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CHESBAR RESOURCES INC.
Drill Hole Logs
1987 Reverse Circulation Drilling
Mikwam River Property
Tomlinson & Newman Twps, Ontario
by
Overburden Exploration Services Ltd
V.II



42H08NE0049 2.10047 NEWMAN

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Report Volumes

Volume I - Report on Reverse Circulation Overburden Drilling,
Mikwam River Property, Tomlinson and Newman Townships,
Ontario, for Chesbar Resources Inc.

Volume II - Reverse Circulation Drillhole Logs, Mikwam River
Property, Tomlinson and Newman Townships, Ontario,

APPENDICES

- A. Technical Data Statement
- B. Heavy Mineral Concentrate Laboratory Logs

1 INTRODUCTION

1.1 General

The following report, prepared by Overburden Exploration Services Ltd for Chesbar Resources Inc, describes a 72-hole program of reverse circulation drilling which has been carried out on the Mikwam River property in Newman and Tomlinson Townships, Ontario.

The Mikwam River property covers approximately 15 km of contact strike length between Archean metasedimentary and metavolcanic rocks. The overburden drilling program was designed to test the potential of this contact zone, in addition to a series of associated geophysical targets, as a host to economic gold mineralization.

Chesbar Resources Inc presently holds an option on the property which is jointly controlled by Grandad Resources Limited and Seal River Explorations Limited.

Drilling operations were conducted over a 35 day period, commencing on Jan.19/87, and finishing on Feb. 21/87.

Seventy-two holes were drilled over a total footage of 7,419.5 ft which translates to an average hole depth of 103 ft and an average drilling production rate of 212 ft per day. Downhole consumables amounted to 26 tricone bits (285 ft average life, or 1 bit/2.5 holes), 6 subs and 2 drillrods. A minimal amount of

mechanical downtime was experienced on this job. A total of 611 samples were taken; of these, 535 were overburden samples, with the remainder comprising bedrock chips.

Results of overburden and rock geochemical analyses are currently being studied to determine the presence of anomalous gold concentrations. Significant gold anomalies, and their possible relationship to geophysical targets, will form the basis for recommendations on future follow-up work.

1.2 Location and Access

The Mikwam River property is situated in Newman and Tomlinson Townships, 48 km north of Lake Abitibi in northeastern Ontario (Fig.1). This region falls within the jurisdiction of the Larder Lake Mining Division, Ministry of Northern Development and Mines. The property is specifically located 72 km northeast of Cochrane, Ontario and lies approximately 40 km west of the Quebec-Ontario border. The area is covered by National Topographic Series map 42 H/8, 1:50,000 scale.

Ground access is afforded by the all-weather Abitibi-Price Translimit Road, north of Iroquois Falls and east of Cochrane, Ontario. From Abitibi Camp 33 at Michel Lake, a winter road

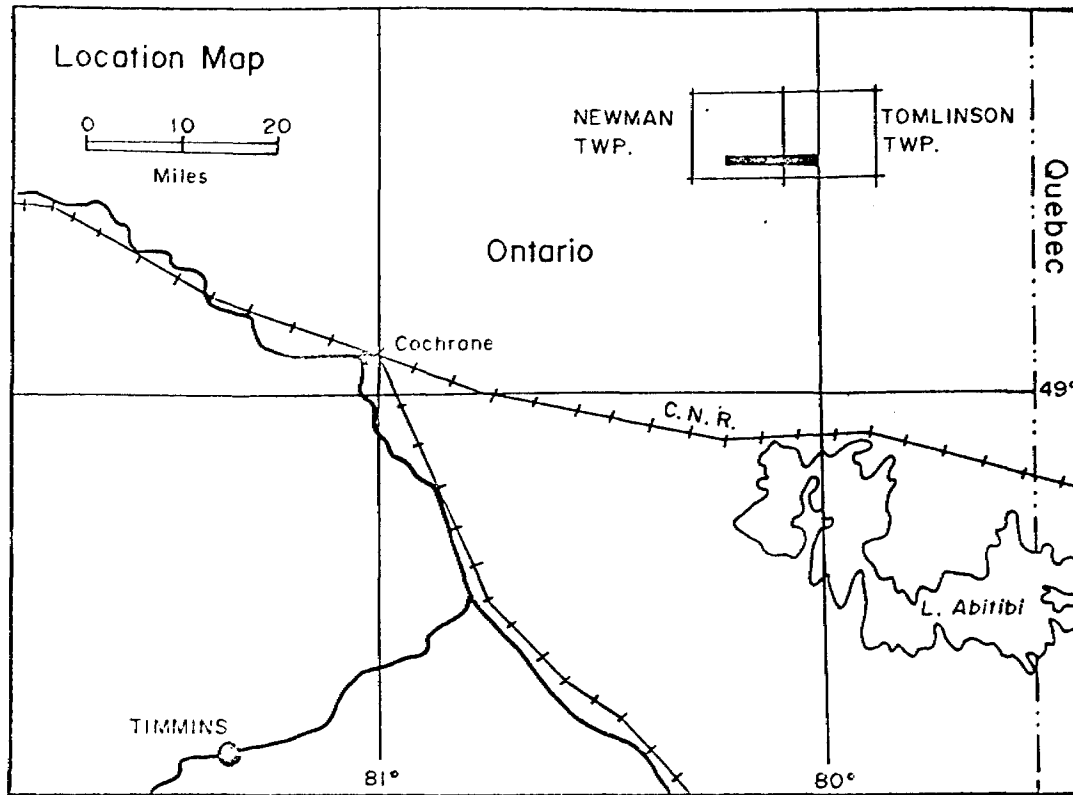


Figure 1. Regional Location, Mikwam River Property

extends 26 km northeastward to the Mikwam River property. The Detour all-weather road passes 16 km to the northwest of the claim group.

Helicopter service is available from Cochrane, Ontario (72 km southwest).

1.3 Property Description

The Mikwam River property consists of 105 contiguous claims which together, comprise an elongate east-west block covering approximately 15 km of favorable bedrock strike. The property lies within the jurisdiction of the Larder Lake mining division.

The following claims comprise the Mikwam River property:

Newman Township: 81 unpatented claims

L 738918 to L 738932 incl.

L 738936 to L 738947 incl.

L 738954 to L 738968 incl.

L 738972 to L 738986 incl.

L 801935 to L 801937 incl.

L 801914 to L 801934 incl.

Tomlinson Township: 24 unpatented claims

L 800080 to L 800103 incl.

Of the above listed claims, sixty are controlled by Grandad Resources Limited, with the remaining forty-five controlled by Seal River Explorations Limited. Chesbar Resources Inc currently holds an option on the Mikwam claim group in exchange for exploration expenditures.

The Mikwam River property is physiographically characterized as flat clay plain, with restricted local relief of less than 10 m attributable to stream erosion and diabase dikes. Although several small streams cross the property, its poorly drained surface is dominated by black spruce/sphagnum bogs. Heavier white spruce and poplar stands occur immediately adjacent to the larger watercourses such as the Burntbush River and Chabbie Creek.

1.4 Submitting Party

The submitting party is Overburden Exploration Services Ltd on behalf of Chesbar Resources Inc., 601-25 Adelaide St East, Toronto, Ontario. Program management was carried out by Overburden Exploration Services Ltd of Timmins, Ontario; A. Kuzma, geologist, was responsible for drill supervision and

logging, assisted by I. Arsenault, sampler (OES personnel). J.A. Richard (author) takes full responsibility for this report and its conclusions.

1.5 Previous Work

Geological mapping over the Mikwam River claim group was previously carried out by the Ontario Geological Survey (Wilson et. al., 1976), and showed that the property straddles approximately 15 km strike length over a major metavolcanic-metasedimentary contact. The metavolcanics consist of intermediate to basic tuffs and flows, and are flanked to the south by sandstone, mudstone, conglomerate and schist formations. All formations are cut by N-S trending diabase dikes.

Early exploration over the western 4 km of the claim group was carried out by Noranda Exploration in 1974, in search of base metals. Ground EM and magnetic surveys culminated in diamond drilling of one hole which intersected extremely sericitic-chloritic metavolcanics. Dome Exploration covered the eastern 1.6 km of the Mikwam River property in 1975 with both airborne and ground geophysics. Two diamond drill holes were completed, one of which intersected 34.7 m of pyritic dacite tuff along the volcano-sedimentary contact. A 1.5 m section within this larger interval yielded a 0.005 oz/ton gold assay.

In 1984, ground magnetometer and HEM surveys were completed over the entire Mikwam River property. This work has been reported by Derry, Mitchener, Booth and Wahl on behalf of Grandad Resources Ltd and Chesbar Resources Inc. Reverse circulation overburden drilling, reported herein, was recommended by DMBW to test the volcano-sedimentary contact and associated cross-cutting structures for gold mineralization.

1.6 Regional Quaternary Geology

The use of overburden drilling/geochemistry as an mineral exploration technique is largely predicated upon an understanding of (i) regional glacial history and depositional environments, (ii) local property stratigraphy and sedimentology, (iii) inter-relationships between the above. The following summary provides a background of regional Quaternary geology as understood currently.

General Quaternary geology and events in northeastern Ontario-northwestern Quebec have been described by Antevs (1928), Hughes (1959), Skinner (1973), Hardy (1977), Chauvin (1977), Chauvin and LaSalle (1978), Vincent and Hardy (1979), and Shilts (1980), Dyke et.al. (1982) and Veillette (1986). Subsurface

lithostratigraphy of the North Abitibi region has most recently been discussed by Sauerbrei et.al. (1985) and Bouchard et.al. (1986).

Three phases of regional glaciation are recorded in the Quaternary lithostratigraphic record present throughout much of the Abitibi region. In descending order of youngest to oldest, the Quaternary units occur as follows:

1) Cochrane Formation (Hughes, 1959)-Late Wisconsinan

Tan to brownish-grey, non-compact silty clays and clayey silts, locally pebbly, occurring as waterlain diamictons (sediment debris flows), minor till and overlying lacustrine silts and clays. Paleozoic carbonates occur 20-50%. Overlain by recent peat and humus, lower contact typically gradational to lacustrine Barlow-Ojibway (B-O) Fm. Essentially locally reworked B-O Fm created by late-glacial Cochrane ice surging into glaciolacustrine basins.

2) Barlow-Ojibway Formation (Hughes, 1959) or Upper

Sediments (Sauerbrei et.al., 1985)-Late Wisconsinan
Buff-grey, laminated, v.non-compact silts and clays, f-m.snds. These sediments reflect glaciolacustrine deposition in proglacial Lake Ojibway following final retreat of the main Laurentide ice sheet, but prior to the late-glacial Cochrane readvances. Also includes

c.snds and granule-pebble-cobble gravels deposited by glaciofluvial processes during final ice retreat. Polymictic, varied provenances, long-distance transport. Conformably overlain by the Cochrane Formation, conformably and unconformably underlain by glacial Matheson Formation.

3) Matheson Formation (Hughes, 1959) or Upper Till

(Sauerbrei et.al., 1985)-Wisconsinan

Grey sandy to clayey silt tills, and diamicton-debris flow sequences. Tills are typically moderate to very compact, 60-95% local lithologies indicating proximal sources where overlying bedrock. Unconformable active ice deposition by lodgement and conformable passive meltout processes. Locally coloured by weathered bedrock-derived clays. Diamicton-debris flow sequences consist of loose, v.poorly sandy-silty sediments, v.pebbly, 30-60% local lithologies, gradational upper contacts, frequent complex interbedding with minor sorted glaciofluvial sediments. This unit reflects subaqueous, ice-marginal and/or subglacial debris flow deposition, local to distant provenances. South to south-southeasterly (155-180 azimuth) ice flow directions.

4) Lower Sediments (Sauerbrei et.al., 1985)-Mid to Pre-Wisconsinan?

Non-glacial sediments similar to Barlow-Ojibway Fm.

Consists of lacustrine silts and clays (v.dense 'superclays'), f-c.sands and gravels (fluvial to glaciofluvial), v.polymictic. Upper and lower contacts generally unconformable. Known to contain organics and definite paleosols (interglacial or interstadial?) in the Timmins region.

5) Lower Till (Sauerbrei et.al., 1985)-Mid to Pre-Wisconsinan?

Silty to clayey till, pebbly, usually up to 95% local lithologies, matrix coloured according to bedrock type, v.local provenance. Lodgement and/or basal meltout till facies. Generally restricted in occurrence to local bedrock depressions and areas of extensive, v.deep overburden (>150ft). Recent evidence suggests southwesterly (210-245 azimuth) ice flow direction, possibly related to early ice phases of the Laurentide ice centre (Shilts, 1980; Richard, 1984; Richard, unpubl.data-Detour area, Sauerbrei et.al., 1985).

2 1986 REVERSE CIRCULATION DRILLING PROGRAM

2.1 Drilling Logistics and Statistics

The 1987 program of reverse circulation drilling on the Mikwan River property was conducted over a 35 day period, commencing on Jan.19/87, and finishing on Feb. 21/87. Seventy-two holes were drilled over a total footage of 7,419.5 ft, indicating an average hole depth of 103 ft and an average drilling production rate of 212 ft per day by the Bradley Bros crew. Although appearing to be somewhat low, this rate is good in view of the overburden conditions encountered, and the age/nature of the Longyear 38 drill used on the job. Downhole consumables amounted to 26 tricone bits (285ft average life, or 1 bit/2.5 holes), 6 subs and 2 drillrods. A minimal amount of mechanical downtime was experienced on this job.

Daily drilling activities are broken down and summarized below in Table 2. Actual drilling accounted for 76% of total field time, a fact which reflects the very good operational efficiency of this program. Credit for the logistical success of this program can be attributed to the advance preparation of drill access roads.

Table 2. Summary of Drilling Statistics-Mikwan River Property '87

Date	Moving	Drilling	Downtime	Delays	Footage
=====					
20/01	5	2.50	.50	1	106
21/01	.25	6.25		2.50	204
22/01	1	7.50		1.50	285
23/01	.50	2.25	5.75	.50	45
24/01	.50	8.25			185
25/01	1	8.25			176
26/01	.25	8.25		1.50	236
27/01	.50	8			210
28/01	.75	8.25			275
29/01	.75	7.25	1.25		188
30/01	.50	9.50			266
31/01	.75	8.25			193
01/02	.50	6			217
02/02	1	6.50		.75	222
03/02	.75	8.25			349
04/02	.25	6.25	3		130
05/02	1	8			317
06/02	1.25	6.25	2		178
07/02	.75	6.25		1	192
08/02	.50	9.75			300
09/02	.75	8		.75	296
10/02	5.75	3.75			128
11/02	.75	5.25		2	191

12/02	1	8.25		327
13/02	.50	8.25		257
15/02			7	
16/02	.50	8.75	.75	
17/02	.75	8.50	1	257
18/02	.50	8.75	1	258
19/02	2	6.75	1	364
20/02	1.25	6.75	.50	203
21/02	1.25	6.50	.50	291
22/02	.25	4.25		109

Totals	33.0	225.50	19.50	16.25 7419.50
Total %	11.2	76.6	6.6	5.5 -

Drilling Equipment

The unitized reverse circulation system used by Bradley Bros Drilling consists of a sloop-mounted Longyear 38 which is fully enclosed for all-weather operations. All equipment directly involved in drilling operations are housed on-board, including the Longyear drill, water and compressor systems. Ancilliary equipment and 250 ft of drill rods are carried on a support sloop.

Between-hole moves were conducted over prepared winter roads using a Timberjack and D-6 bulldozer to drag the sloops. On a typical 400 m move, these moves averaged 15 minutes in duration. Following each move, drill set-ups generally took less than 5 minute to complete.

The dual-tube drill rods used by Bradley Bros Drilling measure 10 ft long by 2.75 inches (-outer rod, 1 inch inner rod), and are fed in 2 ft strokes by the Longyear 38 drill. A controlled mixture of compressed air and water is pumped down the outer annulus of the drill rod string to a tricone bit, measuring 2.94 inches in diameter, which is adapted to the rods by a 1 ft 'sub'. The bit cones are fitted with tungsten carbide buttons, the configuration of which reduces boulders and bedrock to chip size. The pressurized air-water mixture ensures that sediment/rock chip returns are brought to surface almost instantly through the 1 inch inner tube, thus enabling the geologist to accurately correlate overburden lithostratigraphy with downhole depth.

2.2 Logging and Sampling Procedures

The return slurry produced by reverse circulation is slowed down on the drill by a cyclone which discharges directly into the sampling equipment. The sample passes through a 10 mesh (1.7mm) sieve which collects sediment globules and coarse,

multi-minerallic rock fragments, thereby enabling the petrological details of overburden units to be noted. A small cut of the +10 mesh fraction is saved for later reference in the event of anomalous results. The 10 mesh sieve is supported over the primary sampling bucket by a larger 1 cm screen.

D.E.S. uses a two-bucket system for sample collection. The sample slurry is directly dispensed in a plastic bag which lines a 20 litre primary bucket. Overflow decants into a second unlined bucket where the fines (silt and minor clay) are collected. To reduce the suspension of fines by turbulent churning, the decant spout is dispersed against the side of the second bucket, thereby maximizing the settling out of fines (predominantly silt-sized). These fines are then scooped into the primary sample bag during a sampling change.

To facilitate data control and realistic anomaly assessment, sampling is confined to individual lithostratigraphic units, keeping overlap to a minimum. Sampling intervals generally average 2-2.5 m in thicker glaciofluvial units, but are reduced to a maximum of 1.5 m in till or diamicton units. In cases where drill penetration through glaciofluvial sediments produces high volume returns, samples are reduced on-site to a representative size.

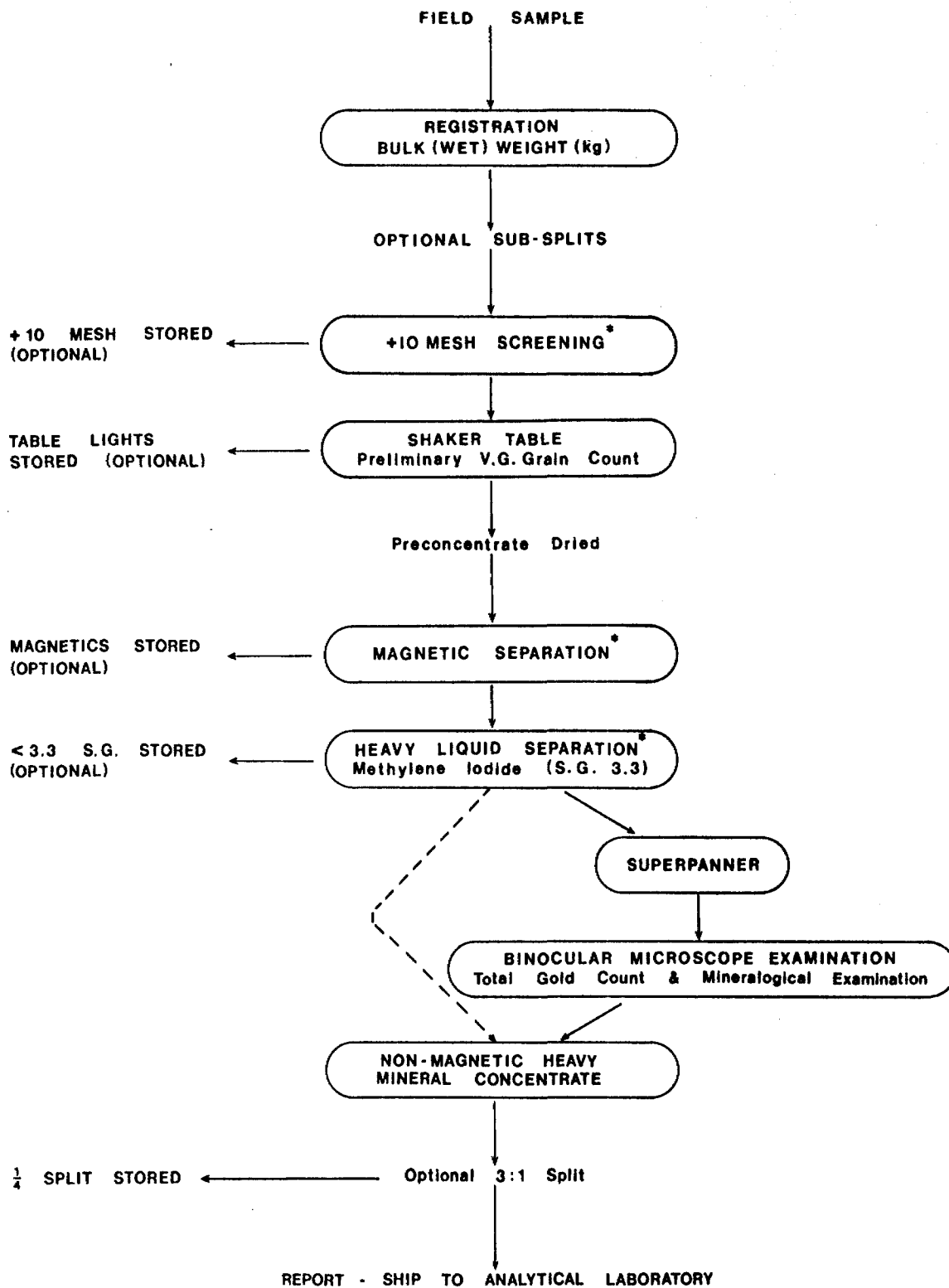
Contamination controls were strictly adhered to during the Mikwan River program. All sampling equipment coming in contact with sample materials were constructed of stainless steel. To minimize sample handling and the possibility of cross-contamination, samples were captured directly into bags, thereby eliminating the step of selectively scooping sediments from bucket to bag. Sample bags were sealed immediately and placed in metal cans on-site for shipment.

2.3 Sample Processing

Bulk overburden samples obtained during this program were shipped to the heavy minerals laboratory of Overburden Exploration Services in Timmins, Ontario. No sample splits were taken. A flow sheet depicting OES concentration procedures is shown in Figure 2.

Bulk samples are first weighed (wet); the entire sample is then wet-screened through a 10 mesh (1.7mm) sieve to remove any +2mm rock fragments and sediment globules present. The remainder is passed through a classifier before release onto the specially modified Deister shaker table where the combined action of continuous water flow and controlled agitation on the riffled table surface causes the sample to partition into discrete mineral bands according to specific gravity. Heavy minerals

HEAVY MINERAL CONCENTRATION FLOW CHART



* PROCESSING SPLITS WEIGHED AND RECORDED AT EACH STAGE



largely consisting of hornblende, epidote, garnet, pyrite, and magnetite (ascending order) form distinct bands higher up on the table deck, all of which are captured as the table preconcentrate.

Visible gold grains coarser than 125 microns generally ride 5-10cm above the magnetite band on the shaker table, with finer gold (less than 125 microns) riding peripheral to, or within, heavy mineral bands of lower specific gravity. In monitoring the partitioning of heavy minerals under magnification, free gold grains are readily observed on the table and counted.

Table preconcentrates are subjected to a magnetic separation procedure which typically reduces the sample by another 25-30%. Only materials with the highest magnetic susceptibilities (i.e. drill steel and magnetite) are removed to yield a non-magnetic preconcentrate; pyrrhotite and most ilmenite remain.

This non-magnetic fraction is further refined by a heavy liquid separation (methylene iodide, S.G. 3.32) to produce the final non-magnetic heavy mineral concentrate (HMC) ready for assay.

In addition to the basic processing, HMC's noted on the shaker table to contain visible gold grains and/or significant sulphides are specially panned and examined under the binocular

microscope. Individual gold grains are measured three dimensionally to calculate the expected Au ppb values based upon their apparent volume relative to concentrate weight.

Visible gold grains are classified by OES according to the current industry standard as outlined in Ontario Geological Survey Open File Report 5569, but only to the extent of 'pigeon-holeing' typical grain shapes for comparative purposes.

Under this classification, "delicate", "irregular", "abraded" and "rounded" forms comprise a morphological continuum that attempts to directly relate grain shape with glacial transport distance (up-ice distance to auriferous bedrock sources). While seemingly convenient, this classification strictly assumes that complexly shaped, free gold grains are mechanically liberated at the bedrock-ice interface, and englacially transported down-ice to be basally deposited. The simpler the three dimensional grain shape, the greater the distance of mechanical abrasion and hence, distance to bedrock source. In fact, this scheme ignores (i) the complex diversity of sediment transport mechanisms and ice dynamics which exist in the glacial environment, (ii) original gold form, (iii) gold liberated by the drill bit from mineralized rock fragments in the overburden, and (iv) possible effects of hydromorphic precipitation upon gold grain shape. In consideration of the above, OES doubts the validity of the

current classification, and therefore does not recommend interpretation of distance to bedrock sources based upon grain shape alone.

3 MIKWAM RIVER PROPERTY RESULTS

3.1 Bedrock Geology

Preliminary identifications of bedrock chips recovered during drilling operations were performed on-site by visual examination. Binocular examinations of the chips were later carried out in the laboratory to either confirm or modify the preliminary rock identification.

Bedrock lithologies encountered during this drilling program ranged from metasediments (argillites, greywackes) to intermediate and mafic metavolcanics, and lesser chlorite and sericite schists.

Bedrock chips were subjected to instrumental neutron activation analyses (INAA) by Nuclear Activation Services of Hamilton, Ontario via X-Ray Labs in Toronto, Ontario. The 14-element epithermal irradiation package, which includes gold and arsenic, was selected for analytical purposes.

3.2 Quaternary Geology

3.2.1 Overburden Distribution and Stratigraphy

Overburden thicknesses as determined by reverse circulation drilling are indicated on the Property Compilation Map (back pocket), and are graphically depicted in overburden sections A-A1, B-B1, C-C1, D-D1, E-E1, F-F1, and G-G1.

Depth to bedrock on the Mikwam River property ranged from 29 - 184 ft, averaging 103 ft overall. A complete stratigraphic range (see Regional Quaternary Geology) was encountered, including the upper Matheson Till Formation (165 azimuth ice flow), lower non-glacial sediments, and the Lower Till unit (240 azimuth ice flow). Barlow-Ojibway glaciolacustrine clays form a ubiquitous cap over the property in thicknesses which generally range between 35 - 50 feet.

3.2.2 Overburden Geochemistry-Interpretation

Non-magnetic heavy mineral concentrates from the Mikwam River program were shipped to Neutron Activation Services Limited (NAS) in Hamilton, Ontario via X-Ray Laboratories in Toronto. HMC samples were analyzed by instrumental neutron activation (epithermal mode) for 14 elements, including gold and arsenic.

Upon receipt of analytical data from the heavy mineral concentrates, statistical compilations are used to (i) assess patterns of geochemical distribution within the overburden, and (ii) determine anomalous results from within the general data population. All analytical results are then plotted against the lithostratigraphic units within the overburden from which the samples were derived.

Anomalous results are ultimately ranked according to anomalous geochemical values and host unit within the overburden. As a first-derivative glacial product, till (particularly basal facies) is most capable of reflecting proximal up-ice bedrock sources, and is therefore considered to be the important host unit. The geochemical data are standardized for comparative study. Significant concentrations of anomalous results may be identified as dispersion patterns or localized occurrences which warrant followup work to define specific bedrock targets.

4 CONCLUSIONS

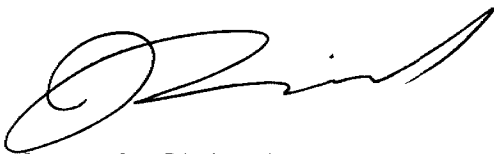
A 72-hole program of reverse circulation drilling has been carried out in Tomlinson and Newman Townships (Ontario) to test the gold-bearing potential of a 15 km volcano-sedimentary contact zone.

A total of 7,419.5 ft were drilled, encountering a complete stratigraphic range of Quaternary formations, including the Matheson and Lower tills (primary geochemical targets). Bedrock formations primarily consisted of metasediments, intermediate and lesser mafic metavolcanics.

Recommendations for follow-up work to this reverse circulation drilling program will be made after comprehensive data analyses are completed.

Respectfully submitted,

OVERBURDEN EXPLORATION SERVICES LTD



James A. Richard

April 25, 1987

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Declaration of Qualifications

I, James A. Richard, do hereby certify that:

- i) I am a Quaternary geologist, and reside at 171 Malette Crescent, Timmins, Ontario, P4P 1C4;
- ii) I hold an H.BES degree (1981) from the University of Waterloo, Waterloo, Ontario;
- iii) I completed two years M.Sc course work (geology) at the University of Waterloo, Waterloo, Ontario;
- iv) I am an associate member of the Geological Association of Canada;
- v) I have been actively engaged as a Quaternary geologist throughout northern Ontario-northwestern Quebec since 1978, both as field party leader and consultant for the Ontario Geological Survey (1981-1985), and as an exploration consultant to private industry since 1985.
- vi) I have not received, nor will I receive, an interest, directly or indirectly, in the properties of Chesbar Resources Inc, or any affiliate;
- vii) I was personally involved with the technical supervision of the program, and wrote this report.


James A. Richard

APPENDIX A

TECHNICAL DATA STATEMENT

APPENDIX B

HEAVY MINERAL CONCENTRATE LABORATORY LOGS

1	Kg. (wet)	1	Grams (dry)	1
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Sample No.	Bulk	+10 Mesh	Table Feed	Table Conc.	Mags.	NonMags.	M.I.Heav.	M.I.Lites
7000	10.17	.20	9.97	39.95	10.78	29.17	17.43	11.74
7001	10.86	.00	10.86	43.92	10.88	33.04	20.33	12.71
7002	8.11	.01	8.10	27.20	8.58	18.62	13.61	5.01
7003	8.25	.01	8.24	29.74	8.10	21.64	13.69	7.95
7004	7.55	.01	7.54	29.47	9.10	20.37	14.74	5.63
7005	6.24	.31	5.93	22.42	5.24	17.18	9.97	7.21
7006	8.32	.26	8.06	29.61	8.00	21.61	12.28	9.33
7008	5.14	.01	5.13	15.21	4.20	11.01	6.29	4.72
7009	7.16	.11	7.05	23.37	7.25	16.12	11.83	4.29
7010	7.08	.10	6.98	22.00	7.08	14.92	9.85	5.07
7011	7.74	.23	7.51	22.18	7.07	15.11	9.98	5.13
7012	8.01	.20	7.81	25.00	7.12	17.88	11.04	6.84
7015	7.43	.19	7.24	53.88	11.26	42.62	23.41	19.21
7016	7.53	.00	7.53	40.67	10.21	30.46	18.96	11.50
7017	7.40	.00	7.40	45.90	8.67	37.23	17.52	19.71
7018	7.05	.01	7.04	23.05	7.86	15.19	9.74	5.45
7019	7.74	.00	7.74	38.35	9.16	29.19	15.00	14.19
7020	6.58	.04	6.54	20.91	6.21	14.70	8.09	6.61
7021	6.52	.02	6.50	25.86	8.30	17.56	11.18	6.38
7022	6.72	.00	6.72	30.38	7.77	22.61	13.81	8.80
7023	7.87	.02	7.85	33.08	8.68	24.40	14.81	9.59
7024	7.50	.19	7.31	27.95	8.41	19.54	12.15	7.39
7025	5.98	.01	5.97	24.98	6.31	18.67	11.74	6.93
7027	6.25	.05	6.20	28.51	7.07	21.44	12.53	8.91
7029	6.55	.04	6.51	28.17	7.08	21.09	10.59	10.50
7030	7.61	.00	7.61	42.73	12.92	29.81	17.23	12.58
7032	7.70	.00	7.70	26.96	7.13	19.83	12.76	7.07
7033	6.82	.00	6.82	28.18	6.96	21.22	13.51	7.71
7034	7.39	.00	7.39	27.45	7.09	20.36	10.33	10.03
7035	6.71	.00	6.71	32.88	7.19	25.69	12.58	13.11
7036	6.88	.00	6.88	27.66	6.64	21.02	9.67	11.35
7037	7.42	.02	7.40	24.29	7.20	17.09	12.04	5.05
7038	4.43	.01	4.42	16.31	3.84	12.47	7.60	4.87
7039	4.67	.00	4.67	18.35	3.40	14.95	8.52	6.43
7041	7.40	.03	7.37	30.95	7.17	23.78	14.16	9.62
7042	6.61	.00	6.61	36.71	6.49	30.22	18.25	11.97
7043	7.33	.00	7.33	40.41	7.88	32.53	20.36	12.17
7044	8.54	.01	8.53	42.72	9.22	33.50	19.28	14.22
7045	7.74	.01	7.73	44.18	8.11	36.07	15.11	20.96
7046	7.48	.00	7.48	36.00	7.48	28.52	13.14	15.38
7047	6.74	.01	6.73	23.24	5.87	17.37	10.41	6.96
7048	5.54	.00	5.54	27.17	5.50	21.67	12.80	8.87

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1	Kg. (wet)	1	Grams (dry)	1
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Sample No.	Bulk	+10 Mesh	Table Feed	Table Conc.	Mags.	NonMags.	M.I.Heav.	M.I.Lites
7049	6.80	.01	6.79	32.66	8.42	24.24	14.38	9.86
7052	6.70	.00	6.70	54.72	8.05	46.67	21.41	25.26
7053	5.83	.00	5.83	43.15	6.69	36.46	19.45	17.01
7054	6.55	.00	6.55	27.72	7.37	20.35	14.09	6.26
7055	5.83	.00	5.83	39.08	6.47	32.61	17.79	14.82
7056	7.65	.03	7.62	51.02	9.33	41.69	22.77	18.92
7078	5.67	.01	5.66	28.02	6.26	21.76	11.79	9.97
7079	7.02	.01	7.01	30.57	5.28	25.29	11.32	13.97
7090	12.67	.02	12.65	50.02	13.36	36.66	19.58	17.08
7193	6.24	.00	6.24	45.24	7.00	38.24	22.24	16.00

	Kg. (wet)		Grams (dry)					
Sample No.	Bulk	+10 Mesh	Table Feed	Table Conc.	Mags.	NonMags.	M.I.Heav.	M.I.Lites
7013	5.76	.01	5.75	28.87	4.79	24.08	10.67	13.41
7026	6.41	.02	6.39	31.21	8.12	23.09	13.97	9.12
7028	8.06	.01	8.05	40.22	8.92	31.30	17.73	13.57
7040	7.33	.01	7.32	25.79	7.46	18.33	13.59	4.74
7051	6.70	.01	6.69	38.11	6.85	31.26	15.74	15.52
7057	5.39	.03	5.36	46.92	8.34	38.58	14.87	23.71
7058	8.80	.01	8.79	59.71	10.79	48.92	19.64	29.28
7059	3.36	.01	3.35	8.39	2.66	5.73	3.39	2.34
7060	6.38	.14	6.24	22.36	5.68	16.68	9.31	7.37
7061	6.26	.20	6.06	24.37	5.91	18.46	9.62	8.84
7062	8.15	.21	7.94	25.18	6.89	18.29	10.15	8.14
7063	7.11	.03	7.08	25.21	6.73	18.48	10.18	8.30
7064	6.47	.08	6.39	16.53	4.71	11.82	6.15	5.67
7065	7.20	.01	7.19	37.14	7.51	29.63	11.27	18.36
7066	7.14	.01	7.13	30.15	7.46	22.69	11.57	11.12
7067	3.99	.00	3.99	12.80	2.70	10.10	5.43	4.67
7069	7.37	.03	7.34	31.13	7.67	23.46	14.06	9.40
7070	6.92	.01	6.91	33.43	8.92	24.51	14.23	10.28
7071	5.67	.00	5.67	31.68	6.64	25.04	11.34	13.70
7072	6.51	.00	6.51	27.90	7.04	20.86	8.92	11.94
7073	6.04	.00	6.04	46.72	6.58	40.14	12.42	27.72
7074	5.94	.01	5.93	29.40	7.13	22.27	10.95	11.32
7075	6.54	.00	6.54	26.13	6.78	19.35	9.93	9.42
7076	6.21	.01	6.20	21.65	7.09	14.56	9.52	5.04
7077	5.12	.01	5.11	16.71	4.24	12.47	6.67	5.80
7080	8.08	.01	8.07	32.12	6.84	25.28	10.83	14.45
7081	7.31	.01	7.30	35.23	7.36	27.87	12.58	15.29
7082	5.69	.00	5.69	18.25	5.46	12.79	8.54	4.25
7084	7.60	.08	7.52	46.47	9.78	36.69	15.90	20.79
7085	7.46	.01	7.45	44.43	8.83	35.60	17.26	18.34
7086	6.23	.01	6.22	34.86	8.16	26.70	12.31	14.39
7087	6.55	.16	6.39	40.30	6.66	33.64	14.50	19.14
7088	4.82	.00	4.82	20.80	4.11	16.69	9.91	6.78
7089	4.30	.00	4.30	26.89	3.99	22.90	8.92	13.98
7091	6.43	.02	6.41	26.32	6.24	20.08	12.16	7.92
7092	6.21	.00	6.21	32.44	4.98	27.46	13.46	14.00
7093	7.17	.00	7.17	26.32	5.28	21.04	12.24	8.80
7094	6.13	.00	6.13	21.31	5.95	15.36	9.86	5.50
7096	6.57	.02	6.55	40.27	11.14	29.13	16.87	12.26
7097	7.52	.08	7.44	48.91	11.54	37.37	18.68	18.69
7117	2.88	.01	2.87	13.09	2.20	10.89	3.17	7.72
7119	5.39	.03	5.36	49.39	9.99	39.40	18.27	21.13

Sample No.	Kg. (wet)			Grams (dry)				
	Bulk	+10 Mesh	Table Feed	Table Conc.	Mags.	NonMags.	M.I.Heav.	M.I.Lites
7120	6.34	.02	6.32	48.23	13.65	34.58	17.23	17.35
7124	5.50	.02	5.48	78.31	6.69	71.62	18.21	53.41
7125	6.22	.17	6.05	48.95	6.83	42.12	10.21	31.91
7128	7.10	.20	6.90	48.34	7.13	41.21	13.28	27.93
7131	6.99	.05	6.94	94.53	14.80	79.73	28.37	51.36
7132	6.63	.01	6.62	70.37	12.23	58.14	25.36	32.78
7133	6.81	.01	6.80	112.02	8.31	103.71	18.38	85.33
7134	7.25	.01	7.24	110.85	10.48	100.37	30.21	70.16
7135	7.09	.01	7.08	18.10	9.83	82.70	24.00	58.70
7136	6.89	.01	6.88	60.73	8.04	52.69	14.68	38.01
7137	6.19	.01	6.18	92.97	8.79	84.18	16.77	67.41
7138	6.36	.01	6.35	44.51	7.68	36.83	13.74	23.09
7140	2.29	.00	2.29	23.28	12.66	10.62	3.00	7.62
7142	6.60	.01	6.59	80.66	10.05	70.61	21.04	49.57
7145	6.31	.01	6.30	96.81	8.93	87.88	19.12	68.76
7146	6.13	.01	6.12	72.32	8.31	64.01	16.56	47.45
7148	6.94	.08	6.86	48.77	6.71	42.06	15.30	26.76
7149	5.65	.05	5.60	31.76	4.21	27.55	14.27	13.28
7151	7.53	.01	7.52	65.13	9.35	55.78	23.84	31.94
7152	8.17	.06	8.11	74.11	9.69	64.42	18.41	46.01
7153	7.60	.07	7.53	58.16	9.24	48.92	23.24	25.68
7154	7.50	.13	7.37	47.79	6.92	40.87	21.63	19.24
7156	5.50	.00	5.50	46.28	6.64	39.64	14.51	25.13
7160	5.86	.01	5.85	58.82	7.05	51.77	15.99	35.78
7161	6.16	.00	6.16	74.33	8.39	65.94	19.72	46.22
7162	7.19	.01	7.18	72.28	9.83	62.45	22.09	40.36
7164	6.33	.01	6.32	54.17	9.39	44.78	23.70	21.08
7166	5.99	.02	5.97	69.94	7.65	62.29	16.96	45.33
7168	6.64	.01	6.63	73.59	9.12	64.47	14.98	49.49
7169	7.70	.01	7.69	72.91	11.03	61.88	18.01	43.87
7171	6.91	.01	6.90	61.63	7.93	53.70	11.68	42.02
7172	6.28	.01	6.27	51.49	8.83	42.66	15.74	26.92
7174	6.36	.14	6.22	35.73	4.65	31.08	13.60	17.48
7175	5.76	.13	5.63	33.73	6.51	27.22	11.58	15.64
7178	4.99	.01	4.98	34.38	6.38	28.00	12.90	15.10
7181	7.00	.01	6.99	84.06	10.58	73.48	17.59	55.89
7182	6.03	.01	6.02	54.78	8.63	46.15	13.59	32.56
7184	6.13	.08	6.05	58.68	9.11	49.57	15.10	34.47
7185	6.46	.03	6.43	55.19	11.04	44.15	17.46	26.69
7186	5.87	.02	5.85	49.24	9.48	39.76	17.03	22.73
7187	6.30	.02	6.28	38.23	7.24	30.99	12.68	18.31
7188	6.68	.16	6.52	27.07	5.88	21.19	10.57	10.62

1	Kg. (wet)	1	Grams (dry)	1
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Sample No.	Bulk	+10 Mesh	Table Feed	Table Conc.	Mags.	NonMags.	M.I.Heav.	M.I.Lites
7189	5.38	.03	5.35	23.49	4.54	18.95	7.93	11.02
7190	6.50	.09	6.41	22.71	5.20	17.51	8.76	8.75
7191	5.19	.09	5.10	29.54	4.47	25.07	13.04	12.03
7192	6.07	.08	5.99	35.00	5.26	29.74	18.83	10.91
7194	6.12	.01	6.11	32.47	6.34	26.13	11.01	15.12
7195	5.94	.01	5.93	36.60	6.08	30.52	12.07	18.45
7196	7.67	.02	7.65	47.37	9.23	38.14	17.51	20.63
7197	7.21	.02	7.19	47.63	9.18	38.45	16.11	22.34
7199	7.30	.03	7.27	59.67	11.36	48.31	17.99	30.32
7200	7.19	.07	7.12	63.12	11.64	51.48	18.05	33.43
7204	5.73	.01	5.72	49.00	8.53	40.47	15.59	24.88
7207	7.28	.09	7.19	38.57	7.56	31.01	12.46	18.55
7209	5.94	.01	5.93	36.93	6.55	30.38	11.06	19.32
7210	7.99	.02	7.97	52.69	7.64	45.05	14.81	30.24
7213	5.30	.01	5.29	32.41	7.60	24.81	10.46	14.35
7216	6.63	.03	6.60	54.54	14.16	40.38	16.52	23.86
7218	6.46	.06	6.40	51.61	9.62	41.99	17.92	24.07
7219	7.24	.10	7.14	48.63	10.83	37.80	16.49	21.31
7220	5.26	.00	5.26	35.89	6.07	29.82	11.68	18.14
7221	5.28	.03	5.25	22.89	4.13	18.76	7.33	11.43
7223	6.65	.03	6.62	42.88	10.54	32.34	14.75	17.59
7224	8.44	.02	8.42	65.22	13.26	51.96	23.09	28.87
7225	6.83	.02	6.81	43.67	10.53	33.14	16.58	16.56
7226	7.85	.08	7.77	46.69	12.12	34.57	17.34	17.23
7227	6.62	.24	6.38	47.39	9.91	37.48	16.42	21.06
7228	7.61	.03	7.58	45.80	8.77	37.03	16.19	20.84
7229	6.18	.02	6.16	33.45	6.47	26.98	10.26	16.72
7230	4.93	.02	4.91	29.30	5.44	23.86	10.55	13.31
7233	6.17	.12	6.05	41.36	8.95	32.41	14.88	17.53
7234	6.28	.05	6.23	40.06	9.97	30.09	14.91	15.18
7235	6.42	.14	6.28	42.92	8.73	34.19	16.38	17.81
7236	6.17	.02	6.15	34.53	6.21	28.32	12.54	15.78
7237	6.41	.04	6.37	32.51	6.57	25.94	12.24	13.70
7238	6.46	.01	6.45	27.36	5.47	21.89	11.47	10.42
7240	7.78	.04	7.74	28.59	7.63	20.96	11.73	9.23
7242	6.89	.04	6.85	43.98	10.52	33.46	16.93	16.53
7243	6.70	.13	6.57	43.86	9.20	34.66	15.11	19.55
7244	6.88	.10	6.78	57.20	11.65	45.55	21.16	24.39
7245	6.16	.04	6.12	35.62	7.72	27.90	13.28	14.62
7248	7.46	.02	7.44	36.81	7.89	28.92	13.67	15.25
7249	7.23	.02	7.21	35.10	8.41	26.69	11.30	15.39
7250	5.53	.09	5.44	35.19	5.73	29.46	12.36	17.10

1	Kg. (wet)	1	Grams (dry)	1
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Sample No.	Bulk	+10 Mesh	Table Feed	Table Conc.	Mags.	NonMags.	M.I.Heav.	M.I.Lites
7254	6.67	.03	6.64	44.98	9.49	35.49	15.98	19.51
7256	7.35	.02	7.33	49.90	10.68	39.22	17.85	21.37
7257	6.72	.01	6.71	40.59	7.54	33.05	12.93	20.12
7258	4.87	.07	4.80	24.27	3.51	20.76	13.34	7.42
7260	6.88	.14	6.74	43.28	11.88	31.40	16.67	14.73
7261	6.88	.04	6.84	50.04	12.20	37.84	16.58	21.26
7263	6.90	.05	6.85	40.60	6.44	34.16	11.40	22.76
7264	2.91	.02	2.89	16.32	3.17	13.15	4.79	8.36

1	Kg. (wet)	1	Grams (dry)	1
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Sample No.	Bulk	+10 Mesh	Table Feed	Table Conc.	Mags.	NonMags.	M.I.Heav.	M.I.Lites
7098	7.88	.34	7.54	30.88	6.73	24.15	9.65	14.50
7099	6.29	.09	6.20	26.55	5.16	21.39	8.94	12.45
7100	7.78	.03	7.75	52.96	15.67	37.29	23.65	13.64
7101	6.88	.51	6.37	30.78	7.57	23.21	14.52	8.69
7102	6.31	.07	6.24	29.44	7.08	22.36	12.73	9.63
7103	6.24	.04	6.20	21.50	5.67	15.83	10.27	5.56
7104	7.03	.01	7.02	26.12	5.53	20.59	10.30	10.29
7105	6.98	.01	6.97	19.84	6.20	13.64	9.30	4.34
7106	5.88	.14	5.74	19.59	4.71	14.88	8.73	6.15
7107	5.73	.01	5.72	14.51	5.29	9.22	5.98	3.24
7109	5.42	.02	5.40	34.15	7.48	26.67	13.06	13.61
7110	6.03	.00	6.03	34.51	6.19	28.32	13.47	14.85
7111	6.82	.01	6.81	50.04	7.91	42.13	17.01	25.12
7112	6.46	.12	6.34	24.97	4.76	20.21	9.81	10.40
7113	7.23	.05	7.18	16.15	5.72	10.43	7.42	3.01
7114	6.32	.03	6.29	22.68	5.09	17.59	9.18	8.41
7115	5.71	.02	5.69	29.11	5.15	23.96	12.61	11.35
7116	5.05	.01	5.04	18.23	3.57	14.66	7.59	7.07
7121	7.17	.08	7.09	35.85	8.78	27.07	12.60	14.47
7122	6.77	.08	6.69	69.99	8.75	61.24	14.65	46.59
7123	6.43	.01	6.42	77.62	9.56	68.06	17.77	50.29
7126	6.07	.01	6.06	47.81	7.12	40.69	19.67	21.02
7139	6.58	.01	6.57	53.49	7.17	46.32	14.18	32.14
7143	6.69	.01	6.68	94.26	11.04	83.22	26.48	56.74
7144	5.80	.02	5.78	109.24	8.60	100.64	20.12	80.52

1	Kg. (wet)	1	Grams (dry)	1
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Sample No.	Bulk	+10 Mesh	Table Feed	Table Conc.	Mags.	NonMags.	M.I.Heav.	M.I.Lites
7127	5.49	.18	5.31	55.38	5.67	49.71	12.04	37.67
7147	2.85	.07	2.78	93.34	2.45	90.89	6.07	84.82
7155	8.82	.00	8.82	125.77	10.00	115.77	18.24	97.53
7157	6.68	.08	6.60	48.18	5.91	42.27	11.66	30.61
7158	6.67	.01	6.66	71.23	7.30	63.93	17.32	46.61
7165	5.56	.01	5.55	71.45	9.04	62.41	18.32	44.09
7167	6.26	.01	6.25	59.16	9.42	49.74	21.91	27.83
7170	6.07	.01	6.06	50.09	8.96	41.13	13.37	27.76
7173	7.48	.06	7.42	55.78	8.63	47.15	16.96	30.19
7176	6.55	.43	6.12	37.22	6.26	30.96	11.90	19.06
7179	6.17	.01	6.16	51.15	12.79	38.36	16.12	22.24
7180	6.44	.01	6.43	50.07	9.45	40.62	3.33	37.29
7201	7.37	.03	7.34	59.21	11.82	47.39	18.85	28.54
7202	7.05	.02	7.03	43.94	12.35	31.59	14.91	16.68
7203	6.71	.02	6.69	43.05	9.87	33.18	12.97	20.21
7205	7.02	.01	7.01	44.76	10.76	34.00	17.39	16.61
7206	6.90	.03	6.87	45.29	7.02	38.27	15.73	22.54
7208	7.24	.11	7.13	48.94	6.35	42.59	14.22	28.37
7211	8.47	.02	8.45	59.41	8.07	51.34	16.24	35.10
7212	5.71	.01	5.70	33.09	5.22	27.87	11.17	16.70
7217	6.93	.02	6.91	39.65	5.20	34.45	16.59	17.86
7231	6.76	.06	6.70	45.09	10.72	34.37	23.64	10.73
7232	5.68	.07	5.61	56.59	9.21	47.38	16.91	30.47
7239	6.05	.01	6.04	25.07	6.19	18.88	10.38	8.50
7246	5.97	.13	5.84	45.40	8.09	37.31	13.39	23.92
7247	5.94	.20	5.74	28.64	5.11	23.53	8.87	14.66
7251	8.10	.04	8.06	41.83	6.60	35.23	14.84	20.39
7253	6.67	.05	6.62	51.27	10.92	40.35	18.17	22.18
7262	6.58	.10	6.48	57.10	12.42	44.68	17.27	27.41
7265	5.85	.03	5.82	45.89	10.30	35.59	16.16	19.43
7266	6.11	.08	6.03	41.65	6.78	34.87	13.37	21.50
7267	6.40	.02	6.38	59.73	21.89	37.84	14.30	23.54
7269	6.56	.01	6.55	70.01	11.22	58.79	21.74	37.05
7270	5.01	.02	4.99	52.18	7.09	45.09	15.57	29.52
7271	6.02	.03	5.99	37.15	8.99	28.16	12.36	15.80
7272	7.18	.03	7.15	69.32	10.71	58.61	19.67	38.94
7273	6.52	.04	6.48	39.50	5.97	33.53	12.97	20.56
7274	6.47	.02	6.45	61.78	6.79	54.99	14.69	40.30
7275	5.48	.05	5.43	60.33	8.69	51.64	19.10	32.54
7276	7.26	.01	7.25	13.92	1.80	12.12	3.00	9.12
7278	7.00	.09	6.91	62.50	12.61	49.89	19.35	30.54
7279	5.69	.04	5.65	54.12	9.70	44.42	15.61	28.81

