OTHER _____
 MOVE TO NEXT HOLE _____

DEPTH IN FEET	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
				WATER DEPTH 20'
				20-31' CLAY - soft green clay - chocolate brown interbed
20				31-31.5 SAND - fine grey sand with medium sand
			01	31.5-36' BEDROCK - medium green - high foliation - fine grain - 10% quartz
40			02	
				EOH 36'
60				<i>[Signature]</i>
				BINOC. MICROSCOPE: strongly foliated, moderately moderately altered (quartz sericite carbonate) mafic metavolcanic (chlorite schist)
80				

OVERBURDEN DRILLING MANAGEMENT LIMITED
REVERSE CIRCULATION DRILL HOLE LOG

DATE 10 March 1986

HOLE NO NMO-86-228 LOCATION L48700W-5750N
GEOLOGIST SHANNON DRILLER FORTIN BIT NO. C867627 BIT FOOTAGE 260-307

SHIFT HOURS
____ TO ____

MOVE TO HOLE _____
DRILL 9:00 - 9:45

TOTAL HOURS

MECHANICAL DOWN TIME _____

CONTRACT HOURS

DRILLING PROBLEMS _____

OTHER _____

MOVE TO NEXT HOLE _____

DEPTH IN FEET	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
35	W			35' WATER
35-42	W			35'-42' - No RETURN
42-43	W			42'-43' - Till
	W			- 10% quartz
	W			- 45% granitic
	W			- 45% volcanic
	W			- fine grey sand matrix
	W			- traces of pyrite
	W			- pebbly
43-47	W		02	43'-47' - BEDROCK
	W			- medium foliation
	W			- medium green
	W			- 50% carbonate-quartz
	W			- 50% volcanic
	W			E.O.H. 47'

James Shano

BINOC. MICROSCOPE: Strongly foliated, moderately altered, fine grained chlorite schist

OVERBURDEN DRILLING MANAGEMENT LIMITED
REVERSE CIRCULATION DRILL HOLE LOG

DATE MARCH 7 19 86 HOLE NO NMO-86-229 LOCATION L 6+00E . 3+50N
 GEOLOGIST BLISS DRILLER EORTIN BIT NO. CB67648 BIT FOOTAGE 509-539
 SHIFT HOURS _____ MOVE TO HOLE 2:00 to 2:05
 _____ TO _____ DRILL 2:05 to 2:45
 TOTAL HOURS _____ MECHANICAL DOWN TIME _____
 CONTRACT HOURS _____ DRILLING PROBLEMS _____
 _____ OTHER _____
 _____ MOVE TO NEXT HOLE _____

DEPTH IN FEET	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
				WATER 23'
				23 to 25 feet NO RETURN @ 25 ft GRAY CLAY (SOFT, SMOOTH)
				25 to 27 feet TILL PEBBLY - VERY SANDY FINE SANDY GRAY MATRIX 60% GRANITIC 40% VOLCANIC.
20				27 to 30 feet BEDROCK FINE GRAINED MEDIUM GREEN HEAVILY FOLIATED CHLORITE SCHIST WITH ^{HIGH} SILICIOUS MINERAL CONTENT 10-15% QUARTZ (CARBONATE) TRACE OF LINEATION OF GREEN AND WHITE MINERALS. - INCREASED QUARTZ CONTENT AT 29 feet - ALSO - INCREASED TRACES OF LINEATION.
40				E.O.H. 30 feet
60				BINOZ. MICROSCOPE: strongly foliated, strongly altered (quartz sericite carbonate) mafic volcanic (chlorite schist)
80				

OVERBURDEN DRILLING MANAGEMENT LIMITED
REVERSE CIRCULATION DRILL HOLE LOG

DATE Mar 10 1986

SHIFT HOURS
____ TO ____

TOTAL HOURS

CONTRACT HOURS

HOLE NO N10-86-230 LOCATION L 50+00W 5+50N
GEOLOGIST ROOPDA DRILLER FORTIN BIT NO. CB67627 BIT FOOTAGE 307-388

MOVE TO HOLE 9:45-10:10
DRILL 10:10-1:15

MECHANICAL DOWN TIME _____
DRILLING PROBLEMS _____

OTHER _____
MOVE TO NEXT HOLE _____

DEPTH IN FEET	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
				WATER 35'
20				35-57.5' CLAY - soft green - brown interbed 42-52'
40				57.5-74' TILL - 57.5-63' 40% granitics 60% volcanics - 63-74' 60% granitics 40% volcanics - fine grey sandy matrix - traces of pyrite & quartz - cobbly
60			01	74-76' BEDROCK - light grey-green - no foliation - very hard - medium grain - 10% quartz EOH 76'
			02	
			03	
			04	
80				

BINOC. MICROSCOPE: moderately foliated, weakly altered (quartz carbamate) chlorite schist

OVERBURDEN DRILLING MANAGEMENT LIMITED
REVERSE CIRCULATION DRILL HOLE LOG

DATE 10 March 1986

HOLE NO NMO-86-232 LOCATION L50400W - 6450N
GEOLOGIST SHANNON DRILLER FORTIN BIT NO. CB67627 BIT FOOTAGE 388-430

SHIFT HOURS
_____ TO _____

MOVE TO HOLE 1:15 - 1:20

TOTAL HOURS

DRILL 1:20 - 2:45

CONTRACT HOURS

MECHANICAL DOWN TIME _____

DRILLING PROBLEMS _____

OTHER _____

MOVE TO NEXT HOLE _____

DEPTH IN FEET	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
0				32' WATER
3				42' CASING
32				32'-38' - CLAY
33				- grey
34				- very soft
35				
36				
37				
38				38'-44½' - TILL
39				- fine grey sand matrix
40			01	- 70% volcanic
41			02	- 20% granitic
42			03	- 10% carbonate - quartz
43				- traces of pyrite
44½				44½'-48' BEDROCK
45				- no foliation
46				- 20% volcanic
47				- 80% carbonate - quartz
48				- pyrite
47'				47' - E.O.H.

James Shannon

B.DOC. MICROSCOPE: medium grained,
massive felsic dyke or vein; 80% quartz
20% chlorite 1-2% medium grained py
tending to occur in chlorite

OVERBURDEN DRILLING MANAGEMENT LIMITED
 REVERSE CIRCULATION DRILL HOLE LOG

DATE Mar 10 19 86

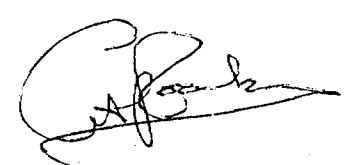
SHIFT HOURS
 _____ TO _____

TOTAL HOURS

CONTRACT HOURS

HOLE NO. UMA-82-234 LOCATION 13+07E 8 40+20W 14+0
 GEOLOGIST RODRIGUEZ DRILLER FORTIN BIT NO. 886722 BIT FOOTAGE 40-45
 MOVE TO HOLE 2:45 - 3:00
 DRILL 3:00 - 3:50
 MECHANICAL DOWN TIME _____
 DRILLING PROBLEMS _____
 OTHER _____
 MOVE TO NEXT HOLE _____

Follow up grid #1 / original grid

DEPTH IN FEET	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
0				WATER 14'
14				14-20' CLAY - soft green
20				20-24.5' TILL - 40% granitics, black & white coarse - 60% volcanics - fine grey sandy matrix - traces of pyrite
			01	
			02	
24.5				24.5-27' BEDROCK - top 6" reddish grey - 5% pyrite - change to dark grey at 25" - no foliation - traces of pyrite - coarse grain - gabbro - 5% quartz
27				END 27'
				
				BINOC. MICROSCOPE: fine to medium grained, massive, dark green to black gabbro.

OVERBURDEN DRILLING MANAGEMENT LIMITED
REVERSE CIRCULATION DRILL HOLE LOG

DATE MARCH 7 19 86
SHIFT HOURS _____ TO _____
TOTAL HOURS _____
CONTRACT HOURS _____

HOLE NO NMO-86-235 LOCATION L 10+00E . 6+50N
GEOLOGIST BLISS DRILLER FORTIN BIT NO. CB62643 BIT FOOTAGE 593-64
MOVE TO HOLE 4:30 to 4:45
DRILL 4:45 to 6:00
MECHANICAL DOWN TIME _____
DRILLING PROBLEMS _____
OTHER _____
MOVE TO NEXT HOLE _____

DEPTH IN FEET	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
	W			WATER 20'
	W			20 to 22 feet NO RETURN
	is			22 to 33 feet CLAY
	W			GRAY, SOFT AND SMOOTH
	W			33 to 40 feet TILL
20	W			60% GRANITICS
				40% VOLCANICS
				FINE SANDY GRAY MATRIX
				PEBBLY
				38.5 feet VOLCANIC BOULDER
				6" BOULDER.
	△		01	
	△		02	39 to 40 feet LODGEMENT
40	△		03	TILL 85% VOLCANICS
	△		04	LITTLE TO NO MATRIX.
				40 to 45 feet TILL
				AS ABOVE
	EDH			45.5 to 50 feet BEDROCK
				FINE GRAINED
				MEDIUM GREEN
60				5 to 10% CARBONATE
				MILD FOLIATION
				MAFIC VOLCANIC
				E.O.H. 50 feet
				BRNOC. Microscope: fine grained,
				massive to weakly foliated, unaltered
80				mafic metavolcanic.

OVERBURDEN DRILLING MANAGEMENT LIMITED
REVERSE CIRCULATION DRILL HOLE LOG

Ellerup End #1 / original end

DATE 10 March 1986
SHIFT HOURS _____
TO _____
TOTAL HOURS _____
CONTRACT HOURS _____

HOLE NO NMO-86-236 LOCATION 12100E B. / 13450N - 49410W
GEOLOGIST SHANNON DRILLER FORTIN BIT NO. C367627 BIT FOOTAGE 457-4
MOVE TO HOLE 3:50 - 4:00
DRILL 4:00 - 5:00
MECHANICAL DOWN TIME _____
DRILLING PROBLEMS _____
OTHER _____
MOVE TO NEXT HOLE _____

DEPTH IN FEET	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
0	W			13' WATER
13	W			13'-23' TILL
16	W			- high silt content
19	W			- fine grey sand matrix
20	Δ		01	- 30% granitic
21	Δ			- 70% volcanic
22	Δ			- pebbly
23	Δ			23'-24' BEDROCK
24	Δ			- no foliation
25	Δ			- coarse grain (gabbro)
26	Δ			- medium green
27	Δ			- 20% carbonate (quartz)
28	Δ			- 80% volcanic
29	Δ			E.O.H. 24'
30	Δ			James Shannon
31	Δ			Binoc. MICROSCOPE : medium
32	Δ			grained, massive gabbro

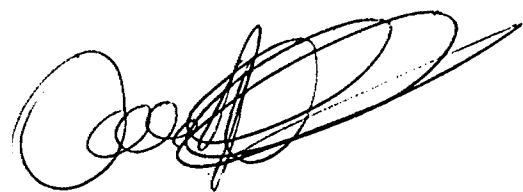
DATE MARCH 9 19 86

HOLE NO. NMO-86-237 LOCATION h 140+00 W- 21+50 N
 GEOLOGIST X DRILLER PELLIVAN BIT NO. CBC7675 BIT FOOTAGE 167-3.3
 MOVE TO HOLE 3:05-3:10
 DRILL 3:10-5:00
 MECHANICAL DOWN TIME _____
 DRILLING PROBLEMS _____
 OTHER _____
 MOVE TO NEXT HOLE _____

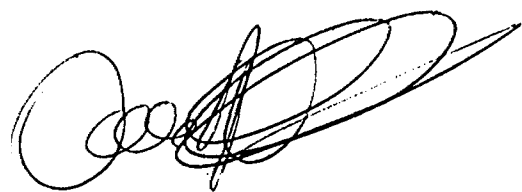
SHIFT HOURS _____ TO _____

TOTAL HOURS _____

CONTRACT HOURS _____

DEPTH IN FEET	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
	W			WATER = 84 ft. Casing = 84 ft.
90	W			CLAY 122' to 167' - gray - soft and smooth
100	W			SAND 167' to 169' - fine grain
110	W			TILL 169' to 171' - fine sand matrix - cobbly - 60% Vol. 40% Granitics - some quartz
120	W			BEDROCK 171' to 172' - mafic Vol. - dark green
130				E.O.H. 172 ft.
140				
150				
160				BINOC. MICROSCOPE: fine grained massive quartz mafic matrix mafic intrusive/extrusive?
170			01	- 5% glossy quartz with hematite and sulphides fairly abundant in quartz fragments
			02	- of a few buff fragments present, possibly not a clean bedrock sample

SAMPLE NO. 1 = 171'
 NO. 2 = 172'



BINOC. MICROSCOPE: fine grained
 massive ~~quartz~~ mafic matrix
 mafic intrusive/extrusive?
 - 5% glossy quartz with hematite
 and sulphides fairly abundant in
 quartz fragments
 - of a few buff fragments present, possibly
 not a clean bedrock sample

OVERBURDEN DRILLING MANAGEMENT LIMITED
 REVERSE CIRCULATION DRILL HOLE LOG

DATE March 10 19 86 HOLE NO NMO-86-233 LOCATION follow up grid no 1 / original Grid
 GEOLOGIST ZOODA DRILLER DORTIN BIT NO. CR6627 BIT FOOTAGE 481-543
 SHIFT HOURS _____ MOVE TO HOLE 5:05-5:10
 _____ TO _____ DRILL 5:10-6:40
 TOTAL HOURS _____ MECHANICAL DOWN TIME _____
 CONTRACT HOURS _____ DRILLING PROBLEMS _____
 _____ OTHER _____
 _____ MOVE TO NEXT HOLE _____

DEPTH IN FEET	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
	u			WATER 22'
	u			
	u			
	u			
	u			22-40' CLAY
	u			- soft green clay
20	u			
				40-61.5' TILL
				- 40-47' 5% quartz
				45% granitics
				50% volcanics
				- 47-60' 30% granitics
				70% volcanics, med green
40				- 60-61.5' 100% granitics
				50% volcanics, med green
		01		- trace of pyrite
		02		- cobble
		03		- heavy silty matrix
		04		- fine sand matrix
60		05		61.5-64' BEDROCK
				- dark green
				- medium grain
				- no foliation
				- some oxidized pieces
				- 5% quartz
80				END 64'

BRIND. MICROSCOPE: fine
 grained, strongly foliated, moderately
 altered (quartz carbonate sericite) py locally
 up to 5%, some iron staining (hematite)

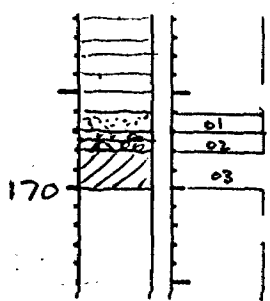
OVERBURDEN DRILLING MANAGEMENT LIMITED
 REVERSE CIRCULATION DRILL HOLE LOG

DATE MARCH 10 19 86 HOLE NO NMO-86-239 LOCATION L140 to W 23 to S N (T. 13 + 50 N)
 GEOLOGIST X DRILLER BELLEVUE BIT NO. CB67625 BIT FOOTAGE 334'-50'
 SHIFT HOURS _____ MOVE TO HOLE _____
 _____ TO _____ DRILL 8:30 - 11:30
 TOTAL HOURS _____ MECHANICAL DOWN TIME _____
 _____ DRILLING PROBLEMS _____
 CONTRACT HOURS _____ OTHER _____
 _____ MOVE TO NEXT HOLE _____

DEPTH IN FEET	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
80	W			casing = 84'
85	W			
90	W			CLAY 122' to 166'
95	W			- grey
100	W			- soft and smooth
105	W			SAND 166' to 167'
110	W			- medium grain
115	W			TILL 167' to 167.5'
120	W			- fine sand matrix
125	W			- cobbly
130	W			- 70% Vol. 30% Granitics
135	W			GRAVEL 167.5' to 168'
140	W			- cobbly
145	W			- 80% Vol. 20% Granitics
150	W			BEDROCK 168' to 170'
155	W			- dark green
160	W			- mafic Vol.
				- some quartz
				- small amount of
				E. O. H. 170'

SAMPLE NO. 1 = 167'
 NO. 2 = 168'
 NO. 3 = 170'
 NOTE: Combined TILL and GRAVEL to make sample NMO-86-247-02

[Handwritten scribbles]



BINOC. MICROSCOPE: fine to medium grained gabbro, massive

OVERBURDEN DRILLING MANAGEMENT LIMITED
REVERSE CIRCULATION DRILL HOLE LOG

DATE MARCH 11, 1986 HOLE NO NMD-86-240 LOCATION L 50 + 00 W - 0 + 50 S
 GEOLOGIST BLISS DRILLER FORTIN BIT NO. C067627 BIT FOOTAGE 543.55
 SHIFT HOURS _____ MOVE TO HOLE 8:00 to 9:30
 _____ TO _____ DRILL 9:30 to 10:30
 TOTAL HOURS _____ MECHANICAL DOWN TIME _____
 CONTRACT HOURS _____ DRILLING PROBLEMS _____
 _____ OTHER _____
 _____ MOVE TO NEXT HOLE _____

DEPTH IN FEET	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
	W			27' WATER
	W			27 to 32 feet NO RETURN
	W			32 to 39 GRAY CLAY SOFT AND SMOOTH
	W			GRITTY CLAY @ 39 feet
20	W			39 to 47 feet TILL
	W			39 to 46' PEBBLY TILL
	W			FINE GRAY SANDY MATRIX 60% GRANITICS 40% VOLCANICS
				46 to 47' LODGEMENT TILL 95% VOLCANICS 5% GRANITICS
40	Δ		01	LITTLE TO NO SANDY MATRIX
	Δ		02	TRACE OF PYRITE
	Δ		03	
	E.O.H.			47 to 50 feet BEDROCK FINE GRAINED DARK GREEN MAFIC VOLCANIC MILD FOLIATION (VERY LITTLE ALTERATION) 5% CARBONATE
60				E.O.H. 50 feet
				Binoc. microscope moderately foliated, unaltered, fine grained dark green chlorite schist
80				

OVERBURDEN DRILLING MANAGEMENT LIMITED
REVERSE CIRCULATION DRILL HOLE LOG

DATE MAR 10 1986

HOLE NO NMO-86-241 LOCATION L 140W 25150N
GEOLOGIST D. JAMIESON DRILLER A. BELLINEAU BIT NO. CB62625 BIT FOOTAGE 508'-67'

SHIFT HOURS
TO

MOVE TO HOLE 11:30 - 11:45

TOTAL HOURS

DRILL: 11:45 - 2:50

CONTRACT HOURS

MECHANICAL DOWN TIME

DRILLING PROBLEMS

OTHER

MOVE TO NEXT HOLE

DEPTH IN FEET	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
				82' WATER 84' CASING
				82' - 112' No Return
				112' - 132' grey clay
				132' - 142' brown clay
				142' - 158' grey clay
120				TILL 158' - 165' abundant fine to very fine grey sandy matrix pebbly 50% volcanic 50% granitic
				<u>BEDROCK</u> 165' finely laminated pyritiferous tuff - qtz - sericite alteration - 10% qtz - 5% sericite - fine grained, banded to finely disseminated PY up to 15% locally
160	A Δ Δ		01 02 03	167' E.O.H.
			04	David Jamieson ^{3100x MICROSCOPE} fine grained finely laminated intermediate tuff 10-20% PY, fine grained, disseminated occasionally banded
80				

OVERBURDEN DRILLING MANAGEMENT LIMITED
 REVERSE CIRCULATION DRILL HOLE LOG

DATE MAR 10 1986

SHIFT HOURS
 _____ TO _____

TOTAL HOURS

CONTRACT HOURS

HOLE NO. 243 LOCATION h 140 W 27+50N
 GEOLOGIST X DRILLER BELLEVUE BIT NO. CR67623 BIT FOOTAGE 675'-82'
 MOVE TO HOLE _____
 DRILL 3:00-6:30 MAR. 11 8:00-9:45
 MECHANICAL DOWN TIME _____
 DRILLING PROBLEMS _____
 OTHER _____
 MOVE TO NEXT HOLE _____

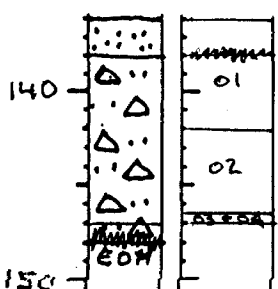
DEPTH IN FEET	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
60	W			WATER = 79 ft. 84' of casing
70	W			CLAY 112' to 136' - grey - soft and smooth
80	W			SAND 136' to 138' - medium sand
90	W			TILL 138' to 147' - fine sand matrix - slightly cobbly - 70 Granitics 30 Vol. - some pyrite
100	W			E.O.H. 147 ft. (SHUT DOWN AT 6:30 NOT CUTTING INTO BEDROCK)
110	W			MARCH 11, 1986 - fine sand matrix - pebbly - 70% Granitics 30% Vol.
120	W			STILL WON'T CUT!!
130	W			

SAMPLE NO. 1 = 142'
 NO. 2 = 146.5'
 NO. 3 = 147'
 NO. 4 = 147'

NOTE: SAND and TILL were mixed to make SAMPLE NO. 4
 SAMPLE NO. 4 possible lodgement till with small amount of bedrock chips.

BINOC. MICROSCOPE: some dark black fine grained chips with sand and pyritic tuff chips

[Handwritten signature]



[Handwritten signature]

OVERBURDEN DRILLING MANAGEMENT LIMITED
REVERSE CIRCULATION DRILL HOLE LOG

DATE MARCH 11 1986 HOLE NO NNO-86-244 LOCATION L 48+00 W - 1+00 N
 GEOLOGIST BLISS DRILLER FORTIN BIT NO. CB67627 BIT FOOTAGE 613 to 6
 SHIFT HOURS _____ MOVE TO HOLE 11:25 to 11:35
 _____ TO _____ DRILL 11:35 to 12:30
 TOTAL HOURS _____ MECHANICAL DOWN TIME _____
 _____ DRILLING PROBLEMS _____
 CONTRACT HOURS _____ OTHER _____
 _____ MOVE TO NEXT HOLE _____

DEPTH IN FEET	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
				19' WATER
				19 to 22 GRAY CLAY, SOFT AND SMOOTH.
				22 to 24 CLAYEY SAND INTERBED.
				24 to 25 feet TILL PEBBLY.
20				FINE SANDY GRAY MATRIX 60% GRANITICS 40% VOLCANICS TRACE OF PYRITE IN VOLCANICS
				25 to 27 feet BEDROCK 50% YELLOW/GREEN MINERAL (SERECITE) 30% GREEN MINERAL (CHLORITE) - MAFIC VOLCANIC.) 20% WHITE MINERAL CONTENT (QUARTZ/ CARBONATE)
40				MODERATE FOLIATION FINE GRAINED TRACES OF PYRITE LINEATION AND BANDING ARE APPARENT.
				@ 26.5 feet INCREASED CHLORITE VOLCANIC CONTENT.
60				E.O.H. 27 feet.
80				

BINOC. MICROSCOPE: medium
grained, weakly foliated, quartz
carbonate altered gabbro.

OVERBURDEN DRILLING MANAGEMENT LIMITED
REVERSE CIRCULATION DRILL HOLE LOG

DATE MAR 11 19 86
SHIFT HOURS _____
TO _____
TOTAL HOURS _____
CONTRACT HOURS _____

HOLE NO NMO-86-245 LOCATION L138W 28400N
GEOLOGIST D. JAMIESON DRILLER A. BOLLIVIER BIT NO. C.B.67625 BIT FOOTAGE 822' - 964'
MOVE TO HOLE 9:45 - 10:30
DRILL 10:30 - 1:00
MECHANICAL DOWN TIME _____
DRILLING PROBLEMS _____
OTHER _____
MOVE TO NEXT HOLE _____

DEPTH IN FEET	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
				78' WATER
				84' CASING
				78' - 102' No Return
				102' - 112' grey clay
				112' - 122' " "
120				122' - 132' grey clay followed by brown clay
				132' - 140' grey clay
				<u>TILL</u>
				140' - 140.5' fine grey sandy matrix 50% volcanics 50% granitics
140				<u>BEDROCK</u>
				140.5' light green, fine grained, carbonate rich mafic metavolcanic.
160				E.O.H. 142'
				David Jamieson
180				Desc. Microscope: mainly soft pale green chips; harder chips are fine to medium grained, grey green and massive. ? stuff?

OVERBURDEN DRILLING MANAGEMENT LIMITED
REVERSE CIRCULATION DRILL HOLE LOG

DATE 11 March 1986 HOLE NO NMO-86-248 LOCATION L46+00W - 1+00N
 GEOLOGIST SHANMA DRILLER FORTIN BIT NO. CB67627 BIT FOOTAGE 640-694
 SHIFT HOURS _____ MOVE TO HOLE 12:30 - 12:45
 _____ TO _____ DRILL 12:45 - 2:00
 TOTAL HOURS _____ MECHANICAL DOWN TIME _____
 _____ DRILLING PROBLEMS _____
 CONTRACT HOURS _____ OTHER _____
 _____ MOVE TO NEXT HOLE _____

DEPTH IN FEET	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
0				18' WATER
18				18'-32' - TILL
20	△		01	- fine grey sand matrix
21	△			- 10% quartz
22	△			- 45% granite
23	△		02	- 45% volcanic
24	△		02	- pyrite
25	△		03	- pebbly
29				- 29' - 29½' - grey boulder
32				32' - 34' BEDROCK
33				- medium green
34				- mildly foliated
35				- oxydation apparent
36				- 40% carbonate - quartz
37				- 60% volcanic
38				E.O.H. 34'

James Shana

BINOC. MICROSCOPE: moderately foliated, fine to medium grained, moderately altered (quartz carbonate sericite) py up to 20% finely disseminated occasionally in bands.