1	Kg. (wet)	1	Grams (dry)	1
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Sample No.	Bulk	+10 Mesh	Table Feed	Table Conc.	Mags.	NonMags.	M.I.Heav.	M.I.Lites
7280	8.31	.03	8.28	49.74	13.12	36.62	17.55	19.07
7281	7.20	.07	7.13	59.80	11.49	48.31	18.43	29.88
7282	7.04	.04	7.00	39.03	7.33	31.70	12.67	19.03
7283	6.93	.03	6.90	49.42	8.35	41.07	16.30	24.77
7284	6.40	.04	6.36	48.90	8.50	40.40	16.82	23.58
7285	7.88	.09	7.79	68.94	11.98	56.96	23.62	33.34
7286	7.66	.01	7.65	49.02	9.91	39.11	19.63	19.48
7287	6.40	.06	6.34	83.57	12.71	70.86	29.07	41.79
7289	7.56	.10	7.46	62.38	11.23	51.15	17.87	33.28
7290	6.70	.06	6.64	53.54	8.28	45.26	15.89	29.37
7291	6.41	.02	6.39	52.32	9.14	43.18	16.95	26.23
7292	7.43	.03	7.40	51.23	8.81	42.42	18.17	24.25
7293	6.57	.15	6.42	44.43	7.72	36.71	15.00	21.71
7294	7.92	.16	7.76	58.38	15.46	42.92	23.33	19.59
7296	5.32	.04	5.28	54.96	8.90	46.06	18.16	27.90
7297	5.60	.04	5.56	46.96	8.44	38.52	13.98	24.54
7298	5.56	.02	5.54	53.48	8.47	45.01	16.51	28.50
7299	4.74	.01	4.73	34.66	4.45	30.21	9.49	20.72
7301	5.71	.03	5.68	28.96	6.03	22.93	11.09	11.84
7302	7.59	.02	7.57	48.77	7.17	41.60	15.74	25.86
7303	5.20	.01	5.19	28.62	4.57	24.05	10.37	13.68
7304	7.05	.04	7.01	40.34	5.26	35.08	10.77	24.31
7305	7.03	.08	6.95	54.49	6.19	48.30	15.82	32.48
7306	4.25	.01	4.24	32.40	3.54	28.86	9.46	19.40
7307	6.47	.04	6.43	56.10	7.67	48.43	27.32	21.11
7308	7.53	.03	7.50	44.77	6.22	38.55	15.08	23.47
7309	5.64	.01	5.63	49.02	6.95	42.07	17.67	24.40
7310	6.88	.10	6.78	54.13	13.84	40.29	21.73	18.56
7311	5.12	.05	5.07	34.84	8.17	26.67	11.78	14.89
7478	6.75	.09	6.66	61.03	9.73	51.30	18.25	33.05

1	Kg. (wet)	1	Grams (dry)	1	1
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Sample No.	Bulk	+10 Mesh	Table Feed	Table Conc.	Mags.	NonMags.	M.I.Heav.	M.I.Lites	Con.F.
7183	5.81	.03	5.78	55.05	8.78	46.27	16.88	29.39	342
7255	7.26	.03	7.23	49.28	11.30	37.98	17.18	20.80	421
7479	8.64	.17	8.47	55.67	12.86	42.81	17.94	24.87	472
7480	6.23	.01	6.22	56.24	6.40	49.84	14.54	35.30	428
7481	7.98	.06	7.92	38.24	7.48	30.76	13.53	17.23	585
7482	5.43	.12	5.31	20.34	3.04	17.30	5.23	12.07	1015
7484	7.11	.04	7.07	56.20	18.85	37.35	17.57	19.78	402
7486	6.11	.09	6.02	17.12	3.16	13.96	5.90	8.06	1020
7487	7.14	.03	7.11	55.79	12.77	43.02	19.89	23.13	357
7488	5.81	.13	5.68	34.95	11.22	23.73	12.24	11.49	464
7489	4.73	.12	4.61	23.59	4.89	18.70	6.80	11.90	678
7491	4.99	.04	4.95	42.19	10.68	31.51	13.88	17.63	357
7492	7.25	.03	7.22	44.57	8.10	36.47	15.33	21.14	471
7493	6.19	.01	6.18	32.39	5.33	27.06	9.55	17.51	647
7494	7.58	.07	7.51	43.12	8.02	35.10	16.17	18.93	464
7495	11.29	.38	10.91	38.68	6.97	31.71	12.84	18.87	850
7496	5.85	1.11	4.74	24.02	5.08	18.94	9.81	9.13	483
7497	6.44	.14	6.30	45.00	6.84	38.16	20.56	17.60	306
7499	7.30	.12	7.18	47.69	7.04	40.65	14.14	26.51	508
7500	5.40	.11	5.29	19.97	3.93	16.04	4.88	11.16	1084
7501	6.55	.02	6.53	78.32	25.76	52.56	27.34	25.22	239
7502	4.41	.14	4.27	36.62	5.62	31.00	10.61	20.39	402
7503	6.62	.06	6.56	44.71	9.14	35.57	16.52	19.05	397
7504	4.82	.03	4.79	18.20	5.92	12.28	6.15	6.13	779
7505	2.60	.01	2.59	14.75	2.07	12.68	5.14	7.54	504
7506	6.46	.04	6.42	40.05	5.22	34.83	12.36	22.47	519
7507	6.36	.07	6.29	28.43	5.30	23.13	11.31	11.82	556
7508	6.20	.06	6.14	42.62	6.57	36.05	18.19	17.86	338
7513	11.13	.16	10.97	30.35	7.08	23.27	10.93	12.34	1004
7514	5.44	.13	5.31	12.03	1.57	10.46	2.20	8.26	2414
7515	5.89	.11	5.78	22.84	4.85	17.99	6.70	11.29	863
7516	6.25	.05	6.20	54.40	7.57	46.83	14.83	32.00	418
7517	5.28	.08	5.20	17.92	4.10	13.82	6.15	7.67	846
7519	7.14	.02	7.12	77.34	11.64	65.70	19.13	46.57	372
7520	4.40	.04	4.36	31.81	5.23	26.58	9.58	17.00	455
7521	7.85	.16	7.69	39.27	7.06	32.21	12.23	19.98	629
7522	5.69	.15	5.54	32.59	7.34	25.25	11.41	13.84	486
7524	7.13	.17	6.96	65.05	9.66	55.39	20.69	34.70	336
7525	6.95	.02	6.93	56.83	10.49	46.34	21.55	24.79	322
7526	6.37	.05	6.32	65.12	12.75	52.37	22.19	30.18	285
7527	5.91	.09	5.82	58.77	16.74	42.03	19.25	22.78	302
7528	6.41	.08	6.33	42.98	11.35	31.63	15.26	16.37	415

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1	Kg. (wet)	1	Grams (dry)	1	1
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Sample No.	Bulk	+10 Mesh	Table Feed	Table Conc.	Mags.	NonMags.	M.I.Heav.	M.I.Lites	Con.F.
7530	6.88	.03	6.85	68.43	10.03	58.40	23.23	35.17	295
7531	6.98	.14	6.84	54.80	11.53	43.27	21.60	21.67	317
7533	6.32	.02	6.30	59.61	8.45	51.16	19.12	32.04	329
7535	5.82	.04	5.78	53.90	11.43	42.47	19.36	23.11	299
7537	6.38	.09	6.29	46.84	8.85	37.99	15.61	22.38	403
7538	6.38	.03	6.35	54.21	8.46	45.75	17.95	27.80	354
7539	6.69	.11	6.58	39.98	7.96	32.02	14.26	17.76	461
7540	6.21	.03	6.18	40.21	6.00	34.21	12.36	21.85	500
7541	6.55	.08	6.47	42.93	5.09	37.84	12.81	25.03	505
7542	3.56	.02	3.54	14.90	3.38	11.52	4.71	6.81	752
7544	6.43	.03	6.40	40.94	6.47	34.47	11.70	22.77	547
7545	6.94	.06	6.88	53.12	9.38	43.74	15.65	28.09	440
7546	6.66	.11	6.55	39.25	8.69	30.56	13.13	17.43	499
7547	5.66	.01	5.65	40.38	7.56	32.82	15.48	17.34	365
7548	4.80	.04	4.76	17.05	4.82	12.23	7.01	5.22	679
7549	3.75	.05	3.70	52.02	12.95	39.07	20.62	18.45	179
7550	7.24	.21	7.03	49.50	13.30	36.20	16.72	19.48	420
7551	6.86	.04	6.82	45.42	10.76	34.66	16.22	18.44	420
7552	7.62	.03	7.59	40.39	10.81	29.58	11.69	17.89	649
7553	6.53	.08	6.45	39.33	9.87	29.46	14.07	15.39	458
7554	7.00	.15	6.85	33.08	7.06	26.02	10.07	15.95	680
7556	5.96	.12	5.84	78.16	9.55	68.61	18.33	50.28	319
7557	6.90	.04	6.86	62.80	9.34	53.46	17.47	35.99	393
7558	16.64	.48	16.16	67.36	12.20	55.16	21.73	33.43	744
7559	2.31	.01	2.30	6.44	1.41	5.03	1.68	3.35	1369
7561	6.27	.02	6.25	32.66	6.69	25.97	11.02	14.95	567
7562	6.29	.01	6.28	61.54	8.73	52.81	18.17	34.64	346
7563	5.88	.01	5.87	56.05	7.76	48.29	16.77	31.52	350
7564	5.45	.01	5.44	44.23	12.03	32.20	13.39	18.81	406
7565	4.75	.01	4.74	29.14	4.53	24.61	9.16	15.45	517
7567	6.56	.01	6.55	48.26	9.18	39.08	20.75	18.33	316
7568	6.47	.09	6.38	51.52	8.34	43.18	20.61	22.57	310
7569	3.10	.05	3.05	13.28	2.05	11.23	4.38	6.85	696
7571	5.70	.03	5.67	47.96	10.62	37.34	19.45	17.89	292
7572	7.56	.11	7.45	52.93	11.42	41.51	22.76	18.75	327
7573	7.86	.18	7.68	31.94	6.85	25.09	14.77	10.32	520
7574	9.22	.10	9.12	43.92	8.24	35.68	18.32	17.36	498

Average -	14.26	529
Standard - Deviation	5.52	305

Kg. (wet)		Grams (dry)	
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Sample No.	Bulk	+10 Mesh	Table Feed	Table Conc.	Mags.	NonMags.	M.I.Heav.	M.I.Lites	Con.F.
7313	7.40	.07	7.33	51.11	9.03	42.08	16.46	25.62	445
7314	8.94	.05	8.89	55.74	8.89	46.85	18.33	28.52	485
7315	8.24	.08	8.16	77.98	8.86	69.12	20.70	48.42	394
7316	7.97	.06	7.91	72.50	9.93	62.57	22.29	40.28	355
7317	5.25	.08	5.17	36.76	10.28	26.48	12.27	14.21	421
7318	8.68	.08	8.60	78.35	17.66	60.69	22.38	38.31	384
7319	3.14	.03	3.11	27.84	5.40	22.44	7.45	14.99	417
7322	7.54	.08	7.46	45.55	9.32	36.23	13.93	22.30	536
7323	7.02	.03	6.99	42.19	9.63	32.56	11.06	21.50	632
7324	7.85	.04	7.81	63.92	7.95	55.97	18.61	37.36	420
7325	7.65	.04	7.61	49.80	7.15	42.65	18.88	23.77	403
7326	7.37	.02	7.35	43.13	6.29	36.84	14.90	21.94	493
7328	6.70	.04	6.66	65.52	10.44	55.08	19.57	35.51	340
7329	7.35	.01	7.34	63.46	9.83	53.63	20.32	33.31	361
7330	8.05	.01	8.04	50.71	7.86	42.85	18.60	24.25	432
7331	6.75	.05	6.70	35.50	5.66	29.84	12.54	17.30	534
7333	7.38	.07	7.31	44.55	8.36	36.19	17.67	18.52	414
7334	5.89	.04	5.85	46.93	5.50	41.43	15.53	25.90	377
7335	8.11	.12	7.99	47.77	6.32	41.45	14.97	26.48	534
7336	5.73	1.33	4.40	37.74	5.40	32.34	11.14	21.20	395
7337	5.96	.04	5.92	59.74	16.32	43.42	15.48	27.94	382
7339	6.78	.03	6.75	64.02	11.46	52.56	23.32	29.24	289
7340	5.76	.04	5.72	54.51	10.04	44.47	19.03	25.44	301
7341	6.94	.01	6.93	67.09	9.18	57.91	20.98	36.93	330
7342	7.86	.06	7.80	46.33	8.62	37.71	15.61	22.10	500
7343	5.93	.02	5.91	16.43	3.53	12.90	5.99	6.91	987
7344	7.19	.02	7.17	33.00	6.41	26.59	11.55	15.04	621
7345	8.43	.03	8.40	75.47	8.43	67.04	20.88	46.16	402
7346	5.67	.02	5.65	38.04	4.92	33.12	13.38	19.74	422
7348	6.30	.01	6.29	48.24	7.64	40.60	16.71	23.89	376
7349	7.85	.03	7.82	58.97	8.35	50.62	19.69	30.93	397
7350	4.36	.02	4.34	24.42	2.48	21.94	10.21	11.73	425
7351	2.74	.02	2.72	15.92	.63	15.29	5.37	9.92	507
7353	2.77	.10	2.67	13.85	1.85	12.00	3.41	8.59	783
7355	6.74	.04	6.70	85.11	10.92	74.19	23.10	51.09	290
7356	7.63	.03	7.60	62.68	9.76	52.92	19.22	33.70	395
7357	7.16	.03	7.13	85.26	15.41	69.85	22.05	47.80	323
7358	6.28	.11	6.17	59.93	6.19	53.74	16.17	37.57	382
7359	3.22	.00	3.22	25.07	2.92	22.15	6.92	15.23	465
7360	4.46	.02	4.44	31.15	4.07	27.08	8.30	18.78	535
7361	7.38	.02	7.36	52.51	7.85	44.66	22.02	22.64	334
7362	5.87	.14	5.73	54.75	7.00	47.75	14.19	33.56	404

1	Kg. (wet)	1	Grams (dry)	1	1
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Sample No.	Bulk	+10 Mesh	Table Feed	Table Conc.	Mags.	NonMags.	M.I.Heav.	M.I.Lites	Con.F.
7363	6.28	.04	6.24	54.02	6.18	47.84	16.45	31.39	379
7364	6.97	.02	6.95	54.06	7.02	47.04	17.23	29.81	403
7365	7.35	.03	7.32	58.90	7.03	51.87	15.14	36.73	483
7366	5.55	.03	5.52	41.45	6.07	35.38	16.54	18.84	334
7367	6.21	.03	6.18	51.05	5.81	45.24	12.59	32.65	491
7369	5.78	.01	5.77	49.13	6.81	42.32	14.87	27.45	388
7370	7.67	.01	7.66	62.20	9.66	52.54	18.48	34.06	415
7371	7.16	.01	7.15	57.78	9.07	48.71	16.61	32.10	430
7372	7.07	.01	7.06	62.48	8.80	53.68	22.56	31.12	313
7373	7.17	.03	7.14	61.04	8.74	52.30	14.50	37.80	492
7374	7.69	.01	7.68	69.03	10.16	58.87	20.81	38.06	369
7375	6.92	.02	6.90	48.98	9.40	39.58	13.52	26.06	510
7376	6.27	.01	6.26	45.95	7.05	38.90	13.03	25.87	480
7377	5.44	.00	5.44	51.97	5.29	46.68	12.33	34.35	441
7379	6.53	.10	6.43	79.65	9.38	70.27	33.11	37.16	194
7380	6.30	.04	6.26	43.97	7.64	36.33	17.09	19.24	366
7381	6.85	.10	6.75	58.94	13.24	45.70	19.24	26.46	351
7382	7.01	.09	6.92	46.25	9.42	36.83	19.84	16.99	349
7383	5.35	.04	5.31	50.07	7.44	42.63	23.49	19.14	226
7384	6.49	.01	6.48	58.45	7.52	50.93	17.07	33.86	380
7385	4.49	.01	4.48	41.07	5.38	35.69	12.68	23.01	353
7387	6.17	.12	6.05	44.57	7.73	36.84	15.48	21.36	391
7388	4.97	.12	4.85	42.04	5.92	36.12	17.79	18.33	273
7389	6.64	.01	6.63	50.45	7.61	42.84	15.31	27.53	433
7390	6.10	.02	6.08	51.97	6.85	45.12	15.21	29.91	400
7391	2.74	.01	2.73	21.01	2.23	18.78	5.03	13.75	543
7393	5.88	.07	5.81	63.60	11.60	52.00	21.03	30.97	276
7394	5.99	.03	5.96	62.95	8.24	54.71	19.82	34.89	301
7395	6.46	.17	6.29	75.06	8.96	66.10	19.00	47.10	331
7396	6.37	.01	6.36	85.57	9.75	75.82	23.77	52.05	268
7397	6.22	.01	6.21	68.37	8.47	59.90	17.36	42.54	358
7398	6.52	.02	6.50	69.95	8.53	61.42	18.62	42.80	349
7399	4.68	.00	4.68	60.17	6.40	53.77	13.17	40.60	355
7400	4.54	.07	4.47	34.99	3.76	31.23	9.81	21.42	456
7402	5.61	.01	5.60	70.54	8.19	62.35	17.91	44.44	313
7403	5.49	.09	5.40	40.47	7.00	33.47	12.89	20.58	419
7404	6.67	.04	6.63	48.28	9.08	39.20	17.68	21.52	375
7405	6.87	.04	6.83	75.54	8.39	67.15	18.95	48.20	360
7407	5.29	.06	5.23	66.51	8.76	57.75	18.53	39.22	282
7408	5.48	.05	5.43	53.26	8.13	45.13	16.18	28.95	336
7409	7.68	.06	7.62	57.81	7.23	50.58	15.40	35.18	495
7410	6.82	.17	6.65	68.35	9.25	59.10	19.79	39.31	336

1	Kg. (wet)	1	Grams (dry)	1	1
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Sample No.	Bulk	+10 Mesh	Table Feed	Table Conc.	Mags.	NonMags.	M.I.Heav.	M.I.Lites	Con.F.
7411	6.15	.02	6.13	63.82	6.24	57.58	15.95	41.63	384
7412	8.46	.02	8.44	63.89	9.84	54.05	19.21	34.84	439
7413	6.96	.19	6.77	60.27	7.63	52.64	15.48	37.16	437
7414	2.32	.00	2.32	6.14	.94	5.20	2.16	3.04	1074
7416	6.15	.01	6.14	91.31	8.72	82.59	19.40	63.19	316
7417	2.35	.02	2.33	9.13	.81	8.32	2.50	5.82	932
7419	5.66	.08	5.58	59.34	7.29	52.05	15.35	36.70	364
7420	5.90	.07	5.83	60.89	7.48	53.41	18.26	35.15	319
7422	7.89	.02	7.87	60.50	8.87	51.63	17.29	34.34	455
7424	6.30	.05	6.25	48.69	7.67	41.02	15.06	25.96	415
7426	6.01	.01	6.00	60.75	6.35	54.40	13.96	40.44	430
7427	6.24	.02	6.22	43.47	5.68	37.79	12.51	25.28	497
7428	7.53	.01	7.52	57.86	9.38	48.48	16.85	31.63	446
7429	6.94	.02	6.92	63.50	8.78	54.72	20.00	34.72	346
7430	6.32	.04	6.28	46.10	7.14	38.96	15.79	23.17	398
7431	7.12	.01	7.11	52.37	9.88	42.49	17.70	24.79	402
7432	7.50	.28	7.22	51.87	8.90	42.97	16.91	26.06	427
7433	5.87	.02	5.85	37.83	6.97	30.86	12.27	18.59	477
7434	8.86	.03	8.83	56.00	7.74	48.26	16.66	31.60	530
7436	6.30	.03	6.27	60.87	9.78	51.09	18.57	32.52	338
7437	7.33	.03	7.30	60.83	11.02	49.81	20.49	29.32	356
7438	5.89	.02	5.87	38.54	4.47	34.07	9.74	24.33	603
7439	8.69	.07	8.62	37.30	7.68	29.62	12.35	17.27	698
7440	7.12	.30	6.82	51.28	5.65	45.63	21.47	24.16	318
7442	7.68	.05	7.63	65.12	9.85	55.27	22.05	33.22	346
7443	6.42	.14	6.28	61.31	8.12	53.19	18.75	34.44	335
7444	5.68	.05	5.63	49.58	7.46	42.12	15.95	26.17	353
7445	5.89	.06	5.83	36.77	5.48	31.29	11.26	20.03	518
7447	6.74	.04	6.70	63.44	8.44	55.00	17.51	37.49	383
7448	5.19	.03	5.16	60.81	5.89	54.92	14.49	40.43	356
7449	6.67	.02	6.65	53.26	6.79	46.47	13.81	32.66	482
7450	7.77	.02	7.75	60.67	6.38	54.29	18.55	35.74	418
7453	6.96	.03	6.93	50.08	8.25	41.83	15.17	26.66	457
7454	5.95	.11	5.84	66.12	8.06	58.06	17.92	40.14	326
7455	5.84	.08	5.76	40.22	6.47	33.75	11.75	22.00	490
7456	6.48	.02	6.46	45.12	7.40	37.72	15.69	22.03	412
7457	6.77	.10	6.67	49.80	5.83	43.97	14.91	29.06	447
7458	6.44	.03	6.41	45.37	6.93	38.44	14.11	24.33	454
7459	5.65	.03	5.62	46.58	10.55	36.03	18.77	17.26	299
7460	5.80	.02	5.78	42.88	7.61	35.27	14.21	21.06	407
7463	6.55	.15	6.40	51.08	7.96	43.12	15.39	27.73	416
7464	6.67	.11	6.56	58.80	8.65	50.15	17.56	32.59	374

1	Kg. (wet)	1	Grams (dry)	1	1
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Sample No.	Bulk	+10 Mesh	Table Feed	Table Conc.	Mags.	NonMags.	M.I.Heav.	M.I.Lites	Con.F.
7465	6.18	.13	6.05	46.66	7.77	38.89	14.85	24.04	407
7466	7.37	.01	7.36	41.45	6.01	35.44	12.78	22.66	576
7467	4.49	.02	4.47	35.68	3.91	31.77	8.96	22.81	499
7468	7.06	.01	7.05	50.22	8.55	41.67	17.90	23.77	394
7469	5.10	.01	5.09	50.02	6.80	43.22	15.97	27.25	319
7472	9.88	.05	9.83	47.27	9.85	37.42	15.56	21.86	632
7473	7.81	.21	7.60	46.64	7.46	39.18	15.90	23.28	478
7474	7.08	.05	7.03	44.38	5.16	39.22	13.78	25.44	510
7475	7.55	.31	7.24	52.19	11.08	41.11	20.10	21.01	360
7476	8.55	.38	8.17	77.36	14.94	62.42	23.33	39.09	350
7509	7.08	.08	7.00	48.43	11.55	36.88	20.43	16.45	343
7510	6.14	.04	6.10	39.79	10.13	29.66	16.17	13.49	377
7511	13.16	.03	13.13	53.50	13.14	40.36	19.23	21.13	683
7575	7.79	.26	7.53	43.01	6.10	36.91	14.92	21.99	505
7576	6.40	.06	6.34	43.35	7.33	36.02	17.03	18.99	372
7577	5.89	.06	5.83	53.12	6.79	46.33	14.98	31.35	389
7578	6.24	.02	6.22	26.47	4.03	22.44	8.11	14.33	767
7580	7.62	.21	7.41	61.88	9.73	52.15	20.09	32.06	369
7581	8.27	.07	8.20	74.29	7.90	66.39	20.82	45.57	394
7582	6.02	.03	5.99	44.27	9.96	34.31	17.95	16.36	334
7583	7.16	.23	6.93	50.42	7.53	42.89	17.24	25.65	402
7584	3.19	.15	3.04	28.08	3.99	24.09	9.82	14.27	310
7585	9.23	.12	9.11	52.82	7.65	45.17	21.81	23.36	418
7586	6.78	.05	6.73	36.18	8.64	27.54	16.64	10.90	404
7587	5.17	.04	5.13	43.33	5.97	37.36	13.43	23.93	382
7589	7.52	.02	7.50	54.59	10.34	44.25	19.50	24.75	385
7590	6.84	.10	6.74	35.25	5.13	30.12	10.75	19.37	627
7591	3.76	.02	3.74	23.91	2.37	21.54	6.37	15.17	587
7594	7.51	.02	7.49	63.62	9.08	54.54	20.18	34.36	371
7595	2.32	.02	2.30	28.14	2.37	25.77	7.04	18.73	327
7596	6.25	.03	6.22	62.71	10.11	52.60	23.77	28.83	262
7598	7.35	.05	7.30	51.98	9.74	42.24	18.99	23.25	384
7599	6.09	.10	5.99	63.54	7.00	56.54	18.51	38.03	324
7600	5.68	.02	5.66	53.68	16.96	36.72	23.81	12.91	238
7601	6.32	.05	6.27	63.94	8.60	55.34	20.11	35.23	312
7602	6.58	.08	6.50	73.48	8.99	64.49	25.23	39.26	258
7603	6.32	.05	6.27	59.58	9.30	50.28	19.46	30.82	322
7604	7.90	.05	7.85	66.18	7.39	58.79	20.17	38.62	389
7605	6.36	.10	6.26	49.13	6.12	43.01	17.67	25.34	354
7607	6.33	.03	6.30	60.96	7.99	52.97	22.01	30.96	286
7608	6.53	.15	6.38	39.37	6.26	33.11	16.60	16.51	384
7609	11.90	.65	11.25	74.53	9.28	65.25	27.88	37.37	404

1	Kg. (wet)	1	Grams (dry)	1	1
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Sample No.	Bulk	+10 Mesh	Table Feed	Table Conc.	Mags.	NonMags.	M.I.Heav.	M.I.Lites	Con.F.
7610	5.70	.17	5.53	21.54	3.76	17.78	9.39	8.39	589
						Average -	16.37		419
						Standard -	4.72		124
						Deviation			

Ministry of
Northern Development
and Mines



42H08NE0049 2.10047 NEWMAN

900

June 18, 1987

Your File: 99/87
Our File: 2.10047

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

Dear Sir:

RE: Overburden Drilling submitted under Section 77(19)
of the Mining Act R.S.O. 1980 on Mining Claims
L 738926, et al, in Newman and Tomlinson Townships

The enclosed statement of assessment work credits for Overburden
Drilling have been approved as of the above date.

Please inform the recorded holder of these mining claims and
so indicate on your records.

Yours sincerely,

Gary L. Weatherson, 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: Grandad Resources Ltd
Seal River Explorations Limited
Suite 1104
55 Yonge Street
Toronto, Ontario
M5E 1J4

F.J. Sharpley
2372 Sinclair Circle
Burlington, Ontario
L7P 3C3

Resident Geologist
Kirkland Lake, Ontario

J. Richards
P.O. Box 1044
33 Iroquois Road
Timmins, Ontario
P4N 7H6

Encl.

2.10047 11 0 1

Type of Work(s): Reverse Circulation Overburden Drilling
 Township or Area: Newman & Tomlinson
 Claim Holder(s): Grandad Resources Ltd./ Seal River Explorations Limited
 Prospector's Licence No.: T-1685 / T-1841
 Address: 55 Yonge Street, Suite 1104, Toronto, Ontario M5E 1J4
 Survey Company: Bradley Bros.
 Date of Survey (from & to): 19 01 87 to 22 02 87
 Total Miles of line Cut: _____
 Name and Address of Author (of Geo-Technical report): J. Richards, P. O. Box 1044, 33 Iroquois Road, Timmins, Ontario P4N 7H6

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 - Magnetometer	
For each additional survey: using the same grid: Enter 20 days (for each)	Radiometric - Other Geological	
Man Days	Geophysical	Days per Claim
Complete removal of overburden and preparation of logs	Electromagnetic - Magnetometer - Radiometric - Other Geological Geochemical	
Airborne Credits	Electromagnetic Magnetometer Radiometric	Days per Claim

Mining Claims Traversed (List in numerical sequence)

Mining Claim		Expend. Days Cr.	Mining Claim		Expend. Days Cr.
Prefix	Number		Prefix	Number	
L	738918	60	L	738944	60
	19	60		45	60
	20	60		46	60
	21	60		47	60
	22	60		738954	60
	23	60		55	60
	24	60		56	60
	25	60		57	60
	26	60		58	60
	27	60		59	60
	28	60		60	60
	29	60		61	60
	30	60		62	60
	31	60		63	60
	32	60		64	60
	738936	60		65	60
	37	60		66	60
	38	60		67	60
	39	60		68	60
	40	60		738972	60
	41	60		73	60
	42	60		74	60
	43	60		75	60

Expenditures (excludes power stripping)

Type of Work Performed: Overburden Drilling; Sec. 77-19
 Performed on Claim(s): _____
 Calculation of Expenditure Days Credits:
 Total Expenditures: \$ 131,841.45 ÷ 15 = Total Days Credits: 8,789

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: March, 16 1987
 Recorded Holder or Agent (Signature): *J. Sharpley*

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: F. J. Sharpley, 2372 Sinclair Circle, Burlington, Ontario L7P 3C3

Date Certified: March, 16 1987
 Certified by (Signature): *J. Sharpley*

For Office Use Only
 Total Days Cr. Recorded: 8160
 Date Recorded: MAR 17 1987
 Mining Recorder: *M. G. Warner*
 Date Approved as Recorded: _____
 Branch Director: _____

Mining Act

"Expenditures" section may be entered in the "Expend. Days Cr." columns. - Do not use shaded areas below.

Type of Survey(s)		Township or Area	
Claim Number(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)			

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	
	- Magnetometer	
	- Radiometric	
	- Other	
For each additional survey: using the same grid: Enter 20 days (for each)	Geological	
	Geochemical	
Man Days	Geophysical	Days per Claim
Complete reverse side and enter on all here	- Electromagnetic	
	- Magnetometer	
	- Radiometric	
	- Other	
Airborne Credits	Geological	
	Geochemical	
Note: Special provisions credits do not apply to Airborne Surveys.	Electromagnetic	
	Magnetometer	
	Radiometric	

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MAR 17 1987
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[Signature]

Mining Claims Traversed (List in numerical sequence)

Mining Claim		Expend. Days Cr.	Mining Claim		Expend. Days Cr.
Prefix	Number		Prefix	Number	
L	801925	60	L	858250	60
	26	60		51	60
	27	60		52	60
	28	60		53	60
	29	60		54	60
	30	60		55	60
	31	60		56	60
	32	60		57	60
	33	60		58	60
	34	60		59	60
	35	60		60	60
	36	60		61	60
	37	60		62	60
	858240	60		63	60
	41	60		64	60
	42	60		65	60
	43	60		66	60
	44	60		67	60
	45	60		68	60
	46	60		920179	60
	47	60		920180	60
	48	60			
	49	60			

Expenditures (excludes power stripping)

Type of Work Performed	
Performed on Claim(s)	
Calculation of Expenditure Days Credits	
Total Expenditures	Total Days Credits
\$ <input style="width: 100px;" type="text"/>	÷ 15 = <input style="width: 50px;" type="text"/>
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. 136

For Office Use Only	
Total Days Cr. Recorded	Date Recorded
	MAR 17 1987
Date Approved as Recorded	Mining Recorder
	Branch Director

Date	Recorded 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)

Mining Act

Expenditures section may be entered in the "Expend. Days Cr." columns - Do not use shaded areas below.

Type of Survey(s)		Township or Area	
Claim Holder(s) Grandad Resources Limited/Seal River Explorations Limited		Prospector's Licence No. T-1685/ T-1841	
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)			

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	
	- 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	
<div style="border: 2px solid black; padding: 5px; width: fit-content; margin: auto;"> <p style="font-size: 2em; font-weight: bold; margin: 0;">RECEIVED</p> <p style="margin: 0;">MAR 17 1987</p> <p style="margin: 0;">2:50 PM</p> </div>	- Magnetometer	
	- Radiometric	
	- Other	
	Geological	
	Geochemical	
Airborne Credits		Days per Claim
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.
L	738976	60	L	800092	60
	77	60		93	60
	78	60		94	60
	79	60		95	60
	80	60		96	60
	81	60		97	60
	82	60		98	60
	83	60		99	60
	84	60		800100	60
	85	60		101	60
	86	60		102	60
	800080	60		103	60
	81	60		801914	60
	82	60		801915	60
	83	60		16	60
	84	60		17	60
	85	60		18	60
	86	60		19	60
	87	60		20	60
	88	60		21	60
	89	60		22	60
	90	60		23	60
	91	60		24	60

Expenditures (excludes power stripping)

Type of Work Performed

Performed on Claim(s)

Calculation of Expenditure Days Credits

Total Expenditures	÷	15	=	Total Days Credits
\$ <input style="width: 100px;" type="text"/>				<input style="width: 100px;" type="text"/>

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. 136

For Office Use Only			
Total Days Cr. Recorded	Date Recorded	Mining Recorder	
	MAR 17 1987		
	Date Approved as Recorded	Branch Director	

Date	Recorded 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)
--	----------------	--------------------------

AMENDED

Recorded Holder
 GRANDAD RESOURCES LTD/SEAL RIVER EXPLORATIONS LIMITED

Township or Area
 NEWMAN AND TOMLINSON TOWNSHIPS

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.	\$131,841.45 SPENT ON OVERBURDEN DRILLING ON MINING CLAIMS: L 738926 to 29 inclusive 738932 738944 to 47 inclusive 738963 to 65 inclusive 738968 738979 738980 to 82 inclusive 738985 801928 to 33 inclusive 801936 858240 858243-44 858247-48 858250 858253 858256 858259 858262 858267 8789 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.

MIKWAM RIVER PROPERTY - Newman & Tomlinson Townships

R C Drilling Expenditures
January 19th -February 22, 1987
Assessment Work

1. Bradley Bros. - January 19-31/87	\$ 35,931.50
2. Overburden Exploration Services Ltd. January 19-February 1, 1987	6,200.00
3. Camp Costs - OES - Re: Abitibi Camp 33	1,139.95
4. Bradley Bros. - February 1 - 15th, 1987	38,670.00
5. Overburden Exploration Services Ltd. February 2-15th, 1987	5,600.00
6. Bradley Bros. - February 16-22nd, 1987	25,300.00
7. Overburden Exploration Services Ltd. February 16-20th, 1987	2,000.00
8. Overburden Exploration Services Ltd. Lab Work: 500spl\$ @ \$34.	17,000.00
9. X-Ray Assay Lab: 611 spl\$ x 14.= \$8,554	
10. M.J. LaBelle Construction: Road Construction \$59,000	
11. OES: 111 spl\$ @ \$34.= 3,774	
	<hr/>
	\$131,841.45

$131,841.45 \div 15 = \$8,789.43$ dayswork

136 Claims = 64.62 days/claim

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MAY 15 1987
MINING LANDS SECTION

MIKWAM RIVER PROPERTY - Newman & Tomlinson Township, Ontario

List A of Claims Drilled - 1987

L 801936	L858244
738985	858247
738979	
738982	248
81	858250
80	253
738968	256
965	259
64	262
63	267
920180	
920179	
738929	
738928	
27	
26	
738932	
738947	
46	
45	
44	
801928	
801929	
801930	
31	
32	
33	
858240	
858242	

CHESBAR RESOURCES INC.

0112

February 20 1987

PAY TO THE ORDER OF BRADLEY BROS. LIMITED \$35,931.50

SUM OF THIRTY-FIVE THOUSAND NINE HUNDRED THIRTY-ONE ***** 50/100 DOLLARS
a/c 800

CHESBAR RESOURCES INC.

 CANADIAN IMPERIAL
BANK OF COMMERCE
MAIN BRANCH-COMMERCE COURT
TORONTO, ONTARIO M5L 1G9

PER *J. McAdams*
John L. Macplem

⑈000112⑈ ⑈000020010⑈ 21⑈17010⑈

BRADLEY BROS. LIMITED

January 31, 1987

CONTRACT DIAMOND DRILLING

Chesbar Resources Inc
601-25 Adelaide St. West
Toronto, Ontario M5C 1Y2

Mikwam Property
Shuply

HOLE No.	TO COVER DIAMOND DRILLING FOR January 19 to 31, 1987				
	FROM	TO	FOOTAGE COMPLETED		
	Mobilization of equipment				\$1,500 00
1	0'	134'	134'		
2	0'	176'	176'		
3	0'	183'	183'		
4	0'	147'	147'		
5	0'	128'	128'		
6	0'	132'	132'		
7	0'	101'	101'		
8	0'	114'	114'		
9	0'	122'	122'		
10	0'	112'	112'		
11	0'	98'	98'		
12	0'	92'	92'		
13	0'	68'	68'		
14	0'	115'	115'		
15	0'	188'	188'		
16	0'	143'	143'		
17	0'	123'	123'		
18A	0'	108'	108'		
18B	0'	121'	121'		
19	0'	72'	72'		
	Operating hours 104 1/2 hours			\$170.00	17,765 00
	Water Carrier 104 1/2 hours			45.00	4,702 50
	Servicing - Jan.21 - 2 1/2 hours			170.00	425 00
FORWARD					

BRADLEY BROS. LIMITED

January 31, 1987

CONTRACT DIAMOND DRILLING

Chesbar Resources Inc
601-25 Adelaide St. West
Toronto, Ontario M5C 1Y2

HOLE No.	TO COVER DIAMOND DRILLING FOR		
	FROM	TO	
		January 18	October 31, 1987
	Down the hole consumables		
	10 tricone bits	\$685.00 -	\$6850.00
	2 Adaptors	480.00 -	960.00
			<u>7810.00</u>
	Plus 15%		<u>1171.50</u>
			8,981 50
	Travelling		
	6 hours X 3 men X \$27.50		495 00
	Pickup truck \$350.00 X 12 days		600 00
			<u>7 days</u>
	Room & Board		
	Attached		<u>1,462 50</u>
			<u>\$35,931 50</u>

SEAL RIVER EXPLORATIONS LIMITED

0000306

2372 SINCLAIR CIRCLE
BURLINGTON, ONTARIO L7P 3F3

Re: Mikwam River

February 12, 1987

PAY TO THE ORDER OF Overburden Exploration Services Ltd.

\$ 6,200.00

Six Thousand Two Hundred-----XX
100 DOLLARS

THE ROYAL BANK OF CANADA
GUELPH LINE & MAINWAY BRANCH
3030 MAINWAY AVENUE
BURLINGTON, ONT.

SEAL RIVER EXPLORATIONS LIMITED

DEPOSIT TO THE ACCOUNT OF
OVERBURDEN EXPLORATION SERVICES LTD.
CA 100A

J. Sharp

⑆00712⑆003⑆

121⑆237⑆21⑆

⑆0000620000⑆

DEPOSIT TO THE ACCOUNT OF
OVERBURDEN EXPLORATION SERVICES LTD.
ACCT. NO. 116-961-4

116-961-4

3112
94078

⑆33063612

I N V O I C E

February 1, 1987

=====

OVERBURDEN EXPLORATION SERVICES LTD.

Remit Payment to: P.O. Box 1044, Timmins, Ontario P4N 7H6
(705) 267-3600

=====

Seal River Exploration Ltd.
55 Yonge Street
Suite 1104
Toronto, Ontario
M5E 1J4

Att: Mr. F. Sharpley

Re: Mikwan River Overburden Drilling Program -
Pre-drilling and Drilling Phases

Predrilling Preparation -

A. Kuzma - 3 days @ \$200.00/day.....\$ 600.00

Reverse Circulation Drill Crew - Jan 19 - Feb 1, 1987

Kuzma, Arsenault - 14 days @ \$400.00/day.....\$5,600.00

PLEASE REMIT.....\$6,200.00

PLEASE RETURN THE DUPLICATE COPY WITH YOUR REMITTANCE

Payment of this account is due on receipt.
Interest charged on overdue accounts at the rate of 2% a month
after 30 days.

I N V O I C E

February 5, 1987

=====

OVERBURDEN EXPLORATION SERVICES LTD.

Remit Payment to: P.O. Box 1044, Timmins, Ontario P4N 7H6
(705) 267-3600

=====

Seal River Exploration Ltd.
55 Yonge Street
Suite 1104
Toronto, Ontario
M5E 1J4

Att: Mr. F. Sharpley

Re: Mikwam River Overburden Drilling Program

Room/Board and gasoline @ Abitibi camp.....\$1,139.95
(see attached invoice)

PLEASE REMIT.....\$1,139.95

PLEASE RETURN THE DUPLICATE COPY WITH YOUR REMITTANCE

Payment of this account is due on receipt.
Interest charged on overdue accounts at the rate of 2% a month
after 30 days.

CHESBAR RESOURCES INC.

0133

March 31 19 87

PAY TO THE ORDER OF BRADLEY BROS. LIMITED

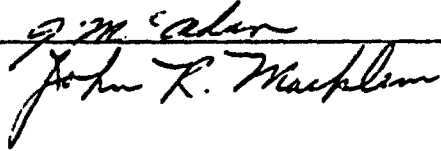
\$ 69,884.15

SUM OF ***SIXTY-NINE THOUSAND EIGHT HUNDRED & EIGHTY-FOUR-----15/100 DOLLARS

a/c 800

CHESBAR RESOURCES INC.

 CANADIAN IMPERIAL
BANK OF COMMERCE
MAIN BRANCH-COMMERCE COURT
TORONTO, ONTARIO M5L 1G9

PER 

⑈000133⑈ ⑆0000200101: 210017010⑈

February 15, 1987

CONTRACT DIAMOND DRILLING

Chenbar Resources Inc
601 - 25 Adelaide St. East
Toronto, Ontario M5C 1Y2

Mikwan Property
F. Murphy
2/28/87

HOLE No.	TO COVER DIAMOND DRILLING FOR February 1 to 15, 1987			
	FROM	TO	FOOTAGE COMPLETED	
SRB-87-19	72'	115'	43'	
20	0'	95'	95'	
21	0'	109'	109'	
22	0'	104'	104'	
23	0'	118'	118'	
24	0'	96'	96'	
25	0'	100'	100'	
26	0'	153'	153'	
27	0'	130'	130'	
28	0'	110'	110'	
29	0'	93'	93'	
30	0'	82'	82'	
31	0'	98'	98'	
32	0'	112'	112'	
33	0'	70'	70'	
34	0'	122'	122'	
35	0'	100'	100'	
36	0'	86'	86'	
37	0'	114'	114'	
38	0'	112'	112'	
39	0'	92'	92'	
40	0'	92'	92'	
41	0'	74'	74'	
42	0'	54'	54'	
72	0'	46'	46'	
71	0'	49'	49'	
70	0'	96'	96'	
69	0'	84'	84'	
68	0'	84'	84'	
67	0'	67'	67'	
66	0'	92'	92'	
65	0'	112'	112'	
64	0'	145'	145'	
Operating hours 122 1/2 hours			\$170.00	\$20,825.00
Water carrier 122 1/2 hours			45.00	5,512.50

**ADLEY
S. S.
LIMITED**

February 15, 1987

CONTRACT DIAMOND DRILLING

Chesbar Resources Inc
601 - 25 Adelaide St. East
Toronto, Ontario M5C 1Y2

HOLE No.	TO COVER DIAMOND DRILLING FOR		February 1 to 15, 1987			
	FROM	TO	FOOTAGE COMPLETED			
			Crew travelling			
			14 hours X 3 men X \$27.50			1,155 00
			Truck -			
			14 days	\$50.00		700 00
			Down the hole consumables			
			10 Tricone bits \$685.00 -	\$6850.00		
			2 Adaptors 480.00 -	960.00		
				<u>7810.00</u>		
			Plus 15%	<u>1171.50</u>		8,981 50
			Servicing			
			Total operating hours -	227		
			Total hours to service	14.5 hrs.		
			Allowance 5%	11.3 "		
			Jan.31 -	<u>2.5</u>		
				8.8 hrs.	170.00	1,496 00
			Room & Board			To Follow
						<u>\$38,670 00</u>

BRADLEY BROS. LIMITED

February 28, 1987

CONTRACT DIAMOND DRILLING

Chesler Resources Inc
801 - 25 Adelaide St. East
Toronto, Ontario M5C 1Y2

HOLE No.	TO COVER DIAMOND DRILLING FOR				
	FROM	TO	FOOTAGE COMPLETED		
			February 16 to 22, 1987		
			Down the hole consumables		
			7 tricone bits \$685.00 - \$4795.00		
			2 rods 525.00 - 1050.00		
			2 Adaptors 480.00 - 960.00		
				<u>6805.00</u>	
			Plus 15%	<u>1020.75</u>	7,825 75
			Meals -		
			January 26 to February 21 -		5,910 90
			(Invoice to follow)		
			Demobilization		1,500 00
				<u>\$31,214 15</u>	

BRADLEY BROS. LIMITED

MAR 4 1987
RECEIVED

February 25, 1987

CONTRACT DIAMOND DRILLING

Chegar Resources Inc
601 - 25 Adelaide St. East
Toronto, Ontario M5C 1Y2

HOLE No.	TO COVER DIAMOND DRILLING FOR February 16 to 22, 1987		
	FROM	TO	FOOTAGE COMPLETED
SRE-87-63	0'	95'	95'
62	0'	89'	89'
61	0'	149'	149'
60	0'	188'	188'
59	0'	112'	112'
58	0'	110'	110'
57	0'	98'	98'
56	0'	92'	92'
55	0'	62'	62'
54	0'	60'	60'
53	0'	82'	82'
52	0'	113'	113'
51	0'	58'	58'
50	0'	60'	60'
49	0'	40'	40'
48	0'	88'	88'
47	0'	87'	87'
46	0'	41'	41'
45	0'	34'	34'
44A	0'	42'	42'
44B	0'	57'	57'
43	0'	43'	43'
	Operating hours		
	70 hours	\$170.00	\$11,900.00
	Water carrier		
	70 hours	45.00	3,150.00
	Crew travelling -		
	7 days X 3 men X \$27.50		577.50
	Truck rental -		
	7 days	50.00	350.00
FORWARD			

I N V O I C E

February 11, 1987

=====

OVERBURDEN EXPLORATION SERVICES LTD.

Remit Payment to: P.O. Box 1044, Timmins, Ontario P4N 7H6
(705) 267-3600

=====

Seal River Exploration Ltd.
55 Yonge Street
Suite 1104
Toronto, Ontario
M5E 1J4

Att: Mr. F. Sharpley

Re: Mikwan River Overburden Drilling Program - Reverse
Circulation Drill Crew

Field time to date - Feb 2 - 15 (incl.), 1987
Kuzma, Arsenault - 14 days @ \$400.00/day.....\$5,600.00

Advance billing - February 16 - 20 (incl.), 1987
Kuzma, Arsenault - 5 days @ \$400.00/day.....\$2,000.00

PLEASE REMIT.....\$7,600.00

PLEASE RETURN THE DUPLICATE COPY WITH YOUR REMITTANCE

Payment of this account is due on receipt.
Interest charged on overdue accounts at the rate of 2% a month
after 30 days.

I N V O I C E

February 11, 1987

=====

OVERBURDEN EXPLORATION SERVICES LTD.

Remit Payment to: P.O. Box 1044, Timmins, Ontario P4N 7H6
(705) 267-3600

=====

Seal River Exploration Ltd.
55 Yonge Street
Suite 1104
Toronto, Ontario
M5E 1J4

Att: Mr. F. Sharpley

Re: Mikwam River Overburden Drilling Program - Reverse
Circulation Drill Crew

Field time to date - Feb 2 - 15 (incl.), 1987
Kuzma, Arsenault - 14 days @ \$400.00/day.....\$5,600.00

Advance billing - February 16 - 20 (incl.), 1987
Kuzma, Arsenault - 5 days @ \$400.00/day.....\$2,000.00

PLEASE REMIT.....\$7,600.00

PLEASE RETURN THE DUPLICATE COPY WITH YOUR REMITTANCE

Payment of this account is due on receipt.
Interest charged on overdue accounts at the rate of 2% a month
after 30 days.

CHESBAR RESOURCES INC.

0107

February 20 19 87

PAY TO THE ORDER OF OVERBURDEN EXPLORATION SERVICES LTD. \$ 17,000.00

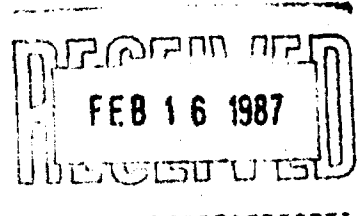
SUM OF *** SEVENTEEN THOUSAND and 00/100 *** /100 DOLLARS
a/c 800

CHESBAR RESOURCES INC.

 CANADIAN IMPERIAL
BANK OF COMMERCE
MAIN BRANCH-COMMERCE COURT
TORONTO, ONTARIO M5L 1G9

PER *J. McAdam*
John L. Macpherson

⑈000107⑈ ⑆00002⑈0101: 21⑈17010⑈



I N V O I C E

February 11, 1987

OVERBURDEN EXPLORATION SERVICES LTD.

Remit Payment to: P.O. Box 1044, Timmins, Ontario P4N 7H6
(705) 267-3600

CHESBAR RESOURCES INC.
25 Adelaide Street East,
Suite 106,
Toronto, Ontario
M5C 1Y2

Att: Mr. F. Sharpley

Re: Preparation of heavy mineral concentrates from reverse
circulation samples - Mikwam River Project
Please note: panning charges unknown - to be billed at
later date.

373 samples @ \$34/sample (holes 1 - 41).....\$12,682.00
(Preparation of heavy mineral concentrates)

127 samples @ \$34/sample - Advanced billing (holes 42+)
(Preparation of heavy mineral concentrates).....\$ 4,318.00

PLEASE REMIT.....\$17,000.00

PLEASE RETURN THE DUPLICATE COPY WITH YOUR REMITTANCE

Payment of this account is due on receipt.
Interest charged on overdue accounts at the rate of 2% a month
after 30 days.

(Company)	<i>Chesbar Res. Inc.</i>
(Project)	<i>Mikwam</i>
(Folio No.)	<i>Dr. 311</i>
(Date)	
(Approved)	<i>[Signature]</i>

CHESBAR RESOURCES INC.

0108

February 20 19 87

PAY TO THE ORDER OF M.J. LABELLE CO. LTD. \$ 46,000.00

SUM OF *** FORTY SIX THOUSAND and 00/100 *** /100 DOLLARS
a/c 800

CHESBAR RESOURCES INC.

 CANADIAN IMPERIAL
BANK OF COMMERCE
MAIN BRANCH-COMMERCE COURT
TORONTO, ONTARIO M5L 1G9

PER

J. McClellan
John R. Macpherson

⑈000108⑈ ⑆00002⑈010⑆ 21⑈17010⑈

- ROAD BUILDERS
- ALL TYPES OF AGGREGATES
- EQUIPMENT RENTALS
- CONTRACT CRUSHING
- FLOAT SERVICE

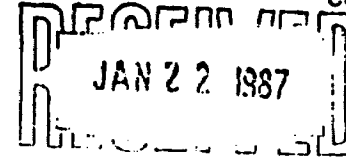
M. J. LABELLE CO. LTD.



Contractors

Telex 067-81556
Telephone (705) 272-4201

17.1st St. - P.O. Box 610
COCHRANE, ONT.
P0L 1C0



INVOICE

87-7

SOLD TO
 • Chesbar Resources Inc.
 • 25 Adelaide St. E.
 Suite 601
 • Toronto, Ontario
 MSC 1Y2

January 19 1987

Please Pay from INVOICE - Statement sent only on request

CUSTOMER'S ORDER No. _____

DATE	Terms: Net 30 days - 1 1/2% Interest Per Month Charged On Past Due Accounts	RATE	DEBIT	CREDIT
1987	To construct winter road in Newman Township for exploration program, as per agreement		\$46,000.00	
Jan. 19				

(Company)	<u>Chesbar</u>
(Project)	<u>Wickwood</u>
(Folio No.)	_____
(Date)	_____
(Approved By)	<u>[Signature]</u>

CHESBAR RESOURCES INC.

0124

March 31 19 87

PAY TO THE M.J. LABELLE CO. LTD.
ORDER OF

\$ 13,000.00

SUM OF ***THIRTEEN-THOUSAND-----00 100 DOLLARS

a/c 800

CHESBAR RESOURCES INC.

 CANADIAN IMPERIAL
BANK OF COMMERCE
MAIN BRANCH-COMMERCE COURT
TORONTO, ONTARIO M5L 1G9

PER *J. M. Gordon*
John R. Macpherson

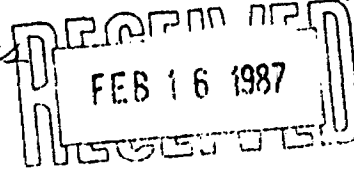
⑈000124⑈ ⑆00002⑈010⑆ 21⑈17010⑈

- ROAD BUILDERS
- ALL TYPES OF AGGREGATES
- EQUIPMENT RENTALS
- CONTRACT CRUSHING
- FLOAT SERVICE

M. J. LABELLE CO. LTD.



Contractors



Telex 067-81556
Telephone (705) 272-4201

17-1st St. - P.O. Box 810
COCHRANE, ONT.
P0L 1C0

INVOICE

SOLD • Chesbar Resources Inc.
TO 25 Adelaide St. E.
• Suite 601
Toronto, Ontario
• MSC 1Y2

87-86
February 12 1987

Please Pay from INVOICE - Statement sent only on request

CUSTOMER'S ORDER No. _____

DATE	Terms: Net 30 days - 1 1/2% Interest Per Month Charged On Past Due Accounts	RATE	DEBIT	CREDIT
1987 Jan. 19 to Feb. 21	Maintenance of winter road in Newman Township as per agreement		\$13,000.00	
<div data-bbox="357 1574 1023 1915" data-label="Text"> <p>(Company) <u>Chesbar</u> (Project) <u>McKeown</u> (Folio No.) _____ (Date) _____ (Approved by) <u>[Signature]</u></p> </div>				

(Company) Chesbat Res Inc.
 (Project) Mikwam River
 (Folio No.) _____
 (Date) 5/1/87
 (Approved by) F. Sharpley

RECEIVED
 APR 29 1987
 REGISTERED

April 21, 1987

OVERBURDEN EXPLORATION SERVICES LTD.

Remit Payment to: P.O. Box 1044, Timmins, Ontario P4N 7H6
 (705) 267-3600

CHESBAR RESOURCES INC.
 25 Adelaide Street East,
 Suite 106,
 Toronto, Ontario
 M5C 1Y2

Att: Mr. F. Sharpley

Re: Preparation of heavy mineral concentrates from reverse
 circulation samples - Mikwam River Project

31 samples @ \$34/sample\$ 1,054.00
 (Preparation of heavy mineral concentrates)

 Overweight sample 2 kg overweight @ \$1.50/kg over 15kg..\$ 3.00

 141 samples @ \$22/sample
 (Panning and gold grain mineralogical count).....\$ 3,102.00

 Bedrock chips: sorting, sampling, binocular microscope
 examination and identification
 18 hours @ \$30.00/hr.....\$ 540.00

PLEASE REMIT.....\$ 4,699.00

PLEASE RETURN THE DUPLICATE COPY WITH YOUR REMITTANCE

Payment of this account is due on receipt.
 Interest charged on overdue accounts at the rate of 2% a month
 after 30 days.

CHESBAR RESOURCES INC.

0142

April 15 19 87

PAY TO THE ORDER OF X-RAY ASSAY LABORATORIES INC. \$ 3827.00

SUM OF ****THREE-THOUSAND EIGHT-HUNDRED & TWENTY SEVEN-----00 /100 DOLLARS

a/c 800

CHESBAR RESOURCES INC.

 CANADIAN IMPERIAL
BANK OF COMMERCE
MAIN BRANCH-COMMERCE COURT
TORONTO, ONTARIO M5L 1G9

PER

John L. Macpherson

⑈000142⑈ ⑈000020010⑈ 210017010⑈

XRAL

X-RAY ASSAY LABORATORIES INC.

1885 LESLIE STREET • DON MILLS ONTARIO M3B 1S4 • (416) 445-5755

COPY TO:

RECEIVED
APR 24 1987
LABORATORIES

CHESBAR RESOURCES
ATTN: F. J. SHARPLEY
25 ADELAIDE STREET EAST, SUITE 601
TORONTO, ONTARIO
M5G 1Y2

CHESBAR RESOURCES
ATTN: F. J. SHARPLEY
25 ADELAIDE STREET EAST, SUITE 601
TORONTO, ONTARIO
M5G 1Y2

INVOICE NO.	CUSTOMER NO.	WORK ORDER NO.	DATE SUBMITTED
31735	1384	27314	25-MAR-87
TERMS			
TERMS NET 30 DAYS 1.5% PER MONTH INTEREST ON ACCOUNT OVER 30 DAYS			

S.P.O. NO.	CLIENT PROJECT NO.	TYPE OF SAMPLES SUBMITTED
		HEAVY MINERAL CO

PKGS	SHIPPED VIA	WAY BILL NO.	SHIPPED FROM
BOX	PUROLATOR	58199225	TIMMINS

QUANTITY	DESCRIPTION METHOD	XRAL CODE	UNIT COST	AMOUNT
21	L-VIAL, 14-1 (LOT)	14,20, 0, 0, 0	16.50	346.50
50	M-VIAL, 14-1 (LOT)	14,20, 0, 0, 0	14.50	725.00
			SUB-TOTAL	\$ 1071.50

(Company) Chesbar Resources
 (Project) Mill Lake Project
 (File No.) _____
 (Date) April 23, 1987
 (Approved By) [Signature]

SHIPPING CHARGES	CUSTOM BROKERAGE	TELEX	MINIMUM CHARGES
MISC. CHARGES	OTHER		SURCHARGE - RUSH SERVICE

ORIGINAL INVOICE **TOTAL IN** **CDN** **\$ 1071.50**

AL

X-RAY ASSAY LABORATORIES INC.

1885 LESLIE STREET • DON MILLS ONTARIO M3B 3J4

COPY TO:

APR 24 1987

CHESBAR RESOURCES
 ATTN: F. J. SHARPLEY
 25 ADELAIDE STREET EAST, SUITE 601
 TORONTO, ONTARIO
 M5G 1Y2

CUSTOMER NO. 1384

INVOICE NO.	INVOICE DATE	WORK ORDER NO.	DATE SUBMITTED
31771	21-APR-87	27410	3-APR-87
TERMS			
TERMS NET 30 DAYS 1.5% PER MONTH INTEREST ON ACCOUNT OVER 30 DAYS			

CHESBAR RESOURCES
 ATTN: F. J. SHARPLEY
 25 ADELAIDE STREET EAST, SUITE 601
 TORONTO, ONTARIO
 M5G 1Y2

CLIENT PROJECT NO.	TYPE OF SAMPLES SUBMITTED
	PULP

PKGS	SHIPPED VIA	WAY BILL NO.	SHIPPED FROM
	POH		

QUANTITY	DESCRIPTION METHOD	XRAL CODE	UNIT COST	AMOUNT
1	L-VIAL, 14-2 (LOT) MINIMUM CHARGES APPLIED AGAINST THIS INVOICE	14, 20, 0, 0, 0	16.50	

Company) Chesbar Resources
 (Project) Mikwam Project
 (Folio No.) _____
 (Date) April 23, 1987
 (Approved By) [Signature]

SHIPPING CHARGES	CUSTOM BROKERAGE	TELEX	MINIMUM CHARGES	
			35.00	
DISC. CHARGES	OTHER	SURCHARGE: RUSH SERVICE		\$ 35.00

ORIGINAL INVOICE TOTAL IN \rightarrow CDN \$ 35.00

VIAL

X-RAY ASSAY LABORATORIES INC.

1885 LESLIE STREET • DON MILLS ONTARIO M3B 3J4 • (416) 445-5755

COPY TO:

CHESBAR RESOURCES
ATTN: F. J. SHARPLEY
25 ADELAIDE STREET EAST, SUITE 601
TORONTO, ONTARIO
M5G 1Y2

CUSTOMER NO. 1384

INVOICE NO.	INVOICE DATE	WORK ORDER NO.	DATE SUBMITTED
31797	23-APR-87	27236	18-MAR-87

TERMS

TERMS NET 30 DAYS
1.5% PER MONTH INTEREST ON ACCOUNT OVER 30 DAYS

CHESBAR RESOURCES
ATTN: F. J. SHARPLEY
25 ADELAIDE STREET EAST, SUITE 601
TORONTO, ONTARIO
M5G 1Y2

IS P.O. NO.	CLIENT PROJECT NO.	TYPE OF SAMPLES SUBMITTED HEAVY MINERAL CO
-------------	--------------------	--

PKGS 1 BOX	SHIPPED VIA PURULATOR	WAY BILL NO. 58199229	SHIPPED FROM TIMMINS
----------------------	---------------------------------	---------------------------------	--------------------------------

QUANTITY	DESCRIPTION METHOD	XRAL CODE	UNIT COST	AMOUNT
1. 13	L-VIAL, 14-2 (LOT)	14,20, 0, 0, 0	16.50	214.50
2. 69	M-VIAL, 14-2 (LOT)	14,20, 0, 0, 0	14.50	1000.50
SUB-TOTAL				\$ 1215.00

(Company) Chesbar Resources
 (Project) Mikwan Project
 (Folio No.) _____
 (Date) _____
 (Approved By) [Signature]

RECEIVED
APR 27 1987
LABORATORIES

SHIPPING CHARGES	CUSTOM BROKERAGE	TELEX	MINIMUM CHARGES
MISC. CHARGES	OTHER	SURCHARGE - RUSH SERVICE	

ORIGINAL INVOICE **TOTAL IN** **CDN** **\$ 1215.00**

X-RAY ASSAY LABORATORIES INC.

1885 LESLIE STREET • DON MILLS ONTARIO M3B 3J4 • (416) 445-5755

COPY TO:

ORIGINAL
 CHESBAR RESOURCES
 ATTN: F. J. SHARPLEY
 25 ADELAIDE STREET EAST, SUITE 601
 TORONTO, ONTARIO
 M5G 1Y2

MITTED TO:

CHESBAR RESOURCES
 ATTN: F. J. SHARPLEY
 25 ADELAIDE STREET EAST, SUITE 601
 TORONTO, ONTARIO
 M5G 1Y2

CUSTOMER NO. 1384			
INVOICE NO	INVOICE DATE	WORK ORDER NO	DATE SUBMITTED
31881	30-APR-87	27492	10-APR-87
TERMS			
TERMS NET 30 DAYS 1.5% PER MONTH INTEREST ON ACCOUNT OVER 30 DAYS			

INVOICE NO.	CLIENT PROJECT NO.	TYPE OF SAMPLES SUBMITTED
		HEAVY MINERAL CD

PKGS	SHIPPED VIA	WAYBILL NO.	SHIPPED FROM
1 BOX	PURULATOR	58199224	TINMINS

QUANTITY	DESCRIPTION METHOD	XRAL CODE	UNIT COST	AMOUNT
1. 24	L-VIAL, 14-2(LOT)	14, 20, 0, 0, 0	16.50	396.00
2. 55	M-VIAL, 14-2(LOT)	14, 20, 0, 0, 0	14.50	797.50
			SUB-TOTAL	\$ 1193.50

(Company) Chesbar Resources
 (Project) Mikwam
 (Folio No.) _____
 (Date) 5/1/87
 (Approved By) Sharpley

SHIPPING CHARGES	CUSTOM BROKERAGE	TELEX	MINIMUM CHARGES
OTHER	SURCHARGE - RUSH SERVICE		

ORIGINAL INVOICE TOTAL IN \$ CDN \$ 1193.50

IAL

X-RAY ASSAY LABORATORIES INC.

1885 LESLIE STREET • DON MILLS ONTARIO M3B 3J4 • (416) 445-5755

COPY TO:

CHESBAR RESOURCES
ATTN: F. J. SHARPLEY
25 ADELAIDE STREET EAST, SUITE 601
TORONTO, ONTARIO
M5G 1Y2

MITTED TO

CHESBAR RESOURCES
ATTN: F. J. SHARPLEY
25 ADELAIDE STREET EAST, SUITE 601
TORONTO, ONTARIO
M5G 1Y2

INVOICE NO.		CUSTOMER NO. 1334	
31740	INVOICE DATE	20-APR-87	WORK ORDER NO. 27482
		DATE SUBMITTED 9-APR-87	
TERMS			
TERMS NET 30 DAYS 1.5% PER MONTH INTEREST ON ACCOUNT OVER 30 DAYS			

TS P.O. NO.	CLIENT PROJECT NO.	TYPE OF SAMPLES SUBMITTED
		PULP

PKGS	SHIPPED VIA	WAY BILL NO.	SHIPPED FROM
	POH26973		

QUANTITY	DESCRIPTION METHOD	XRAL CODE	UNIT COST	AMOUNT
1	AU MINIMUM CHARGES APPLIED AGAINST THIS INVOICE	50,10, 7, 0, 0, 0	7.50	

(Company) Chesbar Resources
 (Project) Mikwan
 (Folio No.) Dr. 311
 (Date) _____
 (Approved By) [Signature]

SHIPPING CHARGES	CUSTOM BROKERAGE	TELEF	MINIMUM CHARGES	
			35.00	
OTHER			SURCHARGE - RUSH SERVICE	\$ 35.00

ORIGINAL INVOICE **TOTAL IN** \$ 35.00

2.10047



42H08NE0049 2.10047 NEWMAN

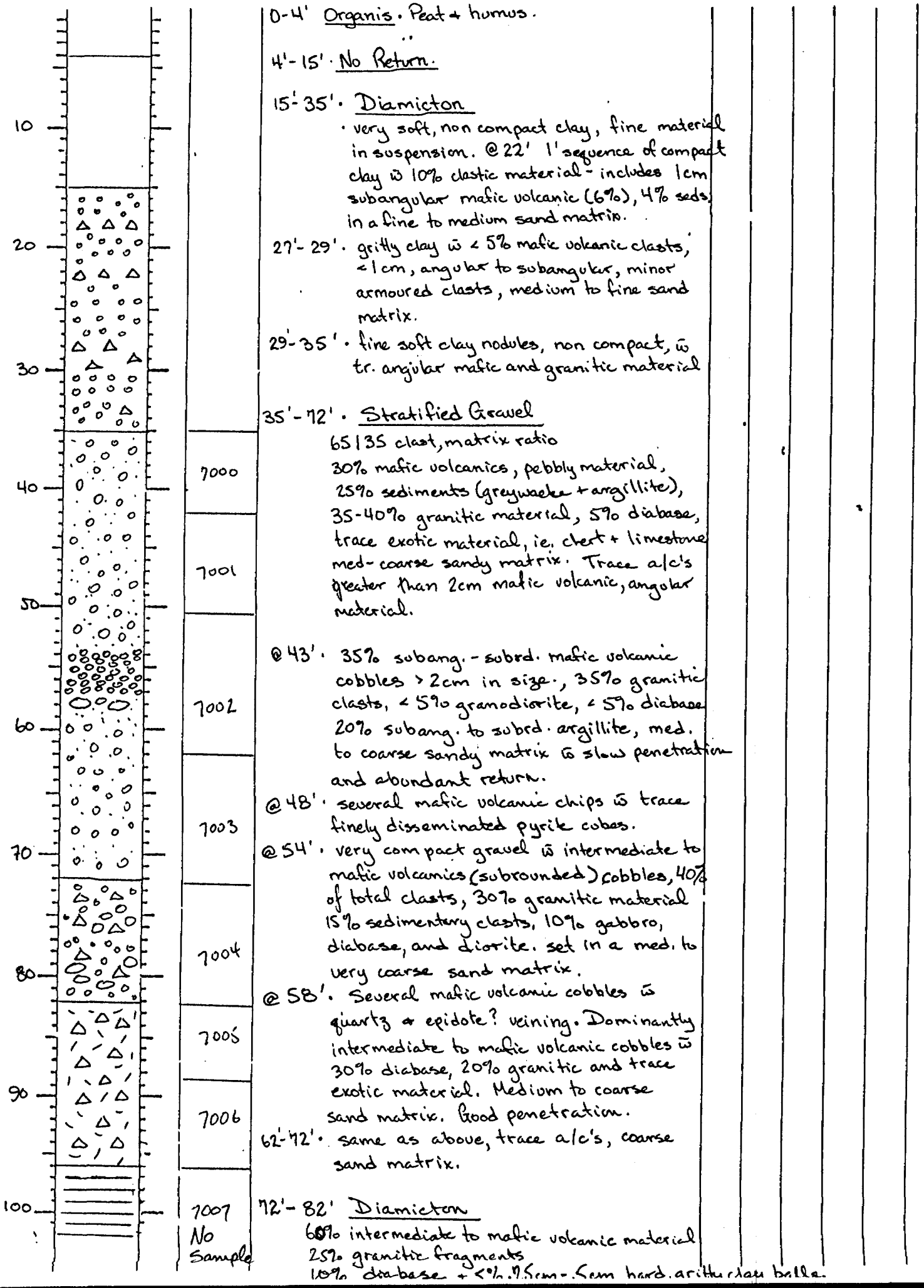
020

CHESBAR RESOURCES INC.
Drill Hole Logs
1987 Reverse Circulation Drilling
Mikwam River Property
Tomlinson & Newman Twps, Ontario
by
Overburden Exploration Services Ltd
V.II

OVERBURDEN EXPLORATION SERVICES LTD
REVERSE CIRCULATION DRILL HOLE LOG

DATE 20 1987 HOLE NO. SRE-87-01 LOCATION Line 40 W; Strn 7+005
 GEOLOGIST AJK DRILLER Dw BIT NO./FTG. 1000553
 SHIFT HOURS 7:00 TO 5:00 p MOVE TO HOLE 7:00a - 12:00p / 12-1:30 BIT NO./FTG. _____
 DRILLING 2:00p - 4:30pm. [↳] Drill preparation + warm-up. 1:00-2:00 wait for water
 MECHANICAL DOWN TIME 4:30-5:00 bleed compressor - water in hydraulics.
 DRILLING PROBLEMS _____
 OTHER _____
 TOTAL HOURS 10 MOVE TO NEXT HOLE _____

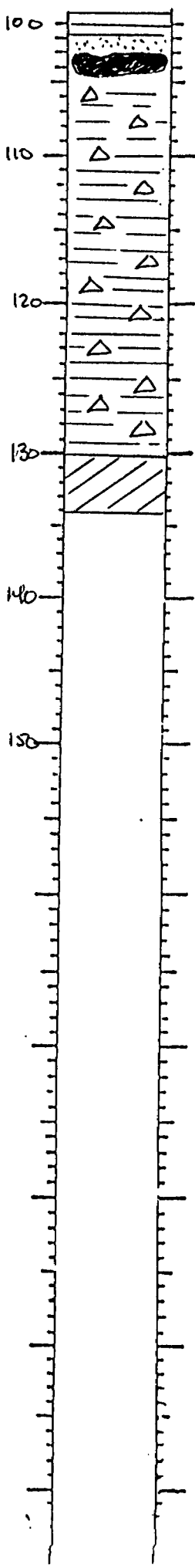
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 Depth | Graphic | Int | Sample | Descriptive Log | | | | | |
 (m) | Log | | No. | | | | | | | |
 =====



OVERBURDEN EXPLORATION SERVICES LTD
REVERSE CIRCULATION DRILL HOLE LOG

DATE 20 1987 HOLE NO. SRE-87-01 LOCATION _____
 GEOLOGIST AJK DRILLER _____ BIT NO./FTG. _____
 SHIFT HOURS _____ MOVE TO HOLE _____ BIT NO./FTG. _____
7 TO 10 DRILLING 6:45-7:45 prep to drill / 7:45-9:15 wait for water / 9:15-11:00 drilling
 MECHANICAL DOWN TIME _____
 TOTAL HOURS _____ DRILLING PROBLEMS Wait for water
 OTHER _____
 MOVE TO NEXT HOLE 11:30-11:45

=====
 Depth | Graphic | Int | Sample | Descriptive Log | | | | | | | |
 (m) | Log | | No. | | | | | | | |
 =====

100				72'-82' Diamicton (continued) • fine to medium sand matrix. @15' mafic volcanic cobbles w trace alc's, no visible clay balls.
		7008		
		7009		@80' dominantly foliated granitic cobbles w 35% mafic volcanics, dominantly coarse sand matrix. Trace alc's. SS/4S matrix clast ratio. Trace exotic clasts, ie. chert, limestone + jasper, <1cm, spherical + well rounded.
		7010		
		7011		82'-98' TILL
		7012		85% hard, gritty, clay balls .5 to 1.5cm in diameter, very fine silty to clay -10 return, mafic volcanic cobbles + boulders (15% of total content).
		7013		
		7014		86'-87' granitic cobbles + minor argillite fragments. 20% hard gritty clay balls of total +10 return. @87' 95% hard, gritty clay balls w minor mafic volcanic + argillite, trace granitic material @91' granite cobbles + boulders 92-93.5' mafic volcanic boulder (x'talline flow) containing .25cm feldspar phenocrysts • quartz veining. 93.5-96' mixture of mafic volcanic, intermed. volcanic and granitic cobbles + boulders in a very fine to fine silty matrix.
				96-101 lacustrine Clay • very fine, silty clay, soft to compact • good penetration.
				101-102 v.f sand.
				102-103.5 mafic volcanic boulder.
				103.5-130' Till (Diamicton) • +10 return includes 30% hqcb's, .5cm in diameter, 50% intermediate to mafic volcanics (includes tufts + flows), + 20% granitic material. • very fine silty clay matrix • several mafic armoured clasts, 1-2cm in size, subangular in shape.
				STOP HOLE AT 106' AT 4:30p (Jan. 20/87).
				Jan. 21/87 continued.....
				106'-107' Dacitic Boulder - tr. finely disseminated pyrite, fine grained, light grey/green, weakly altered.

OVERBURDEN EXPLORATION SERVICES LTD
 REVERSE CIRCULATION DRILL HOLE LOG

DATE Jan 21 1987

HOLE NO. SRE-87-01 LOCATION L. 40w, Sta 7+00S

SHIFT HOURS

GEOLOGIST AJK DRILLER Duv

BIT NO./FTG. 100553

7 TO 5

MOVE TO HOLE

BIT NO./FTG. 134'

DRILLING 9:15-11:00 | 11:00-11:15 pull rods | 11:45-11:30 move to next hole.

MECHANICAL DOWN TIME

TOTAL HOURS

DRILLING PROBLEMS - water hose frozen at water source.

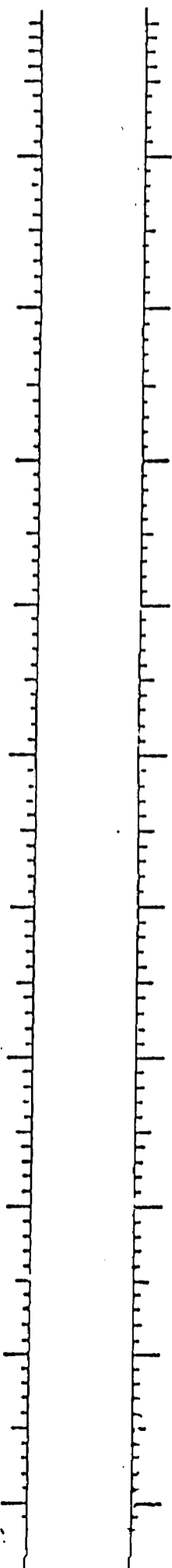
10

OTHER

MOVE TO NEXT HOLE

6:45 a - 7:45 a - prep to drill 7:45 - 9:15 wait for water

Depth (m)	Graphic Log	Int'l Sample No.	Descriptive Log
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- 107-107.5' Thin clay horizon, soft, non compact clay - non gritty.
- 108' Dacitic + Andesitic cobbles + boulders.
- 110' 25% hgcb's .5 to 1cm in diameter 75% clasts includes 40% subang. to ang mafic volcanics, poor sphericity, 15% - 20% granitic clasts, and 10% argillite fragments, rounded to subrounded, poor sphericity set in a fine sand matrix.
- 110.5' hgcb's increase to 65%, 1-2cm in diameter w 35% clastic material dominantly mafic volcanics + granitics
- 116' 90% soft gritty clay balls .25 to .5cm w medium to coarse sand. Thin beds of sub ang. mafic volcanic clasts - 6% are < 1cm in size, + 4% contain fragmented granite cobbles.
 Inter beds of thin gravels containing intermediate to mafic volcanics, minor argillite + granite cobbles. Trace armoured clasts. Fine to coarse sand - 10 return. Good penetration, moderate return.
- 121.5' same as above.
- @ 124' 65% soft gritty clay balls w 35% mafic volc. + granitic cobbles Trace armoured clasts on granitic material. Fine to coarse sand matrix
- 130'-134' BEDROCK
 dark grey, fine grained, thinly bedded argillite. No visible mineralization.

OVERBURDEN EXPLORATION SERVICES LTD
 REVERSE CIRCULATION DRILL HOLE LOG

DATE 6/21/87

HOLE NO. SRE-81-02 LOCATION Line 38W; Str. 6+715

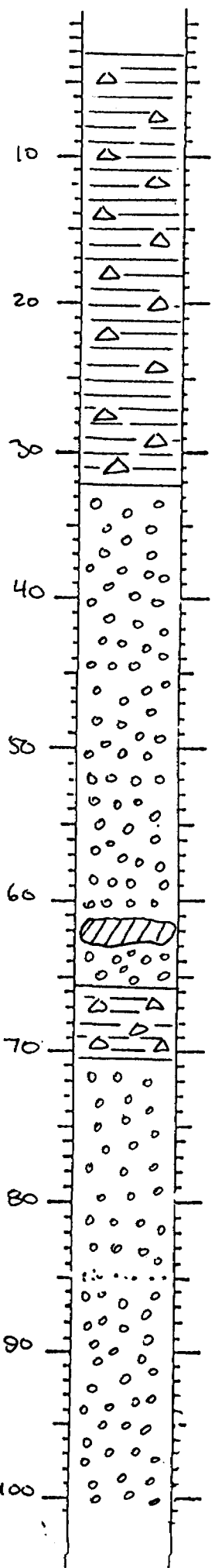
SHIFT HOURS
7:00 TO 5:00

GEOLOGIST AJK DRILLER Dow BIT NO./FTG. 1000553
 MOVE TO HOLE _____ BIT NO./FTG. 134'+176'=310'
 DRILLING 11:45-5:00 p / 5:00-5:15 drill shut down

TOTAL HOURS
10

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

=====
 Depth | Graphic | Int | Sample | Descriptive Log | | | | | | |
 (m) | Log | | | No. | | | | | | |
 =====



0-3' Organics

3'-32'. DIAMICTON (COCHRANE TYPE)
 • soft, non gritty clay balls, non compact.
 • 95% +10 return = clay while <5% consists of mafic volcanic and granitic pebbles + cobbles, set in a fine silt matrix. Clastic material shows good roundness + moderate sphericity. Medium grey colored clay becomes more gritty at 23'.

32'-65.5' GRAVEL
 • 1' gravel horizon followed by soft, medium grey colored, slightly gritty clay from 33' to 35.5'.

35.5'-43'. 45% granitic, 40% mafic + int. volcanics, 15% sedimentary material, with trace exotics (ie limestone, jasper, well rounded w good sphericity). Clastic material well rounded w poor to good sphericity over 1cm in size. Trace armoured clasts. Good penetration + abundant return. Matrix-clast ratio = 70/30%

43'-53.5'. similar to above - clasts increase to cobble size from 43-45'. Gravel shows stratification. 5% increase in diabasic material. Matrix-clast ratio = 80/20% w dominant coarse sand return. Trace barren quartz vein material at 50.5'.

53.5'-57'. cobble size granites, mafic volcanics, and biotite schist. Trace exotics include fossiliferous limestone, epidote, + cherty material. Matrix-clast ratio = 75/25%

60.5'-62'. Granitic boulder followed by mafic volcanic and granitic cobbles. Fragment outline shows good rounding. Coarse sand -10 return.

65.5'-71.5' TILL (DIAMICTON)
 • 60% gritty clay balls .25-.5cm in diameter decreasing to 5% at 67'. Trace mafic armoured clasts, angular, poor sphericity, 1cm in size. Fine sand -10 return. 60% mafic, 40% granitic pebbles + cobbles. Clay content increased to 75% at 70'. 5% argillitic, mafic, and granitic armoured clasts. Trace wedge shaped clasts. Matrix-clast ratio = 80/20%. Clay content decreasing to 5% at 71'.

71.5'-110.5' GRAVEL
 • slow penetration, abundant return
 • 80/20 clast-matrix ratio
 • 60% granitic, 40% mafic pebbles + cobbles
 • well rounded clast w high to low sphericity
 • low. coarse - med. sand in -10 return

7015
7016
7017
NO SAMPLE
7018
7019
7020
7021
7022

OUR BURDEN EXPLORATION SERVICES LTD
 REVERSE CIRCULATION DRILL HOLE LOG

DATE 01 22 1987

HOLE NO. SRE-87-02 LOCATION L-38W; Strn 6+715

SHIFT HOURS
7 TO 5

GEOLOGIST ASK DRILLER DON BIT NO./FTG. 1000553

MOVE TO HOLE _____ BIT NO./FTG. 310'

TOTAL HOURS
10

MECHANICAL DOWN TIME _____

DRILLING PROBLEMS _____

OTHER _____

MOVE TO NEXT HOLE _____

Depth (m)	Graphic Log	Int'l Sample No.	Descriptive Log
-----------	-------------	------------------	-----------------

100		7023	71.5' - 110.5' GRAVEL (continued.....) • trace granitic wedge shaped + armored clasts. At 80'; 5% of the +10 return contains .25-.5 cm very hard lithified gritty clay balls - 6" horizon.
110		7024	85' • trace .25-.5cm hard gritty clay balls, wedge shaped, + armored clasts. 65% granitic cobbles, spherical + well rounded .5cm mat. 35% mafic's, dominantly pebbles and cobbles more angular and less spherical. Dominantly coarse sand return. Trace quartz vein material (barren) and rounded limestone clasts (1cm, spherical). Matrix-clast ratio = 60/40%.
120		7025	94.5' mafic volcanic cobble + trace cubic pyrite, moderately chloritized, weakly carbonatized.
130		7026	97'-102' • dominantly granitic cobbles. Medium to coarse sand -10 return. 75/25 matrix clast ratio.
140		7027	103' • moderate penetration - abundant return + some washing in of material.
150		7028	105'-109' • mafic tuff, volcanic's (flaw) + minor granitic cobbles.
160		7029	110.5'-116' TILL (DIAMICTON) .25-1.0cm hard gritty clay balls. Trace mafic armored and wedge shaped clasts. Clay content ≈ 80%. 15% granitic material ranging from 0.5cm to cobble size. 5% mafics subangular, poor sphericity. Medium to coarse -10 return.
170		7030	116'-171' GRAVEL + DIAMICTON INTERBEDS. Trace mafic armored and wedge shaped clasts. Moderate penetration, abundant return.
180		7031	70/30 granitic vs. mafic clasts - dominantly cobbles. Pebbles subrounded to subangular, poor sphericity. Medium to coarse -10 return. @ 118' barren quartz vein material. Trace jasper and limestone spheres.
190			@ 123' - 1' horizon of .25-1cm hard gritty clay balls. 80% clay vs 20% clasts. 12% mafic vs. 8% granitic, <1cm in size, subrounded, moderate to good sphericity. Till unit followed by gravel - good penetration and abundant return.
200			126'-127' • mafic volcanic boulder - fine grained dark grey/green, mod. chloritized. Trace cream colored, medium grained sandstone (quartzite) 1cm. spherical clasts
			128' • granitic cobbles - medium - coarse sand return in -10. Mafic + sedimentary

DATE 19 HOLE NO. SRE-87-02 LOCATION L-38W; Str 6+715
 GEOLOGIST AJK DRILLER Dow BIT NO./FTG. 1002553
 SHIFT HOURS TO MOVE TO HOLE BIT NO./FTG. 310'
 DRILLING
 MECHANICAL DOWN TIME
 TOTAL HOURS DRILLING PROBLEMS
 OTHER
 MOVE TO NEXT HOLE

=====
 Depth | Graphic | Int | Sample | Descriptive Log | | | | | |
 (m) | Log | | No. | | | | | | | |
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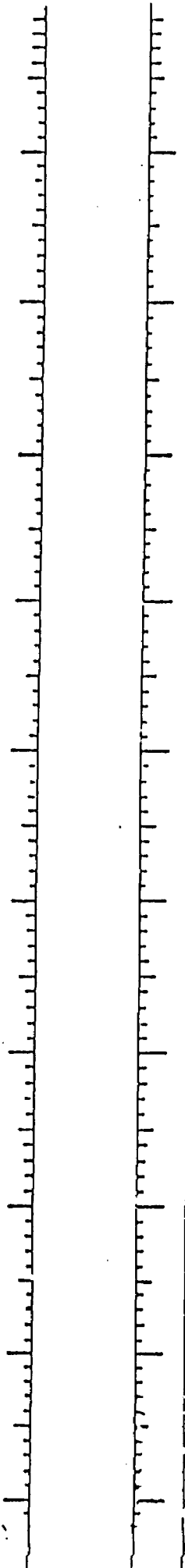
116'-171' GRAVEL (continued)
 clasts show good to poor sphericity, rounded edges, >1cm sized pebbles.
 @136'. several mafic volcanic cobbles w abundant qtz. veining-no visible sulphides.
 136.5'. trace .5cm hard gritty clay balls + armoured clasts.
 139'. pebble sized clasts, well rounded, spherical, 65/35 granitic vs. mafic within a fine to coarse sand matrix.
 141.5'-142.5'. 5% hard gritty clay balls < 1cm in diameter.
 142.5'. 55/45 granitic vs mafic pebbles + cobbles well rounded. clasts w poor to good sphericity Trace limestone spheres. Medium to coarse -10 return.
 149.5'. < 5% argillite fragments w trace finely disseminated pyrite.
 150'. 6" horizon of soft gritty clay balls.
 150.5-152- dominantly granitic cobbles.
 153'-162'. 60/35/5 granitic vs. mafic vs. argillite Sedimentary clasts are subangular w poor sphericity. Mafics + granitics range from 0.5cm to cobble size. Well rounded, spherical, minor clasts are subangular. Medium to coarse, -10 return. Good penetration, (sand) abundant return. 70/30 matrix-clast ratio
 168'. 45/45/10. mafic/granitic/argillite rounded, w medium to poor sphericity. Medium to coarse sand matrix. 75/25 matrix-clast ratio.

171'-172' FRAGMENTED BEDROCK
 Thinly bedded, fine grained, black argillite. Trace to 0.5% finely disseminated pyrite. Appears slightly graphitic.

172'-173' Regolith
 . very dark grey to black fine gritty clay.

173-176'. Argillite similar to above
 Hardness of 6.5 - thin qtz. stringers.

STOP AT 176'



**OVERBURDEN EXPLORATION SERVICES LTD
REVERSE CIRCULATION DRILL HOLE LOG**

DATE 01 22 19 87

HOLE NO. SRE-87-03 LOCATION L-36 W / Str. 6+965

GEOLOGIST AJK DRILLER Dan BIT NO./FTG. 1000636 - 183'

SHIFT HOURS

MOVE TO HOLE 8:30-9:00 BIT NO./FTG. re-use bit for shallow hole.

7 TO 5

DRILLING 7:00-8:30 Prep to drill / 8:30-9:00 Move to next hole / 9:00-1:30 drill / 1:30-2:00

MECHANICAL DOWN TIME _____ Pull rods

TOTAL HOURS

DRILLING PROBLEMS _____

10

OTHER _____

MOVE TO NEXT HOLE 2:00-2:30

Depth (m)	Graphic Log	Int Log	Sample No.	Descriptive Log
-----------	-------------	---------	------------	-----------------

				0-2' . Organics
				2'-76' . Stratified Gravel w Interbedded Diamicton
10				2-10' . dominantly medium to coarse sand, light grey-brown in color w several granitic and mafic volcanic cobbles, well rounded (moderate sphericity).
20		7032		@10' . 70% granitic and 30% mafic volcanic clasts. Mafic's <1cm in size, well rounded, w poor to moderate sphericity. Cobble sized granitic material. 80/20% matrix-clast ratio w medium to coarse light brownish grey sand in -10 return.
30		7033		22-32' . same as above w finer sand matrix.
40		7034		32'-42' . 65/30/5 . granitic-mafic-argillitic material. Trace exotic material. Trace granitic armoured clasts. Fine sand matrix. Good penetration - abundant return.
50		7035		50' . 6" horizon of hard, gritty, compact clay, medium grey in color.
60		7036		52'-62' . similar as above (w exception of clay). 58' . Thin unit of soft, gritty clay (<6" in thickness) Soft, gritty, clay balls - <5% of +10 return, .25 to .5 cm in diameter. Trace armoured and wedge shaped clasts. Trace exotic material ie. limestone, sandstone (quartzite) cream colored, + jasper.
70		7037		62'-72' . same as above - fine to coarse sand matrix
80		7038		76'-82' . TILL (DIAMICTON)
90		7039		.70 to 85% soft gritty clay balls, non compact, light brown grey in color. 15 to 30% subrounded to subangular, poor to moderate sphericity clastic material, dominantly granitic material w minor mafic's and argillite. Fine to medium sand matrix. Good penetration - moderate return.
100		7040		Argillitic and mafic wedge shaped and arm- oured clasts. Trace to no soft gritty clay balls at 82' grading back into a gravel.
		7041		82'-156' . GRAVEL
				60/35/5 . granitic-mafic-argillite clasts. Clasts .5 to over 1.5 cm in size, subangular to subrounded, poor to moderate sphericity. Trace mafic armoured and wedge shaped clasts. Medium to coarse sand return. 80/20% matrix clast ratio. Very good penetration, abundant return.

OVERBURDEN EXPLORATION SERVICES LTD
 REVERSE CIRCULATION DRILL HOLE LOG

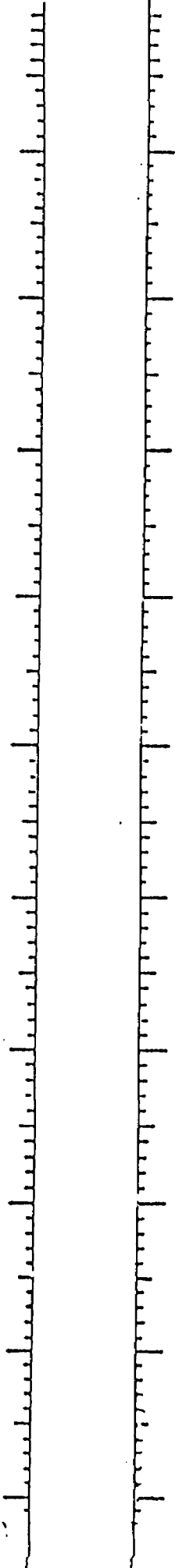
DATE 01 28 1987 HOLE NO. SRE-87-03 LOCATION L. 36W / Stn. 6+965
 GEOLOGIST ASK DRILLER Don BIT NO./FTG. 1000636 - 183'
 SHIFT HOURS 7 TO 6 MOVE TO HOLE _____ BIT NO./FTG. 183'
 DRILLING _____
 MECHANICAL DOWN TIME _____
 TOTAL HOURS 10 DRILLING PROBLEMS _____
 OTHER _____
 MOVE TO NEXT HOLE _____

=====
 Depth | Graphic | Int | Sample | Descriptive Log | | | | | |
 (m) | Log | | No. | | | | | | |
 =====

	<p>97' Trace angular intermediate volcanic clasts w poor sphericity containing 1% pyrite. Weakly chloritized.</p> <p>7042 102'-112'. Same as above</p> <p>109'. Trace granitic and mafic armoured and wedge shaped clasts, subrounded, poor sphericity. Fine to coarse sand return in -10.</p> <p>7043 118'. Trace amounts of quartz-carbonate vein material.</p> <p>122'-130'. gravel unit similar to above. 85/15% matrix-clast ratio. Fine to coarse sand -10 return. Subangular to subrounded mafic and argillite clasts, <1cm, poor sphericity. Subrounded granitic clasts .25 cm to greater than 1.0 cm</p> <p>7044 134'-139'. No return. Assumed to be gravel unit. Very porous-non compact.</p> <p>7045 139'. Fine gravel. <1cm, well rounded clasts 65/30/5. granitic-mafic-sedimentary clasts. Trace exotic clasts. Very quick penetration. 90/10% matrix clast ratio. Several coarse sand interbeds (very thin). Fine to coarse sand -10 return.</p> <p>7046 144'. Slow penetration - abundant return. 65/35. granitic-mafic volcanic. Greater than 1cm granitic cobbles w well rounded edges. Mafic volcanics subrounded to subangular - poor sphericity. Trace armoured and wedge shaped clasts. Fine to coarse sand -10 return.</p> <p>7047 154'-156'. soft gritty clay balls, non compact, medium grey colored. 80% soft clay balls, 20% <1cm clastic material. Subangular to subrounded mafic and granitic clasts. Fine to medium sand. Trace mafic armoured and wedge-shaped clasts.</p> <p>7048</p> <p>No SAMPLE</p> <p>7049 156'. Gravel unit w 60/30/10 granitic-mafic-argillitic clasts. Granites cobble sized, intermediate to mafic clasts subangular, 1cm in size, poor sphericity. Platy argillites, 1.5-0.5 cm, very poor sphericity. Abundant return, good penetration. Medium to coarse sand -10 return. 65/35% matrix clast ratio.</p> <p>7050</p> <p>159.5'. several intermediate volcanic and mafic tuff cobbles - no visible mineralization. - several diabase cobbles, followed by granitics.</p> <p>165'-171.5' LACUSTRINE CLAY . soft non gritty clay balls, non compact, light to medium grey colored, very fine silty clay.</p>
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DATE 22 1987 HOLE NO. SRE-87-03 LOCATION L36W / Sta. 6+965
 GEOLOGIST ASK DRILLER Don BIT NO./FTG. _____
 SHIFT HOURS 7 TO 5 MOVE TO HOLE _____ BIT NO./FTG. _____
 DRILLING _____
 MECHANICAL DOWN TIME _____
 TOTAL HOURS 10 DRILLING PROBLEMS _____
 OTHER _____
 MOVE TO NEXT HOLE _____

=====
 Depth | Graphic | Int | Sample | Descriptive Log | | | | | | | |
 (m) | Log | | No. | | | | | | | | | |
 =====



171.5' - 176.5' GRAVEL
 • 45/40/15 • granitic - mafic + intermediate
 volcanics - argillite clasts. Granitic cobbles
 >1cm. Volcanics 1cm in size w several cobbles,
 subrounded w poor to moderate sphericity.
 Argillite plates, <1.5cm, subangular to subrounded
 Good penetration. Abundant return. Medium
 to coarse sand. Several phyllitic clasts?
 176.5' Thin basal till? 2" horizon above
 bedrock. Trace 0.5cm hard, gritty, clay balls,
 spherical, followed by regolith clay. Dark
 grey colored, soft, non compact, non gritty.

178' - 183' BEDROCK
 Fine grained, thinly laminated argillaceous
 sediment. Dark grey colored, platy clasts.
 Trace fine disseminated pyrite. Argillite (Shale).
 179.5 - 180.5' Regolith clay. soft, gritty. dark
 grey colored.
 180.5 - 183' Argillite w thin clay seams.

STOP HOLE @ 183'.