OVERBURDEN DRILLING MANAGEMENT LIMITED
 REVERSE CIRCULATION DRILL HOLE LOG

DATE MARCH 11 1986

SHIFT HOURS
 _____ TO _____

TOTAL HOURS

CONTRACT HOURS

HOLE NO. 247 ~~248~~ ~~249~~ 247 LOCATION W 138 W 26 + 30 N
 GEOLOGIST X DRILLER BELLIVEAU BIT NO. CB67625 BIT FOOTAGE 964'-114'
 MOVE TO HOLE 1:00 - 1:15
 DRILL 1:15 - 3:15
 MECHANICAL DOWN TIME _____
 DRILLING PROBLEMS _____
 OTHER _____
 MOVE TO NEXT HOLE _____

DEPTH IN FEET	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
				WATER = 84 ft. 84' of casing
90				CLAY 132' to 172' - grey - smooth and soft
100				142' brown 162' grey
110				TILL 172' to 176' - fine sand matrix - cobbly - 80% Vol. 20% Granitics
120				BEDROCK 176' to 178' - dark green - mafic Vol. - 5% quartz 5% pyrites
130				
140				E.O.H. 178 ft
150				<i>[Signature]</i>
160				BINOC. MICROSCOPE: fine grained, but with distinguishable white crystals; finely laminated, grey green pyritic tuff; 5% fine grained disseminated sulphides
170			01 02 03	
180				E.O.H.

SAMPLE No. 1 = 174'
 No. 2 = 176'
 No. 3 = 178' Bedrock

OVERBURDEN DRILLING MANAGEMENT LIMITED
REVERSE CIRCULATION DRILL HOLE LOG

DATE MARCH 11 19 86
SHIFT HOURS _____
TO _____
TOTAL HOURS _____
CONTRACT HOURS _____

HOLE NO NMD-86-248 LOCATION L48+00 - 0 + 50S
GEOLOGIST BLISS DRILLER FORTIN BIT NO. CB67627 BIT FOOTAGE 694-72
MOVE TO HOLE 2:00 to 2:05
DRILL 2:05 to 3:00
MECHANICAL DOWN TIME _____
DRILLING PROBLEMS _____
OTHER _____
MOVE TO NEXT HOLE _____

DEPTH IN FEET	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
0				WATER 22'
22				22 to 28 feet NO RETURN
28				28 to 29 feet TILL
29				PEBBLY
30				FINE GRAY SANDY MATRIX
31				50% VOLCANIC
32				50% GRANITIC
32				29 to 32 feet BEDROCK
33				FINE GRAINED
34				MEDIUM TO DARK GREEN
35				MAFIC VOLCANIC
36				5 to 10% QUARTZ
37				MODERATE FOLIATION
38				TRACE OF LINEATION OF
39				LIGHT / DARK MINERALS
40				TRACE OF PYRITE
41				@ 31 feet TRACE OF
42				SERPENTINE (YELLOW /
43				GREEN MINERAL)
44				INCREASED CONCENTRATION
45				OF QUARTZ (UP TO 20%)
46				E.O.H. 32 feet.
47				BINOC. MICROSCOPE : medium
48				grained, weakly foliated, moderately
49				altered gabbro / Podiformated py

OVERBURDEN DRILLING MANAGEMENT LIMITED
REVERSE CIRCULATION DRILL HOLE LOG

DATE MAR 11 19 86

HOLE NO NMO-86-249 LOCATION L 142W 19+33 N
GEOLOGIST D. JAMIESON DRILLER A. BELLINER BIT NO. CB67625 BIT FOOTAGE 1140'-12

SHIFT HOURS
____ TO ____

MOVE TO HOLE 3:15-3:30
DRILL 3:30-5:45

TOTAL HOURS

MECHANICAL DOWN TIME _____

CONTRACT HOURS

DRILLING PROBLEMS _____
OTHER _____
MOVE TO NEXT HOLE _____

DEPTH IN FEET	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
				83' WATER
				84' CASING
				83'-102' No Return
				102'-112' grey clay
				112'-122' grey clay → brown clay
20				122'-132' brown clay → grey clay
				132'-141' grey clay
				<u>TILL</u>
				141'-146' fine grey sandy matrix pebbly 80% volcanic 20% granites
40				<u>Bedrock</u>
			01	
			02	
			03	
				146' grey green pyritiferous tuff 10% PY
				E.O.H. 147'
60				Daryl Jamieson
				BINOC. MICROSCOPE: finely laminated fine grained crystal tuff, laminations of fine grained PY up to 5%
80				

OVERBURDEN DRILLING MANAGEMENT LIMITED
REVERSE CIRCULATION DRILL HOLE LOG

DATE 11 March 1986

HOLE NO NMO-86-250 LOCATION L⁷⁰ 100W - S420N
GEOLOGIST SHANNON DRILLER FORTIN BIT NO. C867621 BIT FOOTAGE 0-80

SHIFT HOURS
TO

MOVE TO HOLE 3:00 - 4:00
DRILL 4:00 - 5:00

TOTAL HOURS

MECHANICAL DOWN TIME

CONTRACT HOURS

DRILLING PROBLEMS
OTHER New Bit
MOVE TO NEXT HOLE

DEPTH IN FEET	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
0				55' WATER
3				64' CASING
33				55'-75' - CLAY
36				- grey
39				- very soft
42				- brown interbed at 67'-72'
45				75'-77' - TILL
48				- fine grey sand matrix
51				- 20% granitic
54				- 80% volcanic
57				- traces of pyrite
60				- pebbly
63				77'-80' - BEDROCK
66				- mild foliation
69				- dark green
72				- 50% volcanic
75				- 50% carbonate - quartz
78			01	
81			02	
84				E.O.H. - 80'

BINOC. MICROSCOPE: finto
medium grained, strongly foliated
weakly altered (quartz carbonate)
chlorite schist (originally gabbro?)

OVERBURDEN DRILLING MANAGEMENT LIMITED
 REVERSE CIRCULATION DRILL HOLE LOG

DATE MAR. 12 19 86 HOLE NO NMD-86-251 LOCATION h142W 21+50N
 GEOLOGIST X DRILLER BELLIVEAUBIT NO. C36762 BIT FOOTAGE 1289+45
 SHIFT HOURS _____ MOVE TO HOLE _____
 _____ TO _____ DRILL 8:00 - 1:10
 TOTAL HOURS _____ MECHANICAL DOWN TIME _____
 _____ DRILLING PROBLEMS _____
 CONTRACT HOURS _____ OTHER _____
 _____ MOVE TO NEXT HOLE _____

DEPTH IN FEET	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG					
0	Wavy lines			WATER = 83ft casing = 84ft CLAY 112' to 148' - grey - soft and smooth TILL 148' to 164' - fine sand matrix - 70% Vol., 30% Granitics BEDROCK 164' to 165' (HARD, SLOW CUTTING) - BLACK - mafic Vol. - some quartz E.O.H. 165ft.					
0	Wavy lines								
0	Wavy lines								
10	Wavy lines								
10	Wavy lines								
120	Wavy lines								
120	Wavy lines								
130	Wavy lines								
130	Wavy lines								
140	Wavy lines								
140	Wavy lines								
150	Wavy lines		01	BINO. MICROSCOPE: dark green fine to medium grained, massive to weakly foliated, minor quartz gabbro					
150	Wavy lines		02						
160	Wavy lines		03						
160	Wavy lines								
170	Wavy lines								
170	Wavy lines								

SAMPLE No. 1 = 155'
 No. 2 = 160'
 No. 3 = 163.5'
~~No. 4 = 164'~~
 No. 5 = 165' Bedrock

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OVERBURDEN DRILLING MANAGEMENT LIMITED
 REVERSE CIRCULATION DRILL HOLE LOG

L 1140660 11505 (New Grid)

DATE 12 March 1986

HOLE NO NMO 86-252 LOCATION L 72410W - 5750N (old grid)
 GEOLOGIST SAMMIRON DRILLER FORTIN BIT NO. C88762 BIT FOOTAGE 80-150

SHIFT HOURS
 _____ TO _____

MOVE TO HOLE 8:15 - 8:30

TOTAL HOURS

DRILL 8:30 - 9:45

CONTRACT HOURS

MECHANICAL DOWN TIME _____

DRILLING PROBLEMS _____

OTHER _____

MOVE TO NEXT HOLE _____

DEPTH IN FEET	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
0				34' CASING
0				55' WATER
55				55-68 - CLAY
				- grey
				- very soft
68				68-72 - BEDROCK
				- no foliation
				- dark green
				- traces of pyrite
				- 40% carbonate - quartz
				- 60% volcanic
72				72 - E.O.H.
				James Shaw
			01	BINOC. MICROSCOPE: strongly foliated, fine to medium grained, weakly altered (quartz, carbonate) chlorite schist possibly sheared gabbro?
80				

OVERBURDEN DRILLING MANAGEMENT LIMITED
 REVERSE CIRCULATION DRILL HOLE LOG

DATE Mar 12 1986 HOLE NO NM0-86-253 LOCATION L 142+00W 22+50N
 GEOLOGIST ROEDA DRILLER BELLIVEAU BIT NO. CB67620 BIT FOOTAGE 0-157'
 SHIFT HOURS _____ MOVE TO HOLE 1:10-1:15
 _____ TO _____ DRILL 1:15-2:45
 TOTAL HOURS _____ MECHANICAL DOWN TIME _____
 _____ DRILLING PROBLEMS _____
 CONTRACT HOURS _____ OTHER NEW BIT
 _____ MOVE TO NEXT HOLE _____

DEPTH IN FEET	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
80				. WATER DEPTH 83' CASING SET TO 84'
83-147'				CLAY - soft green - chocolate brown interbed between 122' and 132'
147-154'				TILL - 10% granitics - 90% volcanics, dark green - 1% pyrite - fine grey sandy matrix - medium grain matrix - after 152' cobbly; traces of pyrite
154-157'				BEDROCK - dark green - no foliation - traces of quartz - fine grains
			01	
			02	
			03	
			EDU	
160				

[Handwritten Signature]

BIND. MICROSCOPE: fine grained,
 dark green, massive, trace PY
 mafic meta-volcanic

OVERBURDEN DRILLING MANAGEMENT LIMITED
 REVERSE CIRCULATION DRILL HOLE LOG

NEW GRID U9+00W - 3+00S

DATE MARCH 12 1986

HOLE NO NMO-86-254 LOCATION OLD GRID L71+70W - 4+20 N

GEOLOGIST BLISS DRILLER FORTIN BIT NO. CB67627 BIT FOOTAGE 152.21

SHIFT HOURS
 _____ TO _____

MOVE TO HOLE 9:40 - 9:45

TOTAL HOURS

DRILL 9:45 - 11:40

CONTRACT HOURS

MECHANICAL DOWN TIME _____

DRILLING PROBLEMS _____

OTHER _____

MOVE TO NEXT HOLE _____

DEPTH IN FEET	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
47	W			47 feet WATER
54	W			54 feet CASING
47 to 52	W			47 to 52 feet NO RETURN
52 to 54	W			52 to 54 feet CLAY GRAY SOFT AND SMOOTH.
54	W			54 GRITTY GRAY CLAY. GRANITIC BOULDER
55	W			55 SANDY INTERBED
56	W			56 TILL PEBBLY FINE SANDY GRAY MATRIX 60% GRANITICS 40% VOLCANICS
57	W			57 BEDROCK FINE GRAINED DARK GREEN 5 to 10% CARBONATE (QUARTZ) MAFIC VOLCANIC MILD TO NO FOLIATION TRACE OF PYRITE.
58.5				58.5 feet FELSIC VEIN INTERSECTION WITH TRACES OF PYRITE WITHIN THE CONTACT AREAS.
60				E.O.H. 60 feet.
80				BINOC. MICROSCOPE: medium grained, massive gabbro; coarse grained disseminated ? up to 1%

OVERBURDEN DRILLING MANAGEMENT LIMITED
REVERSE CIRCULATION DRILL HOLE LOG

DATE MARCH 12 19 86 HOLE NO NMO-86-255 LOCATION L 142 town 25+50N
 GEOLOGIST X DRILLER BELIVEAU BIT NO. CB67620 BIT FOOTAGE 157-32
 SHIFT HOURS 2:45 - 3:00 MOVE TO HOLE 3:00 - 6:00 MAR. 13 8:00 - 12:30
 TOTAL HOURS _____ DRILL 3:00 - 6:00 MECHANICAL DOWN TIME _____
 CONTRACT HOURS _____ DRILLING PROBLEMS _____
 OTHER MAR. 13. 1/2 hour repair of leak in funnel
 MOVE TO NEXT HOLE _____

DEPTH IN FEET	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG	
				WATER = 83ft. casing = 84ft.	
80	W.W.W.W.W			CLAY 112' to 147' - grey - soft and smooth	
90	W.W.W.W.W		TILL 147' to 152' - fine sand matrix - 50% Vol. 50% Granitics		
100	W.W.W.W.W		BOULDER 152' to 155' - granitic		
110	W.W.W.W.W		TILL 155' to 165' - fine sand matrix - 50% Vol. 50% Granitics - some quartz and pyrite		
120	W.W.W.W.W			BEDROCK 165' to 166' - medium green - mafic Vol. - medium grain - carbonates?	
130	W.W.W.W.W				
140	W.W.W.W.W				
150	W.W.W.W.W		02	$E_o O_o H_o = 166ft.$	
				NOTE: Brazing done on	Binoc. Microscope: fine grained, massive mafic metavolcanic / or fine grained gabbro
160	△		03	funnel, some chips of brazing rod (brass) might be found in sample.	
	△		04	THAT MEANS IT MIGHT NOT BE GOLD YOUR LOOKIN AT FOLKS!!!	
170	△		05		

OVERBURDEN DRILLING MANAGEMENT LIMITED
REVERSE CIRCULATION DRILL HOLE LOG

L19100W - 6755 (Old Grid)

DATE 12 March 1986

HOLE NO NMO-86-256 LOCATION L19100W - 6750N (Old Grid)

SHIFT HOURS
TO

GEOLOGIST SHANNON DRILLER FORTIN BIT NO. B67621 BIT FOOTAGE 212-311

TOTAL HOURS

MOVE TO HOLE 11:40 - 11:45

CONTRACT HOURS

DRILL 11:45 - 1:30

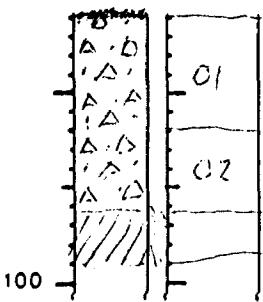
MECHANICAL DOWN TIME

DRILLING PROBLEMS

OTHER

MOVE TO NEXT HOLE

DEPTH IN FEET	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
				55' WATER
				64' CASING
				55' - 84½' - CLAY
				- grey
				- very soft
				- brown interbed at 72'-80'
				84½' - 86' - Boulder - granite
				86' - 96½' - TILL
				- fine grey sand matrix
				- 10% quartz
				- 20% granite
				- 70% volcanic
				- traces of pyrite
				- pebbles
				96½' - 99' BEDROCK
				- no foliation
				- 30% carbonate - quartz
				- 70% volcanic
				- traces of pyrite



E.O.H. 99

BINOC. MICROSCOPE: fine to medium grained, strongly foliated, weakly altered (quartz carbonate) brown pebbly chlorite schist
James Fran (steamed gabbro?)

OVERBURDEN DRILLING MANAGEMENT LIMITED
REVERSE CIRCULATION DRILL HOLE LOG

DATE MAR 13 1986

HOLE NO NMO-86-257 LOCATION L142W 26150N
GEOLOGIST D. JAMIESON DRILLER A. BELLWELL BIT NO. C867620 BIT FOOTAGE 323'-485'

SHIFT HOURS
TO

MOVE TO HOLE 1:00 - 1:30 (CLEAN TANK)
DRILL 1:30 - 4:00

TOTAL HOURS

MECHANICAL DOWN TIME

CONTRACT HOURS

DRILLING PROBLEMS

OTHER

MOVE TO NEXT HOLE

DEPTH IN FEET	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
				WATER DEPTH ?
				<u>CLAY</u>
				102' - 112' grey clay
				112' - 132' grey clay
100 20				132' - 142' brown clay
				142' - 152' grey clay
				152' - 159' grey clay
				<u>TILL</u>
120 40				159' - 160' fine grey sandy matrix 85% volcanics 15% granitics
				160' - 160.25 lodgment till
				<u>BEDROCK</u> 160.25
140 60				medium to dark green, fine grained mafic metavolcanic minor fine grained py
				162' F.O.H
				<u>Thin / minor</u>
160 80			01 02	possibly a separate sample of lodgment till was taken making the bedrock sample 257-03

BIND. MICROSCOPE : small oval dark crystals (quartz eyes?) and square quartz crystals in a dark green fine grained matrix; massive with up to 1% finely disseminated py mafic crystal tuft?

OVERBURDEN DRILLING MANAGEMENT LIMITED
REVERSE CIRCULATION DRILL HOLE LOG

DATE MAR 14 19 86 HOLE NO NMO-86-258 LOCATION L20W 8150N 887-1018
 GEOLOGIST SAMIESON DRILLER A. BELLINERAY BIT NO. C61610 BIT FOOTAGE 927.45
 SHIFT HOURS _____ MOVE TO HOLE 1:30 - 3:00
 _____ TO _____ DRILL 3:00 - 5:15
 TOTAL HOURS _____ MECHANICAL DOWN TIME _____
 CONTRACT HOURS _____ DRILLING PROBLEMS _____
 _____ OTHER _____
 _____ MOVE TO NEXT HOLE 5:15 - 5:30

DEPTH IN FEET	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
				57' WATER
				57'-72' No Return
				72'-82' grey clay
				82'-92' grey clay
				92'-102' brown clay
7020				102'-112' brown clay followed by grey clay
				112'-116' grey clay
				<u>TILL</u>
9040				116' sparse, fine grey sandy matrix 60% granitics cobble 40% volcanics
				121' till has 90% volcanics 10% granitics
11060				<u>BEDROCK</u>
				128' fine to medium grained medium green, gabbro.
			01	
			02	
			03	
13080			04	
				131' E.O.H.
				David Jamieson
				Binoc. Microscope: medium grained massive gabbro

OVERBURDEN DRILLING MANAGEMENT LIMITED
REVERSE CIRCULATION DRILL HOLE LOG

DATE MAR 15 19 86 HOLE NO NMO-86-259 LOCATION L20W 6425N
 GEOLOGIST D. JAMIESON DRILLER A. BELLINANI BIT NO. 382620 BIT FOOTAGE 1018'-1216'
 SHIFT HOURS _____ MOVE TO HOLE _____
 _____ TO _____ DRILL 8:00 - 10:35
 TOTAL HOURS _____ MECHANICAL DOWN TIME _____
 DRILLING PROBLEMS _____
 CONTRACT HOURS _____ OTHER _____
 _____ MOVE TO NEXT HOLE _____

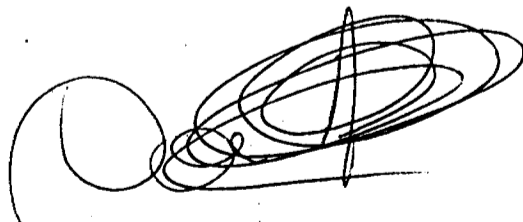
DEPTH IN FEET	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
				53' WATER 54' CASING
				53'-62' No Return CLAY
				62'-72' grey clay
				72'-82' brown clay
				82'-91' grey clay
				<u>TILL</u>
				91'-92' fine grain sandy matrix pebbly 50% volcanics 50% granites
				92' boulder
				92.5' - 94' fine grained sandy matrix pebbly 50% volcanics 50% granites
				<u>GRAVEL</u> 50% volcanics 94'-96' 50% granites
				<u>BEDROCK</u>
				96' medium grain, strongly foliated, 10-20% qtz, 10% PY
				98' E.O.H.
				D. Jamieson

01	
02	
03	
04	

BINOC. MICROSCOPE: strongly
foliated, fine grained moderately
altered (quartz, calcite, sericite)
chlorite schist

OVERBURDEN DRILLING MANAGEMENT LIMITED
REVERSE CIRCULATION DRILL HOLE LOG

DATE MAR 15 1986 HOLE NO NMD-86-260 LOCATION L 18W 7+75N
 GEOLOGIST X DRILLER BELLIVEAU BIT NO. C 67170 BIT FOOTAGE 1216+321
 SHIFT HOURS MOVE TO HOLE 10:30 - 10:45
 TO DRILL 10:45 - 12:45
 TOTAL HOURS MECHANICAL DOWN TIME _____
 DRILLING PROBLEMS _____
 CONTRACT HOURS OTHER _____
 MOVE TO NEXT HOLE _____

DEPTH IN FEET	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
20	Wavy lines			WATER = Sift. 54' of casing NO RETURN 51' to 72' CLAY 72' to 104' - grey - soft and smooth TILL 104' to 105' - fine sand matrix - 50% Vol. 50% Granitics BOULDER 105' to 106' - granitic TILL 106' to 107' - fine sand matrix - 50% Vol. 50% Granitics BEDROCK 107' to 108' - mafic Vol. - medium to dark green E. O. Ho 108 ft.
30	Wavy lines			
40	Wavy lines			
50	Wavy lines			
60	Wavy lines			
70	Wavy lines			
80	Wavy lines			
90	Wavy lines			
100	Wavy lines			Binoc. Microscope: medium grained, relatively massive but with a strong mineral lineation at times; brown brecciated flecking. weakly sheared, weakly altered gabbro?
110	Wavy lines			

Sample No. 1 = 105'
(107'
No. 2 = 108'

OVERBURDEN DRILLING MANAGEMENT LIMITED
REVERSE CIRCULATION DRILL HOLE LOG

DATE MAR 15 1986 HOLE NO NMO-86-261 LOCATION L18W 9450N
 GEOLOGIST D. JAMIESON DRILLER A. BELLIVEAU BIT NO. _____ BIT FOOTAGE _____
 SHIFT HOURS _____ TO _____ MOVE TO HOLE 12:45 - 1:00
 TOTAL HOURS _____ DRILL 1:00 - 2:30
 MECHANICAL DOWN TIME _____
 DRILLING PROBLEMS _____
 CONTRACT HOURS _____ OTHER _____
 MOVE TO NEXT HOLE _____


DEPTH IN FEET	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
				59' WATER 64' CASING
				59'-82' No Return CLAY
				82'-92' grey clay
70 20				92'-102' grey clay
				102'-112' brown clay
				112'-122' brown clay followed by grey
90 40				124.5 granitic boulder
				TILL
				125 fine sandy to silty matrix
				-129 50% volcanic 50% granitic
				GRAVELS
110 60				129-130' well sorted, angular pebbles 70% granitic 30% volcanic
				BEDROCK
				130' medium green, medium grained gabbro
130 80			01	
			02	
			03	15% soft green chips (carb.?)

S.O.A. 132

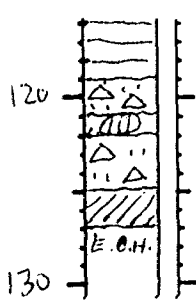
BINOC. MICROSCOPE. medium
grained, massive gabbro - minor
quartz and iron staining (fractures)

OVERBURDEN DRILLING MANAGEMENT LIMITED
REVERSE CIRCULATION DRILL HOLE LOG

DATE MARCH 15 19 36 HOLE NO NM0-86-262 LOCATION h 16 W10+00N
 GEOLOGIST X DRILLER PELLIVEAU BIT NO. 67630 BIT FOOTAGE 0-127
 SHIFT HOURS MOVE TO HOLE 2:30-2:45
 TO DRILL 2:15-7:00 MARCH 16 8:00-10:15
 TOTAL HOURS MECHANICAL DOWN TIME
 DRILLING PROBLEMS
 CONTRACT HOURS OTHER NEW SUB AND BIT!
 MOVE TO NEXT HOLE

DEPTH IN FEET	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
				casing 54'
40	W			CLAY 82' to 119'
	W			-brown and grey
	W			-soft and smooth
50	W			TILL 119' to 121'
	W			-fine sand matrix
	W			-40% Vol. 60% Granitics
60	W			BOULDER 121' to 122'
	W			-granitic
70	W			TILL 122' to 125'
	W			-fine sand matrix
	W			-40% Vol. 60% Granitics
80	W			BEDROCK 125' to 127'
	W			NOT CLEAN
	W			126.5' BEDROCK CLEAN
90	W			-medium to dark green
	W			-mafic Vol.
	W			-small amount of quartz
100	W			E.O.H. 127ft.
110	W			

SAMPLE NO. 1 = 122'
 NO. 2 = 124'
 NO. 3 = 125'
 NO. 4 = 125' 3" E.O.H.
 NO. 5 = 127' E.O.H.