OVERBURDEN EXPLORATION SERVICES LT
REVERSE CIRCULATION DRILL HOLE LOG

Page 1 of 3

DATE 01 22 19 87

HOLE NO. SRE-87-04 LOCATION L 36 W 5 Str. 7-465

SHIFT HOURS

GEOLOGIST AK DRILLER Don BIT NO./FTG. 1000641 → 147

7a TO 5:00p

MOVE TO HOLE 2:00 - 2:30p. BIT NO./FTG. _____

TOTAL HOURS

DRILLING 2:30 - 4:45 / 4:45 - 5:00 shut down

10 hrs

MECHANICAL DOWN TIME _____

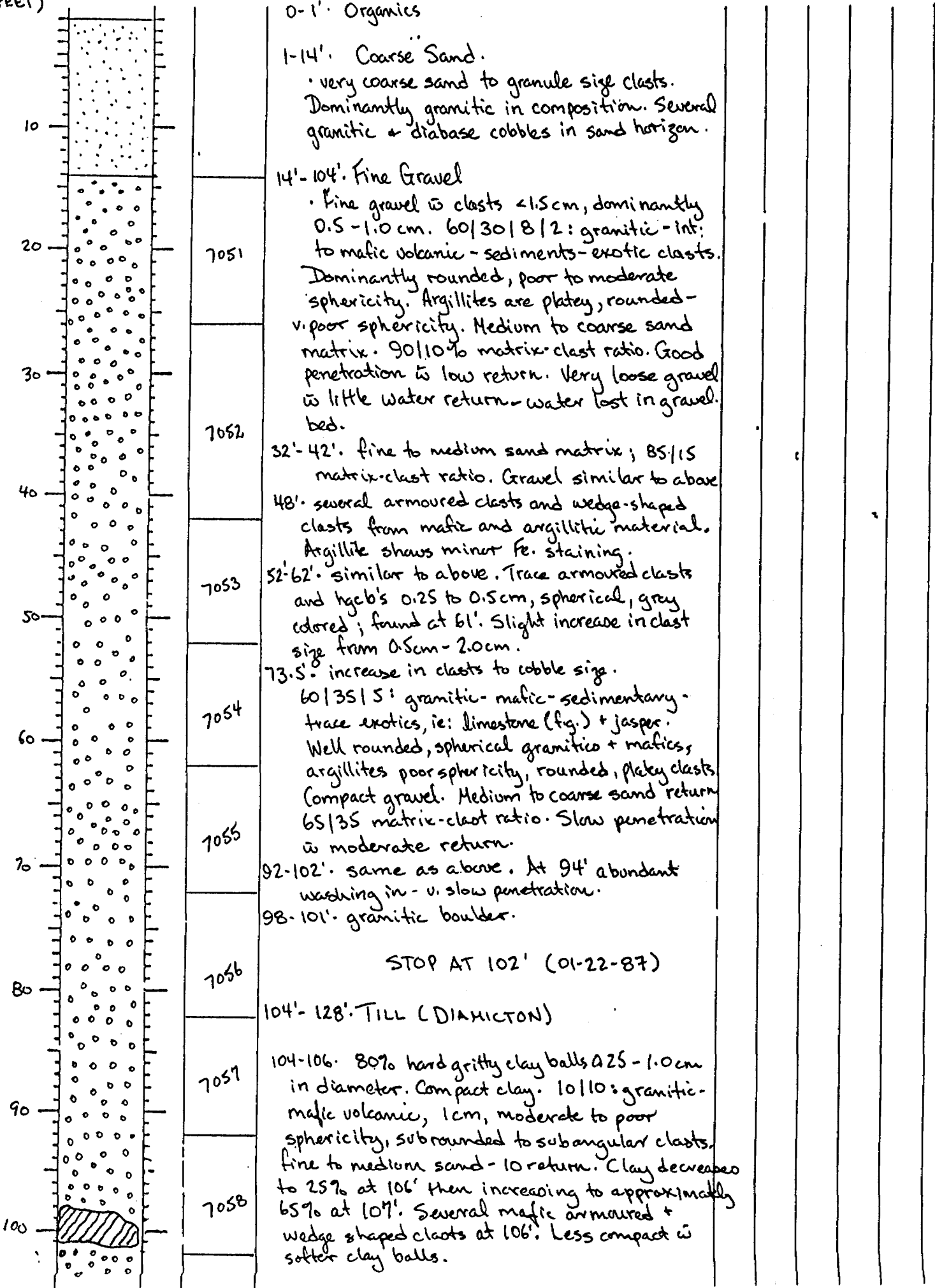
DRILLING PROBLEMS _____

OTHER _____

MOVE TO NEXT HOLE 4:15 - 4:45 (01-23-87)

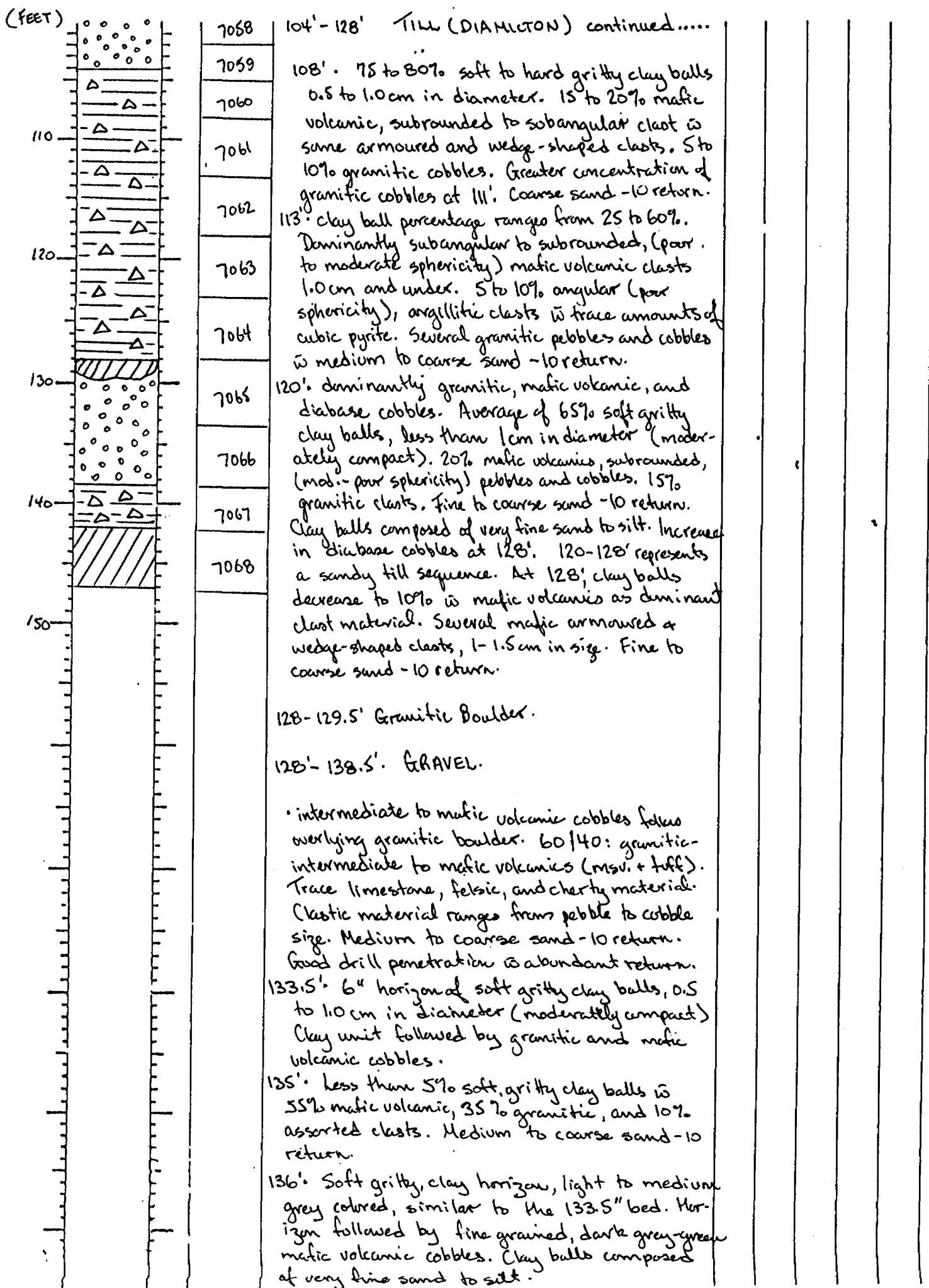
Depth | Graphic | Int | Sample | Descriptive Log
(m) | Log | | No. |

(FEET)



DATE 01 23 1987 HOLE NO. SRE-87-04 LOCATION L36W - Str 7+465
 GEOLOGIST AJK DRILLER Dow BIT NO./FTG. J000641 → 147'
 SHIFT HOURS 7 TO 5 MOVE TO HOLE _____ BIT NO./FTG. _____
 DRILLING 7:45-8:15 | 2:00-3:45 | 3:45-4:15 pull rods
 MECHANICAL DOWN TIME _____
 TOTAL HOURS 10 DRILLING PROBLEMS _____
 OTHER No water - tractor not working - wait for water 8:15-2:00
 MOVE TO NEXT HOLE 4:15-4:45

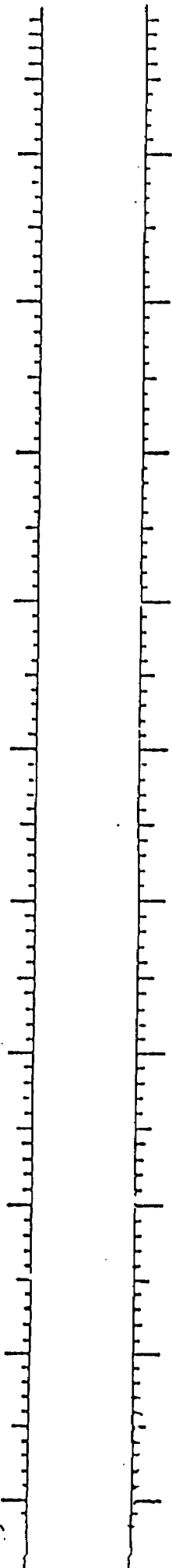
Depth | Graphic | Int | Sample | Descriptive Log | | | | | |
 (m) | Log | | No. | | | | | | |



OVERBURDEN EXPLORATION SERVICES LTD
 REVERSE CIRCULATION DRILL HOLE LOG

DATE 23 1987 HOLE NO. SRE-87-04 LOCATION L 36 W; Str 7+465
 GEOLOGIST ASK DRILLER Daw BIT NO./FTG. 1000641 → 147'
 SHIFT HOURS 7 TO 6 MOVE TO HOLE _____ BIT NO./FTG. _____
 DRILLING _____
 MECHANICAL DOWN TIME _____
 TOTAL HOURS 10 DRILLING PROBLEMS _____
 OTHER _____
 MOVE TO NEXT HOLE _____

Depth (m)	Graphic Log	Int Log	Sample No.	Descriptive Log
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128'-138.5' GRAVEL (continued....)

136' clast size decreased to 0.5 to 1.0cm, rounded to subangular (moderate to poor sphericity) for all clast lithologies. Medium to coarse sand - 10 return.

138.5'-142' Till

95% soft to hard gritty clay balls 0.5 to 0.75 cm in diameter. Medium grey brown to grey-green in color. Fine to coarse sand return. At 141' intermediate and mafic volcanic cobbles, moderately chloritized w no visible sulphide mineralization.

142'-147' BEDROCK (BASALT)

Fine grained mafic volcanic, dark grey-green, H= 3-4, very weakly carbonatized along seams, moderately chloritized, weakly schistose, trace finely disseminated pyrite. Quartz vein at 142.5' with chloritic inclusions and yellow-brown Fe-staining. Thin calcite seams (<0.25cm) at 145'.

STOP AT 147'

DATE 01-24-1981 HOLE NO. SRE-87-05 LOCATION L32W; Sta 7+495
 GEOLOGIST AKJ DRILLER Daw BIT NO./FTG. J000641 → 128+147= 275'
 SHIFT HOURS 7 TO 5p MOVE TO HOLE 4:15 - 4:45 BIT NO./FTG. _____
 DRILLING 8:00 - 12:45 | 12:45 - 1:16 Pull rods
 MECHANICAL DOWN TIME _____
 TOTAL HOURS 10 DRILLING PROBLEMS _____
 OTHER _____
 MOVE TO NEXT HOLE 1:15 - 1:45

Depth | Graphic | Int | Sample | Descriptive Log | | | | | |
 (m) | Log | | No. | | | | | | |

	<p>0-3' • Organics</p> <p>3'-16'. DIAMICTON (COCHRANE-TYPE)</p> <p>• 60% soft gritty clay balls, medium grey colored. • 25% granitic clasts, rounded, moderate to good sphericity. 15% mafic volcanics, well rounded, moderate sphericity. Fine to medium sand in -10 return. Several thin medium grained sand units. At 8' gravel unit several inches thick, with 1 to 2.0 cm clasts → 60% granitic, 35% mafic volcanic + 5% assorted sediments. Fine to coarse sand -10 return.</p> <p>8'-16' Diamicton similar to previous description Organic wood fragments at 13' - probably washed in from surface.</p> <p>16'-57'. GRAVEL</p> <p>• abundant return, slow penetration - washing in of material. 55% mafic volcanics + diabase, 40% granitic, 5% argillites and limestone in addition of felsic to intermediate volcanics, assorted quartz fragments and cherty material. Rounded clasts with moderate to poor sphericity, dominantly pebble sized clasts (>1.0cm). Medium to coarse sand -10 return. Trace mafic and granitic armoured + wedge-shaped clasts @ 18'. 65/35 matrix clast ratio. Slight increase in granitics to 45-50% @ 24'. 32'-34.5'. Granitic boulder. 34.5'-36'. several granular mafic volcanic cobbles dark grey w 1-2% py + po. Trace mafic volcanic, subangular, (poor sphericity) armoured clasts @ 41'. 42'-52'. fine to coarse sand return in -10 w a 75/25 matrix clast ratio. 45% granitic, 45% intermediate + mafic volcanics + 6% assorted sediments (ie argillite + minor limestone). Clasts range from 0.25 cm to pebble size - rounded + spherical. 52'-53.5'. Diabase boulder, medium grained, followed by a granitic boulder from 53.5' to 56'. 56'-57'. gravel layer followed by trace hard gritty clay balls. Gravel similar to above with clast variation ranging from 0.5 to 2.0 cm. Mafics are subrounded to rounded w poor sphericity, while the granitics subrounded to subangular w moderate sphericity.</p>	<p>7169</p> <p>7170</p> <p>7171</p> <p>NO SAMPLE</p> <p>7172</p> <p>7173</p> <p>NO SAMPLE</p> <p>7174</p> <p>7175</p> <p>NO SAMPLE</p> <p>7176</p> <p>7177</p> <p>7178</p> <p>7179</p>
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DATE 01 24 19 87 HOLE NO. SRE-87-05 LOCATION L32 W; Str: 7+495
 GEOLOGIST AK DRILLER Dw BIT NO./FTG. 1000641 → 128 + 147 = 275'
 SHIFT HOURS 4:15 - 4:45 MOVE TO HOLE 8:00 - 12:45 | 12:45 - 1:15 BIT NO./FTG. _____
 TO _____ DRILLING 8:00 - 12:45 | 12:45 - 1:15 (Pull rods)
 TOTAL HOURS _____ MECHANICAL DOWN TIME _____
 DRILLING PROBLEMS _____
 OTHER _____
 MOVE TO NEXT HOLE 1:15 - 1:45

Depth (m) | Graphic Log | Int Sample No. | Descriptive Log

	<p>57-61' TILL</p> <p>7180 Slow penetration, low to moderate return. 30% hard gritty clay balls, 0.25 to 0.5 cm in diameter, medium grey colored, very fine sand to silty clay. 30% granitic granules, well rounded, 0.25 cm in diameter, good sphericity. 35% mafic volcanics, subrounded, < 1.0 cm, poor sphericity, w trace amounts of armoured clasts.</p> <p>7181 5% assorted sediments + intermediate volcanics felsic volcanics and cherty material in trace amounts. At 60' granitic cobbles. Fine to coarse grained sand - 10 return. At 61' till grades into a gravel w < 5% hard gritty clay balls.</p> <p>7182</p> <p>7183</p> <p>61'-76' FINE GRAVEL</p> <p>60% granitic, 30% mafic volcanic, 5% assorted clasts → argillites, intermediate volcanic + trace exotic material. Clasts range in size from 0.25 cm granules to 1 cm pebbles. Rounded to subrounded, moderate to poor sphericity. Several mafic and granitic armoured and wedge shaped clasts. Medium to coarse sand - 10 return.</p> <p>64.5' grades into a coarser gravel w granitic cobbles and boulders. Granitic boulder from 65-67'.</p> <p>67' trace hgb's, < 1 cm in diameter, medium grey colored, < 1% followed by granitic cobbles</p> <p>68'-70' Granitic boulder followed by mafic pebbles < 2.0 cm in size + granitic cobbles. 85% granitics / 15% mafic volcanics. Well rounded clasts, moderate to good sphericity. Trace amount of exotics (limestone). Medium to coarse sand - 10 return.</p> <p>75' mafic to intermediate tuff cobbles.</p> <p>76'-80.5' TILL</p> <p>5% hard gritty clay balls increasing to 20% at 77'. 0.25 to 0.5 cm in diameter, medium grey, fine sand to silty clay. +10 material ranges from granules to cobbles sized clasts. 55% mafic volcanic, 40% granitic + 5% assorted clasts. Fine to coarse sand in - 10 material. Trace amts. of armoured + wedge shaped clasts 1.0 cm in size. Granitic boulder from 79'-80', followed by till.</p> <p>80' 5% hard gritty clay balls with 70% granitic cobbles + 25% mafic clasts. 80.5'-81.5' granitic boulder.</p>					
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DATE 01 24 1987 HOLE NO. SRE-87-05 LOCATION L32W; Sta. 7+44.5
 GEOLOGIST AKK DRILLER DB BIT NO./FTG. 1000641 → 12B' + 147' = 275'
 SHIFT HOURS 7 TO 6 pm MOVE TO HOLE _____ BIT NO./FTG. _____
 DRILLING _____
 MECHANICAL DOWN TIME _____
 TOTAL HOURS 10 DRILLING PROBLEMS _____
 OTHER _____
 MOVE TO NEXT HOLE _____

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 Depth | Graphic | Int | Sample | Descriptive Log | | | | | | | |
 (m) | Log | | No. | | | | | | | | | |
 =====

80.5' - 122' GRAVEL WITH DIAMICTON
 INTERBEDS.

80.5' - 81.5' Granitic boulder

82' - 91' 45% granitic, 45% mafic volcanic, 10% assorted clasts. (argillites, + intermediate to felsic volcanics). Clasts range from 0.25cm granules to pebble sized clasts which exhibit good rounding to moderate to good sphericity. Abundant return to slow to moderate penetration. Medium to coarse sand in -10 return. 80/20 matrix clast ratio.

91' - 101' same as above; at 96' trace rounded dacitic clasts w 1-2% cubic pyrite. Trace amounts of soft, gritty, clay balls, medium grey colored.

102' Trace amts. of clastic, 0.5cm, intermediate to mafic volcanics, heavily mineralized with pyrite. Sheared w thin quartz-carbonate stringers.

108' Quartz-carbonate vein material w trace amts of fuchsite.

108' - 108.5' 6" hard, gritty, clay horizon, compact w medium to dark grey clay spheres.

110' trace armoured clasts + mafic wedge-shaped clasts, 0.5 to 1.5cm, subangular to subrounded

114' light, creamy colored limestone cobbles.

117.5' very thin horizon of dark, soft gritty clay balls

117.5' - 119.5' 0.5-2.0cm mafic + intermediate volcanic tuff pebbles + cobbles. Minor Quartz-carbonate veining in tuff material. 75% mafic + intermediate volcanics, 20% granitic, + 5% argillite clasts. Subrounded to subangular clastic material.

119.5' - 121' sheared mafic volcanic boulder w 1% pyrite.

121' - 122' 0.25-1.5cm, very compact, dark grey clay balls (95%) w 5% mafic volcanic material < 1.0cm in size.

122' - 128' BEDROCK

Fine grained intermediate to mafic volcanic, dark grey, green colored, H=5.5 to 6.0, wk to mod. carbonatized. @ 122.5: Quartz stringers barren of sulphide mineralization. @ 125: appears more foliated w H=3, weakly carbonatized. w trace finely disseminated pyrite.

Silicified Mafic Volcanic (Basalt)
 (possibly a metasediment → Greywacke?)

STOP AT 128'

DATE 01 24 19 87 HOLE NO. SRE-87-06 LOCATION Line 30W; Stn 6+755
 GEOLOGIST AKG DRILLER DB BIT NO./FTG. J000640
 SHIFT HOURS 7 TO 5 MOVE TO HOLE 1:15 - 1:45 BIT NO./FTG. 132
 DRILLING 1:45 - 4:15 / 4:15 - 4:45 Shut down - maintenance
 MECHANICAL DOWN TIME _____
 TOTAL HOURS 10 DRILLING PROBLEMS _____
 OTHER _____
 MOVE TO NEXT HOLE 11:15 - 11:45 (01-25-87)

Depth | Graphic | Int | Sample | Descriptive Log | | | | | |
 (m) | Log | | No. | | | | | | |

	<p>0-4' Organics</p> <p>4'-18'. DIAMICTON (COCHRANE)</p> <p>Soft, brownish grey, slightly gritty clay w $< 5\%$ rounded granitic + mafic clasts.</p> <p>18'-40'. FINE GRAVEL</p> <p>Abundant return with good penetration. Subround- ed to rounded clasts, moderate to good sphericity $< 1.0\text{ cm}$ in size. (dominantly 0.5 cm granules). Fine to coarse sand - 10 return w 55/45 matrix clast ratio. 50% granitic / 45% intermediate to mafic volcanics / 5% assorted clasts eg. argillite, felsic volcanics, + limestone.</p> <p>27' increase in clast size to 1 cm pebbles. 29' several subangular 1.0 cm intermediate volcanic clasts w 5-10% pyrite mineralization.</p> <p>30' Slower penetration - higher percentage of matrix vs. clasts, (80/20 matrix:clast ratio). Gravel is more compact. 60% granitics, 30% intermed- iate to mafic volcanics, 10% assorted and exotic material. Subrounded to rounded clasts, moder- ate sphericity w mafics showing poor sphericity.</p> <p>34' mafic volcanic boulder/cobble w trace finely disseminated pyrite.</p> <p>36' mafic volcanic cobbles similar to above w trace pyrite - very slow penetration w abundant return.</p> <p>40'-52'. TILL (DIAMICTON)</p> <p>0.5-1.0 cm hard, gritty clay balls, medium grey colored - compact. Clay balls composed of very fine sand to silt. Slow penetration, low return. 20% clay balls, 25% granitic, 50% mafic, 5% argillite subangular to subrounded, moderately to poorly spherical clasts. Trace to 1% mafic armoured and wedge-shaped clasts. Fine to coarse sand in -10 return.</p> <p>44' Increase in clay balls to 25-30% - clasts increase to pebble and cobble size.</p> <p>47' Dark black, fine grained ultramafic - mafic extrusive boulder w finely disseminated py + po. $< 1\%$ content.</p> <p>50'. Several clasts of intermediate volcanic tuffs w 0.25 cm blueish quartz eyes followed by several biotite + hist cobbles.</p> <p>52'-63.5' GRAVEL</p> <p>Abundant return, moderate penetration w some washing in of material. 60/40 matrix:clast ratio</p>	<p>7084</p> <p>7085</p> <p>7086</p> <p>7087</p> <p>7088</p> <p>7089</p> <p>7090</p> <p>7091</p> <p>7092</p> <p>7093</p> <p>NO SAMPLE</p>	<p>10</p> <p>20</p> <p>30</p> <p>40</p> <p>50</p> <p>60</p> <p>70</p> <p>80</p> <p>90</p> <p>100</p>
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**OVERBURDEN EXPLORATION SERVICES LTD
REVERSE CIRCULATION DRILL HOLE LOG**

DATE 01-24-1987 ⁻²⁵

SHIFT HOURS
7 TO 5

TOTAL HOURS
10

HOLE NO. SRE-87-06 LOCATION Line 30 W, Sta - 6+75 S
 GEOLOGIST AKK DRILLER DB. BIT NO./FTG. J000640
 MOVE TO HOLE _____ BIT NO./FTG. _____
 DRILLING 7:45 - 10:45 | 10:45 - 11:15 Pull rods | 01-25-87
 MECHANICAL DOWN TIME _____
 DRILLING PROBLEMS _____
 OTHER _____
 MOVE TO NEXT HOLE 11:15 - 11:45

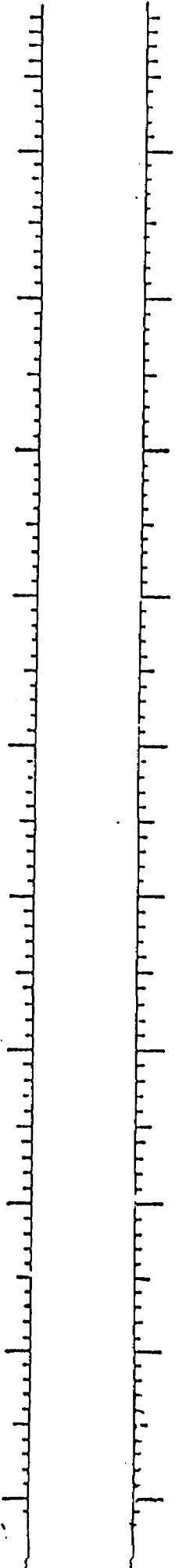
Depth (m)	Graphic Log	Int. Sample No.	Descriptive Log
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<div style="display: flex; flex-direction: column; align-items: center;"> <div style="margin-bottom: 20px;">80 0 0 0 0</div> <div style="margin-bottom: 20px;">110</div> <div style="margin-bottom: 20px;">120</div> <div style="margin-bottom: 20px;">130</div> <div style="margin-bottom: 20px;">140</div> <div style="margin-bottom: 20px;">150</div> </div>	<div style="display: flex; flex-direction: column; align-items: center;"> <div style="margin-bottom: 20px;">NO SAMPLE</div> <div style="margin-bottom: 20px;">7094</div> <div style="margin-bottom: 20px;">7095</div> </div>	<p>52' - 63.5' GRAVEL (continued.....)</p> <p>55% intermediate to mafic volcanics, 35% granitic, 10% assorted material; eg. argillites, limestone, jasper. Granitic clasts range from granule to cobble sized clasts. Mafics are subrounded w poor sphericity, 0.5 - >1.0cm in size. Medium to coarse sand - 10 return.</p> <p align="center">STOP AT 57' (01-24-87)</p> <p>57' - 63.5' 50% granitics, 40% intermediate to mafic volcanics, 10% argillite, trace amts. of limestone, jasper, and cherty material. Granule (0.25cm) to 2.0cm, subangular to subrounded clasts. Moderate to good sphericity. Medium to coarse sand matrix. 55/45 matrix-clast ratio. Moderate penetration w abundant return. Increase in mafics to 55%, 45% granitics, + trace argillites at 62'.</p> <p>63.5' - 68' SANDY TILL (DIAMICTON)</p> <p>20% soft, gritty, clay balls, medium grey color. 50% intermediate to mafic volcanics. 20% granitics + 10% argillites - Subangular to subrounded clasts, poor to moderate sphericity, 0.5 to cobble sized clasts. Fine to coarse - 10 return. Good penetration w moderate return.</p> <p>67' - 68' fine sand w 25% clastic material and 75% matrix.</p> <p>68' - 78' FINE GRAVEL</p> <p>Fine gravel w granule - pebble sized clasts ranging from 0.25cm - 1.0cm. (Dominantly 0.25 - 0.5cm)</p> <p>60% granitic, 40% mafic, well rounded to subrounded, w moderate to good sphericity. Matrix clast ratio = 85/15%</p> <p>78' - 119.5' SAND w THIN GRANULE (FINE GRAVEL) + ERRATIC BOULDER INTERBEDS</p> <p>Moderate penetration, good return - dominantly fine to coarse sand.</p> <p>78' - 79' fine to medium sand horizon.</p> <p>79' - 80' fine grained intermediate volcanic boulder, medium green, weakly chloritized, w minor quartz veining - no visible mineralization.</p> <p>80' - 87.5' fine to coarse sand w <5% 0.25 - 0.5cm well rounded, spherical granitic and mafic volcanic clasts. Moderate penetration w low to moderate return. Compact sand w sporadic cobble</p>
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OVERBURDEN EXPLORATION SERVICES LTD
REVERSE CIRCULATION DRILL HOLE LOG

DATE 01 25 19 87 HOLE NO. SRE-87-06 LOCATION Line 30W; Sta 6+75.5
 GEOLOGIST ASK DRILLER DB BIT NO./FTG. J000640
 SHIFT HOURS 7 TO 5 MOVE TO HOLE _____ BIT NO./FTG. _____
 DRILLING _____
 MECHANICAL DOWN TIME _____
 TOTAL HOURS 10 DRILLING PROBLEMS _____
 OTHER _____
 MOVE TO NEXT HOLE _____

Depth (m)	Graphic Log	Int'l Sample No.	Descriptive Log				
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78'-119.5'. SAND (continued.....).

87.5'-116'. Thin granule gravel horizons w
0.25-0.5 cm clastic material, well rounded,
moderate to good sphericity.
87.5'. 1' fine gravel horizon followed by fine
to coarse sand.
102'. fine gravel - 1' horizon
116'. 6" fine gravel horizon.

119.5'-127.5'. FINE GRAVEL

Fine to coarse sand matrix w an 85/15:
matrix-clast ratio. Fine granular material.
55% granitic, 45% mafic volcanic, clasts
ranging from 0.25 cm to 1.0 cm. Well rounded
clastic material - poor to moderate sphericity.
123'. Trace amts. of soft gritty, clay, balls.
0.25 cm + under, grey colored, w trace sub-
rounded mafic armoured clasts, moderate sphericity,
followed by granitic, + fine grained, dark green
mafic volcanic cobbles in a sandy matrix.
125'. fine grained mafic volcanic boulder, dark
green, moderately chloritized, w trace finely
disseminated pyrite. Minor barren quartz
veining.

127.5'-132'. BEDROCK

Fine grained to granular, thinly bedded or
sheared, dark grey, H=4, weakly chloritized,
v. minor carbonate alteration in areas, trace to
nil finely disseminated pyrite, minor calcite
stringers. Require microscopic examination
for accurate classification.

BASALTIC TUFF OR METASEDIMENT
(GREYWACKE) w presence of 0.2 cm
feldspar + blue quartz spheres.

OVERBURDEN EXPLORATION SERVICES LTD
 REVERSE CIRCULATION DRILL HOLE LOG

Page 1 of 2

DATE DL 28/9/87

HOLE NO. SRE-87-07 LOCATION L28W; Stn 7+255

GEOLOGIST AJK DRILLER DB BIT NO./FTG. J000640

SHIFT HOURS
5 TO 7

MOVE TO HOLE 11:15-11:45 BIT NO./FTG. 132+101 = 233'

DRILLING 11:45-3:30 | 3:30-4:00 Pull rods

TOTAL HOURS
10

MECHANICAL DOWN TIME _____

DRILLING PROBLEMS _____

OTHER _____

MOVE TO NEXT HOLE 4:00-4:30

Depth | Graphic | Int | Sample | Descriptive Log
 (m) | Log | | No. |

	<p>0-2' Organics</p> <p>2'-17' DIAMICTON (COCHRANE TYPE)</p> <p>Soft gritty clay balls, moderately compact, medium grey, silty clay. < 5% well rounded clasts, spherical. Granitic + mafic composition.</p> <p>17'-30' GRAVEL</p> <p>7096 50% intermediate to mafic volcanics, 40% granitic, 10% argillitic, + trace amounts of exotic material ie: limestone, felsic + cherty material. Clasts range from granule to 2.0cm pebbles. Granitics are rounded, spherical, intermediate to mafics are subrounded to rounded w poor to moderate sphericity. Medium grained sand matrix. Moderate penetration - abundant return. Volcanics are medium grey green to dark grey green, fine grained, massive (no foliation) w no visible sulphides.</p> <p>7097</p> <p>7098</p> <p>7099</p> <p>7100 21' Granitic boulder - 60-40 matrix-clast ratio. 27'-28' medium grained sand horizon - no clasts. 28'-30' gravel similar to above.</p> <p>7101 30'-38' TILL (DIAMICTON)</p> <p>7102 40% hard gritty clay balls, 0.5-2.0cm in diameter, medium grey colored, very compact. Silty clay composition. 35% mafic volcanics, fine grained, subangular to subrounded, poor sphericity, 0.5-2.0cm in size. 25% granitics, subrounded, spherical, dominantly 0.5cm in size. Trace amounts of argillitic material.</p> <p>7103</p> <p>7104 31.5' fragments of quartz; carbonate veining - Fe staining w trace to 0.5% pyrite within vein material. 32' clay is less compact. softer v.f. sand to silt, 1% mafic angular armoured and wedge-shaped clasts w poor sphericity.</p> <p>7105 34' Clay content up to 65-70% clay balls. 36' similar to above till - smaller clay balls < 1.0cm softer - less compact w larger diabasic cobbles.</p> <p>7106 38'-67' GRAVEL</p> <p>7107 Abundant return - slow penetration. Diabase boulder from 39-40'. Granitic boulders at 41'-42'. Medium sand matrix. 55% intermediate to mafic volcanics, 40% granitic, 5% argillites, trace limestone, + quartzite (medium to coarse grained sandstone). Volcanics are subangular to subrounded, fine grained, appearing tuffaceous, poor sphericity, 1.0-2.0cm clasts. Trace mafic armoured clasts, 1.5cm, angular, poor sphericity.</p> <p>7108</p>
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DATE 26/9/87 HOLE NO. SRE-87-07 LOCATION L28W; Stn. 7+255
 GEOLOGIST AKS DRILLER DS BIT NO./FTG. J000640
 SHIFT HOURS 7 TO 5 MOVE TO HOLE _____ BIT NO./FTG. _____
 DRILLING _____
 MECHANICAL DOWN TIME _____
 TOTAL HOURS 10 DRILLING PROBLEMS _____
 OTHER _____
 MOVE TO NEXT HOLE _____

=====
 Depth | Graphic | Int | Sample | Descriptive Log | | | | | | | | | |
 (m) | Log | | No. | | | | | | | | | |
 =====

38'-67'. GRAVEL (continued.....)

Coarse to medium sand - 10 return. 60/40 matrix: clast ratio. 45' - 1' soft, non compact clay, light to medium grey colored, slightly gritty.
 46' gravel is similar to above section.
 57' - 58.5'. Granitic boulder.
 60' clasts < 1.5 cm - finer gravel than overlying horizon. Dominant size \approx 0.75 cm. 45% granitic, 45% intermediate + mafic volcanics, 10% assorted material: i.e. argillite, quartzite, limestone + trace jasper clasts.

67'-79'. TILL (DIAMICTON)

35% hard, gritty, clay balls, 0.5 - 1.0 cm, medium grey colored, moderately compact. 45% dark mafic volcanics, fine grained, white to moderately chloritized. 0.5 to 2.0 cm angular to subangular clasts. Several mafic armoured + wedge-shaped clasts - poor sphericity. 20% granitics, 0.25 - 0.5 cm subrounded, moderate to good sphericity. Trace limestone, well rounded, spherical, 1.0 cm clasts. 71-72'. several larger granitic cobbles. 71'-74'. not sampled due to larger cobbles + granitic boulders. At 74' till is clay rich with 85% hard, gritty, clay balls, compact clay medium grey colored, < 1.5 cm (dominantly 0.75 cm) in size. 10% subrounded to subangular, poor sphericity, 0.75 to 1.0 cm mafic volcanic material. 5% granitics, 0.5 - 1.0 cm, spherical to moderately spherical, subrounded clasts.

79'-95'. GRAVEL

50% - 55% granular to pebble sized granitics, subrounded, spherical. 40% intermediate to mafic volcanics, 0.5 to 1.5 cm in size, subrounded, poor sphericity. 5% limestone, quartzite, well rounded, spherical, 0.5 - 0.75 cm. Abundant return, slow penetration. 70/30 matrix: clast ratio. Fine to coarse sand - 10 return. Trace mafic, armoured clasts, subrounded, poor sphericity. Fine grained medium dark grey-green mafic volcanics, no visible sulphides. 84'. several clasts of recrystallized barren, white quartz material. 88'. same as above - slightly coarser clastic material. 95'. diabase boulder/cobble. 80/20 matrix: clast ratio.

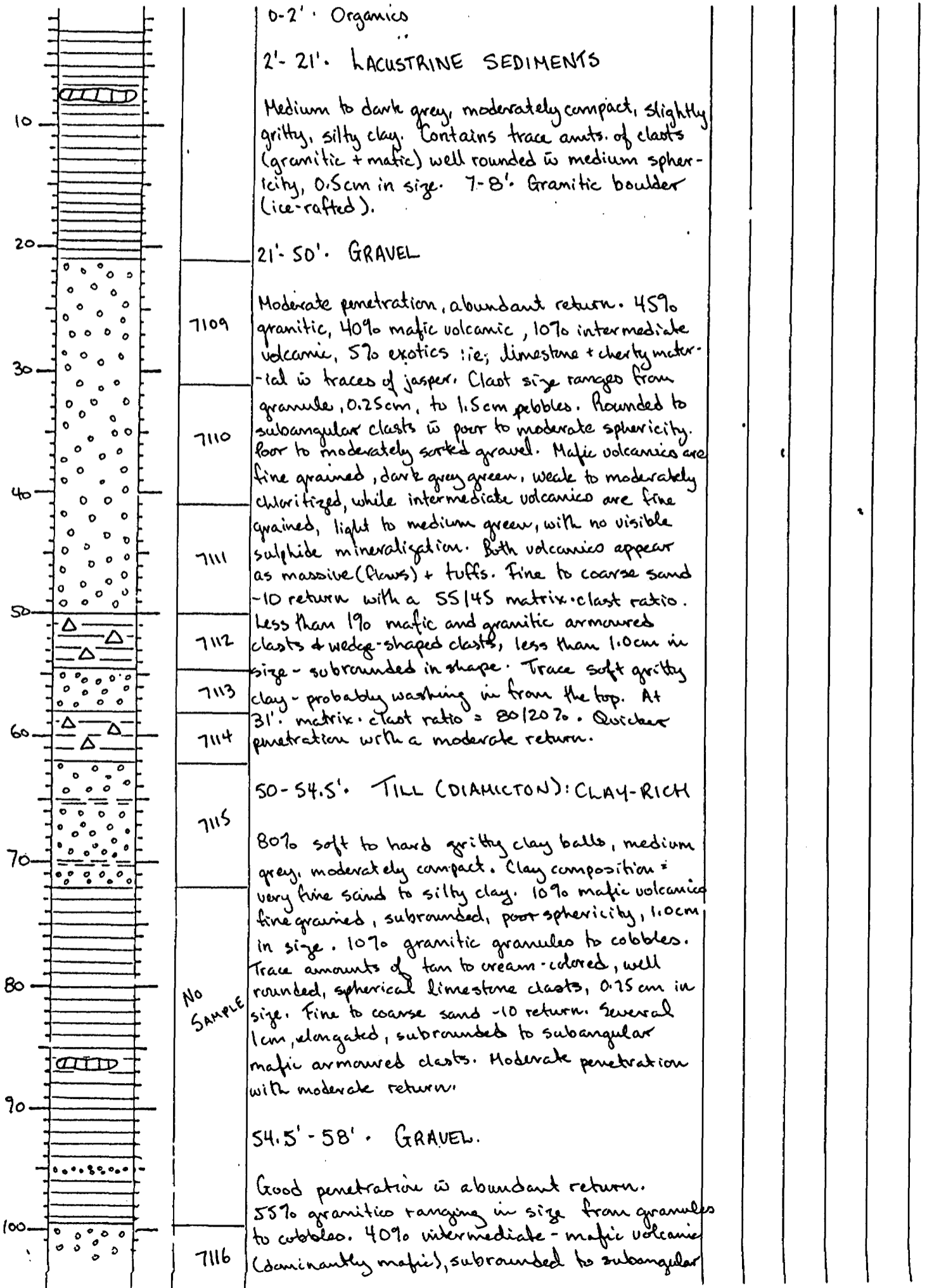
95'-101'. BEDROCK

Medium grained mafic intrusive w trace to 0.5% py + po. DIABASE.

STOP AT 101'

DATE 01 26 19 87 HOLE NO. SRE-87-08 LOCATION L26W; Str 7+28S
 GEOLOGIST ASK DRILLER DB BIT NO./FTG. 1000562 + new sub.
 SHIFT HOURS 7 TO 5 MOVE TO HOLE 4:00-4:30 (01-25-87) BIT NO./FTG. 114'
 DRILLING 8:30-11:15 | 11:15-11:45 Pull rods
 MECHANICAL DOWN TIME _____
 TOTAL HOURS 10 DRILLING PROBLEMS _____
 OTHER _____
 MOVE TO NEXT HOLE 11:45-12:00

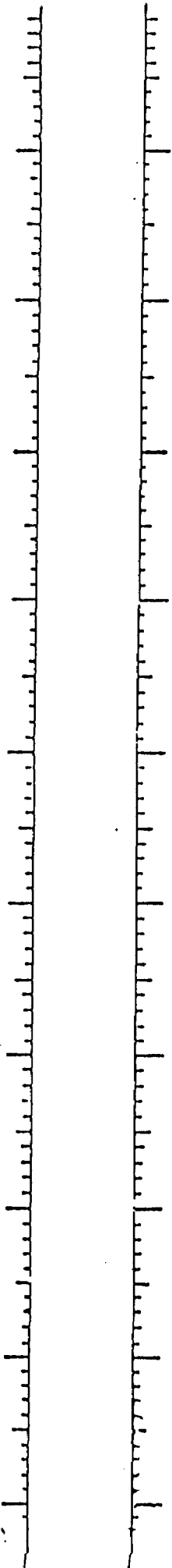
Depth | Graphic | Int | Sample | Descriptive Log | | | | | | | |
 (m) | Log | | No. | | | | | | | |



OVERBURDEN EXPLORATION SERVICES LTD
 REVERSE CIRCULATION DRILL HOLE LOG

DATE 01 26 1987 HOLE NO. SRE-87-08 LOCATION L 26W; Shw 7+28S
 GEOLOGIST AK DRILLER DB BIT NO./FTG. 100552 + new sub
 SHIFT HOURS 7 TO 5 MOVE TO HOLE _____ BIT NO./FTG. 114'
 DRILLING _____
 MECHANICAL DOWN TIME _____
 TOTAL HOURS 10 DRILLING PROBLEMS _____
 OTHER _____
 MOVE TO NEXT HOLE _____

Depth (m)	Graphic Log	Interval Log	Sample No.	Descriptive Log
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99.5' - 105'. GRANULE (FINE) GRAVEL
 (continued.....)

Clay balls 0.5 cm - 1.0 cm. Non compact. 10% mafic and argillitic, angular, clastic material.

105' - 107'. TILL (DIAMICTON)

Dark grey, gritty, soft clay balls, 1.0 cm in size, making up 90% of total +10 composition. 10% mafic and argillite angular clasts, averaging 2.0 cm in size. Rods raised + lowered in order to obtain enough sample material.

107' - 114'. BEDROCK

Fine grained, thinly laminated / foliated, mafic volcanic?, dark grey, H# 4.5, wholly carbonatized with trace to 0.5% pyrite parallel to foliation. Contains spherical blue quartz, 0.25 cm + spherical and tear-shaped feldspar. 110' - 111'. Regolithic clay seam, dark greenish-brown colored.

BASALTIC CRYSTAL TUFF

OR

METASEDIMENT (GRENWACK)

} Require lab examination for accurate classification.

**OVERBURDEN EXPLORATION SERVICES LTD
REVERSE CIRCULATION DRILL HOLE LOG**

DATE <u>01 26 19 87</u>	HOLE NO. <u>SRE-87-09</u>	LOCATION <u>Line 24 W, Stn 7+515</u>
SHIFT HOURS <u>7 TO 5</u>	GEOLOGIST <u>AKK</u>	DRILLER <u>DB.</u>
TOTAL HOURS <u>10</u>	MOVE TO HOLE <u>11:45-12:00</u>	BIT NO./FTG. <u>1000552</u>
	DRILLING <u>12:00-4:30 4:30-5:00 Pull rods</u>	BIT NO./FTG. <u>114'+122' = 236'</u>
	MECHANICAL DOWN TIME _____	
	DRILLING PROBLEMS <u>RODS STUCK IN HOLE AT 122' - Reattempt on 01-27-87</u>	
	OTHER _____	
	MOVE TO NEXT HOLE <u>9:30-10:00</u>	

Page 1 of 2

Depth (m)	Graphic Log	Int. Sample No.	Descriptive Log
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0-2'. Organics

2'-24'. LACUSTRINE SEDIMENTS.

Soft, non-compact clay, medium grey colored. Fine silt-clay composition. Slightly more compact at 19', slightly gritty w trace granitic and mafic granules.

24'-73'. GRAVEL (FINE; GRANULE) w THIN DIAMICTON INTERBEDS.

Fine granule gravel w 50% granitic, 45% mafic volcanic, 5% argillite, + trace amounts of limestone, quartzite, and jasper. 0.25cm granules to < 1.5cm subrounded to rounded clasts with poor to moderate sphericity. Good penetration with abundant return.

7119 Fine to coarse sand - 10 return w 65/35: matrix-clast ratio. Trace amts. of mafic + granitic, subrounded (poor sphericity) 1.0cm, armored clasts.

7120 35'-36'. till layer w 40% soft, gritty, clay balls 0.25 to 0.5 cm in size. 35% mafic, 25% granitic granules to 1.0cm pebble-sized clasts, subrounded to subangular. Till layer followed by gravel similar to above. Granitic boulder from 39'-40'.

7121 41'. Fine gravel with similar lithologies + percentage to above. At 41' mafic volcanic cobble - dark green, moderately chloritized w 5 to 8% massive pyrite. At 43' mafic volcanic or subintrusive boulder, dark green; medium grained, granular w trace pyrite, moderately chloritized, followed by a diabase boulder to the end of 45.5'.

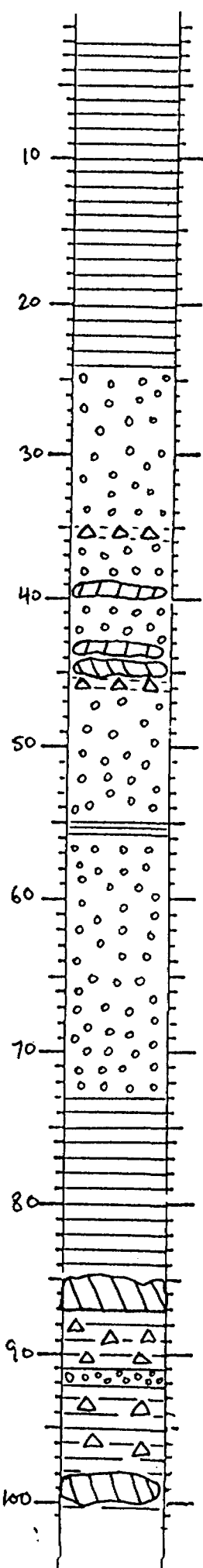
7122 45.5'-47'. 2% soft, gritty, clay balls, 0.5 to 0.75cm light grey, silty to sandy clay, w 55% granitic and 45% mafic granule-sized clasts. At 49' dominantly granule clasts 0.25-0.5cm w 25% pebble-sized clasts. 45% granitic; 40% mafic volcanic, fine grained, dark grey-green, 5% intermediate volcanic ash + crystal tufts, light green colored; 10% sedimentary and exotic clasts; eg: argillites, limestone, quartzite, + trace amounts of jasper. Clasts are subrounded to rounded w poor to moderate sphericity. Matrix-clast ratio = 60/40; fine to coarse sand - 10 return. Slow penetration w abundant washing in of material. Thin clay unit from 55'-56', non-compact, non-gritty, light grey, soft silty clay.

7123 59' gravel similar to above w trace amounts of intermediate volcanic tuft clasts. Fine gravel w dominantly granule-sized clasts. 50% granitic, 45% mafic, 5% assorted + exotic clasts.

7124

7125

7126



7119

7120

7121

No SAMPLE

7122

7123

7124

No SAMPLE

7125

7126

No SAMPLE

DATE 01 26 1987 HOLE NO. SRE-87-09 LOCATION Line 24W, Sta 7+51S
 GEOLOGIST AKK DRILLER DB BIT NO./FTG. 1000552
 SHIFT HOURS 1 TO 5 MOVE TO HOLE _____ BIT NO./FTG. 114'+122'=236'
 DRILLING _____ MECHANICAL DOWN TIME _____
 TOTAL HOURS 10 DRILLING PROBLEMS _____
 OTHER _____
 MOVE TO NEXT HOLE 9:30-10:00 Free robo - stuck down hole on 01-26-87

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 Depth | Graphic | Int | Sample | Descriptive Log | | | | | | | |
 (m) | Log | | No. | | | | | | | |
 =====

	<p>7127 73'-87'. LACUSTRINE SEDIMENTS.</p> <p>7128 Soft, non-compact, gray, silty clay, slightly gritty, w areas grading into a sandy silt. Trace amounts of well-rounded, mafic clasts, moderate sphericity, and granitics w good sphericity. Clasts 0.5 to 1.0 cm in size. 6" diabase cobble at 84'. Granitic boulder from 85'-87'.</p> <p>7129</p> <p>7130 87'-111.5'. TILL (DIAMICTON) - Clay Rich</p> <p>90% soft to hard gritty clay balls, 0.25-0.5 cm in diameter, medium grey colored, moderately compact, composed of sandy-silt. 10% mafic volcanic and diabase cobbles, fine grained, dark grey-green; diabase is medium to coarse grained, appearing gabbroic in areas. Several mafic sub-angular to subrounded, poorly spherical, 1.0 cm clasts. 10% granitic cobbles. Trace amounts of well-rounded, spherical limestone clasts 0.5 to 1.0 cm in diameter. 1-2% 1.5 cm, subangular mafic volcanic armoured clasts.</p> <p>92-98': 20% clay ball composition w 65% mafic and 15% granitic granules 0.25-0.5 cm in size. Several mafic volcanic armoured clasts, subangular, 0.5 to 1 cm in size. Clay appears slightly darker grey than above and more gritty. 98'-100': Granitic boulder. At 102': granitic + mafic to intermediate volcanics, cobbles, fine grained, light to medium gray-green w trace amounts of mineralized pyrite cubes.</p> <p>104': 80% soft to hard, gritty clay balls, 0.5 cm in diameter, medium to dark grey colored; 15-20% intermediate to mafic volcanics, foliated, light to medium grey colored, fine grained, dominantly 2.0 cm pebbles, subangular to angular. Minor amounts of argillite and granitic material. Trace well rounded, spherical, limestone clasts.</p> <p>110'-111.5': Granitic boulder.</p> <p>111.5'-117.5': REGOLITHIC CLAY</p> <p>Soft, white regolithic clay, grading into a yellow brown clay at 112', then grading into a jet-black regolith at 114' (probably a soft graphitic argillite). Clay is slightly gritty. Regolith + 10 sample from 111.5'-117.5'.</p> <p>117.5': fine grained, light green, schistose, (sheared) w trace quartz veining. H=2 Sericite Schist? (Intermediate volcanic - Diab to Andesite.) Minor gtz. veining + yellow brown Fe staining at 120'</p> <p>STOP AT 122'.</p>
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OVERBURDEN EXPLORATION SERVICES LTD
 REVERSE CIRCULATION DRILL HOLE LOG

DATE 01 27 19 87 HOLE NO. SRE-87-10 LOCATION L 22W; Stn. 7+555
 GEOLOGIST AK DRILLER DB BIT NO./FTG. 1000554
 SHIFT HOURS MOVE TO HOLE 9:30-10:00 BIT NO./FTG. 112
7 TO 5 DRILLING 7:45-9:30 Pull rods from SRE-87-09 | 10:00-1:45 Drill | 1:45-2:00 Pull rods.
 MECHANICAL DOWN TIME _____
 TOTAL HOURS DRILLING PROBLEMS _____
10 OTHER _____
 MOVE TO NEXT HOLE 2:00-2:15.

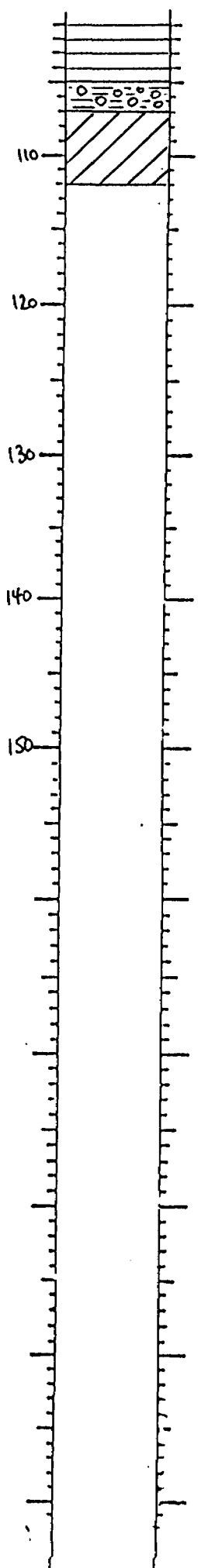
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 Depth | Graphic | Int | Sample | Descriptive Log | | | | | |
 (m) | Log | | No. | | | | | | |
 =====

10		0-2' Organics
		2'-12' LACUSTRINE SEDIMENTS
		Soft, tan brown, non-gritty, moderately compact clay w trace well rounded, spherical clasts. At 10' clay turns slightly gritty and medium grey colored.
	7131	12'-90' GRAVEL
20		60% granitics, 30% mafic volcanics, 5% intermediate volcanics, 5% argillite w trace limestone and cherty material. Granule to cobble sized granitics, subrounded.
	7132	Mafic flows + massive volcanics, fine grained, w trace amounts of pyrite, subrounded to subangular, poorly to moderately spherical, 0.5 to 1.5 cm clasts. Foliated, massive + tuffaceous intermediate volcanics w trace
30		amounts of pyrite, fine grained, light to medium green in color, subrounded to subangular, moderately spherical, 1.0 cm clasts. Fine to coarse grained sand in -10 return. 65-35 matrix-clast ratio. Slow penetration - abundant return.
	7133	Some material washing in. Slight increase in granitic percentage at 21'. At 26' → 6" layer of 20% hard gritty clay balls, 0.5 cm in diameter, medium grey colored followed by diabase cobbles. Gravel similar to above w an 80/20 matrix-clast ratio. At 37' trace amount of very hard clay balls
40		medium grey colored, spherical, well rounded, consolidated clay. At 44' - slow penetration with abundant washing in. Increase to pebble sized clasts. Non compact gravel. Several larger intermediate tuff and diabase cobbles at 48'. Slow penetration
	7134	and abundant return at 57' → 55/45 matrix-clast ratio w medium to coarse sand -10 return.
50		40% mafic volcanic pebbles, dark grey-green, fine grained, trace amounts of pyrite, subangular poorly spherical clasts. → includes chlorite schist clasts. 50% granitic material, rounded to sub-rounded pebbles and cobbles. 5% fine grained intermediate volcanics + tuffs, light to medium green colored w trace pyrite. 5% limestone, argillite, diabase, qtz. vein material and cherty clasts. Clastic material ranges from granules to cobbles. 62'-72' clast size decreased to granule to pebble size w a 70/30 matrix-clast ratio. Trace amount of soft, gritty clay balls, light to medium grey, 0.5 cm in diameter.
	7135	Moderate to good penetration, with good return. 72-82'. 65/35 matrix-clast ratio w fine to coarse sand -10 return. 70% granitic cobbles to granules; 25% subrounded mafic clasts, fine grained, dark grey, moderate to poor sphericity.
60		
	7136	
70		
	7137	
80		
	7138	
90		
	7139	
100		
	No SAMPLE	

OVERBURDEN EXPLORATION SERVICES LTD
 REVERSE CIRCULATION DRILL HOLE LOG

DATE 01 22 19 97 HOLE NO. SRE-87-10 LOCATION L22W; Sh. 7+555
 GEOLOGIST ASK DRILLER DB BIT NO./FTG. 1000554
 SHIFT HOURS 7 TO 6 MOVE TO HOLE _____ BIT NO./FTG. 112'
 DRILLING _____
 MECHANICAL DOWN TIME _____
 TOTAL HOURS 10 DRILLING PROBLEMS _____
 OTHER _____
 MOVE TO NEXT HOLE _____

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 Depth | Graphic | Int | Sample | Descriptive Log | | | | | |
 (m) | Log | | No. | | | | | | |
 =====



No SAMPLE	Descriptive Log
12'-90'	GRAVEL (continued.....)
7140	1.0 cm in diameter; 5% assorted clasts, eg. quartz, limestone, argillitic, + intermediate volcanic material, trace feldspar porphyry → all clasts are less than 1.0cm in size.
7141	90'-105': LACUSTRINE SEDIMENTS. Sandy silt to silty clay, light to medium grey colored. Trace amounts of granitic + mafic granules, well rounded, with good to moderate sphericity. Non gritty clay, non to weakly compact. From 103-103.5': gravel unit is dominantly granitic cobbles. 105'-107': lacustrine clay similar to above with small amts. of gravel material. Total +10 return = 20% soft clay balls and plates; 55% intermediate volcanic cobbles and subangular pebbles; 25% granitic material; trace amts of exotic's. Fine sandy clay to a fine to coarse -10 return.
107'-112'	BEDROCK Fine grained, intermediate volcanic, light grey-green colored, v. weakly chloritized, weak carbonatization in areas, trace amounts of finely disseminated pyrite, H= 4.5, minor quartz stringers barren of mineralization. Weak yellow-brown iron staining in areas. Andesite - Dacite? STOP AT 112'

OVERBURDEN EXPLORATION SERVICES LTD
 REVERSE CIRCULATION DRILL HOLE LOG

DATE 01 29 1987

HOLE NO. SRE-87-11 LOCATION L.20W; Sta. 7+035

SHIFT HOURS

GEOLOGIST AKK DRILLER JB BIT NO./FTG. 1000 554

7 TO 5

MOVE TO HOLE 2:00 - 2:15 BIT NO./FTG. 112'+98 → 210'

TOTAL HOURS

DRILLING 2:15 - 4:15 | 4:15 - 4:30 Pull Rods

10

MECHANICAL DOWN TIME _____

DRILLING PROBLEMS _____

OTHER _____

MOVE TO NEXT HOLE 4:30 - 5:00

Depth (m)	Graphic Log	Int Log	Sample No.	Descriptive Log
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0-3'. Organics

3'-23'. LACUSTRINE CLAYS

3'-7'. Tan brown, soft clay, light to moderately compact. 7'-23'. non oxidized, light grey clay light to moderately compact, slightly gritty.