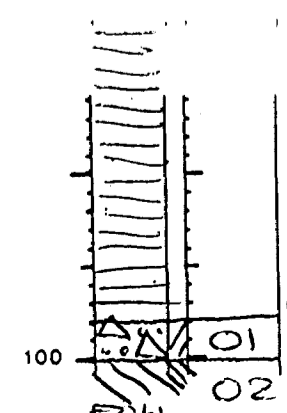


BINOC. MICROSCOPE: moderately foliated, weakly laminated pyritic stuff; py tends to be disseminated rather than laminated; up to ~~2~~ 2-3% grey green colour probably intermediate

OVERBURDEN DRILLING MANAGEMENT LIMITED
REVERSE CIRCULATION DRILL HOLE LOG

DATE MARCH 16 19 86 HOLE NO NMD-86-263 LOCATION L16+00W - 8+00N
 GEOLOGIST BLISS DRILLER BELLIVEAR BIT NO. CB67630 BIT FOOTAGE 127-22'
 SHIFT HOURS _____ MOVE TO HOLE 10:15 - 10:30
 _____ TO _____ DRILL 10:30 - 1:15
 TOTAL HOURS _____ MECHANICAL DOWN TIME _____
 _____ DRILLING PROBLEMS _____
 CONTRACT HOURS _____ OTHER _____
 _____ MOVE TO NEXT HOLE _____

DEPTH IN FEET	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
	W			54' WATER
	W			54' CASING (N)
	W			54 to 72 NO RETURN
	W			72 GRAY CLAY SOFT AND SMOOTH
	W			82 BROWN THEN GRAY CLAY; SOFT & SMOOTH
20	W			98 TILL PEBBLY FINE GRAY SANDY MATRIX
	W			70% GRANITICS 30% VOLCANICS
	W			TRACE OF PYRITE IN VOLCANICS.
40	W			100 BEDROCK
	W			MEDIUM GREEN FINE GRAINED (MAFIC VOLCANIC)
	W			TRACE OF LINEATION NO FOLIATION
	W			10-15% CARBONATE QUITE HARD (DRILLING WENT VERY SLOWLY)
60				E.O.H. 102 feet
				BINOC. MICROSCOPE: light green medium-grained, massive gabbro carbonatized?
80				



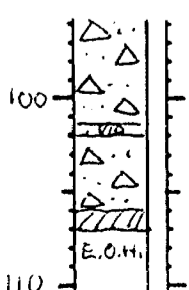
Matthew Bliss

OVERBURDEN DRILLING MANAGEMENT LIMITED
REVERSE CIRCULATION DRILL HOLE LOG

DATE MARCH 16 19 86 HOLE NO NMO-86-264 LOCATION h 14 W - 9+00 N
 GEOLOGIST X DRILLER BELLIVEAU BIT NO 667630 BIT FOOTAGE 229-336
 SHIFT HOURS _____ MOVE TO HOLE 1115-1130
 _____ TO _____ DRILL 1130-5:30
 TOTAL HOURS _____ MECHANICAL DOWN TIME _____
 _____ DRILLING PROBLEMS _____
 CONTRACT HOURS _____ OTHER _____
 _____ MOVE TO NEXT HOLE _____

DEPTH IN FEET	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
	W			WATER = 53 ft. easing = 54 ft.
	W			
20	W			NO RETURN 53' to 72'
	W			CLAY 72' to 90'
	W			- grey
30	W			- soft and smooth
	W			TILL 90' to 92'
	W			- fine sand matrix
40	W			- slightly cobbly
	W			- 60% Vol, 40% Granitic
	W			- some pyrite
50	W			BOULDER 92' to 93'
	W			- granitic
60				TILL 93' to 101.5'
				- fine sand matrix
				- 60% Vol, 40% Granitic
70				BOULDER 101.5' to 102'
				- mafic Vol.
				- medium to dark green
80				- some granitics
				- some quartz
90				TILL 102' to 106'
				- fine sand matrix
				- 60% Vol, 40% Granitics
				BEDROCK 106' to 107'

SAMPLE NO. 3 = 97'
 NO. 2 = 101.5'
 NO. 3 = 106'



- medium green
 - mafic Vol.
 - some quartz
 E.O.H. 107 ft.

BINOC. MICROSCOPE
 light to medium green
 weakly foliated, strong mineral
 lineation in some chips, minor py
 weakly stained, combined
 gabbro 2

OVERBURDEN DRILLING MANAGEMENT LIMITED
REVERSE CIRCULATION DRILL HOLE LOG

DATE MAR 17 1986
SHIFT HOURS _____ TO _____
TOTAL HOURS _____
CONTRACT HOURS _____

HOLE NO NMO-86-265 LOCATION L 14~~W~~ 11400N
GEOLOGIST D. JAMIESON DRILLER A. BELLINER BIT NO. B. 67630 BIT FOOTAGE 3364.76
MOVE TO HOLE 8-30-11-15
DRILL 8-30-11-15
MECHANICAL DOWN TIME _____
DRILLING PROBLEMS _____
OTHER _____
MOVE TO NEXT HOLE _____

DEPTH IN FEET	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
				68' WATER
				74' CASING
				68' - 92' No Return
				92' - 102' brown clay
				102' - 132' grey clay
80				TILL
				133' fine grey sandy matrix
				138' 50% volcanics
				50% g. unitis
100				Bedrock
				138' fine grained gabbro, weakly foliated, medium grained
				140' E.O.H
120				David Jamieson
				BINOC. MICROSCOPE: fine to medium grained, massive gabbro
140			01	
			02	

OVERBURDEN DRILLING MANAGEMENT LIMITED
REVERSE CIRCULATION DRILL HOLE LOG

(F)

DATE MAR 17 1986
SHIFT HOURS _____ TO _____
TOTAL HOURS _____
CONTRACT HOURS _____

HOLE NO NMO-86-267 LOCATION L18E 475N
GEOLOGIST _____ DRILLER _____ BIT NO. C867650 BIT FOOTAGE 559-64
MOVE TO HOLE 12:55 - 1:00
DRILL 1:00 - 4:30
MECHANICAL DOWN TIME _____
DRILLING PROBLEMS _____
OTHER _____
MOVE TO NEXT HOLE _____

DEPTH IN FEET	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
				36' WATER
				34' CASING
				36' - 42' No Return
				42' - 52' brown clay
				52' - 62' grey clay
20				
				TILL
				65' fine grey sandy matrix 50% volcanic 50% granitic
				70' gabbro or ultramafic intrusion
40				
				70.5' sparse fine grained sandy matrix very cobbly 70% volcanics 30% granitics
				75' very cobbly 90% volcanics altered schist 10% granitics fragments
60				
			01	<u>BED ROCK.</u>
			02	83' strongly foliated (sheared) strong siliceous alteration
			03	
80			04	
			05	85' F.O.H
				David Amis
100				

OVERBURDEN DRILLING MANAGEMENT LIMITED
 REVERSE CIRCULATION DRILL HOLE LOG

(F)

DATE MAR 18 1996

HOLE NO NM0-86-268 LOCATION L 18E 6725N
 GEOLOGIST D. JAMIESON DRILLER A. BELLINGHAM BIT NO. C.B. 67639 BIT FOOTAGE 0'-75'

SHIFT HOURS
 _____ TO _____

MOVE TO HOLE _____
 DRILL 9:00 - 10:30

TOTAL HOURS

MECHANICAL DOWN TIME _____

CONTRACT HOURS

DRILLING PROBLEMS _____

OTHER _____

MOVE TO NEXT HOLE _____

DEPTH IN FEET	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
				56' WATER
				54' CASING
				52' - 62' brown clay
				62' - 72' brown clay
20				TILL
				71' fine grey sandy matrix pebbly 60% volcanics 40% quartzites
40				<u>BEDROCK</u>
				72' strongly foliated mafic meta-volcanic 25% quartz 75' F.O.H.
60				<i>David Jamieson</i>
			01	
			02	
80				
100				

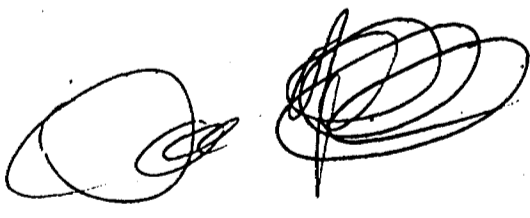
OVERBURDEN DRILLING MANAGEMENT LIMITED
 REVERSE CIRCULATION DRILL HOLE LOG

(F)

DATE MARCH 18 19 86
 SHIFT HOURS _____
 _____ TO _____
 TOTAL HOURS _____
 CONTRACT HOURS _____

HOLE NO NMD-96-269 LOCATION L20+00E 6+00N
 GEOLOGIST X DRILLER BELLIUSAU BIT NO. SB67639 BIT FOOTAGE 75'-130
 MOVE TO HOLE _____
 DRILL 12:00 - 2:00
 MECHANICAL DOWN TIME _____
 DRILLING PROBLEMS _____
 OTHER _____
 MOVE TO NEXT HOLE _____

DEPTH IN FEET	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
0	W			WATER 40ft. casing 44ft.
10	W			
20	W			CLAY 52' - grey - soft and gritty
30	W			
40	W			BEDROCK 52'to 55' - medium green - mafic Vol.
50	W			
60	W			E.O.H. 55ft.
70	W			NOTE: COMPRESSOR BROKE DOWN, SO RETURNS MIGHT BE SLIGHTLY OFF
80	W			
90	W			
100	W			





52F05SE0034 2.9621 ROWAN LAKE

#148-86
Mining claims traversed in this form, attach a list of its calculated in the section may be entered in "Days Cr." columns of areas below.

900

Type of Survey(s): **REVERSE CIRCULATION DRILLING**

Claim Holder(s): **NUINSCO RESOURCES LTD.**

Address: **SUITE 306, 4198 DUNDAS ST. W. TORONTO, ONT. M8X 1Y6**

Survey Company: _____

Date of Survey (from & to):
Day | Mo. | Yr. | Day | Mo. | Yr.
01 | 86 | | 03 | 86 |

Name and Address of Author (of Geo Technical report):
PAUL L. JONES, 2 SPARROW WAY, OTTAWA, ONT., K1V 9H5

Township or Area: **ROWAN LAKE (52F15) M-2680**

Prospector's Licence No.: **T-909**

Total Miles of line Cut: _____

Credits Requested per Each Claim in Columns at right

Special Provisions	Geophysical	Days per Claim
For first survey: Enter 40 days. (This includes line cutting)	Electromagnetic	
For each additional survey: using the same grid: Enter 20 days (for each)	Radiometric	
	Other	
Man Days Complete reverse side and enter total(s) here	Geophysical	Days per Claim
<div style="border: 1px solid black; padding: 5px; width: fit-content;"> <p>RENOVA MINING DIV. REVERSE DRILLING NOV - 4 1986 AM 7 8 9 10 11 12 1 2 3 4 5 6</p> </div>	Electromagnetic	
	Magnetometer	
	Radiometric	
Note: Special provisions credits do not apply to Airborne Surveys.	Electromagnetic	
	Magnetometer	
	Radiometric	

Mining Claims Traversed (List in numerical sequence)

Mining Claim			Mining Claim		
Prefix	Number	Expend. Days Cr.	Prefix	Number	Expend. Days Cr.
K	657787	60	K	690661	60
	657788	60		690662	60
	657794	60		690663	60
	657795	60		690664	60
	657796	60		690665	60
	657797	60		690666	60
	657798	60		690667	60
	657799	60		690668	60
	657800	60		690669	60
	690647	60		690670	60
	690648	60		690671	60
	690649	60		690672	60
	690650	60		690673	60
	690651	60		690674	60
	690652	60		690675	60
	690653	60		690676	60
	690654	60		690677	60
	690655	60		690682	60
	690656	60		690683	60
	690657	60		690684	60
	690658	60		690685	60
	690659	60		690686	60
	690660	60		690687	60

612287

Expenditures (excludes power stripping)

Type of Work Performed: **REVERSE CIRCULATION DRILLING**

Performed on Claim(s): **PLEASE REFER TO ATTACHED LIST.**

Calculation of Expenditure Days Credits

Total Expenditures: **\$139,801.** ÷ **15** = **9320** CLAIMED

Total Days Credits: **7560**

Instructions: Total Days Credits may be apportioned at the claim holder's choice. Enter number of days credits per claim selected in columns at right.

Date: **03/11/86**

Recorded Holder or Agent (Signature): **Paul L Jones (as agent)**

For Office Use Only

Total Days Credits Recorded: **7560**

Date Recorded: **Nov 4/86**

Date Approved as Recorded: _____

Mining Recorder: _____

Branch Director: _____

Certification Verifying Report of Work

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

Name and Postal Address of Person Certifying: **PAUL L JONES 2 SPARROW WAY OTTAWA, ONT. K1V 9H5**

Date Certified: **03/11/86**

Certified by (Signature): **Paul L Jones**



Mining Act

Type of Survey(s)		Township or Area	
Claim Holder(s)		Prospector's Licence No.	
Address			
Survey Company	Date of Survey (from & to)		Total Miles of line Cut
		Day Mo. Yr.	Day Mo. Yr.
Name and Address of Author (of Geo Technical report)			

ROWAN LAKE CLAIMS CONT.

Credits Requested per Each Claim in Columns at right

Mining Claims Traversed (List in numerical sequence)

Special Provisions	Geophysical	Days per Claim
For first survey: Enter 40 days. (This includes line cutting)	- Electromagnetic	
	- Magnetometer	
	- Radiometric	
For each additional survey: using the same grid: Enter 20 days (for each)	- Other	
	Geological	
	Geochemical	
Man Days	Geophysical	Days per Claim
Complete reverse side and enter total(s) here	- Electromagnetic	
	- Magnetometer	
	- Radiometric	
	- Other	
	Geological	
	Geochemical	
Airborne Credits		Days per Claim
Note: Special provisions credits do not apply to Airborne Surveys.	Electromagnetic	
	Magnetometer	
	Radiometric	

Mining Claim			Mining Claim		
Prefix	Number	Expend. Days Cr.	Prefix	Number	Expend. Days Cr.
K	690688	60	K	690723	60
	690689	60		690724	60
	690690	60		690725	60
	690691	60		690733	60
	690704	60		690734	60
	690705	60		690735	60
	690706	60		690736	60
	690707	60		690737	60
	690708	60		690738	60
	690709	60		690739	60
	690710	60		690740	60
	690711	60		690741	60
	690712	60		690742	60
	690713	60		690789	60
	690714	60		705964	60
	690715	60		705965	60
	690716	60		705966	60
	690717	60		705967	60
	690718	60		718782	60
	690719	60		718783	60
	690720	60		718784	60
	690721	60		718785	60
	690722	60		718811	60

Expenditures (excludes power stripping)

Type of Work Performed

Performed on Claim(s)

Calculation of Expenditure Days Credits

Total Expenditures ÷ 15 = Total Days Credits

Instructions
Total Days Credits may be apportioned at the claim holder's choice. Enter number of days credits per claim selected in columns at right.