23'-66'. GRAVEL

Moderate penetration w very high return - abundant washing in. 65% granitics, granule to cobble-sized clasts. 35% mafic volcanics, fine grained, dark grey, rounded, w poor to mod. sphericity. Dominantly pebble-sized clasts. Trace-1% well rounded tan colored limestone. Fine to coarse sand - 10 return. 60/40% matrix-clast ratio.

42'-52'. similar to above w better penetration and less washing in. 1-2% intermediate volcanics fine grained, medium grey-green colored.

52'-62'. 75/25% matrix-clast ratio. Dominantly granule to pebble sized clasts. At 54.5'. very hard, consolidated / lithified clay balls, medium grey, 0.5 cm in diameter. 60% granitics; 35% mafic volcanics, dark grey, fine grained, 1cm clasts, subrounded to subangular; 5% intermediate volcanics, fine grained, light to medium green, 1cm sized clasts, subrounded to subangular. Fine to coarse sand - 10 return.

66'-70'. CLAY RICH TILL (DIAMICTON)

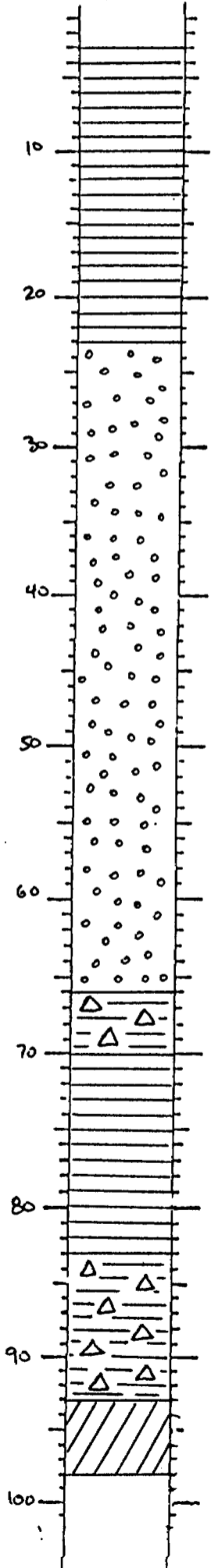
85-90% hard, gritty, clay balls 0.5 - 1.5cm very compact, medium grey colored, silty clay with 10% mafic well rounded, moderately spherical clasts. Granule to 1.0cm pebble sized clasts. Approximately 2-3% granitic granules.

70'-83'. LACUSTRINE CLAYS

Slightly compact, soft, non gritty silty clay. Medium grey colored w trace amounts of mafic, granitic, and limestone granules.

83'-93'. CLAY RICH TILL (DIAMICTON)

85% hard to soft, gritty, clay balls, medium grey colored, 0.25 to 1.0cm spheres, moderately compact, silty to sandy clay. Dominantly fine grained intermediate to mafic volcanics, dark to medium grey green cobbles and pebbles w 1-2% granitic granules.



7142

7143

7144

7145

7146

7147

No SAMPLE

7148

7149

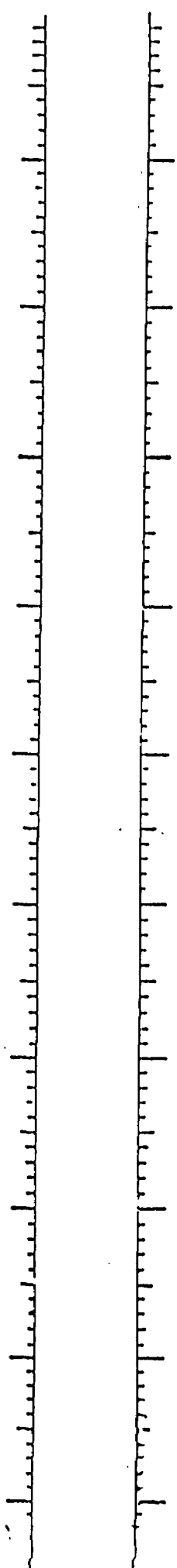
7150

OVERBURDEN EXPLORATION SERVICES LTD
 REVERSE CIRCULATION DRILL HOLE LOG

Page 2 of 2

DATE 01 23 1987 HOLE NO. SRE-87-11 LOCATION L.20W; Sta 7+035
 GEOLOGIST AJK DRILLER DB BIT NO./FTG. 1000 554
 SHIFT HOURS 7 TO 5 MOVE TO HOLE 2100 - 2115 BIT NO./FTG. 112' + 98' → 210'
 DRILLING 2:15 - 4:15 / 4:15 - 4:30 Pull Rods
 MECHANICAL DOWN TIME _____
 TOTAL HOURS 10 DRILLING PROBLEMS _____
 OTHER _____
 MOVE TO NEXT HOLE 4:30 - 5:00

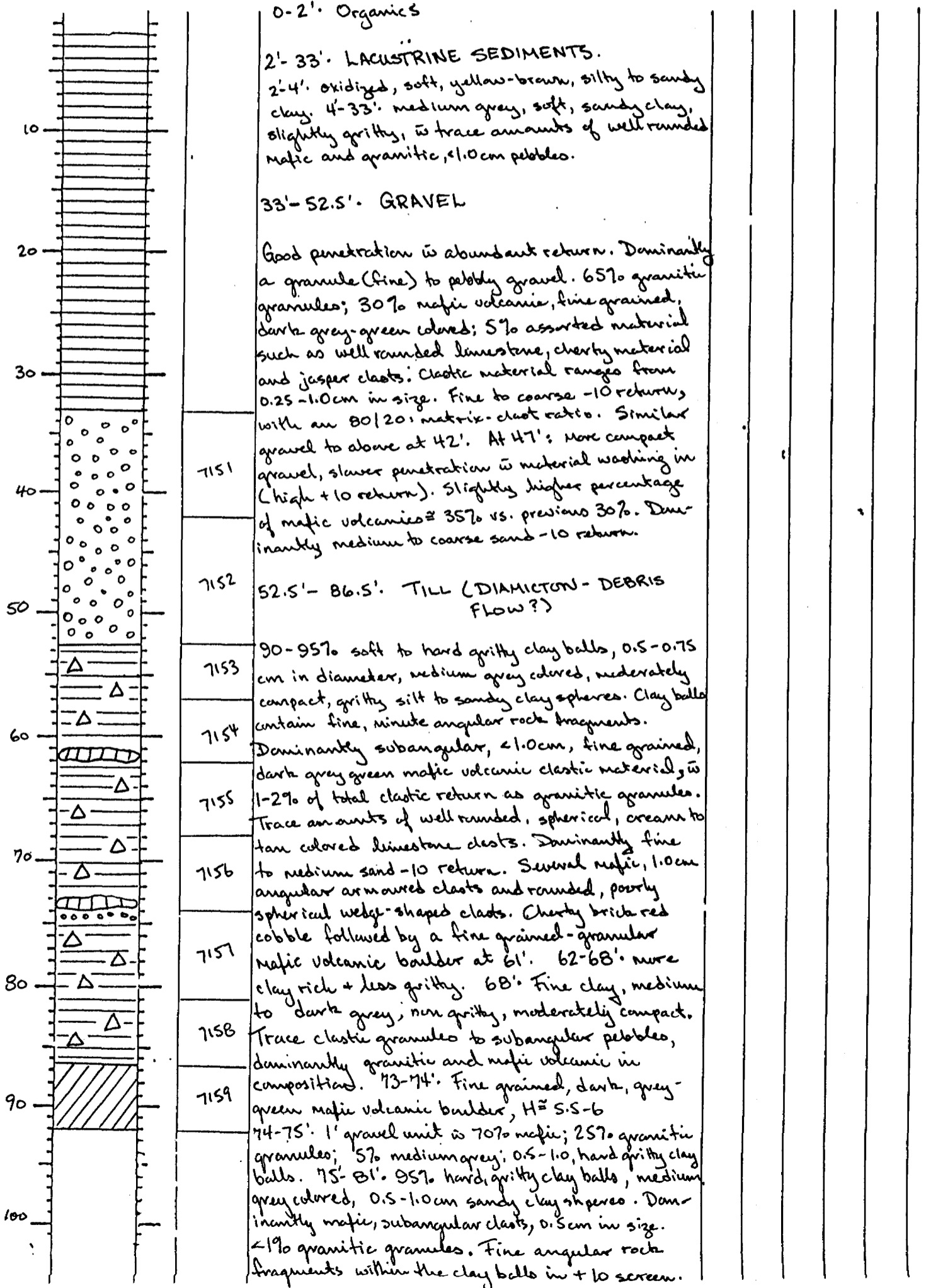
Depth | Graphic | Int | Sample | Descriptive Log | | | | | |
 (m) | Log | | No. | | | | | | |



83'-93'. CLAY RICH TILL (DIAMICTON)
 (continued.....)
 85'-85.5'. small mafic boulder, fine grained
 to granular, moderately chloritized, no visible
 sulphides, w minor quartz veining - followed by
 granitic cobbles.
 92'. Dominantly clay w 2-4% granule
 clastic material, very gritty, soft clay, slightly
 compact, moderate grey green in color. Granules
 are entirely dark grey, fine grained, mafic
 volcanics w several < 1.0cm angular, poorly
 spherical pebbles. 96% gritty clay vs. 4% clasts.
 93'-98'. BEDROCK
 Fine dark grey mafic volcanic, weakly chloritized
 H= 3-5-4.0, weakly carbonatized in areas.
 Minor quartz stringers. Weakly foliated w nil
 to trace finely disseminated pyrite.
 (BASALT)
 STOP AT 98'

DATE 01 27 1987 HOLE NO. SRE-87-12 LOCATION L18W; Sta 6+985
 GEOLOGIST AJK DRILLER DB BIT NO./FTG. 1000554
 SHIFT HOURS 7 TO 5 MOVE TO HOLE 4:30-5:00 BIT NO./FTG. 112'+98'+92'=302'
 DRILLING 7:30-10:00 | 10:00-10:15 Pull rods
 MECHANICAL DOWN TIME _____
 TOTAL HOURS 10 DRILLING PROBLEMS _____
 OTHER _____
 MOVE TO NEXT HOLE 10:15-10:30

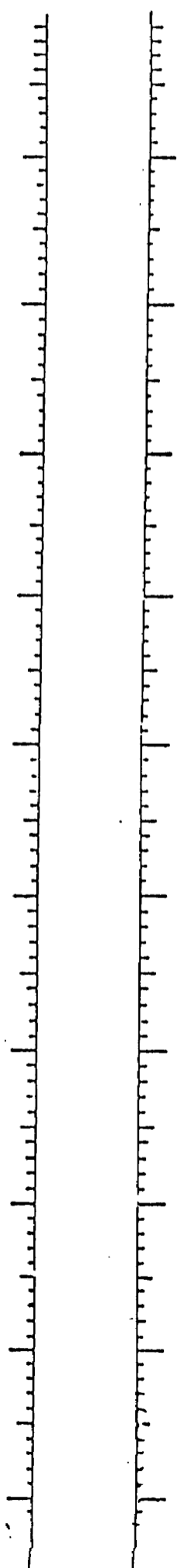
Depth Graphic | Int | Sample | Descriptive Log
 (m) | Log | | No. |



OVERBURDEN EXPLORATION SERVICES LT
 REVERSE CIRCULATION DRILL HOLE LOG

DATE 01 27 19 87 HOLE NO. SRE-87-12 LOCATION L18W; Stn. 6+98.5
 GEOLOGIST ASK DRILLER DB BIT NO./FTG. 1000554
 SHIFT HOURS 7 TO 5 MOVE TO HOLE _____ BIT NO./FTG. _____
 DRILLING _____
 MECHANICAL DOWN TIME _____
 TOTAL HOURS 10 DRILLING PROBLEMS _____
 OTHER _____
 MOVE TO NEXT HOLE _____

=====
 Depth | Graphic | Int | Sample | Descriptive Log | | | | | |
 (m) | Log | | No. | | | | | | |
 =====



52.5' - 86.5': Till (DIAMICTON) continued...

81' - 86.5': Till similar to above section is thin alternating, fine clay lacustrine type clay, non gritty, is several thin granule (fine) gravel horizons. 83-86': gritty soft to hard, medium grey colored, clay (95%), is 5% sub-angular to angular, 0.5-1.0cm mafic clasts. 86.5': medium to dark grey-green, gritty clay followed by bedrock. Trace amounts of fine fragmented mafic material within the clay.

86.5' - 92': BEDROCK

Fine grained, dark grey-green to dark grey, foliated mafic volcanic or metasediment. H=3.5-4 Nil to trace amounts of finely disseminated pyrite. No carbonate alteration. Minor amounts of yellow brown Fe staining

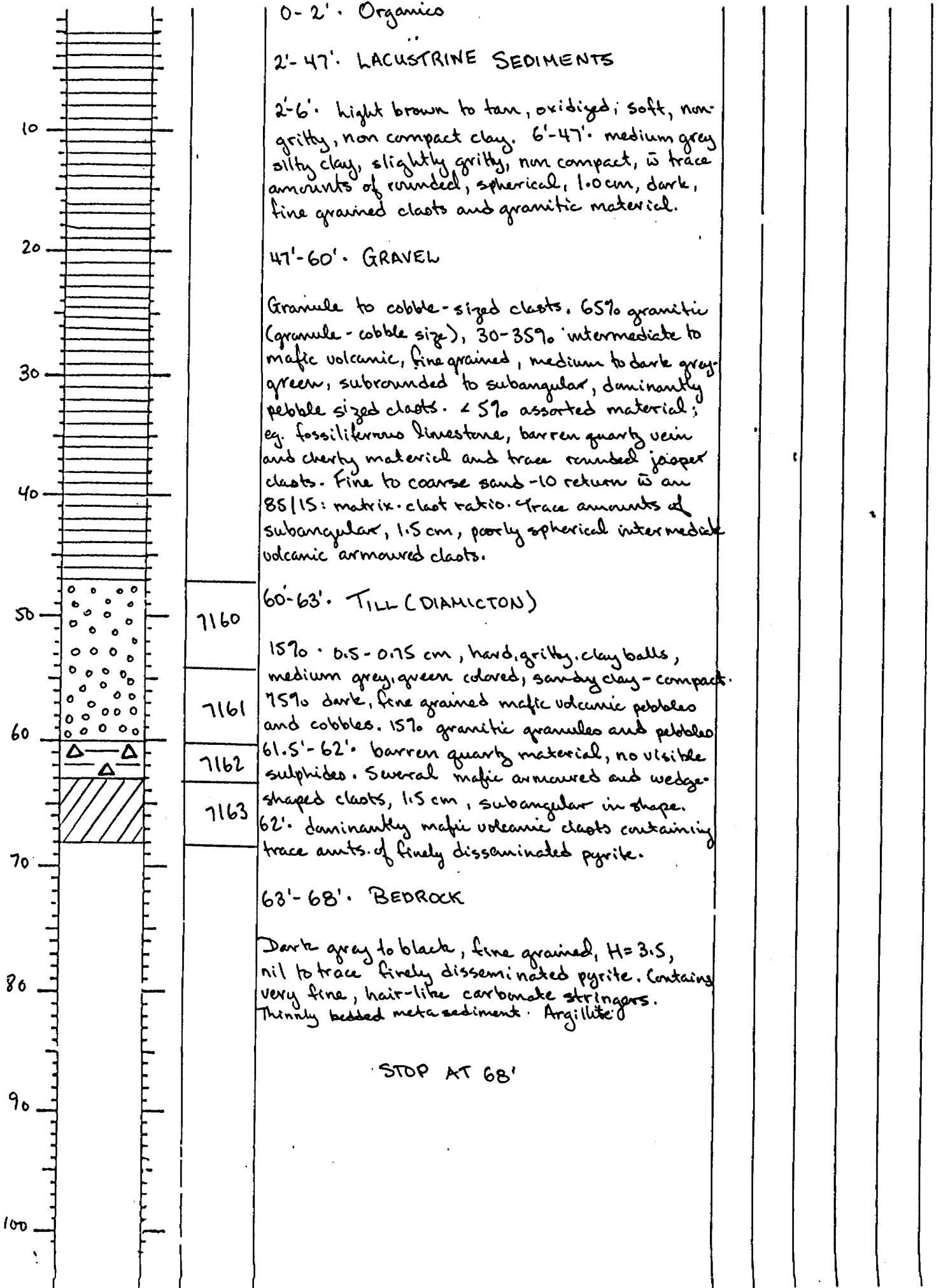
FOLIATED BASALT? / ARGILLITE ✓

OVERBURDEN EXPLORATION SERVICES LTD
 REVERSE CIRCULATION DRILL HOLE LOG

Page 1 of 1

DATE 01 28 1987 HOLE NO. SBE-87-13 LOCATION 7 metres west of L16W / Str. 7+045
 GEOLOGIST AJK DRILLER DB BIT NO./FTG. J000635
 SHIFT HOURS 7 TO 5 MOVE TO HOLE 10:15 - 10:30 BIT NO./FTG. 63'
 DRILLING 10:30 - 11:30 | 11:30 - 11:45 - Pull rods
 MECHANICAL DOWN TIME _____
 TOTAL HOURS 10 DRILLING PROBLEMS _____
 OTHER _____
 MOVE TO NEXT HOLE 11:45 - 12:00

Depth | Graphic | Int | Sample | Descriptive Log | | | | | |
 (m) | Log | | No. | | | | | | |



OVERBURDEN EXPLORATION SERVICES LTD
 REVERSE CIRCULATION DRILL HOLE LOG

DATE 01 28 1987 HOLE NO. SRE-87-14 LOCATION L14W; Str 6+51S
 GEOLOGIST AJK DRILLER DB BIT NO./FTG. J000635
 SHIFT HOURS 7 TO 5 MOVE TO HOLE 11:45 - 12:00 BIT NO./FTG. 68'+115'
 DRILLING 12:00 - 4:00 | 4:00 - 4:15 Pull rods
 MECHANICAL DOWN TIME _____
 TOTAL HOURS 10 DRILLING PROBLEMS _____
 OTHER _____
 MOVE TO NEXT HOLE 4:15 - 4:30

Depth | Graphic | Int | Sample | Descriptive Log | | | | | | | |
 (m) | Log | | No. | | | | | | | |

		0-2' Organics	
		2'-21' LACUSTRINE SEDIMENTS	
		Soft, grey, non-gritty, non-compact silty clay. At 16' 1' granule gravel horizon w clasts not exceeding 0.5cm in size.	
		21'-87.5' GRAVEL	
10			
20		Abundant +10 return, good penetration. Fine granule gravel with clast ranging from 0.25cm to pebble size. 70% granitic material, dominantly granules; 25% mafic volcanics, fine grained, dark grey, to grey-green, granule to pebble size, <1.0cm, subrounded to rounded, w poor to moderate sphericity; 5% diabase, limestone, qtz. + cherty material. Medium to coarse sand -10 return w an 80/20; matrix-clast ratio.	7164
30		Fairly well sorted gravel.	7165
40		35.5' 1' horizon of soft, fine, tan brown, non-gritty clay. Similar clay from 38.5-39.5'. At 44' increase in clast size from pebble to cobble sized clasts w minor amounts of granule material.	7166
50		44.5' small mafic volcanic boulder, foliated, medium to dark grey green, w trace finely disseminated pyrite. 45' Granitic boulder followed by biotite schist cobbles. 46' Mafic volcanic boulder, fine grained, dark grey-green, H=5, w trace finely disseminated pyrite. 49' intermediate volcanic, fine grained, medium green, H=6 non-carbonatized cobbles. 50' fine, soft, gritty, non-compact grey clay several inches thick, followed by a granule to pebble sized gravel. 56' Thin bed of soft, gritty, 0.5cm clay balls, medium grey colored, followed by gravel. Gravel= 60-65% granitic granules to cobbles; 30% fine grained, dark grey-green, subrounded, w poor sphericity mafic volcanic clasts; 5% exotic material, rounded, spherical limestone, quartz and cherty material - trace amts. of diabase and biotite schist. 80/20; matrix-clast ratio w a medium to coarse sand -10 return. Similar clay horizon at 59.5' as in 56'. Mafic clast total increases to 45% at 72'. Organic material (wood w fine clay filled seams) at 79.5'. Granitic boulder from 82 to 83.5'.	7167 7168 7169
60			7170
70			7171
80			7172
90			7173
		87.5'-110.5' TILL (CLAY RICH DIAMICTON)	7174
100		75% soft to hard, gritty, clay balls, 0.25 to 0.5cm in size, medium grey color, silty to sandy, moderately compact clay. 15-20% subrounded to subangular, 1cm, mafic volcanic pebbles - dark grey green, fine grained to granular.	7175

OVERBURDEN EXPLORATION SERVICES LTD
REVERSE CIRCULATION DRILL HOLE LOG

DATE 01 29 19 87 HOLE NO. SRE-87-14 LOCATION L14W; Str. 6+515
 GEOLOGIST AJK DRILLER DB BIT NO./FTG. J000635
 SHIFT HOURS 7 TO 5 MOVE TO HOLE _____ BIT NO./FTG. _____
 DRILLING _____
 MECHANICAL DOWN TIME _____
 TOTAL HOURS 10 DRILLING PROBLEMS _____
 OTHER _____
 MOVE TO NEXT HOLE _____

Depth | Graphic | Int | Sample | Descriptive Log
 (m) | Log | | No. |

	7175	87.5' - 110.5' TILL (CLAY RICH DIAMICTON) continued.....			
	7176	Several subangular to angular mafic armored clasts. 10% granitic granules and pebbles. Trace amounts of argillite and tan colored limestone. Fine to coarse sand in -10 return.			
	7177	92' clay rich horizon, w 90% clay balls. Compact clay. Medium to coarse sand -10 return. Dominantly intermediate to mafic volcanic clasts, <1.0 cm subangular to subrounded pebbles. 2 to 3% granitic granules + cobbles. Trace amounts of argillitic material + rounded limestone clasts. Fine angular rock fragments within the clay.			
		110.5' - 115' BEDROCK			
		Fine grained, medium grey colored, H=5, very weakly carbonatized in areas, trace finely disseminated pyrite. Contains 0.1 cm blue quartz spheres within a fine to slightly granular matrix.			
		METASEDIMENT (GREYWACKE) ? ✓ OR MAFIC VOLCANIC (BASALT TUFF) ?			

DATE 01 29 19 87 HOLE NO. SBE-87-15 LOCATION L12W; Str 6+275
 GEOLOGIST AK DRILLER DB BIT NO./FTG. J000635
 SHIFT HOURS 7 TO 5 MOVE TO HOLE 8:15 - 8:30 BIT NO./FTG. 68+115 + 188'
 DRILLING 8:30 - 3:15 | 3:15 - 3:45 Pull rods |
 MECHANICAL DOWN TIME _____
 DRILLING PROBLEMS _____
 TOTAL HOURS 10 OTHER 7:00 - 8:15 alternator problems on skidder - alternator overcharging
 MOVE TO NEXT HOLE battery. 3:45 - 4:15

Depth | Graphic | Int | Sample | Descriptive Log | | | | | |
 (m) | Log | | No. | | | | | | |

				0-6'. No return.
				6'-82'. GRAVEL
10		7178		very low return. most of sample washed up to surface. Dominantly granitics granules to cobbles 70% of total clastic material. 30% intermediate to mafic volcanics, fine grained to granular, medium to dark grey-green, subrounded to subangular, poor to moderate sphericity, dominantly 1cm clasts. Moderate return at 9' w a 75/25 matrix clast ratio. Fine to coarse sand - 10 return.
20		7179		12.5'-14'. mafic volcanic boulder, moderately chloritized, dark grey green, fine grained w minor quartz-carbonate veining. 25.5' medium grained granitic boulder. followed by gravel similar to above at 27'.
30		7180		31.5'-57.5'. fine granule-pebble sized gravel w 80% granitics + 20% mafics. Fine to medium sand - 10 return w an 85/15 matrix-clast ratio. Very good penetration w an abundant return. Granitic material ranges from 0.25-1.0cm to good to moderate sphericity. Mafic clasts range from 0.5-1.5cm, subrounded to poor to moderate sphericity. <1% limestone and cherty material
40		7181		57.5'. gravel similar to above w same lithologies
50		7182		Dominantly pebble sized clasts >1.0cm. More compact w slower penetration. 60'. Dominantly granule to pebble sized gravel similar to section from 31.5'-57.5'.
60		7183		82'-131'. DIAMICTON
70		7184		85% soft to hard gritty clay balls, medium grey colored, moderately compact, 0.25-1.0cm silty clay spheres. Very fine to medium sand - 10 return. 10% mafic, subangular, 1cm clasts, fine grained, dark grey green. 5% granitic granules to cobbles w trace spherical 0.5-1.0cm well rounded limestone clasts. 82'-84'. soft silty clay followed by harder sandy clay balls. Several mafic, subangular to angular, 1.0-1.5cm armoured and wedge-shaped clasts. Unit resembles a fluvial-type, debris flow. 88'. more clay-rich diamicton with several granitic cobbles. At 94' clay content is increased to 95% - compact clay w fine angular rock fragments within the clay balls. 4% mafic material + 1% granitics in + 10 return.
80		7185		100-101.5'. Biotitic schist w quartz veining. Fine granular biotite w weak to moderate schistosity. 103'-104'. dark green mafic volcanic boulder, fine grained, w no visible sulphide mineralization.
90		7186		
		7187		
		7188		
		7189		
100				

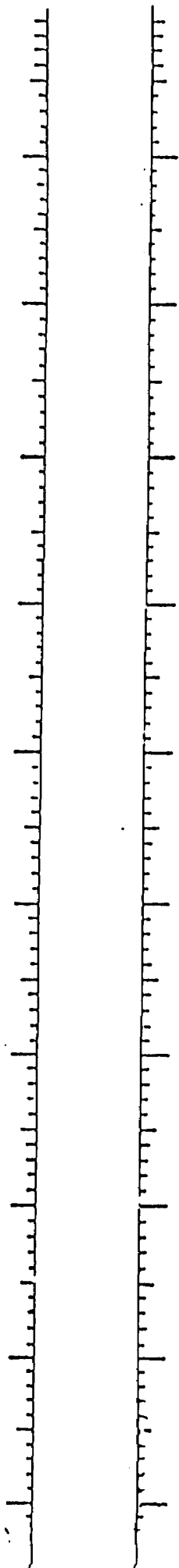
DATE 01 29 19 87 HOLE NO. SRE-87-15 LOCATION L12W ; G+273
 GEOLOGIST AKK DRILLER DB BIT NO./FTG. J000635
 SHIFT HOURS 7 TO 5 MOVE TO HOLE _____ BIT NO./FTG. 60'+115'+100'
 DRILLING _____
 MECHANICAL DOWN TIME _____
 TOTAL HOURS 10 DRILLING PROBLEMS _____
 OTHER _____
 MOVE TO NEXT HOLE _____

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 Depth | Graphic | Int | Sample | Descriptive Log | | | | | | | |
 (m) | Log | | No. | | | | | | | | | |
 =====

	<p>82'-131'. DIAMICTON (continued.....)</p> <p>7190</p> <p>102-122'. Diamicton similar to above to varied degrees of compactness.</p> <p>7191</p> <p>127'. several pebble and cobble horizons consisting of granitic, intermediate to mafic volcanic, biotite schist and limestone cobbles. Clay balls decreased to 10%. At 130'. several dacitic? cobbles, light grey, H=6-7, fine grained, w 1-2% cubic + finely disseminated pyrite.</p> <p>7192</p> <p>7193</p> <p>131'-136'. LACUSTRINE-TYPE CLAY.</p> <p>7194</p> <p>7195</p> <p>No SAMPLE</p> <p>136'-142'. DIAMICTON</p> <p>7196</p> <p>No SAMPLE</p> <p>7197</p> <p>No SAMPLE</p> <p>156'-164'. DIAMICTON</p> <p>7198</p>	<p>20-30% soft, gritty, clay balls, medium grey, 0.5-1.0cm in size - dominantly sandy clay. 25-30% granitic granules to cobbles. 55% intermediate to mafic clasts, subangular, 1.0cm pebbles w several cobbles. Trace amounts of well rounded limestone and subangular cherty material. -> 1.0cm in size. Clay content increasing to 75% at 138' w 20% mafic + 5% granitic material.</p> <p>Soft grey silty clay, non-gritty w several erratic granitic + mafic cobbles. Contains 1-2% well rounded, <1.0cm, clastic material.</p> <p>95% hard to soft gritty clay balls, medium grey, 0.5-1.5cm spheres, containing fine angular rock fragments. Moderately compact silty to sandy clay. 5% intermediate to mafic volcanic material, fine grained, medium to dark grey-green, 0.5cm subangular to cobble sized clasts. <1% granitic granules w several cobbles. Contains thin interbeds of lacustrine-type clay, soft, light grey + non-gritty. Several angular to sub-angular 1.5cm mafic armoured + wedge-shaped clasts. 162-164'. medium grained granitic boulder.</p>
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DATE of 29 19 87 HOLE NO. SRE-87-15 LOCATION L12W ; 6+275
 GEOLOGIST ASK DRILLER DB BIT NO./FTG. J000635
 SHIFT HOURS MOVE TO HOLE _____ BIT NO./FTG. _____
7 TO 5 DRILLING _____
 MECHANICAL DOWN TIME _____
 TOTAL HOURS DRILLING PROBLEMS _____
10 OTHER _____
 MOVE TO NEXT HOLE _____

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 Depth | Graphic | Int | Sample | Descriptive Log | | | | | |
 (m) | Log | | No. | | | | | | |
 =====



164-183'. LACUSTRINE-TYPE CLAY

Compact, medium grey, non-gritty, silty clay
 w trace amounts of 0.5cm, well rounded clastic
 material. Very fine silty clay, compact, w no
 clasts from 172-183'.

183-184'. REGOLITHIC-TYPE CLAY

Light yellowish brown to light greyish green,
 soft, slightly gritty regolith clay.

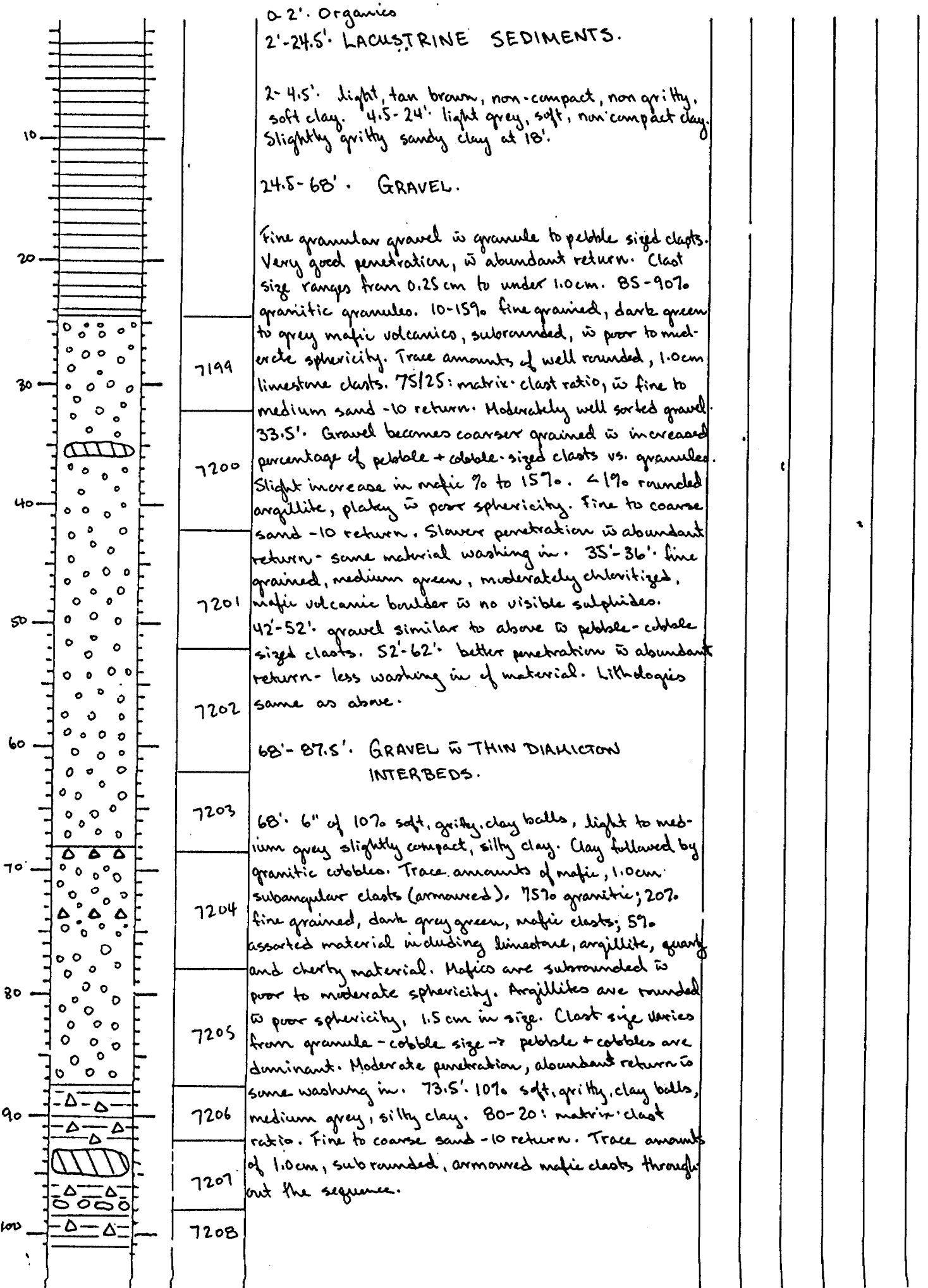
184-188'. BEDROCK.

Fine grained, medium greyish green colored, strongly
 schistose from 185-187.5'. Reddish brown Fe.
 staining along parting planes. Moderately chlor-
 itized, w no carbonate alteration. H=3. No visible
 sulphide mineralization. Trace quartz stringers
 (0.2 cm wide) - with slight silicification of host
 rock near veining. Mafic volcanic - (BASALT)
 (Acanthitic?). or possibly an metasediment
 (Argillaceous Greywacke) ✓

OVERBURDEN EXPLORATION SERVICES LTD
REVERSE CIRCULATION DRILL HOLE LOG

DATE 01 30 1987 HOLE NO. SRE-87-16 LOCATION L10W; Stn. S+76S
 GEOLOGIST BJK DRILLER DB BIT NO./FTG. J000637 New Bit
 SHIFT HOURS 7 TO 5 MOVE TO HOLE 3:45 - 4:15 (01-29-87) BIT NO./FTG. 143.5'
 DRILLING 7:45 - 12:15 | 12:15 - 12:30 Pull rods.
 MECHANICAL DOWN TIME _____
 TOTAL HOURS 10 DRILLING PROBLEMS _____
 OTHER _____
 MOVE TO NEXT HOLE 12:30 - 12:45

Depth | Graphic | Int | Sample | Descriptive Log | | | | | | | |
 (m) | Log | | No. | | | | | | | |



OVERBURDEN EXPLORATION SERVICES LTD
REVERSE CIRCULATION DRILL HOLE LOG

DATE 01 30 19 81 HOLE NO. SRE-87-16 LOCATION L10W; Str 5+765
 GEOLOGIST AKK DRILLER DS BIT NO./FTG. 3000637
 SHIFT HOURS 7 TO 5 MOVE TO HOLE _____ BIT NO./FTG. _____
 DRILLING _____
 MECHANICAL DOWN TIME _____
 TOTAL HOURS 10 DRILLING PROBLEMS _____
 OTHER _____
 MOVE TO NEXT HOLE _____

=====
 Depth | Graphic | Int | Sample | Descriptive Log | | | | | | | |
 (m) | Log | | | No. | | | | | | | |
 =====

	7208	87.5'-125.5' DIAMICTON
	7209	Moderate penetration - moderately compact w minute angular rock fragments within the clay. 90% soft to hard, gritty, clay balls, medium grey, 0.25-1.0cm spheres, sandy to silty clay. Fine to medium sand -10 return. 8% mafic volcanic, 1cm, poorly spherical, subangular to subrounded, fine grained, dark grey clasts. 2% granitic, 0.5cm pebbles and granules. Trace limestone. Several 1.0cm, angular mafic armored clasts. 92' light greyish green clay balls w 5% mafic, 3% intermediate, + 2% granitic material. 93'-95.5' granular mafic volcanic boulder, medium grey-green, weakly chloritized, foliated, w nil to trace finely disseminated pyrite. 97'-98' light grey-green, intermediate volcanic cobbles + dacitic tuff material.
	7210	110'-111' grey, compact, silty clay (lacustrine?)
	7211	111'-116' Diamicton similar to above. 116' 20% hard gritty, clay balls w 50% intermediate-mafic volcanic clasts, fine grained, light to medium grey-green, 1.0cm, subangular w poor sphericity. 30% granitic granules to pebbles. <1% well rounded, spherical, 1.0cm limestone clasts. 124.5'-125.5' metasediment / biotite schist boulder.
	No SAMPLE	125.5'-129.5' LACUSTRINE-TYPE CLAY
	7212	Soft, medium grey, non-gritty, non compact, silty to sandy clay. Thin sandy layers w 2" granule horizon. 129.5'-131' Biotite schist boulder (fine biotite grains).
	7213	132'-136' DIAMICTON
	7214	75-90% soft, gritty, clay balls, medium grey colored, silty to sandy clay. Weakly to moderately compact. Dominantly mafic granules to pebbles w <10% granitics. Fine to coarse sand -10 return. 135-136 dark greenish-grey sandy clay followed by bedrock.
	7215	136-143.5' BEDROCK
		Fine grained, medium grey colored w 0.1-0.2cm blue quartz spheres. H= 4.5. Weakly to moderately foliated / schistose. Trace fine pyrite along foliation planes. Non carbonatized - non oxidized. Metasediment (greywacke?) or Basaltic Tuff?
		140.5-143.5' fine grained, dark grey argillaceous sediment w approximately 20% magnetite. Fe-Bearing Argillite
		STOP AT 143.5'

OVERBURDEN EXPLORATION SERVICES LT
REVERSE CIRCULATION DRILL HOLE LOG

DATE 01 30 19 87 HOLE NO. SRE-87-17 LOCATION L BW; Str. 5+765
 GEOLOGIST AKK DRILLER DB BIT NO./FTG. 3000637
 SHIFT HOURS 7 TO 5 MOVE TO HOLE 12:30 - 1:00 BIT NO./FTG. 143.5' + 123'
 DRILLING 1:00 - 4:45
 MECHANICAL DOWN TIME _____
 DRILLING PROBLEMS _____
 OTHER _____
 MOVE TO NEXT HOLE 8:00 - 8:30 (01-31-87)

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 Depth | Graphic | Int | Sample | Descriptive Log | | | | | |
 (m) | Log | | No. | | | | | | |
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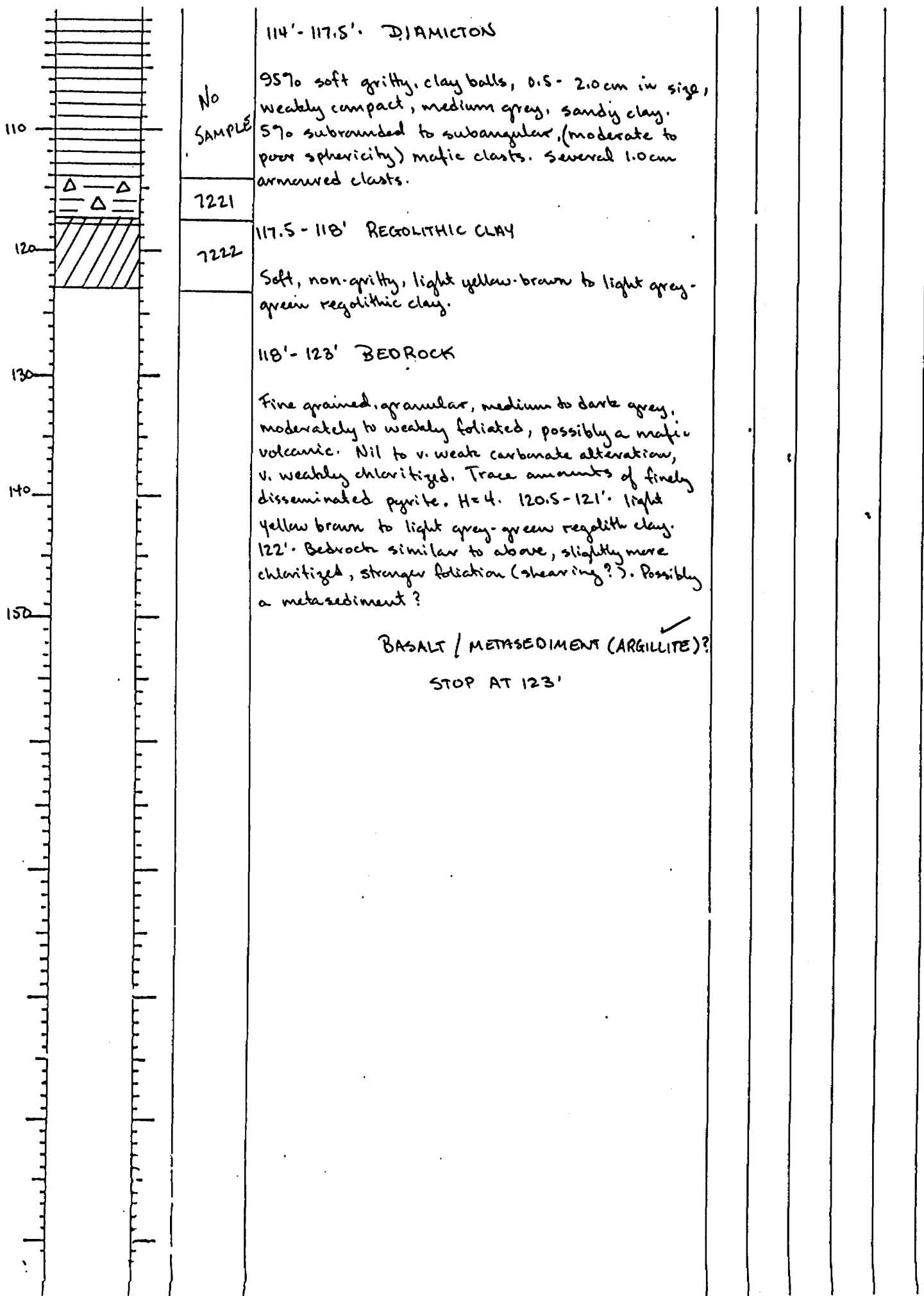
	<p>0-2'. Organics</p> <p>2'-21.5'. LACUSTRINE SEDIMENTS</p> <p>Soft, non-gritty, non-compact, medium grey silty clay. 2-6'. oxidized light, brown clay.</p> <p>21.5'-52.5'. GRAVEL.</p> <p>Thin 4" gravel layer followed by a diabase boulder from 22-23.5'. Slow penetration, abundant return - material washing in. Gravel to cobble sized clasts (dominantly pebbles). 65% granitics; 30% intermediate-mafic volcanics, fine grained medium to dark grey-green; 5% assorted clasts, including, diabase, limestone, argillite, cherty material and trace amounts of epidote. 75/25: matrix-clast ratio. Fine to coarse sand - 10 return. Clasts are rounded to subangular to poor to moderate sphericity. 31-32.5'. Diabase Boulder.</p> <p>32-42'. gravel similar to above to quicker penetration and less washing in. of material.</p> <p>52.5'-66'. LACUSTRINE-TYPE CLAY</p> <p>Soft, grey, non-gritty, non-compact silty, grey clay. 61-61.5'. medium grained granitic boulder.</p> <p>No SAMPLE 66'-81'. GRAVEL</p> <p>Moderate penetration - abundant return to some washing in of material. Dominantly pebble-cobble sized clasts to some granular material. 75% granitics, granule to cobble size. 20% intermediate to mafic subrounded, to poor sphericity pebbles. 5% assorted material includes felsic volcanics? cherty material and limestone well rounded to subangular clasts to good to moderate sphericity. Subangular argillite to trace amounts of epidote and jasper. Fine to medium sand - 10 return. 80/20 to 85/15: matrix-clast ratio. 75.5'-77'. Granitic boulder.</p> <p>No SAMPLE 81'-114'. LACUSTRINE-TYPE CLAY</p> <p>Soft, non-compact, non-gritty, light to medium grey silty clay. Contains thin interbeds of fine granule gravel / very coarse sand.</p> <p>109-110'. Granitic Boulder.</p>
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OVERBURDEN EXPLORATION SERVICES LTD
 REVERSE CIRCULATION DRILL HOLE LOG

Page 2 of 2

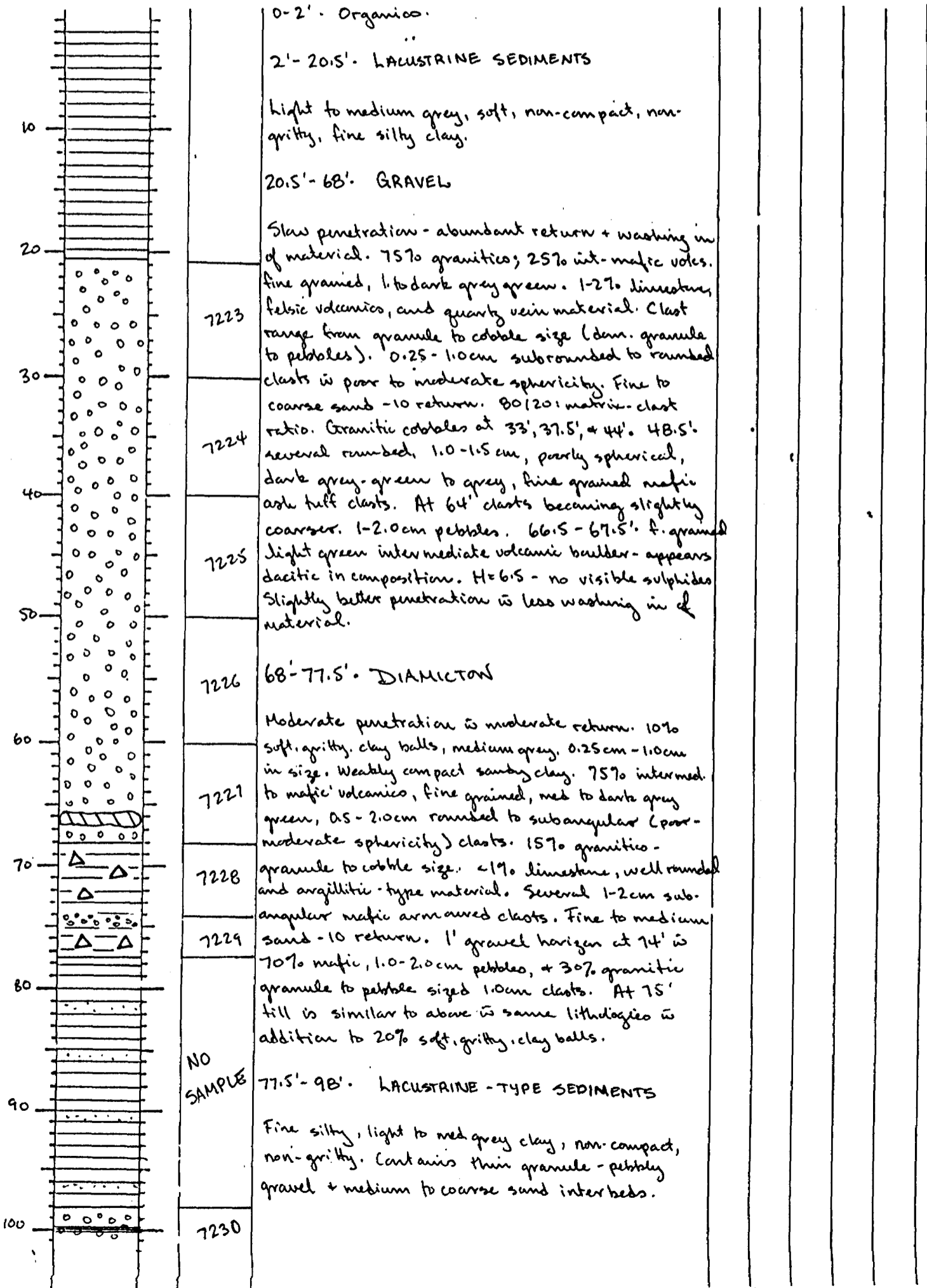
DATE 01 30 1987 HOLE NO. SRE-87-17 LOCATION LBW; Sta. 5+765
 GEOLOGIST AWK DRILLER JD BIT NO./FTG. 3000637
 SHIFT HOURS 1 TO 5 MOVE TO HOLE _____ BIT NO./FTG. 143.5' + 123'
 DRILLING _____
 MECHANICAL DOWN TIME _____
 TOTAL HOURS 10 DRILLING PROBLEMS _____
 OTHER _____
 MOVE TO NEXT HOLE _____