Total number of mining claims covered by this report of work. 127

For Office Use Only	
Total Days Cr. Recorded	Date Recorded
Mining Recorder	
Date Approved as Recorded	Branch Director

Date	Recorder Holder or Agent (Signature)
------	--------------------------------------

Certification Verifying Report of Work

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

Name and Postal Address of Person Certifying

Date Certified

Certified by (Signature)

Report of Work
(Geophysical, Geological, Geochemical and Expenditures)

Instructions: - Please type or print. #148-86
- If number of mining claims traversed exceeds space on this form, attach a list.
Note: - Only days credits calculated in the "Expenditures" section may be entered in the "Expend. Days Cr." columns.
- Do not use shaded areas below.

Mining Act

Type of Survey(s)		Township or Area	
Claim Holder(s)		Prospector's Licence No.	
Address			
Survey Company	Date of Survey (from & to)	Total Miles of line Cut	
		Day Mo. Yr.	Day Mo. Yr.
Name and Address of Author (of Geo-Technical report)			

ROWAN LAKE CLAIMS CONT.

Credits Requested per Each Claim in Columns at right

Mining Claims Traversed (List in numerical sequence)

Special Provisions	Geophysical	Days per Claim
For first survey: Enter 40 days. (This includes line cutting)	Electromagnetic	
	Magnetometer	
For each additional survey: using the same grid: Enter 20 days (for each)	Radiometric	
	Other	
	Geological	
	Geochemical	
Man Days	Geophysical	Days per Claim
Complete reverse side and enter total(s) here	Electromagnetic	
	Magnetometer	
	Radiometric	
	Other	
	Geological	
	Geochemical	
Airborne Credits	Geophysical	Days per Claim
Note: Special provisions credits do not apply to Airborne Surveys.	Electromagnetic	
	Magnetometer	
	Radiometric	

Mining Claim		Expend. Days Cr.	Mining Claim		Expend. Days Cr.
Prefix	Number		Prefix	Number	
K	612287	60	K	612314	60
	612288	60		666284	60
	612289	60		666285	60
	612290	60		666286	60
	612291	60		666289	60
	612292	60		666290	60
	612293	60		666291	60
	612294	60		666292	60
	612295	60		666293	60
	612296	60		690760	60
	690696	60		690761	60
	690697	60		690775	60
	690698	60			
	690758	60			
	690759	60			
	690784	60			
	690785	60			
	690786	60			
	690787	60			
	612305	60			
	612307	60			
	612308	60			
	612309	60			

Expenditures (excludes power stripping)

Type of Work Performed

Performed on Claim(s)

Calculation of Expenditure Days Credits

Total Expenditures ÷ 15 = Total Days Credits

Instructions: Total Days Credits may be apportioned at the claim holder's choice. Enter number of days credits per claim selected in columns at right.

Total number of mining claims covered by this report of work. 127

For Office Use Only

Total Days Cr. Recorded	Date Recorded	Mining Recorder
Date Approved as Recorder	Branch Director	

Date	Recorder Holder or Agent (Signature)
------	--------------------------------------

Certification Verifying Report of Work

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

Name and Postal Address of Person Certifying

Date Certified	Certified by (Signature)
----------------	--------------------------

February 6, 1987

Your File: 148-86

Our File: 2.9621

Mining Recorder
Ministry of Northern Development and Mines
808 Robertson Street
Box 5050
Kenora, Ontario
P9N 3X9

Dear Sir:

RE: Overburden Drilling submitted on Mining Claims
K 612287, et al, in the Area of Rowan Lake

The enclosed statement of assessment work credits for Overburden
Drilling has been approved as of the above date.

Please inform the recorded holder of these mining claims and
so indicate on your records.

Yours sincerely,

J.C. Smith, A/Manager
Mining Lands Section
Mineral Development and Lands Branch
Mines and Minerals Division

Whitney Block, Room 6610
Queen's Park
Toronto, Ontario
M7A 1W3

Telephone: (416) 965-4888

DK/mc

cc: Nuinsco Resources Ltd
Suite 306
4198 Dundas Street West
Toronto, Ontario
M8X 1Y6

Paul L. Jones
2 Sparrow Way
Ottawa, Ontario
K1V 9H5

Resident Geologist
Kenora, Ontario

Encl.



Recorded Holder
NUINSCO RESOURCES LTD

Township or Area
ROWAN LAKE AREA

Type of survey and number of Assessment days credit per claim	Mining Claims Assessed
Geophysical Electromagnetic _____ days Magnetometer _____ days Radiometric _____ days Induced polarization _____ days Other _____ days Section 77 (19) See "Mining Claims Assessed" column Geological _____ days Geochemical _____ days Man days <input type="checkbox"/> Airborne <input type="checkbox"/> Special provision <input type="checkbox"/> Ground <input type="checkbox"/> <input type="checkbox"/> Credits have been reduced because of partial coverage of claims. <input type="checkbox"/> Credits have been reduced because of corrections to work dates and figures of applicant.	\$139,801.00 SPENT ON OVERBURDEN DRILLING ON MINING CLAIMS: K 612287 612290 657787 666286 666290 to 92 inclusive 690668 690672 690675 690676-77 690680 690696-97 690706 690723 to 25 inclusive 690733-34 690789 to 91 inclusive 690796 to 99 inclusive 705967 718783 7560 ASSESSMENT WORK DAYS ARE ALLOWED WHICH MAY BE GROUPED IN ACCORDANCE WITH SECTION 76(6) OF THE MINING ACT.

Special credits under section 77 (16) for the following mining claims

No credits have been allowed for the following mining claims

not sufficiently covered by the survey insufficient technical data filed

The Mining Recorder may reduce the above credits if necessary in order that the total number of approved assessment days recorded on each claim does not exceed the maximum allowed as follows: Geophysical - 80; Geological - 40; Geochemical - 40; Section 77(19) - 60.

List of Claims traversed by the Reverse Circulation Drilling Programme

	<u>Monte Cristo</u>	<u>Tantalus</u>	<u>Calaveras/Nuinsco</u>
X	657787		
	657789	612287	666290
	690668	690696	666291
	690671	690697	666292
	690672	690786	666286
	690675		
	690676		
	690706		
	690723		
	690724		
	690725		
	690733		
	690734		
	690789		
	705967		

Please refer to invoices for specific (actual) expenditures claimed.

NUINSCO RESOURCES LIMITED

EXECUTIVE OFFICES
SUITE 306
4198 DUNDAS ST. WEST
TORONTO, ONTARIO M8X 1Y6
(416) 231-5603

RC Drilling Expenditures Winter 1986

Contractor

Bradley Bros. D.D. Ltd.		
31,440' @ \$185/hr.	\$	195,545.00
Mob. & Demob.		6,000.00
Downtime		2,220.00
Downhole consumables		38,920.75
Meals		<u>20,616.00</u>
		263,301.75
 Students		
Wages		23,900.00
" Vacation Pay		956.00
" C.P.P.		373.95
" U.I.C.		730.38
Travel Exp.		<u>2,558.00</u>
		28,518.33
 Overburden Management		
Set-up fees		4,226.10
		4,226.18
 ATCO:		
Accommodation & wash-house:		14,859.65
		14,859.65
 Don Maceachern		
Linecutting		9,562.50
		9,562.50
 Geological Fees:		
Hunter & Jones		6,250.00
		6,250.00
 Geological Wages:		
Neville & Tomalty		2,020.00
		2,020.00
 Vehicles:		
Suburban		2,100.00
4 WD Pickup		1,650.00
Dump Truck, Plow		3,000.00
Tilden Truck		<u>2,400.00</u>
		9,150.00
 TOTAL COST:		\$ <u>337,888.33</u>
	= \$10.75/Ft.	

BRADLEY BROS. LIMITED

January 15, 1986

CONTRACT DIAMOND DRILLING

Nuinsco Resources Limited
Suite 306 - 4198 Dundas St. West
Toronto, Ontario M8X 1Y6

ch. 762. Fe 18/86

HOLE No.	TO COVER DIAMOND DRILLING FOR			FOOTAGE COMPLETED	
	FROM	TO	January 8 to 15, 1986		
<u>Rowan Lake Area</u>					
	Mobilization & demobilization				\$6,000 00
NMO-85-01	0'	30'	30'		
-02	0'	22'	22'		
-03	0'	26'	26'		
-04	0'	72'	72'		
-05	0'	102'	102'		
	<i>5 holes</i>				
	Operating hours				
	39 hours			\$185.00	7,215 00
	Down the hole consumables				
	1 Tricone bit			\$650.00 - \$650.00	
	1 Adaptor			465.00 - 465.00	
				<u>1115.00</u>	
	Plus 15%			<u>167.25</u>	1,282 25
	Cost to move and set-up				
	new kitchen				
	84 man hours			26.00	2,184 00
	5 tractor hours			40.00	200 00
	Room & Board				
	20 man days			45.00	900 00
	Meals				
	57 meals			7.00	399 00
					<u>\$18,180 25</u>

*OK
G.S.V.*

BRADLEY BROS. LIMITED

January 31, 1986

CONTRACT DIAMOND DRILLING

Nuinsco Resources Limited
Suite 306, 4198 Dundas St. West
Toronto, Ontario M8X 1Y6

HOLE No.	TO COVER DIAMOND DRILLING FOR: January 21 to 31, 1986				
	FROM	TO	FOOTAGE COMPLETED		
	<u>Rowan Lake</u>				
	Mobilization & Demobilization				\$6,000 00
40-85-46	0'	126'	126'		
47	0'	51'	51'		
48	0'	86'	86'		
49	0'	70'	70'		
53	0'	39'	39'		
55	0'	35'	35'		
57	0'	24'	24'		
59	0'	36'	36'		
61	0'	86'	86'		
63	0'	76'	76'		
65	0'	110'	110'		
67	0'	61'	61'		
69	0'	86'	86'		
71	0'	129'	129'		
73	0'	57'	57'		
75	0'	25'	25'		
77	0'	49'	49'		
79	0'	39'	39'		
81	0'	28'	28'		
83	0'	51'	51'		
85	0'	74'	74'		
87	0'	55'	55'		
89	0'	117'	117'		
91	0'	43'	43'		
93	0'	63'	63'		
95	0'	125'	125'		
97	0'	100'	100'		
99	0'	192'	192'		
101	0'	142'	142'		
103	0'	60'	60'		
105	0'	57'	57'		
107	0'	158'	158'		
			<u>2450'</u>		

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FORWARD

DLEY

January 31, 1986

DATED

CONTRACT DIAMOND DRILLING

Nuinsco Resources Limited
Suite 306, 4198 Dundas St. West
Toronto, Ontario M8X 1Y6

HOLE No.	TO COVER DIAMOND DRILLING FOR		January 21 to 31, 1986	
	FROM	TO	FOOTAGE COMPLETED	
	Operating hours 111 hours		\$185.00	20,535 00
	Down the hole consumables			
	5 tricone bits	\$650.00 -	\$3250.00	
	2 Adaptors	465.00 -	930.00	
	3 RC Rods	430.00 -	1290.00	
			<u>5470.00</u>	
	Plus 15%		820.50	6,290 50
	Casing left in holes			
	NMO-85-46 -	32'		
	NMO-85-61 -	20'		
		<u>52'</u>		
	52' NW Casing		14.90	774 80
	Room & Board			
	11 days X 3 men =	33 X \$45.00		1,485 00
				<u>\$35,085 30</u>

BRADLEY BROS. LIMITED

January 31, 1986

CONTRACT DIAMOND DRILLING

Nuinsco Limited
Suite 306, 4198 Dundas St. West
Toronto, Ontario M8X 1Y6

HOLE No.	TO COVER DIAMOND DRILLING FOR January 16 to 31, 1986		
	FROM	TO	FOOTAGE COMPLETED
MO-85-06	0'	14'	14'
7	0'	66'	66'
8	0'	75'	75'
9	0'	100'	100'
10	0'	112'	112'
11	0'	42'	42'
12	0'	52'	52'
13	0'	39'	39'
14	0'	82'	82'
15	0'	102'	102'
16	0'	42'	42'
17	0'	24'	24'
18	0'	18'	18'
19	0'	44'	44'
20	0'	65'	65'
21	0'	100'	100'
22	0'	76'	76'
23	0'	32'	32'
24	0'	24'	24'
25	0'	52'	52'
26	0'	85'	85'
27	0'	14'	14'
28	0'	47'	47'
29	0'	72'	72'
30	0'	97'	97'
31	0'	59'	59'
32	0'	24'	24'
33	0'	40'	40'
34	0'	58'	58'
35	0'	98'	98'
36	0'	127'	127'
37	0'	57'	57'
38	0'	84'	84'
39	0'	66'	66'
40	0'	95'	95'
41	0'	135'	135'
42	0'	162'	162'
43	0'	92'	92'

(25)

FORWARD

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BRADLEY BROS. LIMITED

January 31, 1986

CONTRACT DIAMOND DRILLING

Nuinsco Limited
Suite 306, 4198 Dundas St. West
Toronto, Ontario M8X 1Y6

HOLE No.	TO COVER DIAMOND DRILLING FOR		
	FROM	TO	January 16 to 31, 1986 FOOTAGE COMPLETED
NMO-85-44	0'	106'	106'
45	0'	152'	152'
50	0'	7'	7'
51	0'	35'	35'
52	0'	9'	9'
54	0'	52'	52'
56	0'	9'	9'
58	0'	7'	7'
60	0'	61'	61'
62	0'	12'	12'
64	0'	45'	45'
66	0'	62'	62'
68	0'	46'	46'
70	0'	32'	32'
72	0'	72'	72'
74	0'	24'	24'
76	0'	31'	31'
78	0'	59'	59'
80	0'	134'	134'
82	0'	59'	59'
84	0'	78'	78'
86	0'	47'	47'
88	0'	73'	73'
90	0'	90'	90'
92	0'	50'	50'
94	0'	29'	29'
96	0'	24'	24'
98	0'	34'	34'
100	0'	32'	32'
102	0'	48'	48'
104	0'	168'	168'
106	0'	128'	128'
108	0'	176'	176'
110	0'	154'	154'
			<u>4718</u>
	Operating hours		
	161 hours		\$185.00
			\$29,785 00

FORWARD

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BRADLEY BROS. LIMITED

January 31, 1986

CONTRACT DIAMOND DRILLING

Nuinsco Limited
Suite 306, 4198 Dundas St. West
Toronto, Ontario MBX 1Y6

HOLE No.	TO COVER DIAMOND DRILLING FOR		January 16 to 31, 1986 FOOTAGE COMPLETED		
	FROM	TO			
			Down the hole consumables		
			6 tricone bits \$650.00 - \$3900.00		
			1 Adaptor 465.00 - 465.00		
				<u>4365.00</u>	
			Plus 15%	<u>654.75</u>	5,019 75
			NW Casing left in hole		
			NMO-85-25 - 22'		
			NMO-85-78 - 12'		
			34'	\$14.90	506 60
					5526 25
			Room & Board		
			4 men X 16 days	45.00	2,880 00
					<u>\$38,191 35</u>

BRADLEY BROS. LIMITED

March 15, 1986

CONTRACT DIAMOND DRILLING

Nuineco Resources Limited
Suite 306 - 4198 Dundas St. West
Toronto, Ontario
MBX 1Y6

HOLE No.	TO COVER DIAMOND DRILLING FOR				
	FROM	TO	FOOTAGE COMPLETED		
			March 5 to 15, 1986		
			Down the hole consumables		
			3 tricone bits \$650.00 - \$1950.00		
			1 Adaptor 465.00 - 465.00		
			<u>2415.00</u>		
			Plus 15%	<u>362.25</u>	2,777 25
			Room & Board		
			3 men X 6 days X \$45.00		810 00
					<u>\$15,427 25</u>

BRADLEY B. OS. LIMITED

March 15, 1986

CONTRACT DIAMOND DRILLING

Nuinsco Resources Limited
Suite 306 - 4198 Dundas St. West
Toronto, Ontario
M8X 1Y6

HOLE No.	TO COVER DIAMOND DRILLING FOR			
	FROM	TO	FOOTAGE COMPLETED	
<u>Rowan Lake Area</u>				
NMO-196	0'	34'	34'	
198	0'	34'	34'	
200	0'	40'	40'	
202	0'	87'	87'	
204	0'	87'	87'	
206	0'	52'	52'	
208	0'	21'	21'	
SLO- 41	0'	162'	162'	
42	0'	163'	163'	
43	0'	144'	144'	
44	0'	162'	162'	
NMO-86-237	0'	172'	172'	
239	0'	170'	170'	
241	0'	167'	167'	
243	0'	147'	147'	
245	0'	142'	142'	
247	0'	178'	178'	
249	0'	147'	147'	
251	0'	165'	165'	
253	0'	157'	157'	
255	0'	166'	166'	
257	0'	162'	162'	
SLO- 46	0'	82'	82'	
48	0'	142'	142'	
50	0'	182'	182'	
NMO-258	0'	132'	132'	
259	0'	98'	98'	
260	0'	108'	108'	
261	0'	132'	132'	
262	0'	125'	125'	
Operating hours 64 hours			\$185.00	\$11,840 00

FORWARD

Ruinco Resources Limited
 Suite 306 - 4198 Dundas St. West
 Toronto, Ontario
 M8X 1Y6

HOLE No.

TO COVER DIAMOND DRILLING FOR

March 3 to 15, 1986

FROM

TO

FOOTAGE COMPLETED

Rowan Lake Area

NMO-205	0'	10'	10'
207	0'	42'	42'
209	0'	34'	34'
211	0'	36'	36'
213	0'	22'	22'
215	0'	62'	62'
217	0'	66'	66'
219	0'	45'	45'
221	0'	67'	67'
223	0'	27'	27'
225	0'	47'	47'
227	0'	36'	36'
229	0'	30'	30'
231	0'	39'	39'
233	0'	15'	15'
210	0'	51'	51'
212	0'	55'	55'
214	0'	39'	39'
216	0'	50'	50'
218	0'	36'	36'
220	0'	72'	72'
222	0'	54'	54'
224	0'	74'	74'
226	0'	62'	62'
228	0'	47'	47'
230	0'	76'	76'
232	0'	48'	48'
234	0'	27'	27'
236	0'	24'	24'
238	0'	64'	64'
240	0'	50'	50'
242	0'	20'	20'
244	0'	27'	27'
246	0'	34'	34'
248	0'	32'	32'
250	0'	80'	80'

FORWARD

BRADLEY BROS. LIMITED

March 15, 1986

CONTRACT DIAMOND DRILLING

Nalusco Resources Limited
Suite 306 - 4198 Dundas St. West
Toronto, Ontario
M8X 1Y6

HOLE No.	TO COVER DIAMOND DRILLING FOR				
	FROM	TO	FOOTAGE COMPLETED		
	March 3 to 15, 1986				
NHO-252	0'	72'	72'		
254	0'	60'	60'		
256	0'	99'	99'		
SLO-86-45	0'	147'	147'		
47	0'	100'	100'		
49	0'	82'	82'		
51	0'	76'	76'		
53	0'	111'	111'		
55	0'	160'	160'		
57	0'	147'	147'		
52	0'	162'	162'		
54	0'	174'	174'		
56	0'	199'	199'		
Operating hours 61 hours				\$185.00	\$11,285 00
Down the hole consumables					
4 tricone bits \$650.00 - \$2600.00					
1 Adaptor 465.00 - 465.00					
				<u>3065.00</u>	
Plus 15%				<u>459.75</u>	3,524 75
Room & Board					
3 men X 6 days X \$45.00					810 00
1 man X 11 days X \$45.00					495 00
					<u>\$16,114 75</u>

BRADLEY LTD. LIMITED

March 31, 1986

CONTRACT DIAMOND DRILLING

Husaco Resources Limited
Suite 306 - 4198 Dundas St. West
Toronto, Ontario M8X 1Y6

HOLE No.	TO COVER DIAMOND DRILLING FOR				
	FROM	TO	FOOTAGE COMPLETED		
	March 16 to 31, 1986				
	<u>Rowan Lake Area</u>				
NMO-262	125'	127'	2'		
263	0'	102'	102'		
264	0'	107'	107'		
265	0'	140'	140'		
266	0'	83'	83'		
267	0'	85'	85'		
268	0'	75'	75'		
269	0'	55'	55'		
NCO-86-10	0'	72'	72'		
11	0'	77'	77'		
12	0'	106'	106'		
13	0'	63'	63'		
14	0'	76'	76'		
15	0'	52'	52'		
16	0'	32'	32'		
17	0'	72'	72'		
18	0'	110'	110'		
19	0'	86'	86'		
	Operating hours				
	74 hours			\$185.00	\$13,690 00
	Down the hole consumables				
	1 tricone bit \$650.00				
	Plus 15% 97.50				747 50
	Downtime				
	5 hours			185.00	925 00
	Room & Board				
	4 men X 8 days X \$45.00				1,440 00
					<u>\$16,802 50</u>

ROWAN LAKE

DISTRICT OF KENORA

KENORA MINING DIVISION

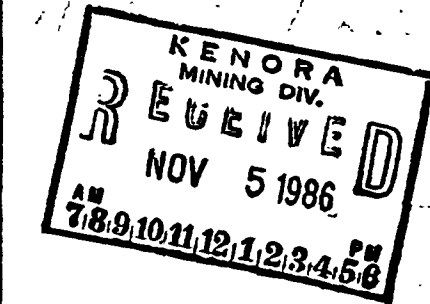
SCALE: 1-INCH = 40 CHAINS

LEGEND

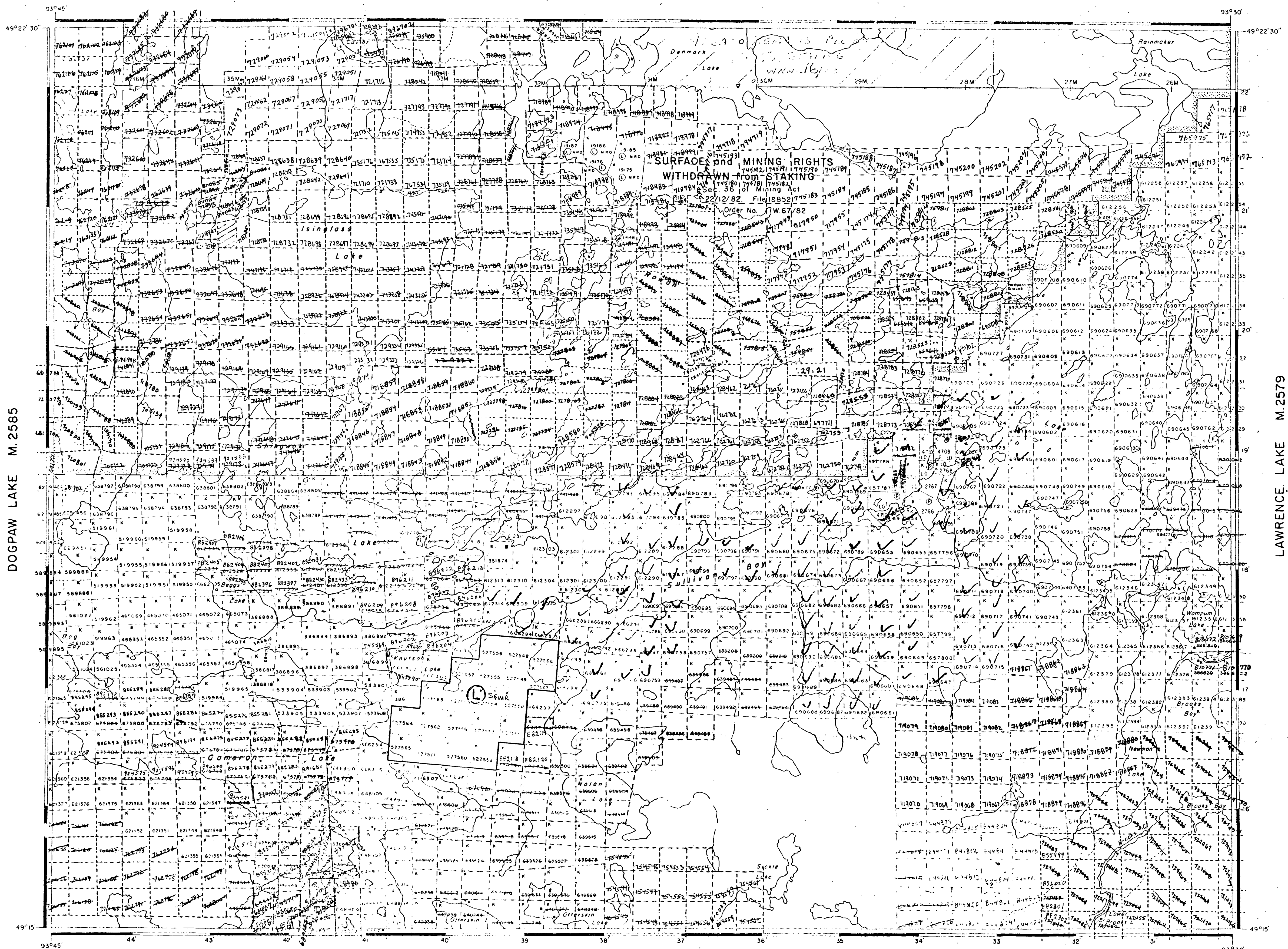
- PATENTED LAND ● or ⊙
- CROWN LAND SALE CS
- LEASES L
- LOCATED LAND Loc
- LICENSE OF OCCUPATION LO
- MINING RIGHTS ONLY MRO
- SURFACE RIGHTS ONLY SRO
- ROADS —
- IMPROVED ROADS —
- KING'S HIGHWAYS —
- RAILWAYS —
- POWER LINES —
- MARSH OR MUSKEG —
- MINES X
- CANCELLED C
- PATENTED SRO ⊙

NOTES

400' Surface Rights Reservation along the shores of all lakes and rivers.