Depth | Graphic | Int | Sample | Descriptive Log | | | | | |
 (m) | Log | | No. | | | | | | |



DATE 01 31 19 87 HOLE NO. SBE-87-18 LOCATION L6W; Str 5+7B5
 GEOLOGIST BJK DRILLER JB BIT NO./FTG. J000637 → 143.5' + 123' + 108'
 SHIFT HOURS 7 TO 5 MOVE TO HOLE 8:00 - 8:30 BIT NO./FTG. _____
 DRILLING 7:30 - 8:00 Pull rods | 8:30 - 11:15 | Pull rods + redrill from 11:15 - 11:45
 MECHANICAL DOWN TIME _____
 TOTAL HOURS 10 DRILLING PROBLEMS Damaged Drill Bit - Lost 2 cmcs - Redrill
 OTHER Pull rods 11:15 - 11:45
 MOVE TO NEXT HOLE 2:45 - 3:00

Depth | Graphic | Int | Sample | Descriptive Log | | | | | | | |
 (m) | Log | | No. | | | | | | | |

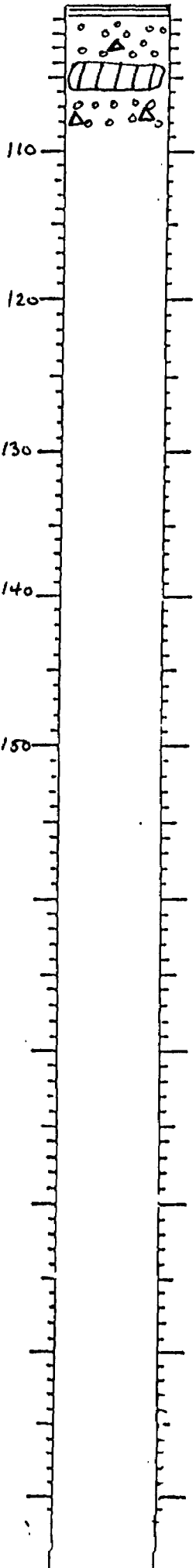


OVERBURDEN EXPLORATION SERVICES LTD
REVERSE CIRCULATION DRILL HOLE LOG

Page 2 of 2

DATE 01 21 87 HOLE NO. SRE-87-18 LOCATION L6W; Stn. 5+185
 GEOLOGIST AJK DRILLER DB BIT NO./FTG. J000637-7 143.5' + 123' + 120'
 SHIFT HOURS 7 TO 5 MOVE TO HOLE _____ BIT NO./FTG. _____
 DRILLING _____
 MECHANICAL DOWN TIME _____
 TOTAL HOURS 10 DRILLING PROBLEMS _____
 OTHER _____
 MOVE TO NEXT HOLE _____

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 Depth | Graphic | Int | Sample | Descriptive Log | | | | | |
 (m) | Log | | No. | | | | | | |
 =====



Depth (m)	Graphic Log	Int No.	Sample No.	Descriptive Log
98'				GRAVEL / DIAMETER?
7230				25% soft clay balls, 0.5cm in diameter, medium grey, sandy silt to sandy clay.
7231				75% int-mafic volcanics, fine grained, medium to dark green colored, crystalline flow-massive, pebbles + cobbles. 25% granitic granules + cobbles. 50/50: matrix-clast ratio. Trace amounts of subrounded platy argillite clasts and 1.0cm, subrounded mafic armored clasts. Good penetration to abundant return. 100-101' very fine, silty clay unit with no clasts. 104-106' granitic boulders.
				STOP AT 108'
				DAMAGED BIT - REDRILL HOLE

OVERBURDEN EXPLORATION SERVICES LTD
REVERSE CIRCULATION DRILL HOLE LOG

DATE 01 31 19 87 HOLE NO. SRE-87-18A LOCATION 1 metre west of SRE-87-18
 GEOLOGIST BJK DRILLER JD BIT NO./FTG. J000556
 MOVE TO HOLE _____ BIT NO./FTG. 121
 DRILLING 1145-2130 | 2130-2145 Full rods
 MECHANICAL DOWN TIME _____
 DRILLING PROBLEMS _____
 OTHER _____
 MOVE TO NEXT HOLE 2145-3:00

Depth | Graphic | Int | Sample | Descriptive Log | | | | | | |
 (m) | Log | | No. | | | | | | | | |

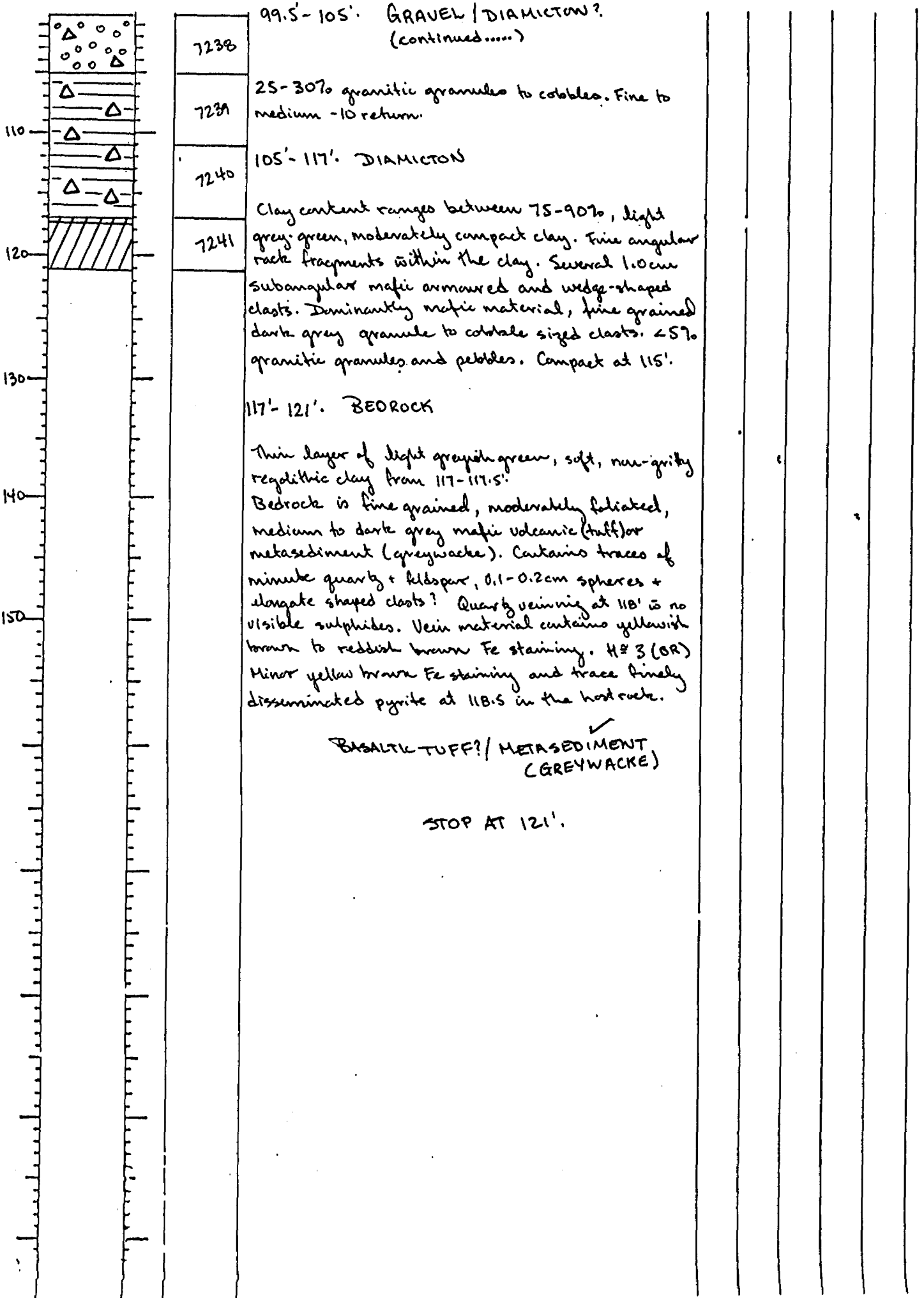
0-2'				Organic
2'-20.5'				LACUSTRINE SEDIMENTS Soft, non compact clay, medium grey colored. Silty clay.
20.5'-68'				GRAVEL Slow to moderate penetration - abundant return - some washing in of material. 70-75% granitic granule to 2.0cm sized clasts. 25-30% fine grained, dark grey mafic, subrounded (poor to moderate sphericity) 1.0cm clasts. → includes 5-10% intermediate volcanic - light to medium green, fine grained. 1-2% argillite, limestone, felsic vol? quartz vein + cherty material. Trace amounts of epidote. 75/25: matrix-clast ratio. Fine to medium sand -10 return. 32' dominantly granule to 1.0cm clasts - good penetration w abundant return. 40.5' several intermediate tuff pebbles and cobbles - fine grained, light to medium grey-green. 42'-52' fine to coarse sand -10 return w an 80/20 matrix-clast ratio. 54'-55' fine grained, mafic volcanic boulder, dark grey-green, w no visible sulphides, contains minor calcite stringers (barren). At 65' clasts becoming slightly coarser - pebble to smaller cobble sized material.
7232				
7233				
7234				
7235				
68-75'				DIAMICTON
7236				
7237				
75-99.5'				LACUSTRINE-TYPE SEDIMENTS. Fine silty clay, non-gritty, non-compact, medium grey w thin granule gravel and coarse sand interbeds.
99.5'-105'				GRAVEL / DIAMICTON? Good penetration, moderate to abundant return 5-10% soft, gritty, clay balls, 0.25-0.75cm in diameter. Non compact, medium grey, clay-sand 65% mafic material, fine grained, dark grey 1.0cm, subrounded to subangular clasts.

No
SAMPLE

OVERBURDEN EXPLORATION SERVICES LTD
 REVERSE CIRCULATION DRILL HOLE LOG

DATE 01 31 1987 HOLE NO. SRE-87-18A LOCATION 1 metre west of SRE-87-18
 GEOLOGIST AJK DRILLER DB BIT NO./FTG. T000556
 SHIFT HOURS 7 TO 5 MOVE TO HOLE _____ BIT NO./FTG. _____
 DRILLING _____
 MECHANICAL DOWN TIME _____
 TOTAL HOURS 10 DRILLING PROBLEMS _____
 OTHER _____
 MOVE TO NEXT HOLE _____

Depth (m) | Graphic Log | Int. Sample No. | Descriptive Log



OV BURDEN EXPLORATION SERVICES LTD
REVERSE CIRCULATION DRILL HOLE LOG

DATE 01/31/87 HOLE NO. SRE-87-19 LOCATION L4W; Stn 5+285
 GEOLOGIST AKK DRILLER DS BIT NO./FTG. 1000540 - New Bit
 SHIFT HOURS 7 TO 5 MOVE TO HOLE 2:45-3:00 BIT NO./FTG. 115'
 DRILLING 3:00-4:30 | 4:30-5:00 Drain Pump + Clean water tank
 MECHANICAL DOWN TIME _____
 TOTAL HOURS 10 DRILLING PROBLEMS _____
 OTHER _____
 MOVE TO NEXT HOLE 9:45-10:00 (02-01-87)

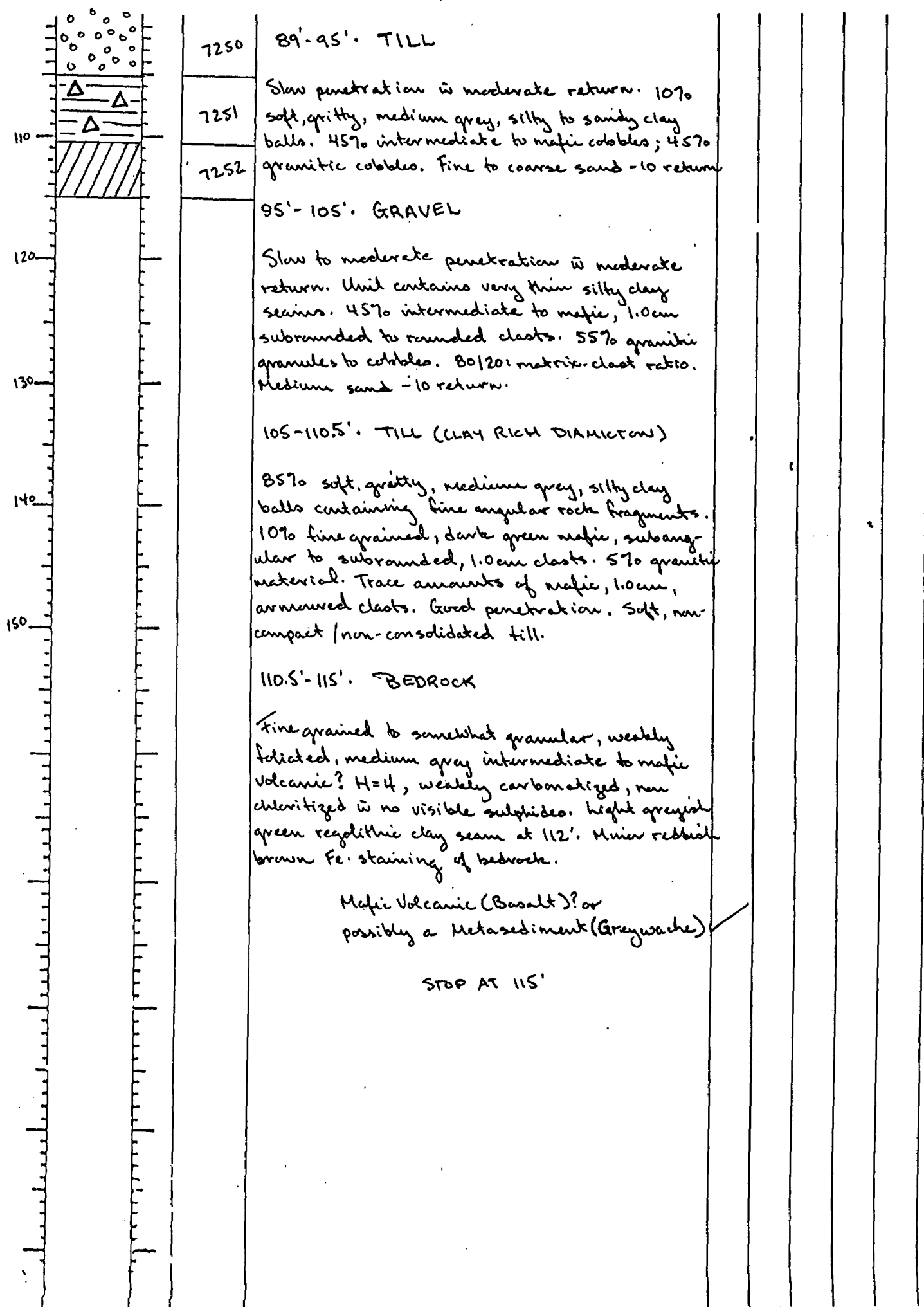
Depth | Graphic | Int | Sample | Descriptive Log | | | | | | | |
 (m) | Log | | No. | | | | | | | |

	<p>0-2' Organics</p> <p>2-30.5' LACUSTRINE SEDIMENTS</p> <p>Fine silty clay - medium grey, non-compact, non-gritty. Fine (granule), gravel from 26'-27'</p> <p>30.5' - 71.5' GRAVEL</p> <p>Moderate penetration - good return. Granule to cobble-sized clasts. (dominantly 0.25-2.0cm). 65% granitic, granule to cobble size. 30% fine grained, dark grey mafic, 1.0cm in size, subrounded to rounded (poor to moderate sphericity) clasts - contains trace amounts of finely disseminated pyrite. 5% assorted clasts include well rounded, spherical limestone subangular cherty material, quartz + epidote. Medium to coarse sand - 10 return. 75/25 matrix-clast ratio. 47'-48' fine silty clay horizon, non-gritty, medium grey, non-compact followed by gravel similar to above. Very slow penetration with moderate return at 51'. Fine grained, light to medium green intermediate volcanic boulder w no visible sulphides from 59-60'. At 63' slightly larger clasts, dominantly pebble sized. 35-40% intermediate to mafic volcanic, medium to dark green colored, moderately chloritized, subangular to subrounded 1.0-2.0 cm clasts. Good penetration w abundant return. 75/25 matrix-clast ratio.</p> <p>STOP AT 72' (01-31-87)</p> <p>71.5' - 81.5' TILL</p> <p>Slow penetration, abundant return, compact till unit. 10-25% soft, gritty, silty-sandy clay balls. Medium grey, 0.25-1.0cm spheres. 55% subrounded to subangular, fine grained dark mafic, pebble to cobble sized clasts. 20% granitic granules to cobbles. Fine to coarse sand - 10 return. Contains several 1.0cm subrounded mafic + granitic armoured + wedge-shaped clasts. 76' clay content increasing to 80%; medium grey 0.5-1.0cm clay balls containing fine angular rock fragments. 15% medium to dark gray-green mafic cobbles + pebbles, subangular. 5% granitic material.</p> <p>81.5' - 89' LACUSTRINE-TYPE SEDIMENTS.</p> <p>Soft, non-gritty, grey silty clay, weakly to moderately compact containing thin granule-type gravel and very coarse sand interbeds.</p>	<p>7242</p> <p>7243</p> <p>7244</p> <p>7245</p> <p>7246</p> <p>7247</p> <p>7248</p> <p>No SAMPLE</p> <p>7249</p> <p>7250</p>
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OVERBURDEN EXPLORATION SERVICES LTD
 REVERSE CIRCULATION DRILL HOLE LOG

DATE 01 31 19 87 HOLE NO. SRE-87-19 LOCATION L4W; Sta 5:285
 GEOLOGIST AJK DRILLER DS BIT NO./FTG. 3000 S40
 SHIFT HOURS 7 TO 5 MOVE TO HOLE _____ BIT NO./FTG. _____
 DRILLING _____
 MECHANICAL DOWN TIME _____
 TOTAL HOURS 10 DRILLING PROBLEMS _____
 OTHER _____
 MOVE TO NEXT HOLE _____

Depth | Graphic | Int | Sample | Descriptive Log
 (m) | Log | | No. |



OVERBURDEN EXPLORATION SERVICES LTD
 REVERSE CIRCULATION DRILL HOLE LOG

DATE 02 01 19 87 HOLE NO. SRE-87-20 LOCATION L 2 W; SM. 5+525
 GEOLOGIST AJK DRILLER DB BIT NO./FTG. T000540
 SHIFT HOURS 7 TO 5 MOVE TO HOLE 9:45 - 10:00 BIT NO./FTG. 115'+95'
 DRILLING 10:00 - 11:45 | 11:45 - 12:00 Pull rods
 MECHANICAL DOWN TIME _____
 DRILLING PROBLEMS _____
 OTHER _____
 TOTAL HOURS 10 MOVE TO NEXT HOLE 12:00 - 12:15

Depth (m)	Graphic Log	Int. Sample No.	Descriptive Log
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0-2'			Organics
2'-39.5'			LACUSTRINE SEDIMENTS. light yellow brown - brown, soft, non compact, non-gritty, silty clay. No clastic material. Light grey clay at 18'.
39.5'-82'			GRAVEL Good penetration w abundant return. Granule to pebble-sized clasts. 70-75% granitic granules + minor % cobbles. 25-30% intermediate to mafic clasts, medium to dark green, fine grained, no visible sulphides, w/ky to moderately chloritized, subrounded to subangular w poor to moderate sphericity. 1-2% assorted clasts; limestone, quartz vein material + trace epidote. 85/15 matrix-clast ratio, w medium to coarse sand - 10 return
40-51'	7253		At 51' higher percentage of pebble-sized clasts vs. above horizon. Similar lithologies + %. Slower penetration at 72' w moderate return - more compact gravel. 81'-82' fine grained, light grey green, intermediate volcanic boulders, no visible sulphides - appears dacitic in composition. Boulder followed by trace amounts of 0.5 cm, soft, gritty, clay balls, medium to light grey sandy clay.
51'-82'	7254		
82'-90'			CLAY RICH BASAL TILL
60-72'	7255		Very compact, medium to dark grey, gritty, silty to sandy clay balls. Hard + gritty containing fine angular rock fragments. Clay balls are 0.5 to 1.0 cm in diameter, w 80-95% of total + 10 return. 15% fine grained intermediate to mafic material, subrounded, poor to moderate sphericity, 1.0 cm in size. <5% granitic granules. At 89.5' greenish grey, soft, non gritty regolith-like-type clay.
72'-89.5'	7256		
90'-95'	7257		BEDROCK
90'-92'	7258		Fine grained, to slightly granular, silicified w abundant quartz veining, intermediate to mafic volcanic? H=6, brittle, 1-5% finely disseminated pyrite in the wallrock + vein material from 90'-92'
92'-95'	7259		Very weakly carbonatized in areas.
			Metasediment (Greywacke) or Int.-Mafic Volcanic? STOP @ 95'

OVERBURDEN EXPLORATION SERVICES LTD
 REVERSE CIRCULATION DRILL HOLE LOG

DATE 02 01 19 87 HOLE NO. SRE-87-21 LOCATION LOW; Stn S-535
 GEOLOGIST AKS DRILLER DB BIT NO./FTG. 100540
 SHIFT HOURS 7 TO 5 MOVE TO HOLE 12:00-12:15 BIT NO./FTG. 115'+95'+109'
 DRILLING 12:15-4:00 | 4:00-4:15 Pull rods | 4:15-5:00 clean tank + drain pump
 MECHANICAL DOWN TIME _____
 TOTAL HOURS 10 DRILLING PROBLEMS _____
 OTHER _____
 MOVE TO NEXT HOLE 7:30-8:00 (02-02-87)

Depth | Graphic | Int | Sample | Descriptive Log | | | | | | |
 (m) | Log | | No. | | | | | | | |

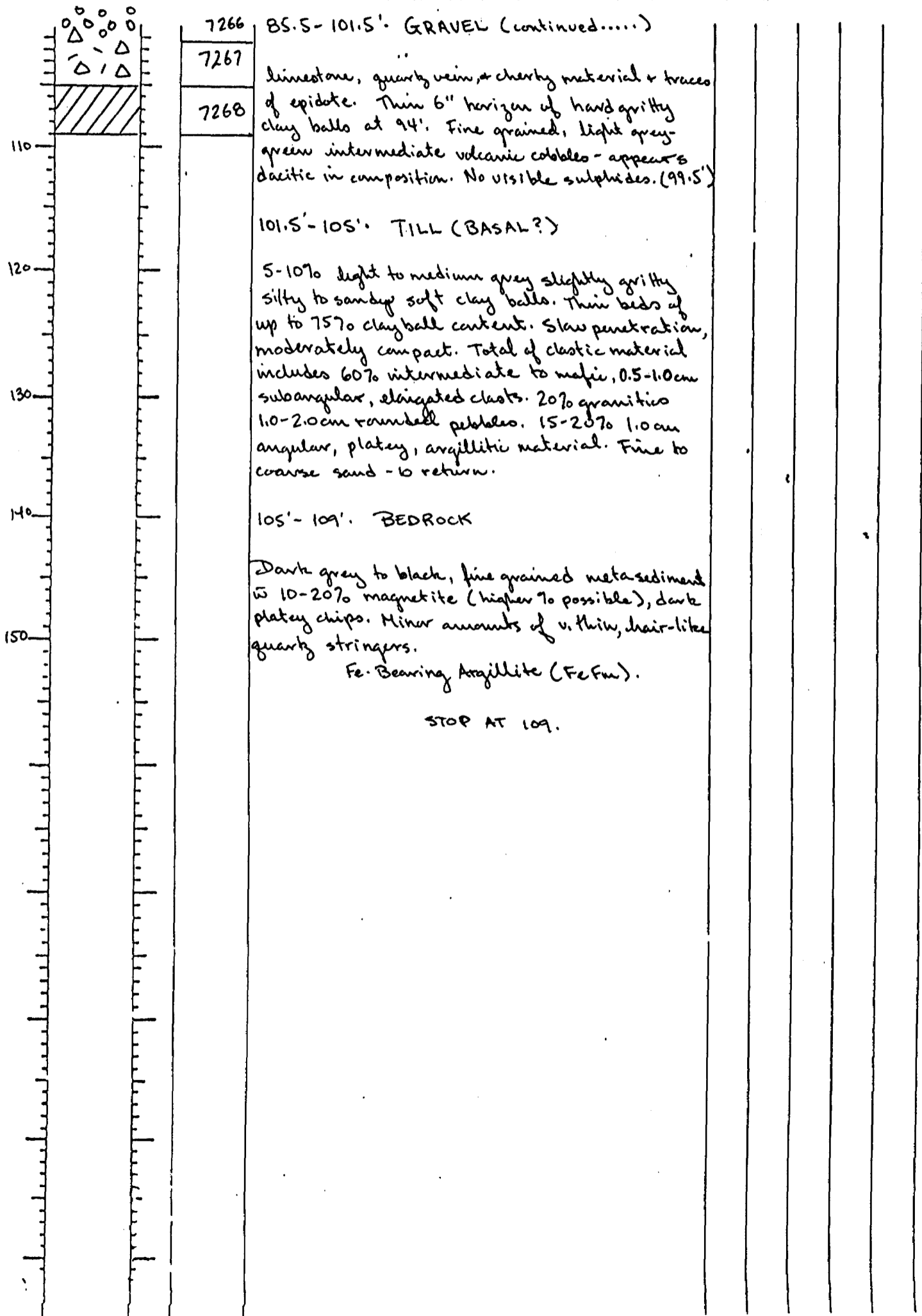
	<p>0-2' Organics</p> <p>2'-36' LACUSTRINE SEDIMENTS.</p> <p>2'-10' fine silty clay, non-compact, non-gritty, light yellow brown colored. no clastic material</p> <p>>10' soft, light grey, non-gritty clay.</p> <p>36'-74.5' GRAVEL</p> <p>Slow penetration - moderate to high return w some washing in of material. 65% granitics, granules to cobble size, (dominantly 1.5 cm pebbles). 30% fine grained, light to dark grey-green, intermediate to mafic volcanic, subrounded to subangular (poor to moderate sphericity) 1.0-2.0 cm clasts. 5% assorted material includes well rounded, spherical limestone, quartz vein material, epidote, argillaceous sediments, and trace amounts of cherty clasts.</p> <p>39' several cobbles similar to BR at SRE-87-20. containing 1-5% py + po. Fine grained andesite to basalt (silicified), medium grey, H=5-6, weakly carbonatized in areas. 70/30 matrix-clast ratio, to a fine to medium sand matrix. 44-46 + 47-48' granitic boulder. 44'-54' dominantly cobbles + boulders to 85% granitics + 15% mafic's.</p> <p>52'-54' medium grained granitic boulder.</p> <p>54' dominantly pebble sized clasts to 65% granitics, 30% int-mafic, + 5% assorted material similar to above. 63-64' granitic boulder.</p> <p>64' dominantly granule to 2.0cm pebbles, rounded to subrounded w similar lithologies to above.</p> <p>70' several inches of fine, soft, silty clay, light grey colored, non-gritty, followed by granitic cobbles</p> <p>74.5'-85.5' LACUSTRINE-TYPE SEDIMENTS</p> <p>Fine silty clay, light grey colored, non compact, non-gritty, w <5% mafic + granitic, well rounded, spherical granules and v.f. sandy clay.</p> <p>85.5'-101.5' GRAVEL</p> <p>85.5'-86.5' <10% soft, gritty, clay balls, 0.5-1.0 cm in diameter, light grey colored. Quickly grades into a gravel. Clay could be washing in from above lacustrine unit. Slow to moderate penetration, abundant return w washing in of material. Several subangular to subrounded 1.0 cm mafic + granitic armoured clasts. 89.5'-90.5' diabase boulder. 60% granitics, 35-40% light to dark grey green, subrounded (poor-moderate sphericity) granules to 1.5 cm intermed to mafic pebbles, <5% assorted material included</p>	<p>7260</p> <p>7261</p> <p>7262</p> <p>7263</p> <p>7264</p> <p>No SAMPLE</p> <p>7265</p> <p>7266</p> <p>7267</p>	<p>10</p> <p>20</p> <p>30</p> <p>40</p> <p>50</p> <p>60</p> <p>70</p> <p>80</p> <p>90</p> <p>100</p>
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OVERBURDEN EXPLORATION SERVICES LTD
 REVERSE CIRCULATION DRILL HOLE LOG

Page 2 of 2

DATE 02 01 19 87 HOLE NO. SRE-87-21 LOCATION LOW: Str 5+535
 GEOLOGIST AK DRILLER DB BIT NO./FTG. 1000540
 SHIFT HOURS 7 TO 6 MOVE TO HOLE _____ BIT NO./FTG. _____
 DRILLING _____
 MECHANICAL DOWN TIME _____
 TOTAL HOURS 10 DRILLING PROBLEMS _____
 OTHER _____
 MOVE TO NEXT HOLE _____

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 Depth | Graphic | Int | Sample | Descriptive Log | | | | | |
 (m) | Log | | No. | | | | | | |
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**OVERBURDEN EXPLORATION SERVICES LTD
REVERSE CIRCULATION DRILL HOLE LOG**

Page 1 of 2

DATE <u>02 02 19 87</u>	HOLE NO. <u>SRE-87-22</u> LOCATION <u>L2E; Str. 5+535</u>
SHIFT HOURS <u>7 TO 5</u>	GEOLOGIST <u>AKK</u> DRILLER <u>DB</u> BIT NO./FTG. <u>1000551 New Bit + New Sub.</u>
TOTAL HOURS <u>10</u>	MOVE TO HOLE <u>7:30-8:00</u> BIT NO./FTG. _____
	DRILLING <u>8:45-12:00 12:00-12:15 Pull Rods</u>
	MECHANICAL DOWN TIME _____
	DRILLING PROBLEMS _____
	OTHER <u>8:00-8:45 maintenance - change oil</u>
	MOVE TO NEXT HOLE <u>12:15-12:30</u>

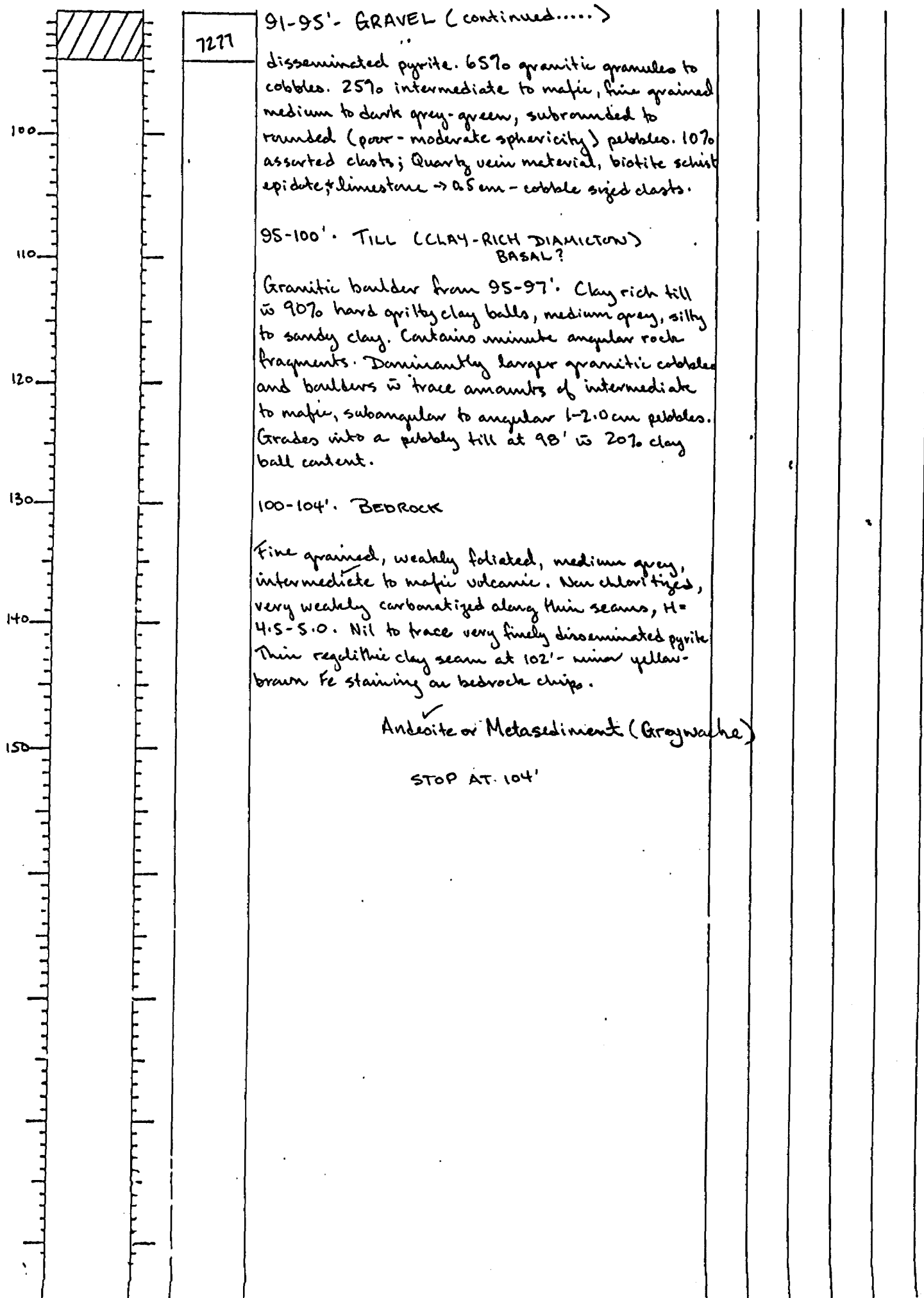
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 Depth | Graphic | Int | Sample | Descriptive Log | | | | | | | |
 (m) | Log | | No. | | | | | | | | | |
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0-3'	Organics	
3'-42.5'	LACUSTRINE SEDIMENTS	
3-8'	light brown, soft, non-compact clay; slightly gritty in areas w trace amounts of well rounded 1.0cm clasts. 8' light grey, non-compact, non-gritty, silty clay.	
42.5'-78'	GRAVEL	
	Moderate penetration, abundant return w some washing in of material. 70-75% granitic granules to 2cm pebbles. 25-30% intermediate- mafic, fine grained, medium to dark greenish-grey, 0.5 to 1.5 cm, rounded (poorly spherical) clasts. 1-2% well rounded spherical limestone pebbles, quartz, cherty material, and trace epidote fragments. Medium to coarse sand - 10 return w an 80/20 matrix-clast ratio. 50-51' Granitic boulder.	
52'	6" fine, light grey, non-gritty clay horizon followed by granitic cobbles.	7269
55'-59'	light pink medium grained biotite granite.	7270
62'	gravel similar to above w larger clast size - dominantly pebbles to cobbles. Similar lithologies + %	No SAMPLE
64-65'	Quicker penetration w abundant return. Less compact + less washing in of material.	
64-65'	granitic boulder.	
75-75.8'	Diabase Boulder	
78'-91'	TILL (BASAL ?)	
	Slow penetration, moderate return. 0.25-1.5 soft to hard gritty clay balls, light grey colored, moderately compact, silty to sandy clay. Minute angular rock fragments within the clay balls. Clay balls make up between 65-70% total + 10 return. 20% intermediate to mafic angular to subangular (prior to moderate sphericity) 1.0cm pebbles. Fine grained, medium to dark grey-green colored. 1-2% 1.0cm subangular mafic armoured clasts. 10% granitic granules to cobbles. 5% assorted subangular to angular metasediments + barren quartz vein material.	7271
	Till becomes clay rich at 84' w 90% total clay ball content. Silt to medium sand - 10. At 89' till grades into a gravel w < 5% clay ball content.	7272
		7273
		7274
		7275
		No SAMPLE
91-95'	GRAVEL	7276
	Abundant return - slow penetration. At 91' fine grained, dark green, mod. chloritized, weakly foliated mafic volcanics w 1-5% finely	

OVERBURDEN EXPLORATION SERVICES LTD
 REVERSE CIRCULATION DRILL HOLE LOG

DATE 02 02 1987 HOLE NO. SRE-87-22 LOCATION L2E; Str. S+S35
 GEOLOGIST AKK DRILLER DB BIT NO./FTG. 8000551
 SHIFT HOURS 7 TO 5 MOVE TO HOLE _____ BIT NO./FTG. _____
 DRILLING _____
 MECHANICAL DOWN TIME _____
 TOTAL HOURS 10 DRILLING PROBLEMS _____
 OTHER _____
 MOVE TO NEXT HOLE _____

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 Depth | Graphic | Int | Sample | Descriptive Log | | | | | |
 (m) | Log | | No. | | | | | | |
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OVERBURDEN EXPLORATION SERVICES LTD
 REVERSE CIRCULATION DRILL HOLE LOG

DATE 02 02 1987

HOLE NO. SRE-87-23 LOCATION L 4E; Stn. 5+465

GEOLOGIST AK DRILLER DB BIT NO./FTG. 1000551 - reuse for shallow hole

SHIFT HOURS
7 TO 5

MOVE TO HOLE 12:15 - 12:30 BIT NO./FTG. 118'

DRILLING 12:30 - 3:30

TOTAL HOURS
10

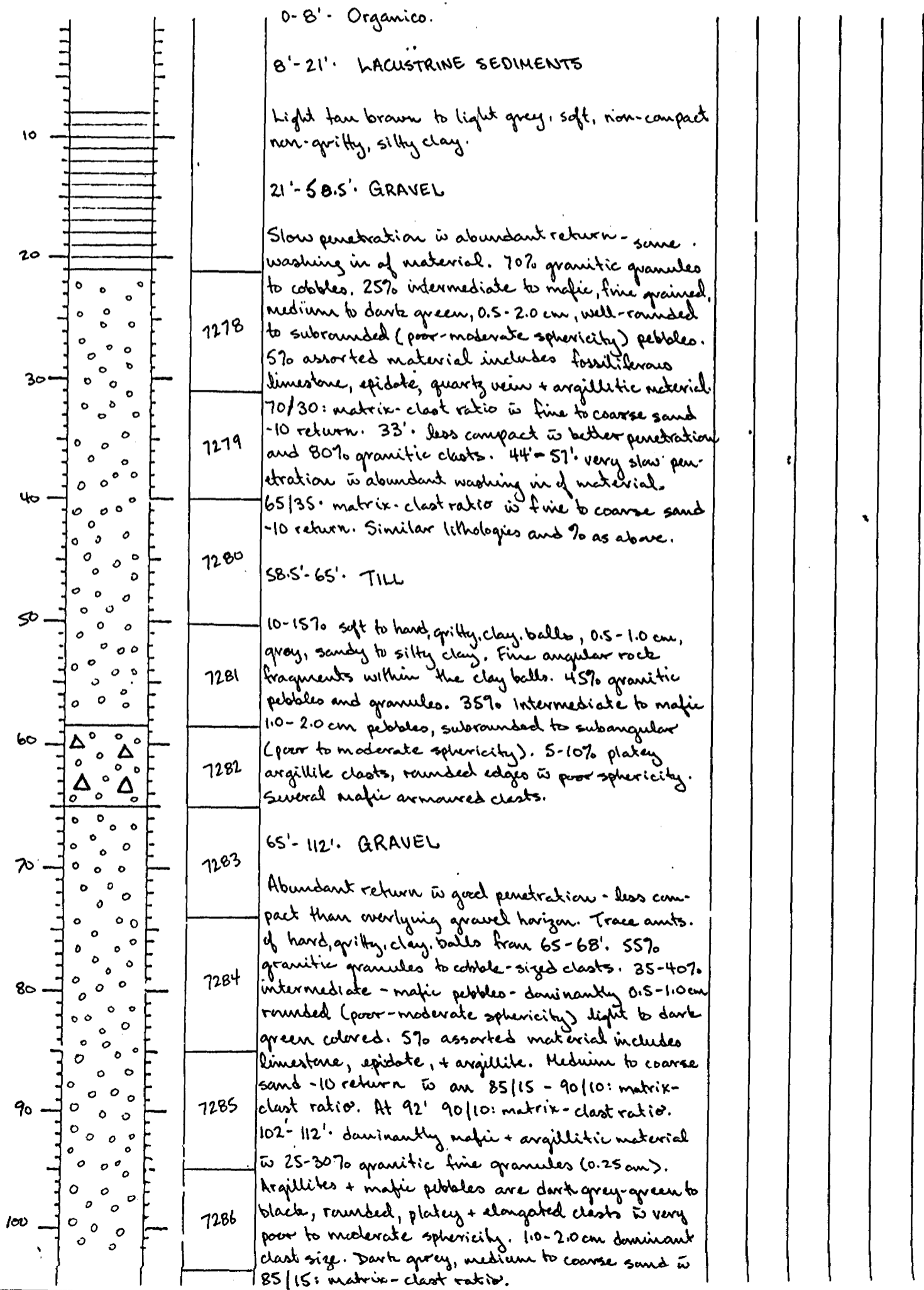
MECHANICAL DOWN TIME _____

DRILLING PROBLEMS _____

OTHER _____

MOVE TO NEXT HOLE 4:30 - 4:45 + clean-up.

=====
 Depth | Graphic | Int | Sample | Descriptive Log | | | | |
 (m) | Log | | No. | | | | | |
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0-8' Organics.

8'-21' LACUSTRINE SEDIMENTS
 Light tan brown to light grey, soft, non-compact non-gritty, silty clay.

21'-58.5' GRAVEL
 Slow penetration to abundant return - some washing in of material. 70% granitic granules to cobbles, 25% intermediate to mafic, fine grained, medium to dark green, 0.5-2.0 cm, well-rounded to subrounded (poor-moderate sphericity) pebbles. 5% assorted material includes fossiliferous limestone, epidote, quartz vein + argillitic material.
 70/30: matrix-clast ratio to fine to coarse sand -10 return. 33': less compact to better penetration and 80% granitic clasts. 44'-51': very slow penetration to abundant washing in of material.
 65/35: matrix-clast ratio to fine to coarse sand -10 return. Similar lithologies and % as above.

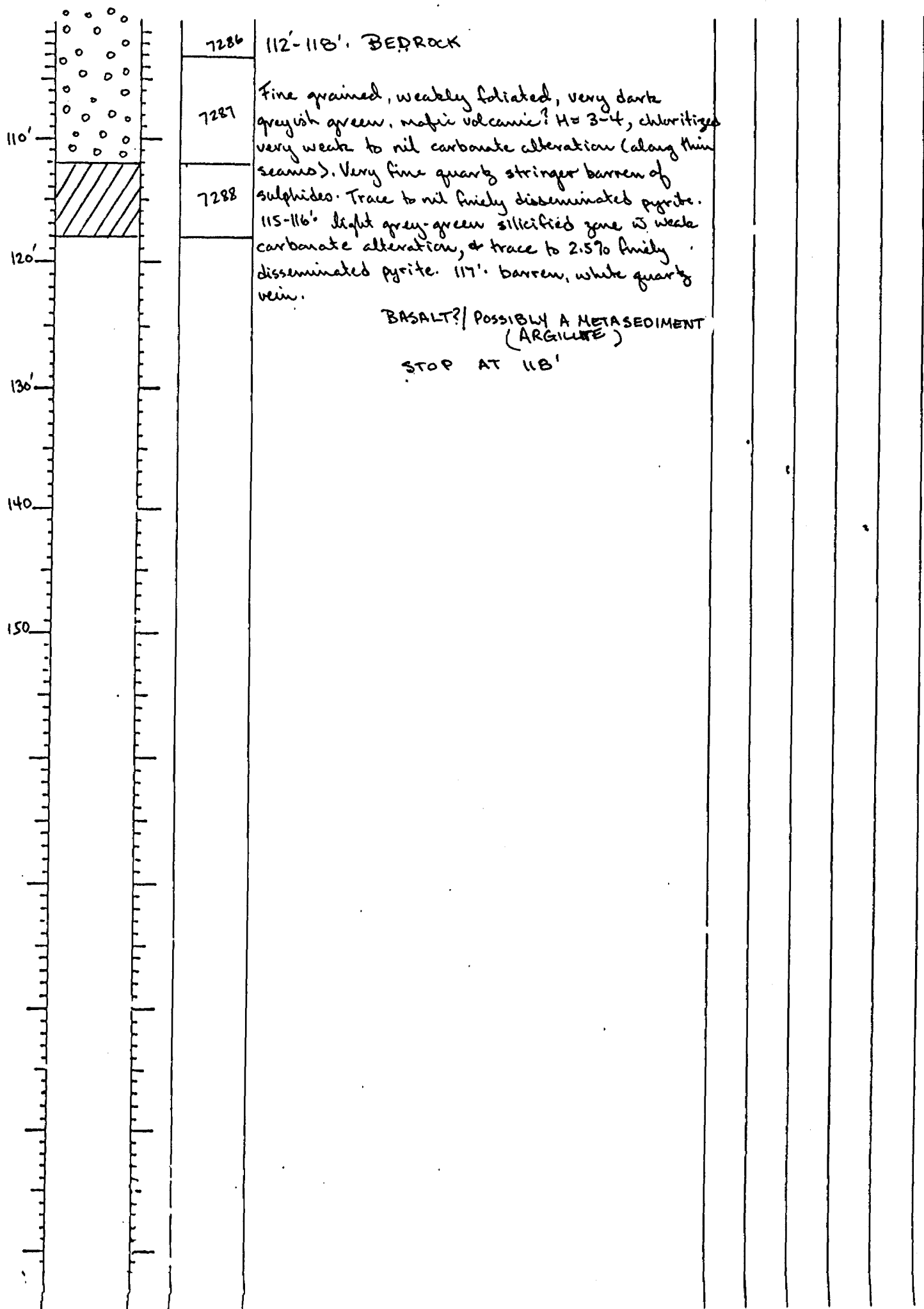
58.5'-65' TILL
 10-15% soft to hard, gritty, clay balls, 0.5-1.0 cm, grey, sandy to silty clay. Fine angular rock fragments within the clay balls. 45% granitic pebbles and granules. 35% intermediate to mafic 1.0-2.0 cm pebbles, subrounded to subangular (poor to moderate sphericity). 5-10% platy argillite clasts, rounded edges to poor sphericity. Several mafic armoured clasts.

65'-112' GRAVEL
 Abundant return to good penetration - less compact than overlying gravel horizon. Trace amts. of hard, gritty, clay balls from 65-68'. 55% granitic granules to cobble-sized clasts. 35-40% intermediate-mafic pebbles - dominantly 0.5-1.0 cm rounded (poor-moderate sphericity) light to dark green colored. 5% assorted material includes limestone, epidote, + argillite. Medium to coarse sand -10 return to an 85/15 - 90/10: matrix-clast ratio. At 92' 90/10: matrix-clast ratio. 102'-112': dominantly mafic + argillitic material to 25-30% granitic fine granules (0.25 cm). Argillites + mafic pebbles are dark grey-green to black, rounded, platy + elongated clasts to very poor to moderate sphericity. 1.0-2.0 cm dominant clast size. Dark grey, medium to coarse sand to 85/15: matrix-clast ratio.