Effective as shown



DOGPAW LAKE M. 2585

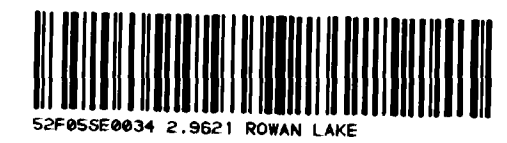
LAWRENCE LAKE M. 2579

BROOKS LAKE M. 2473

NATIONAL TOPOGRAPHIC SERIES 52F5

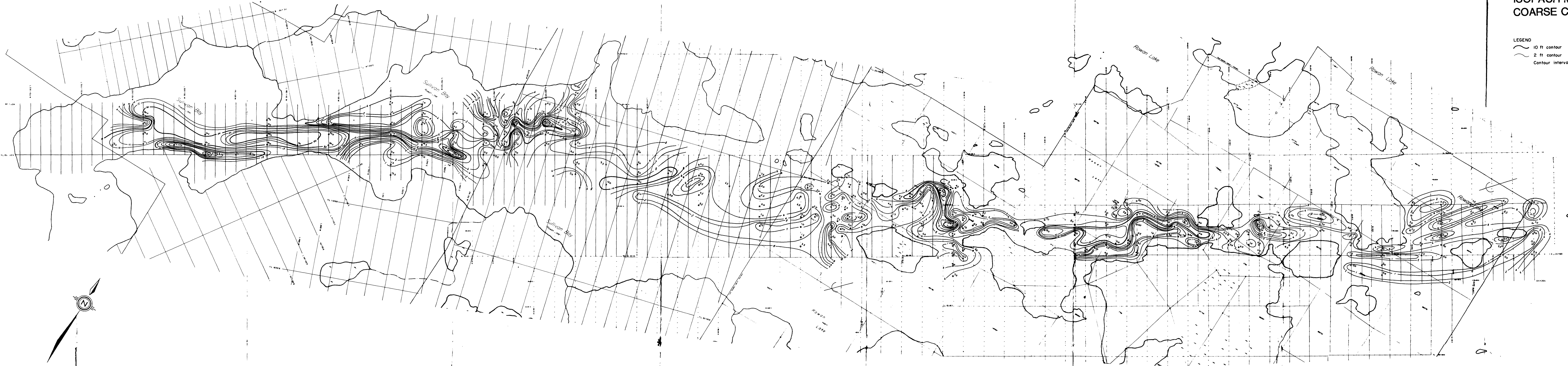
PLAN NO. M.2580

ONTARIO
MINISTRY OF NATURAL RESOURCES
SURVEYS AND MAPPING BRANCH



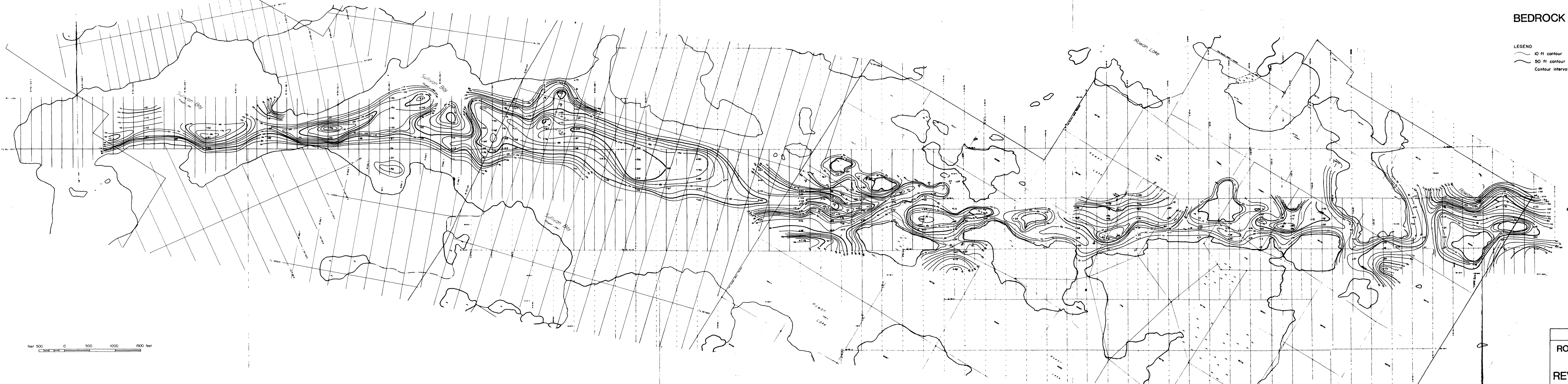
**ISOPACH MAP
COARSE CLASTIC THICKNESS**

LEGEND
 10 ft contour
 2 ft contour
 Contour interval 2'



BEDROCK CONTOURS

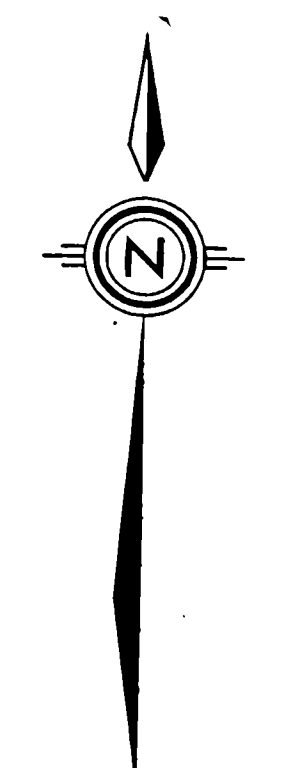
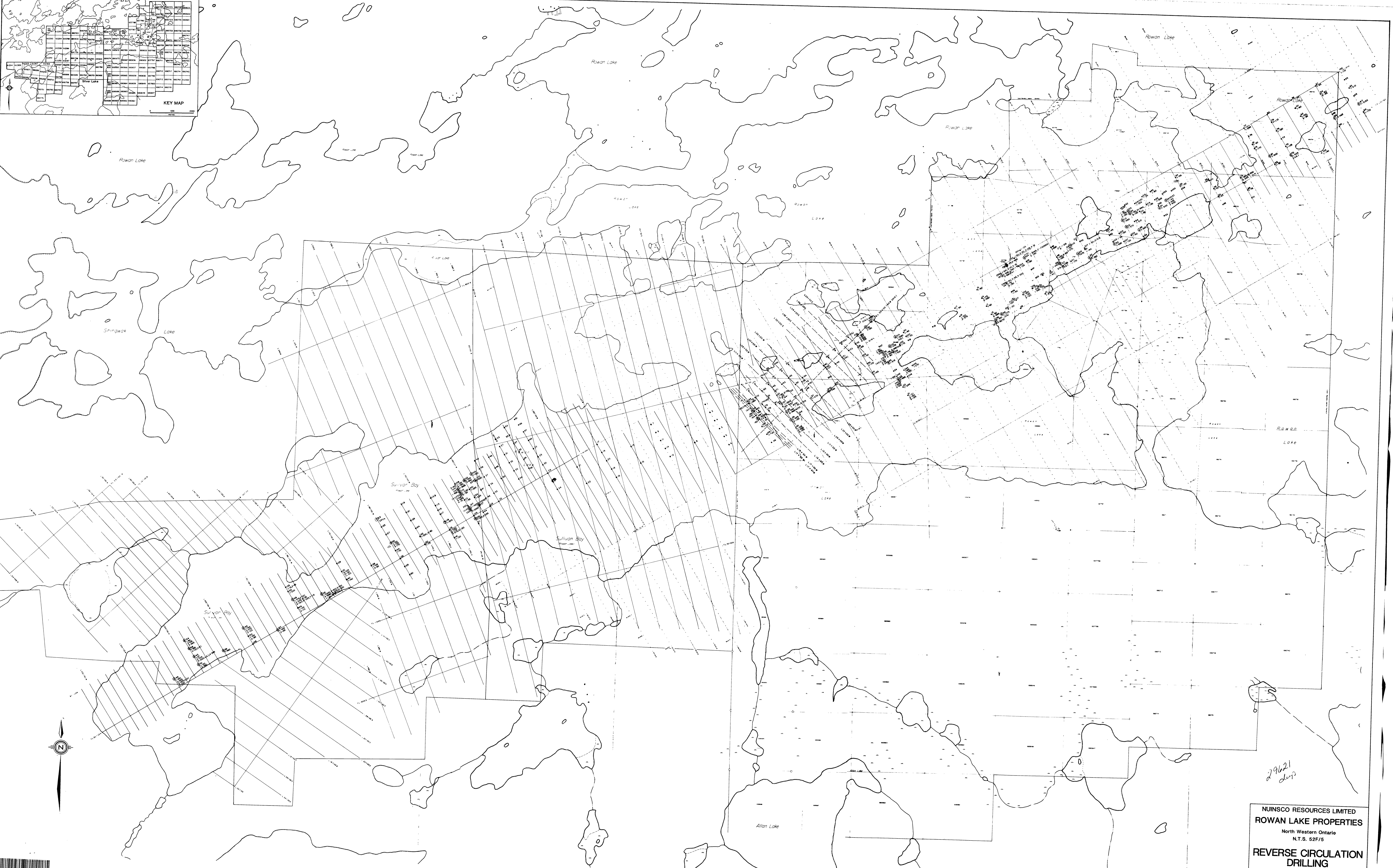
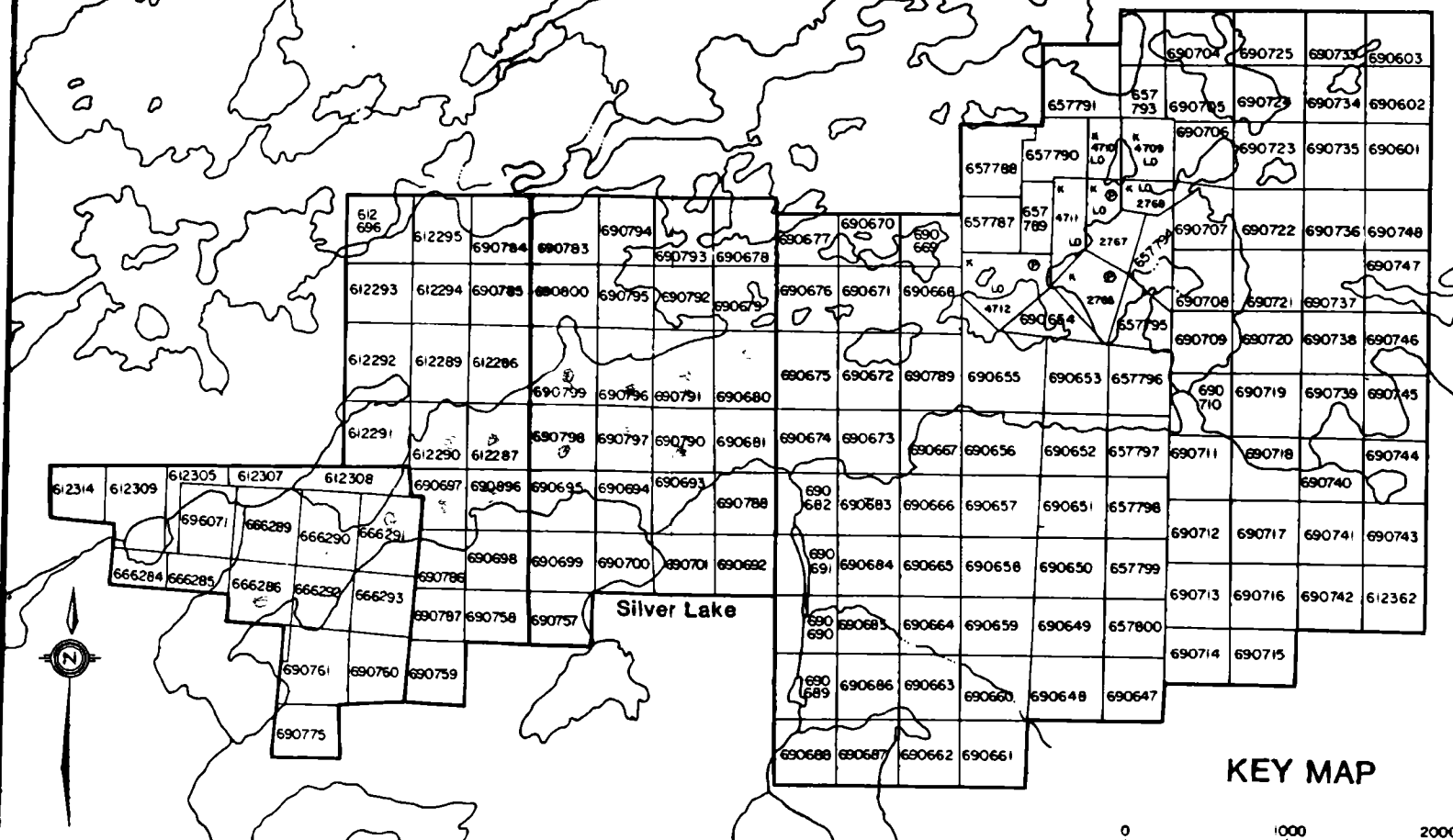
LEGEND
 10 ft contour
 50 ft contour
 Contour interval 10 ft



feet 500 0 500 1000 1500

29621
 dup

Nuinsco Resources Ltd.
ROWAN LAKE PROPERTIES
 Northwestern Ontario
 N.T.S. 52F/5
**REVERSE CIRCULATION
 DRILLING PROGRAM**
 Date _____ Plan No. _____



29621
Lup

NUINSCO RESOURCES LIMITED
 ROWAN LAKE PROPERTIES
 North Western Ontario
 N.T.S. 52F/5
 REVERSE CIRCULATION
 DRILLING