OVERBURDEN EXPLORATION SERVICES LTD
 REVERSE CIRCULATION DRILL HOLE LOG

DATE 02 02 19 87 HOLE NO. SRE-87-23 LOCATION L4E; Stn. 5+465
 GEOLOGIST AKK DRILLER DB BIT NO./FTG. 1000 SS1
 SHIFT HOURS 7 TO 5 MOVE TO HOLE _____ BIT NO./FTG. _____
 DRILLING _____
 MECHANICAL DOWN TIME _____
 TOTAL HOURS 10 DRILLING PROBLEMS _____
 OTHER _____
 MOVE TO NEXT HOLE _____

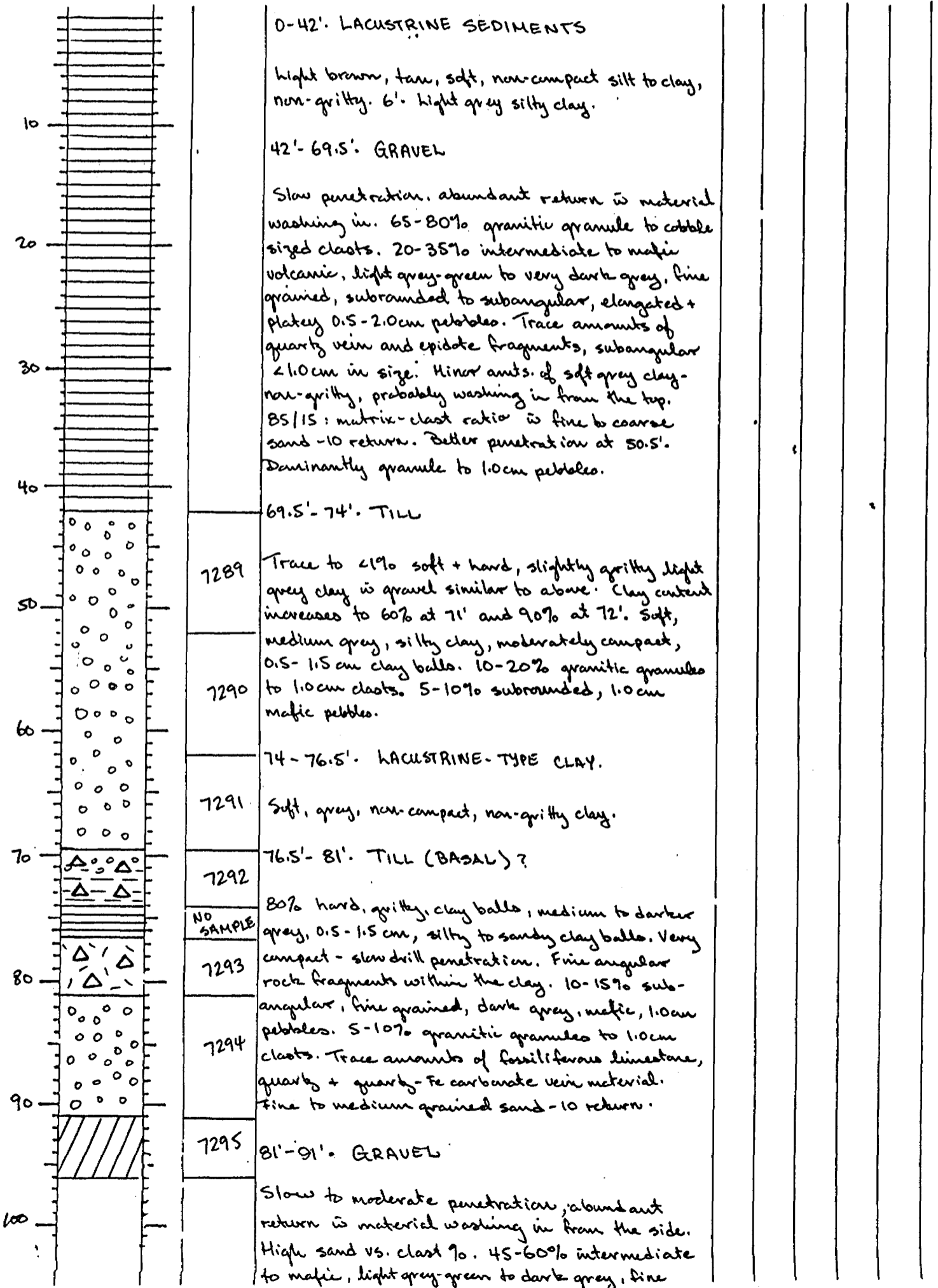
Depth | Graphic | Int | Sample | Descriptive Log | | | | | |
 (m) | Log | | No. | | | | | | |



OVERBURDEN EXPLORATION SERVICES LTD
 REVERSE CIRCULATION DRILL HOLE LOG

DATE 02 03 19 87 HOLE NO. SRE-87-24 LOCATION L6E; 5+02S
 GEOLOGIST AJK DRILLER DB BIT NO./FTG. 1000638 New Bit
 SHIFT HOURS 7 TO 5 MOVE TO HOLE 4:30-4:45 (02-02-87) BIT NO./FTG. 96'
 DRILLING 7:30-9:15 | 9:15-9:30 Pull Rods
 MECHANICAL DOWN TIME _____
 TOTAL HOURS 10 DRILLING PROBLEMS _____
 OTHER _____
 MOVE TO NEXT HOLE 9:30-10:00

Depth | Graphic | Int | Sample | Descriptive Log | | | | | |
 (m) | Log | | No. | | | | | | |



OVERBURDEN EXPLORATION SERVICES LTD
 REVERSE CIRCULATION DRILL HOLE LOG

DATE 02 03 1987 HOLE NO. SRE-87-24 LOCATION L6E; Stn S+02S
 GEOLOGIST ASK DRILLER DB BIT NO./FTG. J00063B
 SHIFT HOURS 7 TO 5 MOVE TO HOLE _____ BIT NO./FTG. _____
 DRILLING _____
 MECHANICAL DOWN TIME _____
 TOTAL HOURS 10 DRILLING PROBLEMS _____
 OTHER _____
 MOVE TO NEXT HOLE _____

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 Depth | Graphic | Int | Sample | Descriptive Log | | | | | |
 (m) | Log | | No. | | | | | | |
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81-91' GRAVEL (continued.....)

grained, 0.5-1.0 cm pebbles. 10% argillitic clasts, 0.5-1.0 cm, platy, rounded to subrounded edges. 35-45% granitic granules to pebbles. 1-2% barren, white, quartz vein material + trace cream-tan colored, well rounded limestone clasts. Medium to coarse sand - 10 return is a 90/10 matrix-clast matrix. At 89.5' increase in mafic and argillitic material to 75%, subangular to angular pebbles, 0.5-2.0 cm in size. 25% granitic and assorted clasts.

91'-96' BEDROCK

Fine grained, dark grey-green to dark grey foliated, metasediment (argillite) or possibly a mafic volcanic? H=2.5-3, minor qtz stringers parallel to foliation is thin pyritiferous stringers along the breaking planes. Minor argillitic clay seams.

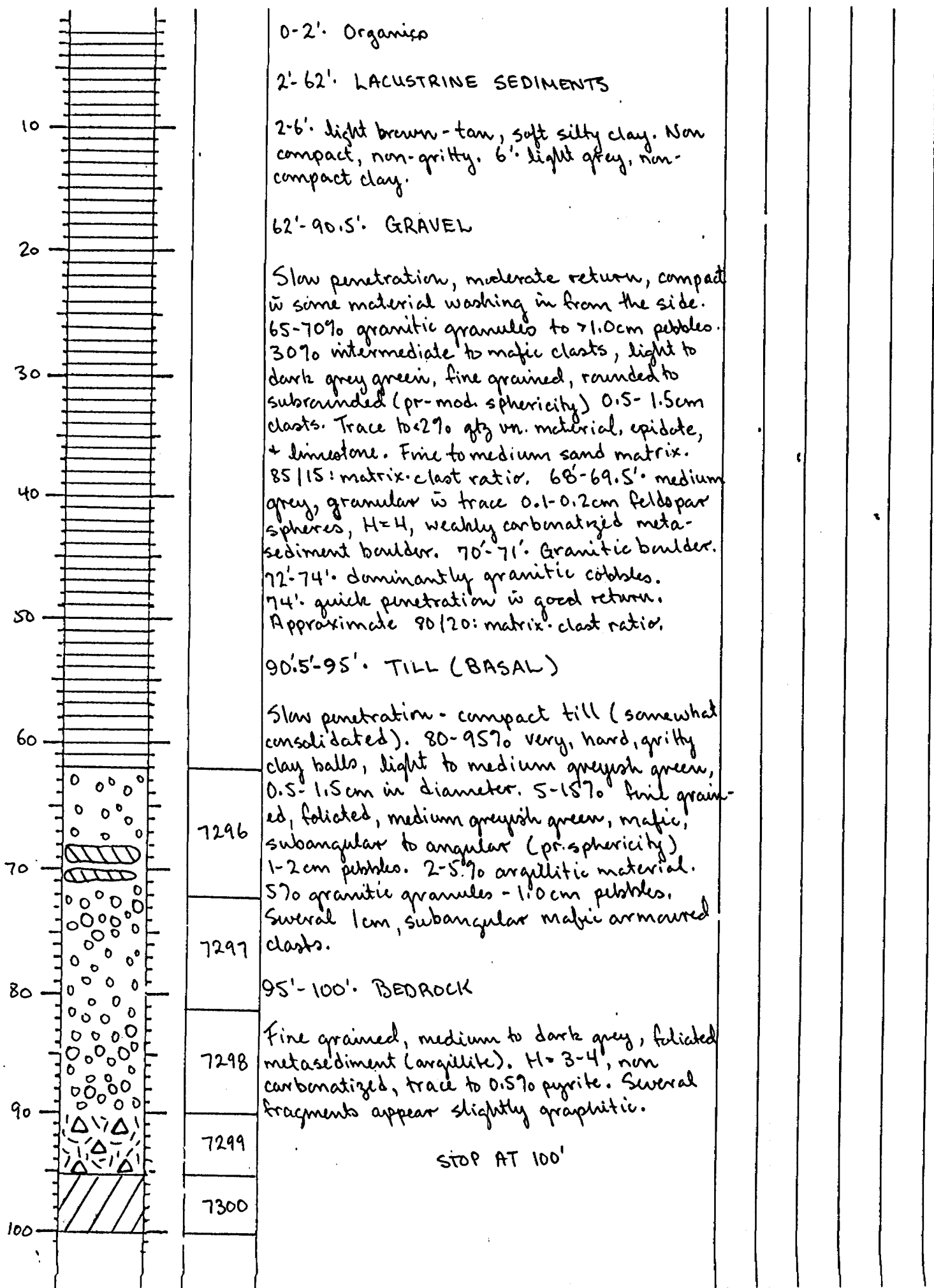
ARGILLITE / BASALT?

STOP AT 96'.

**OVERBURDEN EXPLORATION SERVICES LTD
REVERSE CIRCULATION DRILL HOLE LOG**

DATE <u>02 03 1987</u>	HOLE NO. <u>SRE-87-25</u>	LOCATION <u>L8E; Str. 5+03S</u>
SHIFT HOURS <u>7a TO 5p</u>	GEOLOGIST <u>AVK</u>	DRILLER <u>DB</u>
TOTAL HOURS <u>10</u>	MOVE TO HOLE <u>9:30 - 10:00</u>	BIT NO./FTG. <u>1000638</u>
	DRILLING <u>10:00 - 12:00 / 12:00 - 12:15</u>	Pull Rods. <u>96 + 100 = 196</u>
	MECHANICAL DOWN TIME _____	
	DRILLING PROBLEMS _____	
	OTHER _____	
	MOVE TO NEXT HOLE <u>12:15 - 12:30</u>	

Depth (m)	Graphic Log	Int'l Sample No.	Descriptive Log
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OVERBURDEN EXPLORATION SERVICES LTD
 REVERSE CIRCULATION DRILL HOLE LOG

DATE 02 03 1987 HOLE NO. SRE-87-26 LOCATION W10E: Stn 5+035
 GEOLOGIST AKK DRILLER DB BIT NO./FTG. 100063B
 SHIFT HOURS 7a TO 5p MOVE TO HOLE 12:15-12:30 BIT NO./FTG. 196'
 DRILLING 12:30-4:30 Pull Rods (02-04-87)
 MECHANICAL DOWN TIME _____
 TOTAL HOURS 10 DRILLING PROBLEMS _____
 OTHER _____
 MOVE TO NEXT HOLE _____

Depth (m)	Graphic Log	Int. Sample No.	Descriptive Log
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			0-1' Organics
			1'-68' LACUSTRINE SEDIMENTS.
10			1'-8' light brown, oxidized, soft, non-compact silty clay, non-gritty. 8' soft, non-compact grey clay.
20			68'-76' GRAVEL
30			Moderate penetration w abundant return. 65-70% granitic granules - 1.0cm pebbles. 30% fine grained, medium to dark grey green rounded to subangular (pr. sphericity) 1.0cm clasts. <5% assorted clasts; includes quartz, diabase, epidote, trace limestone + cherty material. 75/25: matrix-clast ratio. Fine to coarse sand matrix.
40			76'-91.5' TILL (CLAY-RICH / BASAL)?
50			Slow to moderate penetration w moderate return. 85-95% soft-hard, gritty, clay balls. 0.25-1.0 cm in diameter. light to medium grey colored, moderately compact. 5-10% sub-rounded to angular, fine grained, 1.0cm mafic pebbles including 1-2% argillitic fragments. 5% granitic granules to 1.0cm clasts. Fine angular rock fragments within the clay + 1-2% subangular 0.5-1.0cm mafic armoured clasts. Very fine to coarse sand -10 return. 87' more compact clay, medium greenish grey, consolidated, w 95% clay content + 5% mafic volcanic + argillitic material - resembles a Basal Till.
70		7301	91.5'-98' LACUSTRINE-TYPE CLAY
80		7302	Medium to dark grey, moderately compact, non-gritty clay, void of clastic material.
90		7303	98'-103' TILL (BASAL / LODGEMENT?)
		7304	90% moderately compact hard, gritty clay balls, medium greenish grey, 0.5-1.0cm in diameter. Dominantly subrounded to subangular 0.5-2.0cm fine grained mafic volcanic + angular argillitic clasts. <3% granitic granules to <1.0cm pebbles. Trace 1.0cm, angular mafic armoured clasts.
		No SAMPLE	
100		7305	
			-> 103'

OVERBURDEN EXPLORATION SERVICES LTD
REVERSE CIRCULATION DRILL HOLE LOG

DATE 02 04 19 87

HOLE NO. SRE-87-27 LOCATION L12E: Str. 5+025

SHIFT HOURS

GEOLOGIST AJK DRILLER DB BIT NO./FTG. 1000566 - New Bit - 95'

7a TO 5p

MOVE TO HOLE 11:15-11:30 BIT NO./FTG. 2068719 - New Bit

TOTAL HOURS

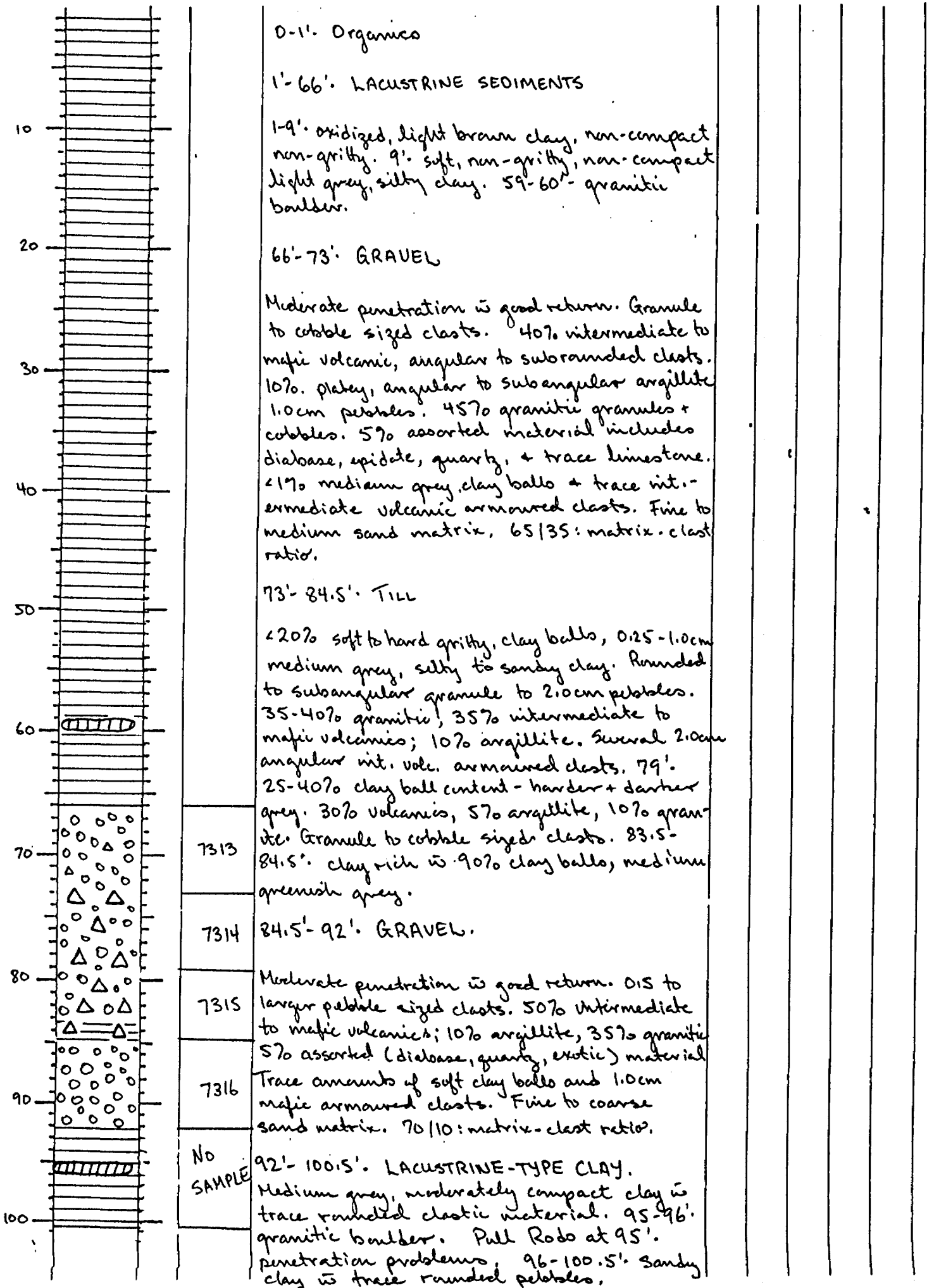
DRILLING Pull Rods 7:45-8:15 / 11:30-1:30 Drill / 1:30-5:00 Pull rods + Redrill / MECHANICAL DOWN TIME 8:15-11:15 - skidder will not start 5:00-5:15 - Pull rods.

10

DRILLING PROBLEMS Penetration problems in granitic boulder - Pull rods, change bit + redrill.

OTHER
MOVE TO NEXT HOLE

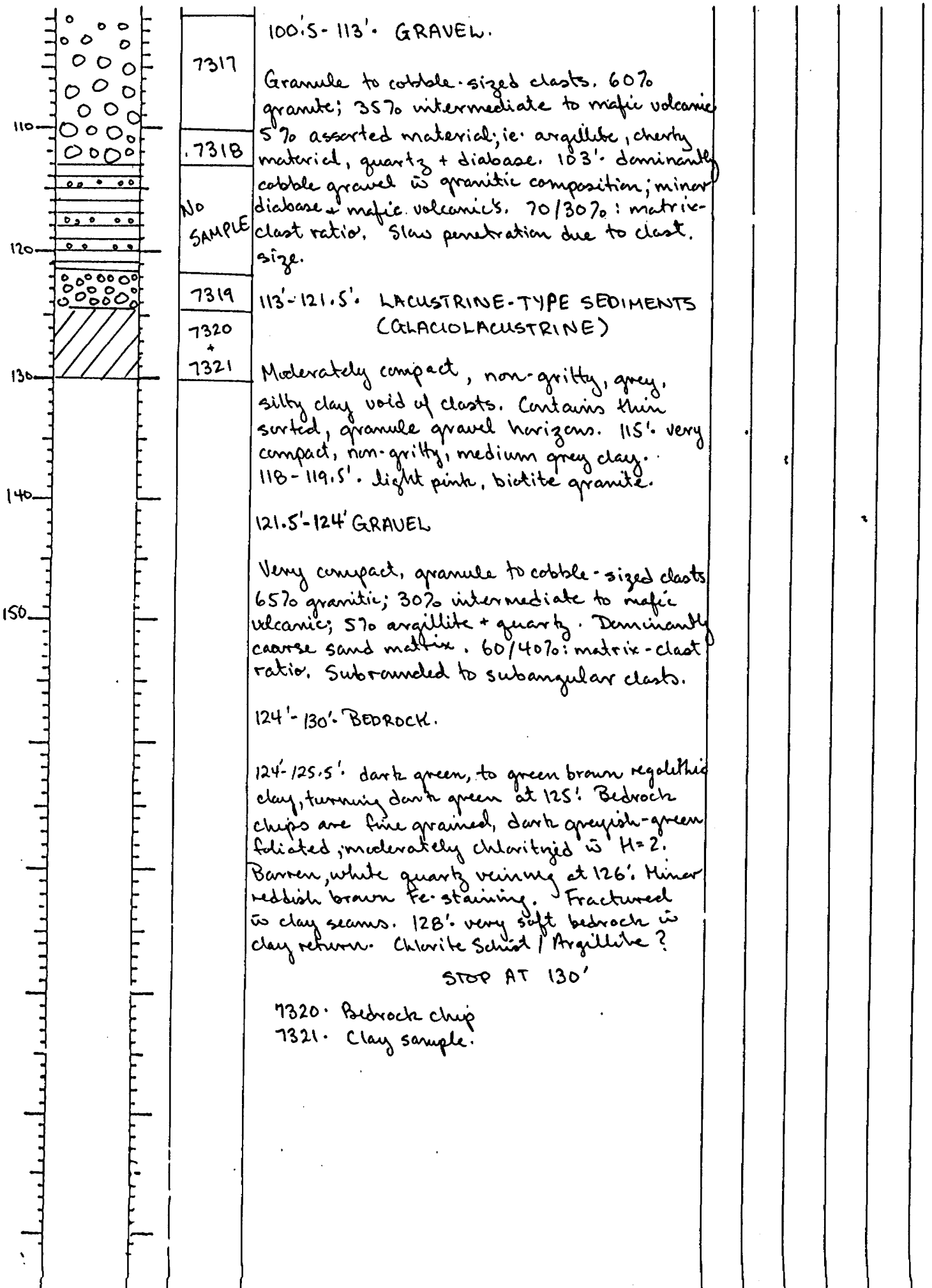
Depth (m)	Graphic Log	Int Sample No.	Descriptive Log
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OVERBURDEN EXPLORATION SERVICES LT
REVERSE CIRCULATION DRILL HOLE LOG

DATE 02 04 19 87 HOLE NO. SRE-87-27 LOCATION L12E; Sta S+02S
 GEOLOGIST AJK DRILLER DB BIT NO./FTG. F0005B-95'
 SHIFT HOURS MOVE TO HOLE _____ BIT NO./FTG. CB68719-130'
 7a TO 5p DRILLING _____
 TOTAL HOURS MECHANICAL DOWN TIME _____
 10 DRILLING PROBLEMS _____
 OTHER _____
 MOVE TO NEXT HOLE _____

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 Depth | Graphic | Int | Sample | Descriptive Log | | | | | |
 (m) | Log | | No. | | | | | | | |
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OVERBURDEN EXPLORATION SERVICES LTD
REVERSE CIRCULATION DRILL HOLE LOG

DATE 02 05 87 HOLE NO. SRE-87-28 LOCATION L14E; sm 4+755
 GEOLOGIST AJK DRILLER DB BIT NO./FTG. CB68719
 SHIFT HOURS 7a to 5p MOVE TO HOLE 7:30-7:45 BIT NO./FTG. 130'+110
 DRILLING 7:45-10:15 / 10:15-10:30 Pull Rods
 MECHANICAL DOWN TIME _____
 TOTAL HOURS 10 DRILLING PROBLEMS _____
 OTHER _____
 MOVE TO NEXT HOLE 10:30-10:45

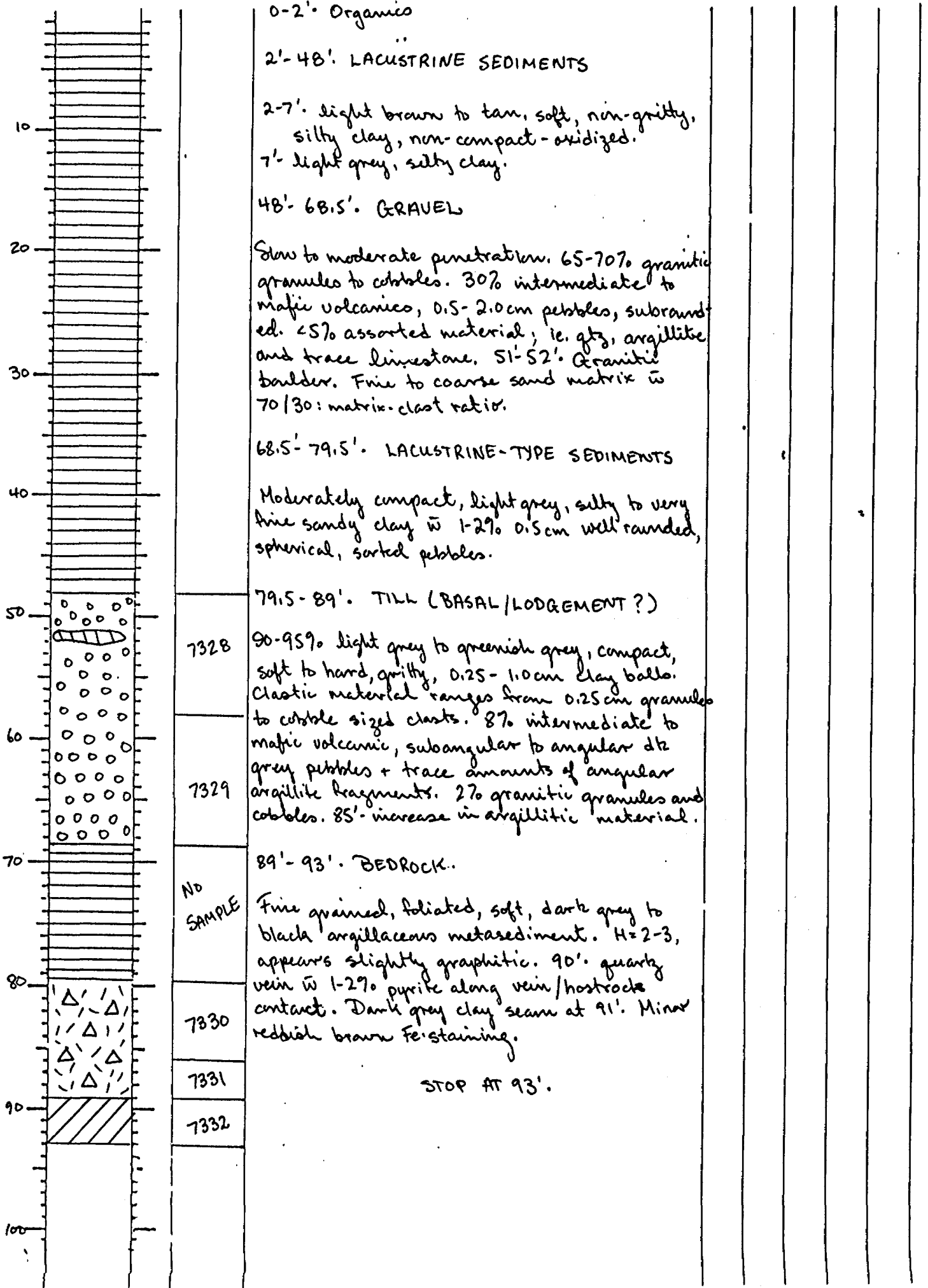
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 Depth | Graphic | Int | Sample | Descriptive Log | | | | | |
 (m) | Log | | No. | | | | | | |
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	<p>0-4'. Organics</p> <p>4'-48'. LACUSTRINE SEDIMENTS</p> <p>light to medium grey, soft, non-compact silty clay.</p> <p>48'-66'. GRAVEL.</p> <p>Good penetration w moderate return. Fine gravel ranging from granule to 1.0 cm pebbles. 60-65% granitic; 30% subang. - subrounded intermediate to mafic volcanic < 5% assorted material; quartz, limestone, argillite and trace epidote. 75/25% matrix clast ratio. Dominantly fine to medium sand matrix.</p> <p>66'-75.5'. LACUSTRINE-TYPE SEDIMENTS (GLACIOLACUSTRINE?)</p> <p>Medium grey, moderately compact, silty to very fine sandy clay w trace amounts of sorted, well-rounded 0.5-1.0 cm granitic mafic + limestone pebbles.</p> <p>75.5'-93.5'. TILL (BASAL/LODGEEMENT?)</p> <p>75.5'-77'. Dark grey to black, granular mafic boulder.</p> <p>90% soft, gritty, medium grey to green-grey silty to sandy clay balls. Moderately compact. 7% subrounded to subangular < 1.0 cm mafic clasts. 3% subrounded granitic pebbles. Trace to 0.5% mafic armored clasts. Fine to medium sand matrix. 84' dominantly mafic volcanic and argillitic material w several granitic cobbles.</p> <p>93.5'-105'. LACUSTRINE-TYPE SEDIMENTS (GLACIOLACUSTRINE)</p> <p>Medium to dark grey clay - moderately compact, slightly gritty, sandy to silty clay. Void of clastic material.</p>	<p>10</p> <p>20</p> <p>30</p> <p>40</p> <p>50</p> <p>60</p> <p>70</p> <p>80</p> <p>90</p> <p>100</p>	<p>7322</p> <p>7323</p> <p>NO SAMPLE</p> <p>7324</p> <p>7325</p> <p>7326</p> <p>NO SAMPLE</p>
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OVERBURDEN EXPLORATION SERVICES LT
 REVERSE CIRCULATION DRILL HOLE LOG

DATE 02 05 19 87 HOLE NO. SRE-87-29 LOCATION L7E; Str. 4+7
 GEOLOGIST ASK DRILLER DB BIT NO./FTG. CB68719'
 SHIFT HOURS 7a TO 5p MOVE TO HOLE 10:30 / 10:45 BIT NO./FTG. 240'+93'
 DRILLING 10:45-11:00 / 11:00-11:15 Pull Rods
 MECHANICAL DOWN TIME _____
 TOTAL HOURS 10 DRILLING PROBLEMS _____
 OTHER _____
 MOVE TO NEXT HOLE 11:15-11:30

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 Depth | Graphic | Int | Sample | Descriptive Log | | | | | |
 (m) | Log | | No. | | | | | | |
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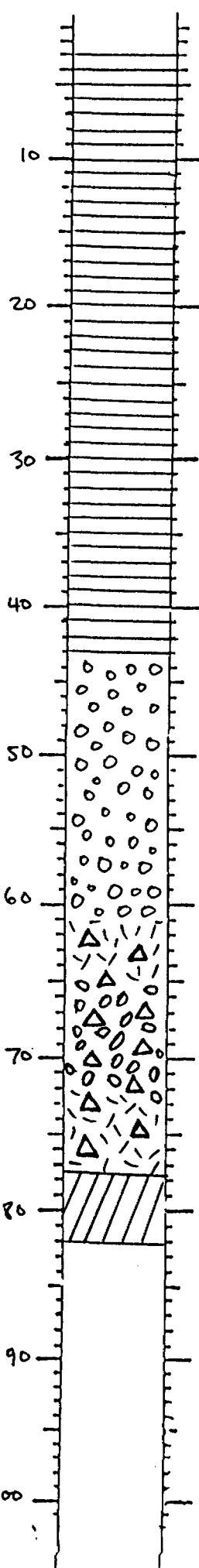


OVERBURDEN EXPLORATION SERVICES LTD
 REVERSE CIRCULATION DRILL HOLE LOG

Page 1 of 1

DATE 02 05 1987 HOLE NO. SRE-87-30 LOCATION 9m. east of L19E; Sta 4+525
 GEOLOGIST AKK DRILLER DB BIT NO./FTG. CB68115 New Bit
 SHIFT HOURS MOVE TO HOLE 1:15 - 1:30 BIT NO./FTG. 0182'
7a TO 5p DRILLING 1:30 - 3:15 / 3:15 - 3:30 Pull Rods
 MECHANICAL DOWN TIME _____
 TOTAL HOURS DRILLING PROBLEMS _____
10 OTHER _____
 MOVE TO NEXT HOLE 3:30 - 3:45

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 Depth | Graphic | Int | Sample | Descriptive Log | | | | | |
 (m) | Log | | No. | | | | | | | |
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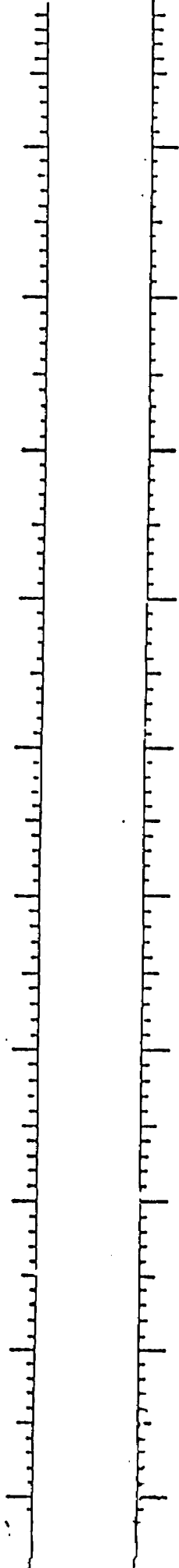
0-3' Organics
 3'-43' LACUSTRINE SEDIMENTS
 3-14' light brown, soft, non-compact, oxidized silty clay. 14' light grey silty clay.
 43'-61' GRAVEL
 Moderate penetration w abundant returns. Trace amts. of light grey, soft, clay balls. 60% granitic material; 35% intermediate to mafic volcanics, subrounded to rounded, 1.0cm pebbles; 5% assorted clasts; i.e. diabase, argillite, limestone + quartz. 70/30:matrix clast ratio. Dominantly medium to coarse sand matrix w granule to cobble sized clasts. 57' trace amts. of light grey clay balls.
 61'-77.5' TILL (LODGE/MENT/BASAL?)
 80-90% soft to hard gritty clay balls, light to medium grey colored, gritty, 0.25-1.0cm in diameter. 5-15% intermediate + mafic volcanics, subang. to angular, 1.0cm - 1.5cm fragments, (poor sphericity). 5% granitic granules + cobbles. Trace angular argillite and rounded limestone. 1-2% mafic wedge-shaped and armoured clasts.
 65' clay ball content down to 57% → 45% mafic, 10% argillite, 45% granitic material.
 72' 90% silty to sandy, medium grey, gritty, moderately compact clay balls. 3% mafic volcanic; 5% argillite; 2% granitic material. 0.5cm pebbles to cobble sized clasts, angular to subangular w poor sphericity.
 77.5'-82' BEDROCK
 77.5'-78' Dark greenish brown regolithic clay skin. 78' fine grained, dark grey to black argillaceous meta-sediment w abundant reddish brown Fe staining. H=2. Weakly magnetic w <5% fine magnetite. Fe-Bearing. Argillite / Argillaceous Greywacke
 STOP AT 82'.

7333
 7334
 7335
 7336
 7337
 7338

OVERBURDEN EXPLORATION SERVICES LTD
 REVERSE CIRCULATION DRILL HOLE LOG

DATE 02 05 1987 HOLE NO. SRE-87-31 LOCATION L21E; Str 4+4B5
 GEOLOGIST AKK DRILLER DB BIT NO./FTG. CB6871S
 SHIFT HOURS 7a TO 5p MOVE TO HOLE _____ BIT NO./FTG. 82+98' = 180'
 DRILLING _____
 MECHANICAL DOWN TIME _____
 TOTAL HOURS 10 DRILLING PROBLEMS _____
 OTHER _____
 MOVE TO NEXT HOLE _____

Depth (m)	Graphic Log	Int. Sample No.	Descriptive Log
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81'-84'. LACUSTRINE-TYPE SEDIMENTS
 (GLACIO LACUSTRINE?)
 Medium grey, moderately compact silty to sandy clay. Trace amounts of red clastic material.

84'-89'. TILL (BASAL / LODGEMENT?)
 90% soft to hard, medium grey; sandy to silty clay balls. 7% rounded to subangular mafic volcanic/metasediment 1.0cm pebbles. 3% rounded, 0.5cm granitic material. Fine to medium sand matrix.

89'-94'. LACUSTRINE-TYPE CLAY
 (GLACIO LACUSTRINE?)
 Medium grey, moderately compact, non gritty, sandy clay. Trace granules in thin gravel interbeds.

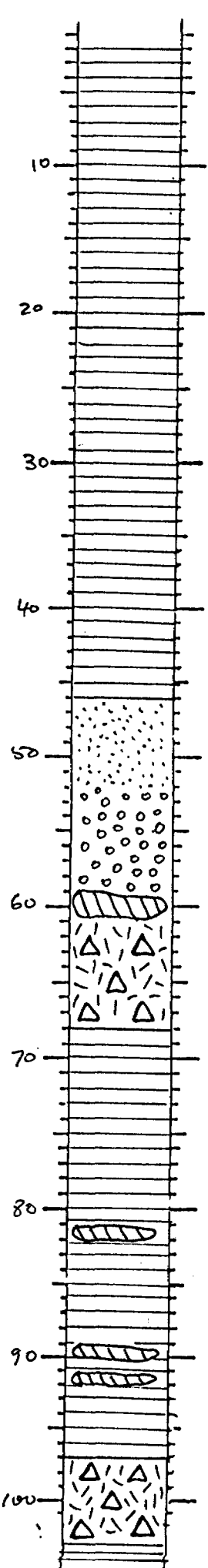
94'-98'. BEDROCK.
 Fine grained, dark grey to black, thinly bedded argillaceous metasediment. H=3. Trace finely disseminated, cubic pyrite. Minor quartz stringers barren of sulphide mineralization.

STOP AT 98'

OVERBURDEN EXPLORATION SERVICES LTD
 REVERSE CIRCULATION DRILL HOLE LOG

DATE 02 06 1987 HOLE NO. SRE-87-32 LOCATION L23E; Sta. 4+485
 GEOLOGIST AJK DRILLER DB BIT NO./FTG. CB8715
 SHIFT HOURS 7a TO 5p MOVE TO HOLE 10:45-12:00 BIT NO./FTG. 180'+112'
 DRILLING 12:00-2:30 / 2:30-2:45 Pull Rods
 MECHANICAL DOWN TIME 3:00-5:00 Down time due to skidder problems
 TOTAL HOURS 10 DRILLING PROBLEMS
 OTHER Broken U-joint + drive shaft on skidder - Use labelled D-6 to move.
 MOVE TO NEXT HOLE 9:00-9:15

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 Depth | Graphic | Int | Sample | Descriptive Log | | | | | |
 (m) | Log | | No. | | | | | | |
 =====



0-2'. Organics

2'-52'. LACUSTRINE SEDIMENTS

2'-6'. light brown, oxidized clay - non-compact.
 6'. light grey, soft, silty clay.
 22'-23'. sorted, granule-type gravel, dominantly granitic in composition.
 46'-52'. very fine sand to silt in suspension.

52'-61'. GRAVEL

Moderate to good penetration to abundant return. 55% granitic granules to several cobbles. 45% - 40% rounded to subangular, 1.0-2.0 cm mafic pebbles. <5% assorted quartz, argillite, limestone, biotite schist & ferruginous sediment clasts - rounded to sub-rounded. Medium to coarse sand to a 75/25: matrix/clast ratio. 59-61'. granitic boulder.

61'-68'. TILL (BASAL LODGEMENT?)

20% clay ball content from 61'-65' increasing to 85% at 65'. Medium grey, sandy to silty clay balls, 0.25-1.0 cm in diameter. 10-55% subangular (poor sphericity), 1.0 cm mafic pebbles. 5-25% subrounded (spherical) 0.5-1.0 cm granitic clasts. <1% mafic + granitic armoured clasts.

7348

68'-97'. LACUSTRINE-TYPE SEDIMENTS (GLACIOLACUSTRINE)

Non to moderately compact, medium grey, silty to slightly sandy clay. Trace amts of <0.5 cm well rounded mafic + granitic pebbles. Thin very coarse sand to granule interbeds. 81'-82' + 89'-90'. granitic boulders
 91'-92'. light green, fine grained intermediate volcanic boulder.

No SAMPLE

97'-102'. TILL (BASAL LODGEMENT?)

80% soft to hard, gritty, clay balls, dark grey colored to fine rock fragments. Compact till. 7% intermediate to mafic, <1.0 cm, angular pebbles.
 10% platy, angular, argillite, 1-2.0 cm in size.
 3% granitic granules.
 100'. dominantly all argillitic clasts to dark grey clay balls.

7350

**OVERBURDEN EXPLORATION SERVICES LTD.
REVERSE CIRCULATION DRILL HOLE LOG**

DATE <u>02 06 1987</u>	HOLE NO. <u>SRE-87-32</u>	LOCATION <u>L23E; Sta. 4+485</u>
SHIFT HOURS <u>7 TO 5</u>	GEOLOGIST <u>ASK</u>	DRILLER <u>DB</u> BIT NO./FTG. <u>CB6R715</u>
TOTAL HOURS <u>10</u>	MOVE TO HOLE _____	BIT NO./FTG. _____
	DRILLING _____	
	MECHANICAL DOWN TIME _____	
	DRILLING PROBLEMS _____	
	OTHER _____	
	MOVE TO NEXT HOLE _____	

Depth (m)	Graphic Log	Int'l No.	Sample No.	Descriptive Log
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110		7350		102'-105'. LACUSTRINE-TYPE SEDIMENTS (GLACIO LACUSTRINE?)
		No SAMPLE		
		7351		Moderately compact, light to medium grey sandy clay w trace clastic material.
		7352		
120				105'-106'. foliated mafic volcanic/metased. boulder w quartz veining.
				106'-107'. light grey, soft, non-gritty clay.
130				107'-107.5'. fine grained, dark grey argillaceous metasediment w no visible sulphides. Thin grey clay followed by bedrock.
				108'-112'. BEDROCK
				Fine grained, foliated, dark grey to dark grey-green mafic volcanic or argillaceous metasediment. Trace pyrite, minor quartz hair-like stringers. Possibly an Argillite
				STOP AT 112'
140				
150				

OVERBURDEN EXPLORATION SERVICES LTD
 REVERSE CIRCULATION DRILL HOLE LOG

DATE 02 07 1987

HOLE NO. SRE-87-33 LOCATION L2SE; Str. 4+285

SHIFT HOURS

GEOLOGIST ASK DRILLER DB BIT NO./FTG. I000567 - New Bit

7a TO 5p

MOVE TO HOLE 9:00 - 9:15 BIT NO./FTG. 0+70' = 70'

TOTAL HOURS

DRILLING 9:15 - 10:15 | 10:15 - 10:30 Pull Rods

10

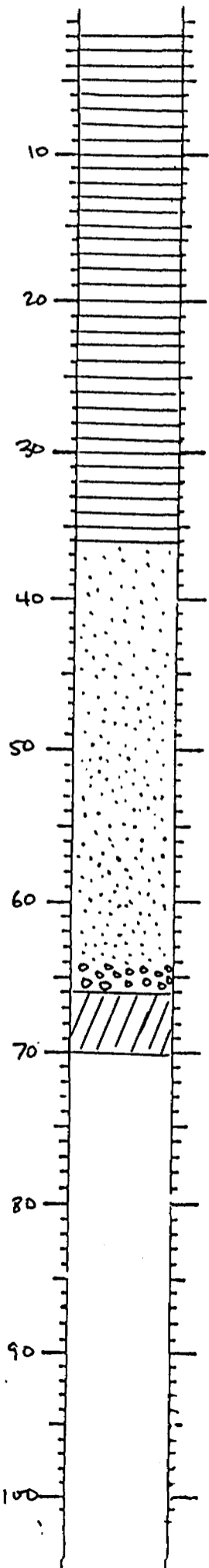
MECHANICAL DOWN TIME _____

DRILLING PROBLEMS _____

OTHER 8:30 - 9:00 wait for D-6

MOVE TO NEXT HOLE 10:30 - 10:45

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 Depth | Graphic | Int | Sample | Descriptive Log | | | | | |
 (m) | Log | | No. | | | | | | | |
 =====



0-2' - Organics

2'-64'. LACUSTRINE SEDIMENTS

2-8'. light brown, silty oxidized clay grading to a light grey, non-compact silty clay.

28'. fine silt in suspension grading to a very fine sand at 36', light grey-brown colored.

64'-66'. FINE GRANULE GRAVEL

Quick penetration to abundant return.

Dominantly granule to 1.5cm pebble-sized clasts. 45-50% granitic material. 45% int.-mafic volcanic, rounded to subrounded clasts. 5% platy argillite, 1.5cm pebbles. Fine to medium sand matrix. 75/25: matrix-clast ratio.

66'-70'. BEDROCK

Dark grey, fine grained, platy argillaceous metasediment. Fine grained. 68'. quartz veining to minor chloritic inclusions, barren of visible sulphide mineralization. Chloritized at 69'. Argillite / Argillaceous Metasediment.

STOP AT 70'.

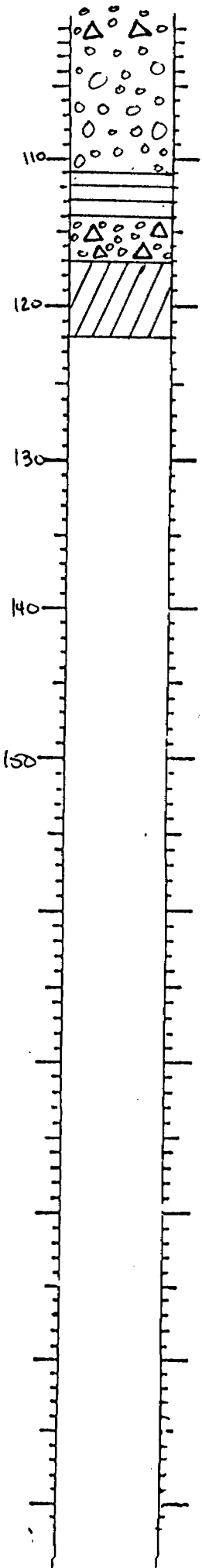
7353

7354

OVERBURDEN EXPLORATION SERVICES LTD
 REVERSE CIRCULATION DRILL HOLE LOG

DATE 02 07 1987 HOLE NO. SRE-87-34 LOCATION 3m west of L27E; Sbn. 4+27S
 GEOLOGIST ASK DRILLER DB BIT NO./FTG. T00087
 SHIFT HOURS 7a TO 5p MOVE TO HOLE _____ BIT NO./FTG. _____
 DRILLING _____
 MECHANICAL DOWN TIME _____
 TOTAL HOURS 10 DRILLING PROBLEMS _____
 OTHER _____
 MOVE TO NEXT HOLE _____

Depth (m)	Graphic Log	Int'l Sample No.	Descriptive Log
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7365	102'-111'. GRAVEL
7366	Slow penetration to moderate returns. Tr. amounts of soft grey clay balls and mafic armoured clasts. Dominantly larger pebbles to cobble-sized clasts. 60% granitics. 35% intermediate to mafic pebbles.
NO SAMPLE	
7367	5% argillite, diabase, limestone, quartz material. 65/35: matrix-clast ratio. Fine to coarse sand matrix.
7368	
	111'-114'. LACUSTRINE-TYPE SEDIMENTS (GLACIO-LACUSTRINE?)
	Soft, light grey, silty, non-gritty clay.
	114'-117'. TILL
	10-20% soft, gritty clay balls, light to medium grey, silty, containing fine angular rock fragments. 55% intermediate to mafic angular to subrounded, 1.0cm to cobble-sized clasts. 25-30% granitic granules to cobbles. 5% angular argillite, quartz material + trace limestone. Trace subangular, 1.0cm mafic armoured clasts.
	117'-122'. BEDROCK
	Dark grey, fine grained, argillaceous metasediment. H=3, trace finely disseminated pyrite cubes. Minor reddish-brown Fe staining. (Argillite)
	STOP AT 122'

**OVERBURDEN EXPLORATION SERVICES LTD
REVERSE CIRCULATION DRILL HOLE LOG**

DATE 02 08 1987
SHIFT HOURS 7a TO 5p
TOTAL HOURS 10

HOLE NO. SRE-87-3S LOCATION L29E; Str 4+2SS
GEOLOGIST ASK DRILLER DB BIT NO./FTG. E000567
MOVE TO HOLE 411S-4:30 (02-07-87) BIT NO./FTG. _____
DRILLING 7:45-11:00 / 11:00-11:15 Pull Rods
MECHANICAL DOWN TIME _____
DRILLING PROBLEMS _____
OTHER _____
MOVE TO NEXT HOLE 11:15-11:30

Depth (m)	Graphic Log	Int'l Sample No.	Descriptive Log
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0-2'			0-2' Organics
2-4'			2-4' SAND - greyish brown to medium grey
4-95'		7369	4-95' GRAVEL
			Gravel sample washed up through hole - minor return from 4-14'. 20'. Abundant return w quick penetration. Fine granule gravel w clasts not exceeding 1.0cm. 75% granitic granules to subrounded to rounded pebbles. 20-25% mafic 0.5-1.0cm rounded pebbles. 85/15: matrix-clast ratio. Fine to coarse sand matrix. Slower penetration at 23' w slight increase in clast size.
		7370	52'. 80/20: matrix-clast ratio, medium sand matrix. Well sorted gravel w uniform clast size + composition. <1.0cm in size, 75-80% granitic (20-25% mafic material.
		7371	74'. dominantly granitic cobbles 79-81'. granitic boulder.
		7372	85'. increase in mafic cobbles; 30% vs 70% granitic material. 90'. pebble to cobble gravel. 35% subrounded mafic pebbles + cobbles. 65% granitic's. 70/30: matrix-clast ratio.
		7373	95'-100'. BEDROCK.
		7374	Dark grey, fine grained, argillaceous meta-sediment. H=3, very weakly carbonitized in areas. V. weakly chloritized. Trace finely disseminated pyrite, + reddish brown Fe staining. Argillite / Argillaceous Greywacke.
		7375	STOP AT 100'
		7376	
		7377	
		7378	

OVERBURDEN EXPLORATION SERVICES LTD
REVERSE CIRCULATION DRILL HOLE LOG

DATE 02 08 19 87

HOLE NO. SRE-87-36 LOCATION L31E; (3m east of line) 4+285

SHIFT HOURS

GEOLOGIST ASK DRILLER DB BIT NO./FTG. _____

7a TO 5p

MOVE TO HOLE 11:15 - 11:30 BIT NO./FTG. _____

TOTAL HOURS

DRILLING 11:30 - 2:15 | 2:15 - 2:30 Pull Rods

10

MECHANICAL DOWN TIME _____

DRILLING PROBLEMS _____

OTHER _____

MOVE TO NEXT HOLE 2:30 - 2:45

Depth (m)	Graphic Log	Sample No.	Descriptive Log
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			0-3' Organics
			3'-19' LACUSTRINE SEDIMENTS
			Soft, non-compact, silty light brown oxidized clay grading to a light to medium grey clay at 8'.
			19'-81.5' GRAVEL w/ DIAMICTON INTERBEDS
10			
20		7379	Slow penetration w/ abundant return. Clastic material ranges from granule-sized clasts to boulders. 60% granitic, 40% intermediate to mafic volcanic, subrounded pebbles to cobbles. Trace limestone, quartz, & argillite
30		7380	20'-21.5' dark grey, fine grained mafic volcanic boulder. Fine to coarse sand matrix w/ an 85/15: matrix-clast ratio. 40.5' dacitic cobbles w/ 5-10% pyrite. Trace soft, gritty, clay balls at 47'+61'. Good penetration w/ abundant return - same lithologies as above at 61'.
40		7381	70'-72.5' <10% soft gritty clay balls, light grey, sandy clay, 0.25-0.5cm in diameter. 40% subangular to subrounded intermediate to mafic clasts. 50% granitic granules to cobbles. Trace amounts of 0.5cm, subrounded mafic armored clasts.
50		7382	72.5' 55% granitic; 45% mafic material. 80/20: matrix-clast ratio.
60		7383	Thin layer of glaciolacustrine clay? silty, non-gritty, light grey clay at 78'+80.5'.
70		7384	81.5'-86' BEDROCK
80		7385	
		7386	Dark grey to black, fine grained argillaceous meta-sediment (Argillite - Argillaceous Greywacke?). Trace amts. of finely disseminated pyrite. Thin clay seam, dark grey colored at 82.5'.
90			
100			

STOP AT 86'.

OVERBURDEN EXPLORATION SERVICES LTD
 REVERSE CIRCULATION DRILL HOLE LOG

DATE 02 08 19 87
 SHIFT HOURS 7a TO 5p
 TOTAL HOURS 10

HOLE NO. SRE-87-37 LOCATION L33E; Stn. 3+99.5
 GEOLOGIST ASK DRILLER DB BIT NO./FTG. CB68720
 MOVE TO HOLE 2:30 - 2:45 BIT NO./FTG. 86' + 114' = 200'
 DRILLING 2:45 - 5:00 | 5:00 - 5:30 Clean tanks
 MECHANICAL DOWN TIME _____
 DRILLING PROBLEMS _____
 OTHER _____
 MOVE TO NEXT HOLE 8:15 - 8:30

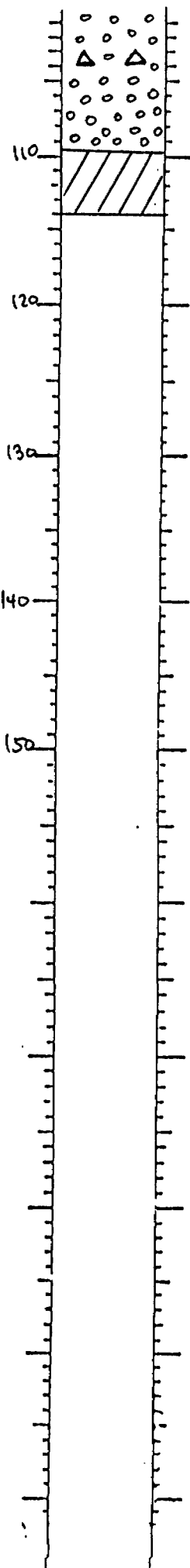
Depth (m)	Graphic Log	Int'l Sample No.	Descriptive Log
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			0'-2' Organics
			2'-9' LACUSTRINE SEDIMENTS light brown, soft, non-compact silty clay.
16			
		7381	9'-53' GRAVEL w DIAMICTON INTERBED
20		738	9-10' Granitic Boulder Good penetration w abundant return. Dominantly rounded to subrounded, granule to pebble-sized clasts. 70% granitic's. 25% intermediate to mafic 1.0-1.5 cm pebbles. 5% argillite, limestone, + trace quartzite. 80/20: matrix-clast ratio. Dominantly fine to medium sand matrix.
30			
		738	21.5'-24' 25% light grey, non-compact, non-gritty, fine silty clay. 45% granitic, 30% intermediate to mafic clasts.
40			26'-27' fine grained, medium green intermediate volcanic (Andesite) boulder.
		73	32' 65% granitic, 35% intermediate to mafic clasts, dominantly greater than 1.0cm in size. 44' granule to pebble sized material. 75% granitic / 25% mafic. 70/30: matrix clast ratio w medium sand matrix.
50			53'-100' SAND (GLACIOFLUVIAL?) Fine to very coarse sand w <5% sorted granules. Several granitic cobbles w minor mafic material. Very quick penetration.
60		No SAMPLE	68' dominantly very fine sand in suspension w <5% well rounded, spherical, <0.5 cm mafic + granitic clasts. 93' light grey silty clay to very fine sand w <5% fine angular, dark grey mafic material. 97-98' dark grey-green fine grained mafic volcanic boulder, weakly chloritized w no visible sulphides.
70			
80			100-109.5' FINE GRANULE-TYPE GRAVEL Well rounded to rounded, spherical 0.25-0.5 cm clasts. 55% granitic / 45% fine grained dark grey mafic material. Very fine sand to silty matrix.
90			103.5' soft, silty, light grey clay w <5% 0.5cm angular argillite fragments. 109.5' non gritty greyish green clay.
100		7391	

OVERBURDEN EXPLORATION SERVICES LTD
 REVERSE CIRCULATION DRILL HOLE LOG

DATE 02 08 19 87 HOLE NO. SRE-87-37 LOCATION L33E; Stn. 3+99 S
 GEOLOGIST AW DRILLER DB BIT NO./FTG. CB68720
 SHIFT HOURS 7a TO 5p MOVE TO HOLE _____ BIT NO./FTG. 86' + 114'
 DRILLING _____
 MECHANICAL DOWN TIME _____
 TOTAL HOURS 10 DRILLING PROBLEMS _____
 OTHER _____
 MOVE TO NEXT HOLE _____

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 Depth | Graphic | Int | Sample | Descriptive Log | | | | | |
 (m) | Log | | No. | | | | | | |
 =====



				109.5 - 114' • BEDROCK					
		7391		Dark grey, fine grained, foliated meta-sediment / mafic volcanic? H=5; no visible sulphides. Minor reddish brown Fe-staining					
		7392		Altered Argillaceous Greywacke?					
				STOP AT 114'					

OVERBURDEN EXPLORATION SERVICES LTD
REVERSE CIRCULATION DRILL HOLE LOG

Page 1 of 2

DATE 02 09 1987

HOLE NO. SRE-87-38 LOCATION L35E; Sta 3+995

GEOLOGIST AKK DRILLER DB BIT NO./FTG. CB68720

SHIFT HOURS

MOVE TO HOLE 8:15-8:30 BIT NO./FTG. 200' + 112' = 312'

7a TO 5p

DRILLING 8:45-10:30 10:30-10:45 Pull rods

TOTAL HOURS

MECHANICAL DOWN TIME _____

10

DRILLING PROBLEMS _____

OTHER 7:15-8:15 Pull rods from SRE-87-37 + change chuck

MOVE TO NEXT HOLE 10:45-11:00

=====
Depth | Graphic | Int | Sample | Descriptive Log | | | | | |
(m) | Log | | No. | | | | | | | |
=====

	<p>0-2'. Organics</p> <p>2'-17'. LACUSTRINE SEDIMENTS</p> <p>Soft, light to medium grey, silty clay, non-compact, non-gritty. Slightly oxidized from 2-5'.</p> <p>17'-35'. GRAVEL</p> <p>Moderate penetration, abundant return. 65% granitic granules to cobbles. 35% int.-intermediate to mafic, rounded to subrounded, >1.0cm pebbles. Trace well-rounded limestone</p> <p>7393</p> <p>Thin interbeds of medium grained sand, light greyish brown colored. 85/15 to 90/10: matrix-clast ratio is a medium to coarse sand matrix. 26' quick penetration is abundant return. Finer clast size, <2.0cm.</p> <p>7394</p> <p>No SAMPLE</p> <p>35'-46'. SAND (GLACIOFLUVIAL)</p> <p>Medium grained, grey sand is <5%, rounded spherical, sorted clasts <0.5cm in size.</p> <p>7395</p> <p>39'-41'. light grey, silty clay to very fine sand.</p> <p>46'-82'. GRAVEL</p> <p>Quick penetration is abundant return. Clasts range from granules to 2.0cm pebbles, rounded to subangular is good to moderate sphericity. 70% granitic / 30% intermediate to mafic material. Fine to medium sand matrix is an 85/15: matrix-clast ratio.</p> <p>7396</p> <p>68'. 85% granitic granules to pebbles 15% intermediate to mafic subrounded to subangular pebbles.</p> <p>7397</p> <p>82'-90'. SAND (GLACIOFLUVIAL)</p> <p>7398</p> <p>Fine to medium sand horizon is trace to <5% fine clastic material.</p> <p>No SAMPLE</p> <p>90'-107.5'. GRAVEL.</p> <p>7399</p> <p>Non-compact sandy gravel, rapid penetration is low +10 return. Subrounded to rounded granules to 2.0cm pebbles. 65% granitic, 35% mafic clasts. Trace soft silty clay balls. Interbeds of fine to medium grey sand. 90/10 matrix-clast ratio.</p> <p>102'. 5% increase in angular to subangular 1-2.0cm argillike fragments, 50% intermediate to mafic volcanic, 45% granitic material.</p>
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OVERBURDEN EXPLORATION SERVICES LTD
 REVERSE CIRCULATION DRILL HOLE LOG

DATE 02 09 87 HOLE NO. SRE-87-38 LOCATION L3SE; Stn 3+99.5
 GEOLOGIST ASL DRILLER DB BIT NO./FTG. CB68720
 SHIFT HOURS 7a TO 5p MOVE TO HOLE 8:15-8:30 BIT NO./FTG. _____
 DRILLING 8:45-10:30 | 10:30-10:45 Pull Rods
 MECHANICAL DOWN TIME _____
 TOTAL HOURS 10 DRILLING PROBLEMS _____
 OTHER _____
 MOVE TO NEXT HOLE 10:45 - 11:00

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 Depth | Graphic | Int | Sample | Descriptive Log | | | | | |
 (m) | Log | | No. | | | | | | | |
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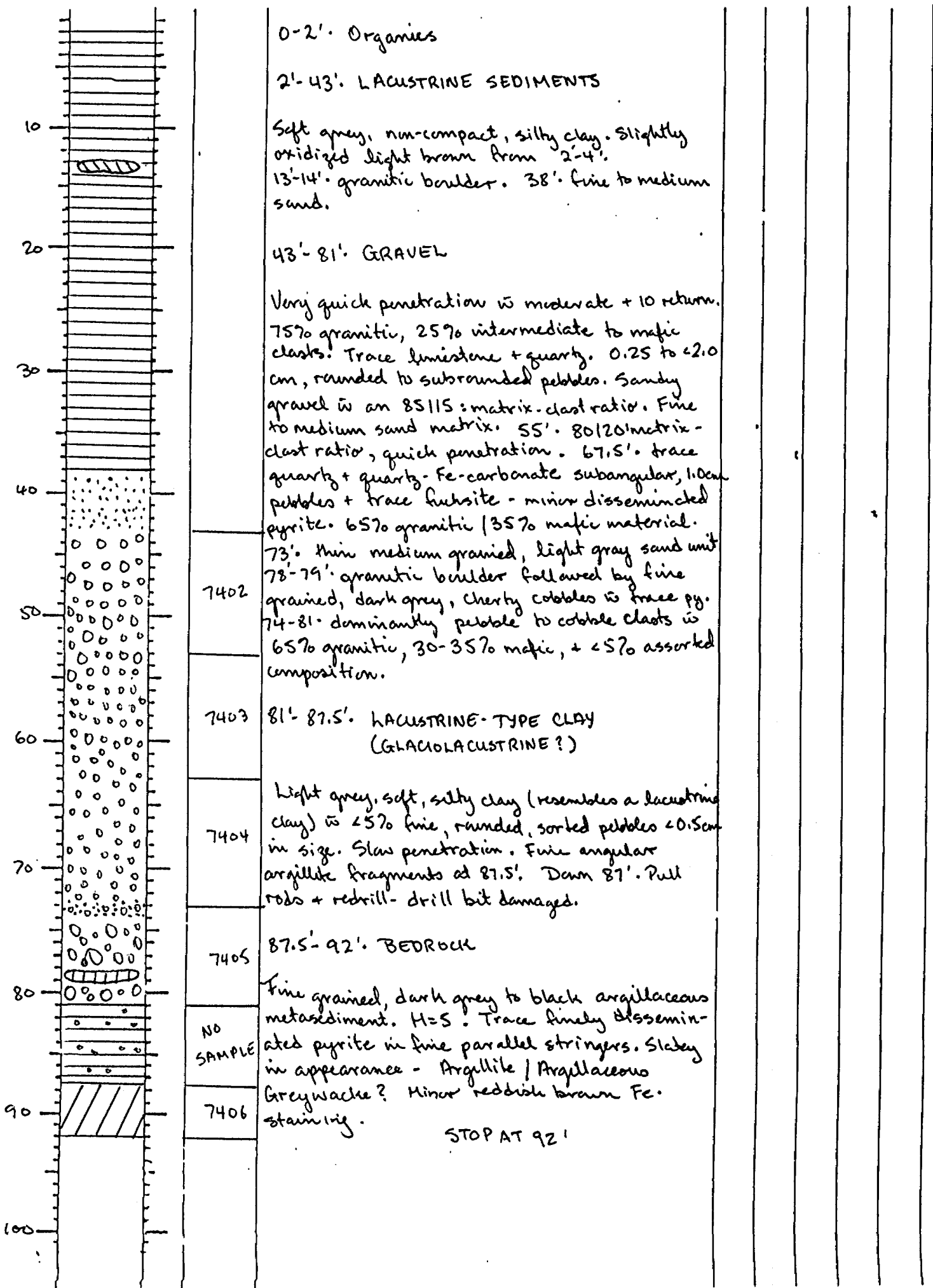
	<p>7399</p> <p>7400</p> <p>7401</p>	<p>106'-107': medium to dark green, fine grained intermediate to mafic volcanic boulder followed by 6" of medium green non-gritty regolithic clay.</p> <p>107.5' - 112'. BEDROCK.</p> <p>Fine grained intermediate volcanic, non-carbonatized, non-chloritized. H= 4.5-5. No visible sulphide mineralization. Medium greyish green colored.</p> <p style="text-align: center;">Andesite to Dacite</p> <p style="text-align: center;">STOP AT 112'.</p>							
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**OVERBURDEN EXPLORATION SERVICES LTD
REVERSE CIRCULATION DRILL HOLE LOG**

Page 1 of 1

DATE <u>02 01 1987</u>	HOLE NO. <u>SRE-87-39</u> LOCATION <u>L37E; Sta. 3+99.5</u>
SHIFT HOURS <u>7 TO 6</u>	GEOLOGIST <u>AJK</u> DRILLER <u>DB</u> BIT NO./FTG. <u>CB 68720 → 312+87' = 399'</u>
TOTAL HOURS <u>10</u>	MECHANICAL DOWN TIME _____
	DRILLING PROBLEMS _____
	OTHER _____
	MOVE TO NEXT HOLE <u>1:45 - 2:00</u>

Depth (m)	Graphic Log	Int. Sample No.	Descriptive Log
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OVERBURDEN EXPLORATION SERVICES LTD
 REVERSE CIRCULATION DRILL HOLE LOG

DATE 02 09 1987 HOLE NO. SRE-87-40 LOCATION L39E; stn 3+265
 GEOLOGIST ASK DRILLER DB BIT NO./FTG. I000555 - New Bit
 SHIFT HOURS 7a TO 5p MOVE TO HOLE 1145 - 2:00 BIT NO./FTG. 0+92'
 DRILLING 2:00 - 4:00 | 4:00 - 4:15 Pull Rods
 MECHANICAL DOWN TIME _____
 TOTAL HOURS 10 DRILLING PROBLEMS _____
 OTHER 4:15 - 5:00 clean tank + maintenance.
 MOVE TO NEXT HOLE _____

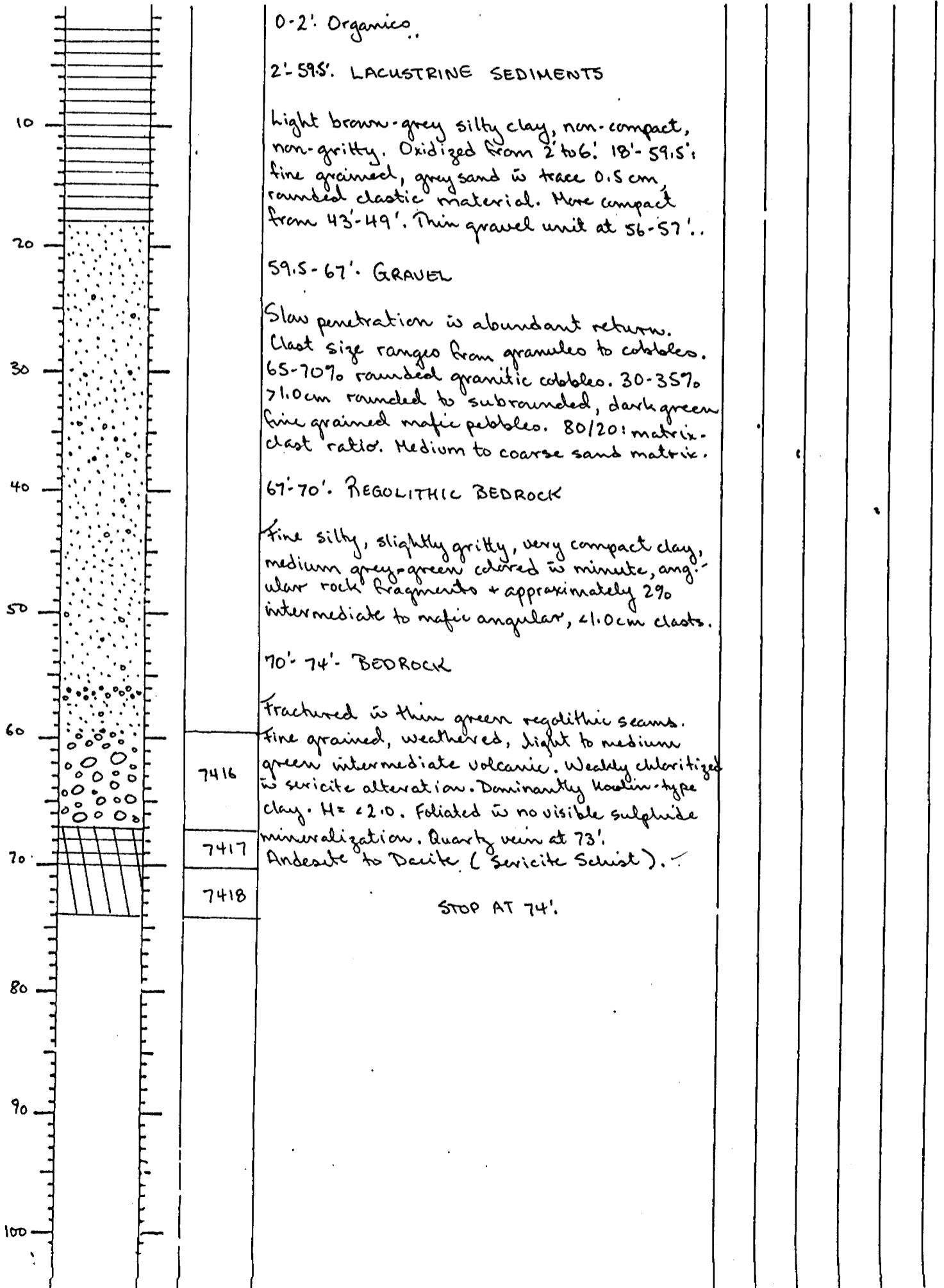
Depth (m) | Graphic Log | Int'l Sample No. | Descriptive Log

	<p>0-2'. Organic</p> <p>2'-23'. LACUSTRINE SEDIMENTS light to medium grey, silty clay. Oxidized light brown from 2'-8'.</p> <p>23'-64.5'. GRAVEL Quick penetration - abundant returns. Fine granule gravel is rounded to subrounded. 0.25 - <2.0 cm pebbles. 70% granitic / 30% intermediate to mafic material. 80/20: matrix-clast ratio. Fine to medium sand matrix. Slower penetration at 35' is larger clast size.</p> <p>7407 51' gh. penetration is abundant returns. Ocranules to <1.0 cm pebbles -> 65-70% granitic + 30-35% intermediate to mafic clasts. Trace quartz + limestone. Fine sand matrix is an 85/15: matrix-clast ratio.</p> <p>7408 64.5-71.5'. <5% soft, light grey to dirty white silty clay. Non-compact is 95% clasts 65% granitic / 30-35% mafic, rounded, <1.0 cm pebbles. Gravel / Till?</p> <p>7409 71.5'-82'. FILL (BASAL / LODGEMENT)</p> <p>7410 71.5'-73.5'. dominantly cobbles in clay matrix. 80-90% light to medium grey, moderately compact silty to sandy clay is minute ang. rock fragments. 5% argillite, 10% intermediate to mafic, <5% granitic material. Clasts range in size from 0.5-2.0 cm. 1-2% mafic + granitic armored clasts.</p> <p>7411 82'-85'. LACUSTRINE-TYPE CLAY (GLACIO LACUSTRINE?)</p> <p>7412 Soft, sandy to silty, light grey, compact clay is trace to <1.0% <1.0 cm rounded, spherical clasts + minor granitic cobbles.</p> <p>7413</p> <p>NO SAMPLE 7414 85'-87'. light green, sandy regolithic clay, gritty is 65% intermediate + 35% creamy colored (sericite) fragments. H=5-6.</p> <p>7415 87'-92'. FRACTURED BEDROCK. Fine grained, medium green intermediate volcanic (Andesite - Dacite / Sericite Schist). H=4.5-5.0. Moderately chloritized. Non carbonatized is no visible sulphides. Minor yellow-brown Fe-staining. 89'-qtz vein + qtz-carb. stringers at 90'. STOP AT 92'</p>
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OVERBURDEN EXPLORATION SERVICES LTD
 REVERSE CIRCULATION DRILL HOLE LOG

DATE 02 10 1987 HOLE NO. SRE-87-41 LOCATION L41E; Str. 2+50 S
 GEOLOGIST AJK DRILLER DB BIT NO./FTG. I 000555
 SHIFT HOURS 7a TO 5p MOVE TO HOLE 7:30 - 7:45 BIT NO./FTG. 92' + 14'
 DRILLING 7:45 - 9:30 / 9:30 - 9:45 Pull Bedo.
 MECHANICAL DOWN TIME _____
 DRILLING PROBLEMS _____
 OTHER _____
 TOTAL HOURS 10 MOVE TO NEXT HOLE 9:45 - 10:00

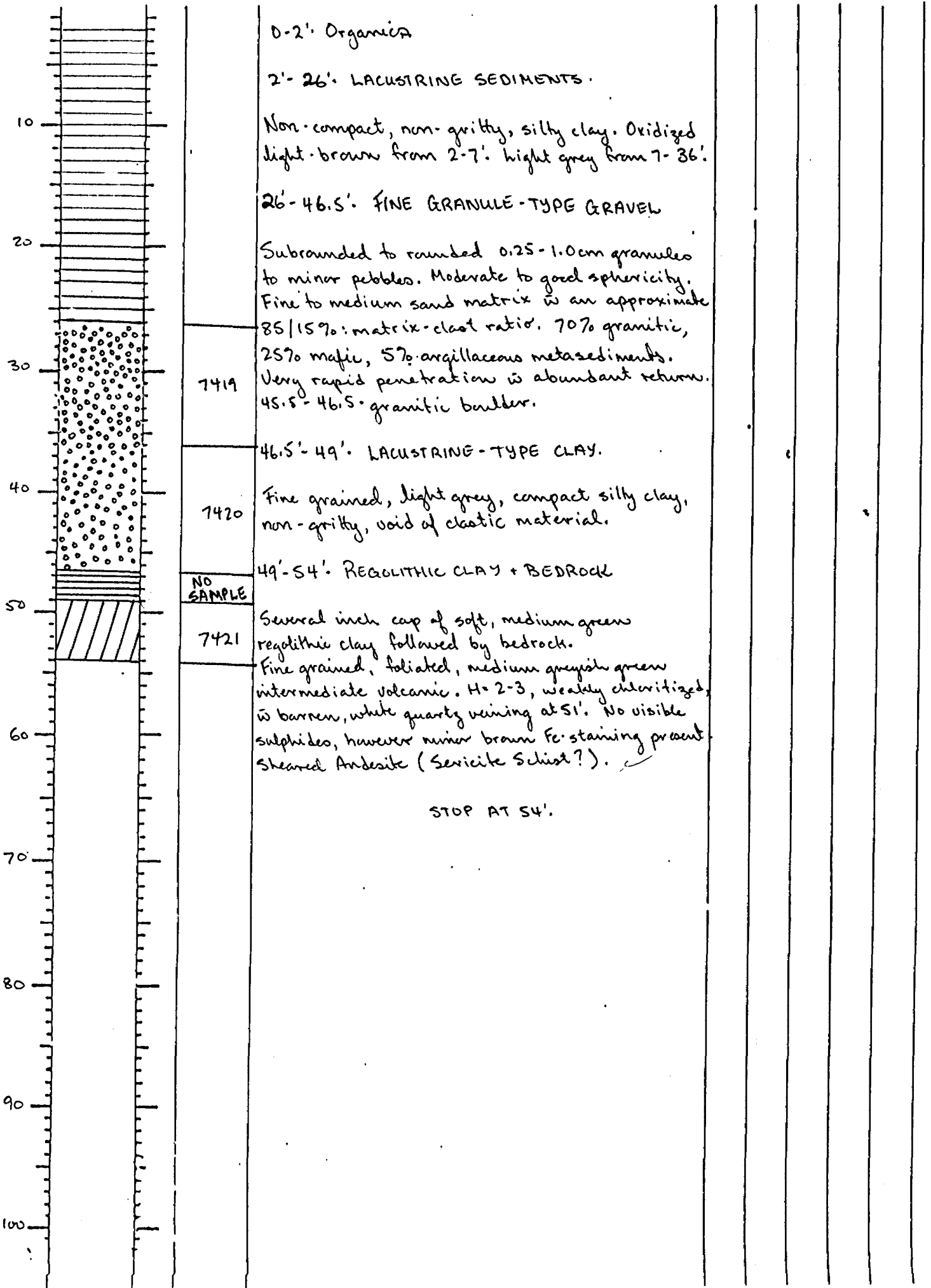
Depth (m)	Graphic Log	Int. Sample No.	Descriptive Log
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OVERBURDEN EXPLORATION SERVICES LTD
 REVERSE CIRCULATION DRILL HOLE LOG

DATE 02 10 1987 HOLE NO. SRE-87-42 LOCATION L43E; 1+25N
 GEOLOGIST AKK DRILLER DB BIT NO./FTG. 1000SSS
 SHIFT HOURS 7a TO 5p MOVE TO HOLE 9:45 - 10:00 BIT NO./FTG. 166+54'
 DRILLING 10:00 - 11:30 | 11:30 - 11:45 Pull Rods.
 MECHANICAL DOWN TIME _____
 TOTAL HOURS 10 DRILLING PROBLEMS _____
 OTHER Drill hitch broken off.
 MOVE TO NEXT HOLE 11:45 - 5:00 - move drill to SRE-87-72

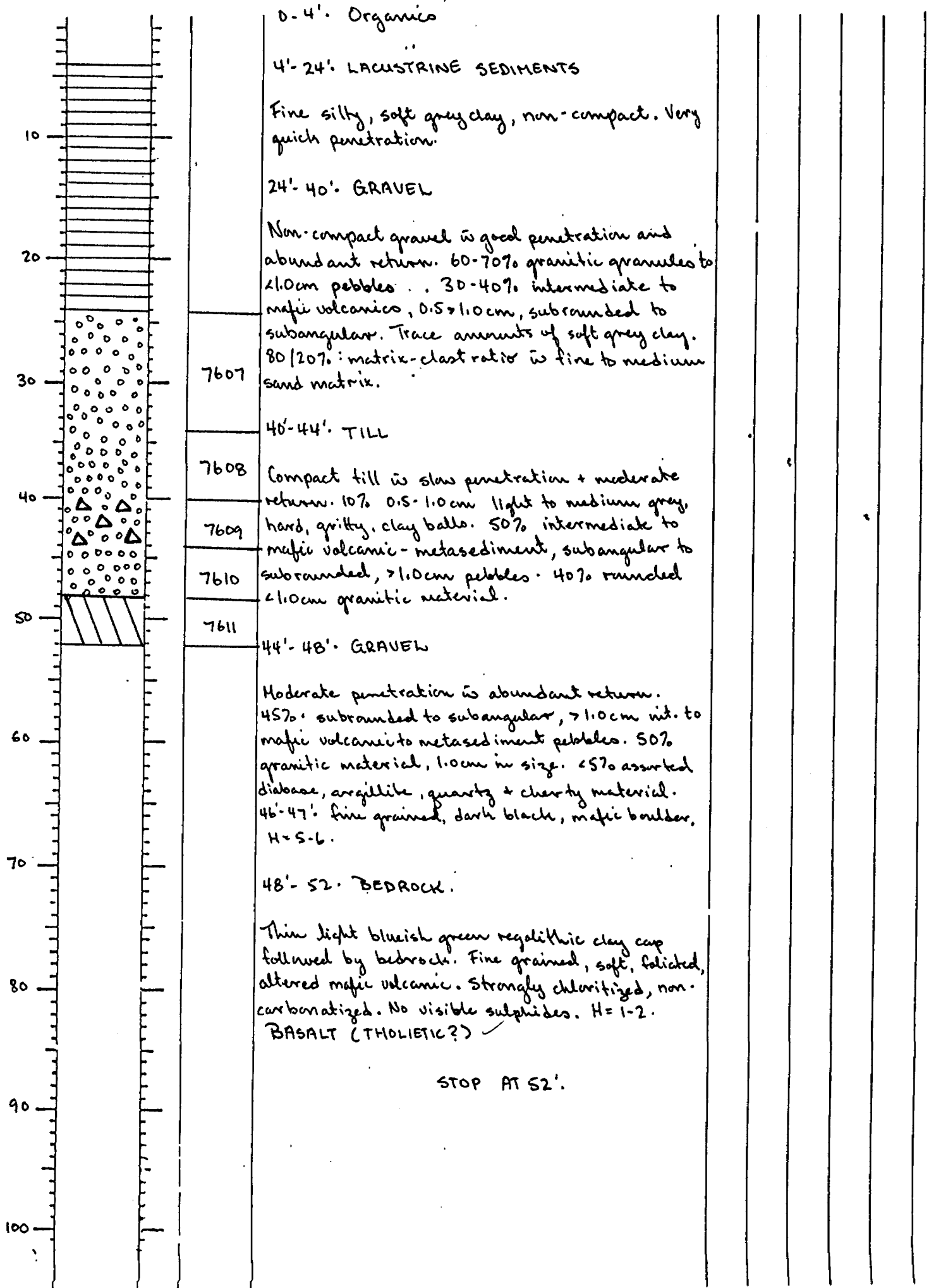
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 Depth | Graphic | Int | Sample | Descriptive Log | | | | | | | |
 (m) | Log | | No. | | | | | | | |
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OVERBURDEN EXPLORATION SERVICES LTD
 REVERSE CIRCULATION DRILL HOLE LOG

DATE 02 22 19 87 HOLE NO. SRE-87-43 LOCATION Line 4SE, Str 1+25N
 GEOLOGIST AWK DRILLER DB BIT NO./FTG. I000510
 SHIFT HOURS 7a TO 12p MOVE TO HOLE 9:45 - 10:00 BIT NO./FTG. 57' + 52'
 DRILLING 10:00 - 11:45 | 11:45 - 12:00 Pull Roto
 MECHANICAL DOWN TIME _____
 TOTAL HOURS 5 DRILLING PROBLEMS _____
 OTHER _____
 MOVE TO NEXT HOLE 12:00 Demobilize

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 Depth | Graphic | Int | Sample | Descriptive Log | | | | | | |
 (m) | Log | | No. | | | | | | | | |
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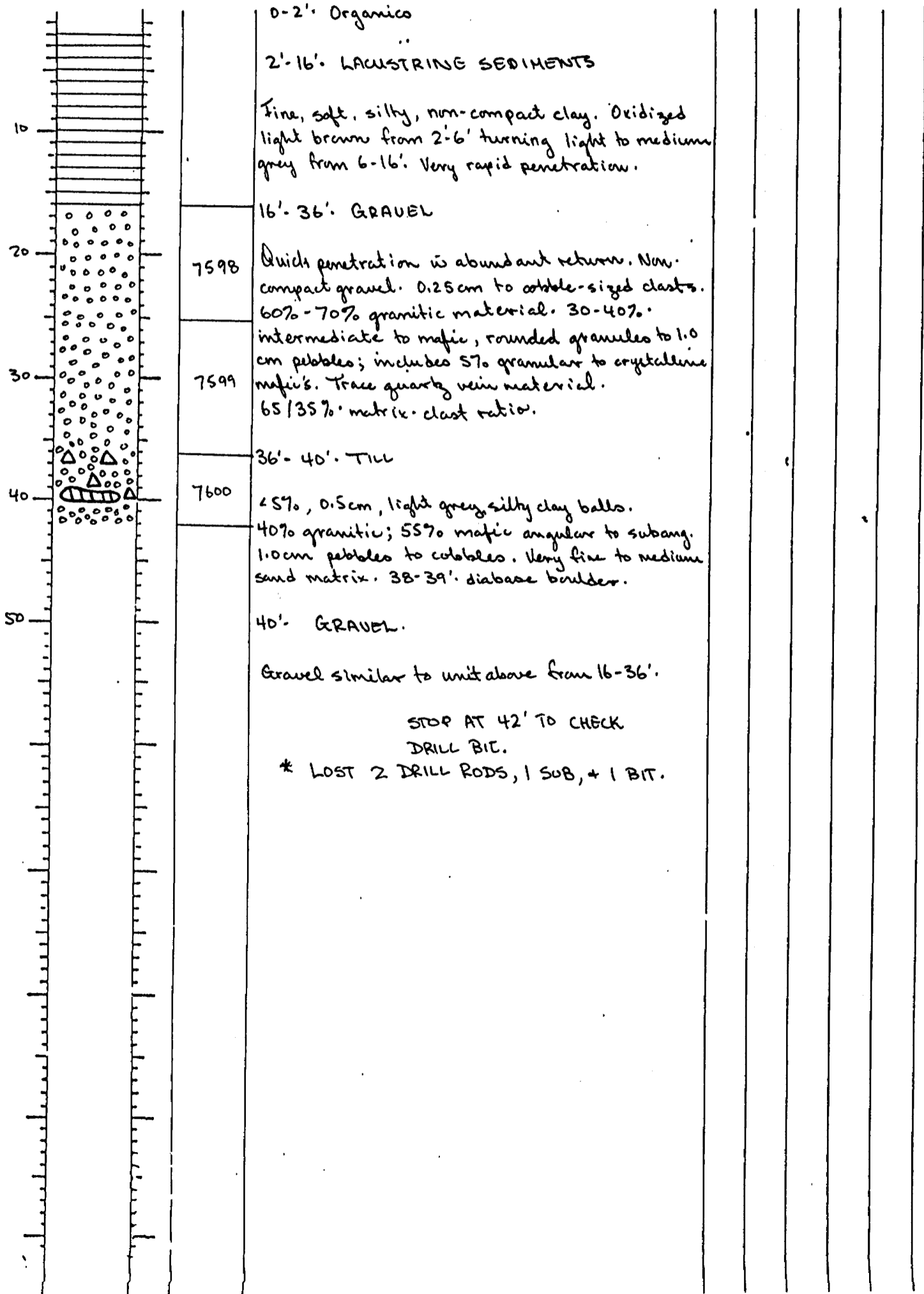


STOP AT 52'.

OVERBURDEN EXPLORATION SERVICES LTD
 REVERSE CIRCULATION DRILL HOLE LOG

DATE 02 21 1987 HOLE NO. SRE-87-44 LOCATION L47E, Str. 1+26 N
 GEOLOGIST AWK DRILLER DB BIT NO./FTG. C868717
 SHIFT HOURS 7 TO 5 MOVE TO HOLE 3:00 - 3:15 BIT NO./FTG. 34' + 42'
 DRILLING 3:15 - 4:00 / 4:00 - 4:15 Pull rods
 MECHANICAL DOWN TIME _____
 TOTAL HOURS 10 DRILLING PROBLEMS LOST 2 Drill rods, sub + bit
 OTHER 4:15 - 4:45 clean water tank
 MOVE TO NEXT HOLE _____

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 Depth | Graphic | Int | Sample | Descriptive Log | | | | | | | |
 (m) | Log | | No. | | | | | | | |
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OVERBURDEN EXPLORATION SERVICES LTD
REVERSE CIRCULATION DRILL HOLE LOG

DATE 02 22 19 87 HOLE NO. SRE-87-44 LOCATION 1 metre east of L 47E; Sta 1+26 N
 GEOLOGIST ASK DRILLER DB BIT NO./FTG. I000570 New Bit + Sub
 SHIFT HOURS MOVE TO HOLE _____ BIT NO./FTG. 0'+ 57'
Ma TO Sp DRILLING 7:30-9:30 | 9:30-9:45 Pull Rods _____
 MECHANICAL DOWN TIME _____
 TOTAL HOURS DRILLING PROBLEMS _____
10 OTHER _____
 MOVE TO NEXT HOLE 9:45-10:00

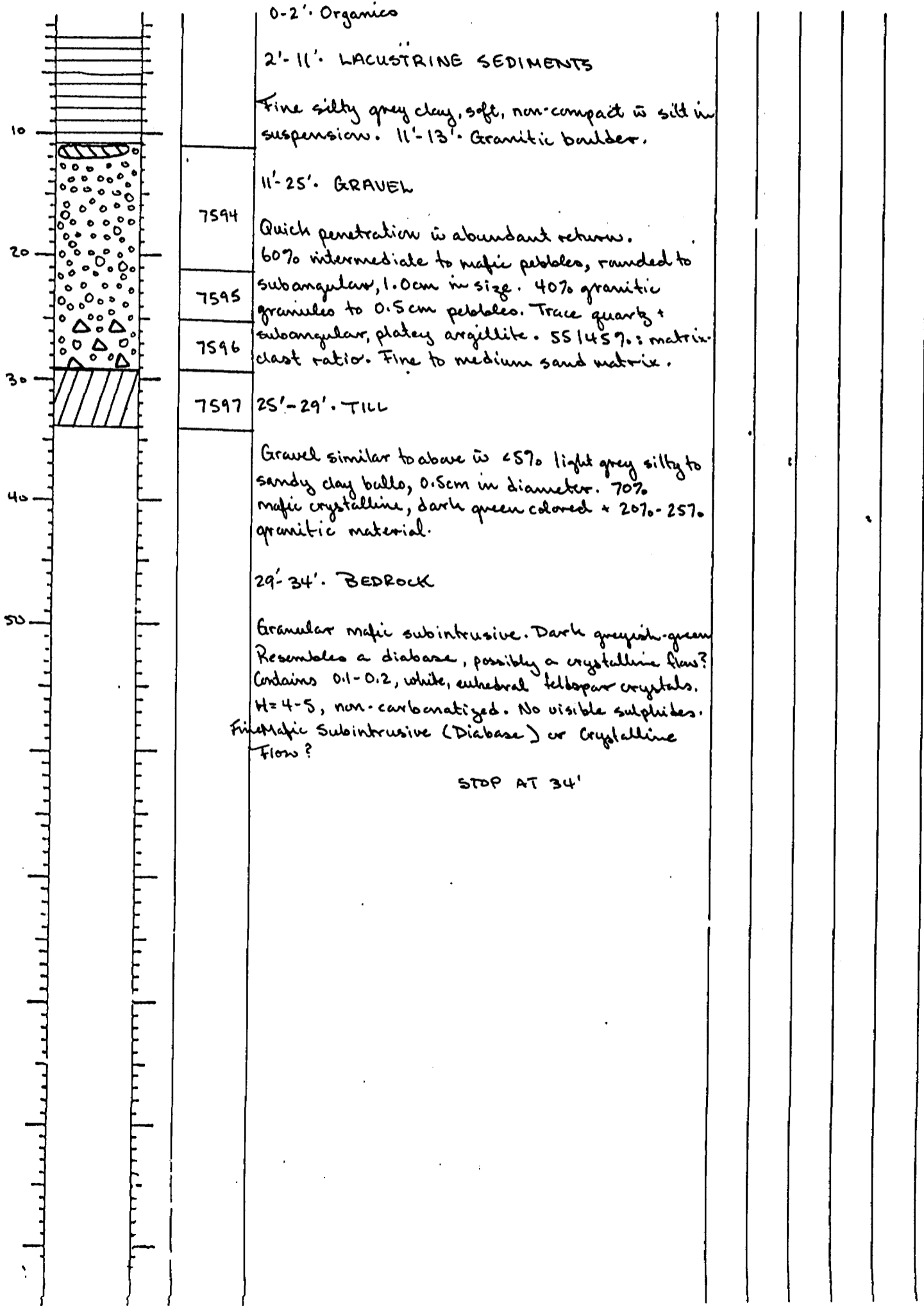
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 Depth | Graphic | Int | Sample | Descriptive Log | | | | | | | |
 (m) | Log | | No. | | | | | | | | | |
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	<p>0-2' Organics</p> <p>2-17' LACUSTRINE SEDIMENTS</p> <p>Very quick penetration, soft, non-compact grey silty clay.</p> <p>17-36' GRAVEL</p> <p>Weakly compact gravel. Good to moderate penetration w abundant return. 60-70% granitic granules to 1.0cm pebbles. 30-40% intermediate to mafic rounded to subrounded 1-2.0cm clasts. Fine to medium sand matrix w a 70/30% matrix-clast ratio. 26'-28' dominantly sorted, rounded granules.</p> <p>36'-41' TILL</p> <p>5-30% light to medium grey, soft to hard gritty, 0.5-1.0cm clay balls. 35-45% rounded granitic granules to cobbles. 35-40% intermediate to mafic, subrounded to subangular, >1.0cm pebbles. Trace exotic material; i.e. quartz vein diabase and limestone; minor cherty material.</p> <p>Trace mafic armoured clasts.</p> <p>41'-52' GRAVEL</p> <p>Compact gravel, slow penetration w moderate return. Clast size ranges from granule to cobble-size, dominantly 2.0cm pebbles. Trace amounts of light grey, soft clay balls. 70% granitic 30% intermediate to mafic material.</p> <p>49' trace green clay balls, 0.5cm, slightly gritty w 55-60% int-mafic, >1.0cm subangular to angular clasts. 40-45% 1-2.0cm granitic pebbles.</p> <p>52'-57' BEDROCK.</p> <p>Very soft, medium yellow-green to green clay from 52'-53'. Bedrock is a fine grained, foliated medium grey-green intermediate to mafic volcanic (possibly a meta sediment?). H=4-6 Fine grained, white vein material (not quartz) possibly feldspar. Ambersite or Metasediment (Greywacke?).</p> <p style="text-align: center;">STOP AT 57'.</p>
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OVERBURDEN EXPLORATION SERVICES LTD
 REVERSE CIRCULATION DRILL HOLE LOG

DATE 02 21 1987 HOLE NO. SRE-87-45 LOCATION L49E; Str. 1+24N
 GEOLOGIST ASK DRILLER DB BIT NO./FTG. CB68717 - New Bit
 SHIFT HOURS MOVE TO HOLE 1:30-1:45 BIT NO./FTG. 0+34'
7a TO 5p DRILLING 1:45-2:45 / 2:45-3:00 Pull Rods
 MECHANICAL DOWN TIME _____
 TOTAL HOURS DRILLING PROBLEMS _____
10 OTHER _____
 MOVE TO NEXT HOLE 3:00 - 3:15

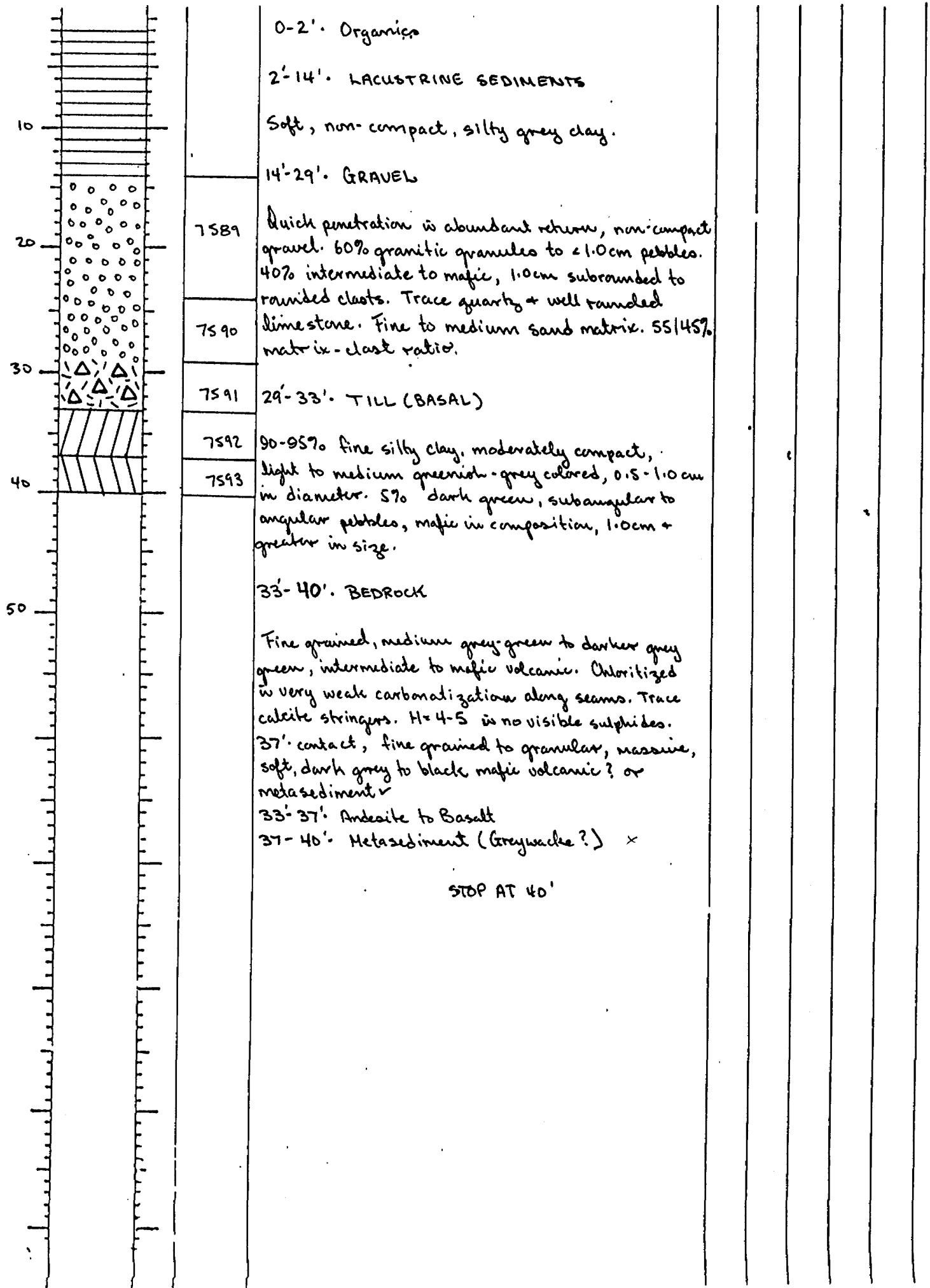
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 Depth | Graphic | Int | Sample | Descriptive Log | | | | | |
 (m) | Log | | No. | | | | | | | |
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STOP AT 34'

DATE 02 21 19 87 HOLE NO. SRE-87-46 LOCATION LSIE; Str 1+7SN
 GEOLOGIST AJK DRILLER DB BIT NO./FTG. 100572
 SHIFT HOURS 7a TO 5p MOVE TO HOLE 12:00 - 12:15 BIT NO./FTG. 216 + 40' = 256'
 DRILLING 12:15 - 1:15 1:15 - 1:30 Pull Rods.
 MECHANICAL DOWN TIME _____
 TOTAL HOURS 10 DRILLING PROBLEMS _____
 OTHER _____
 MOVE TO NEXT HOLE 1:30 - 1:45

Depth (m)	Graphic Log	Int. Sample No.	Descriptive Log
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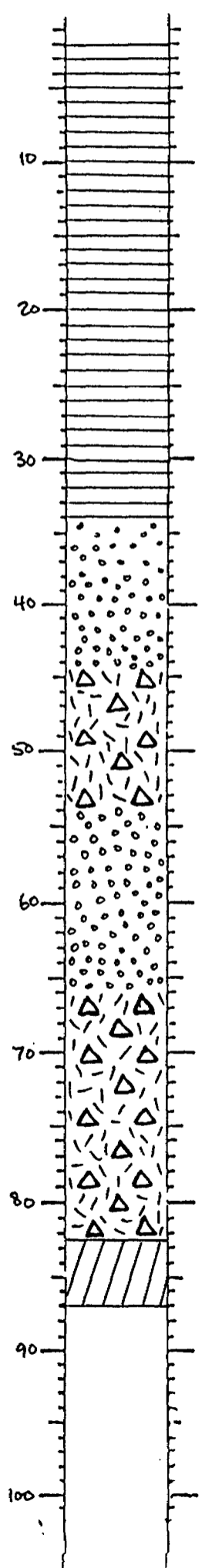


OVERBURDEN EXPLORATION SERVICES LTD
 REVERSE CIRCULATION DRILL HOLE LOG

DATE 02 21 1987
 SHIFT HOURS 7a TO 5p
 TOTAL HOURS 10

HOLE NO. SRE-87-47 LOCATION LS3E; 2+23N
 GEOLOGIST ASK DRILLER DB BIT NO./FTG. 1000572
 MOVE TO HOLE 9:30 - 10:00 BIT NO./FTG. 12B+88'
 DRILLING 10:00 - 11:45 | 11:45 - 12:00 Pull Rods
 MECHANICAL DOWN TIME _____
 DRILLING PROBLEMS _____
 OTHER _____
 MOVE TO NEXT HOLE 12:00 - 12:15

Depth (m)	Graphic Log	Int Sample No.	Descriptive Log
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	0-2' Organics
	2'-34' LACUSTRINE SEDIMENTS Fine silty, grey clay, non-compact, soft. Very rapid penetration. Fine silt in suspension.
	34'-44.5' GRAVEL Non-compact gravel, good penetration w abundant return. 65-80% granitic material - dominantly very coarse sand to granules. 20-35% fine grained intermediate to mafic, subrounded to rounded 0.5 to 1.5cm pebbles. Trace limestone, quartz, & quartz-feldspar porphyry clasts. Fine to coarse sand matrix w a 70/30% matrix-clast ratio.
	44.5'-54' TILL (BASAL/LODGE MENT?)
7580	80-90% soft, silty, grey clay balls, gritty. 10-15% <1.0cm, rounded dark grey mafic pebbles. <5% granitic granules to 1.0cm clasts. Fine to medium sand - 10 return. Clay content decrease to 10% at 51'.
7581	
	54'-66' GRAVEL
7582	
7583	Non-compact gravel w rapid penetration and abundant return. 55% granitic granules to very coarse sand. 45% fine grained intermediate to mafic 0.25-1.0cm pebbles. Fine to medium sand matrix.
7584	
	66'-82.5' TILL (BASAL)
7585	Consolidated, very compact silty to sandy clay w fine angular rock fragments. 80-90% light grey to greenish-grey h.g.c.b's, 0.5-1.5cm in diameter. Subequal amounts of granitic and fine grained dark grey mafic clasts. Rounded to subrounded 0.5-1.0cm pebbles. 72-75' trace clastic material - very compact sandy clay - gritty.
7586	
7587	
7588	79' 90-95% h.g.c.b's, very compact w int-mafic medium to dark green pebbles - trace granitic material.
	82.5'-87' BEDROCK Fine grained, greenish-grey intermediate volcanic, massive, weakly chloritized, non carbonatized. Minor white barren quartz veining. H=4.5-5. Trace to nil finely disseminated pyrite. Darker green at 84.5 - resembles a mafic volcanic. Interm. Volcanic/Metased? STOP AT 87'

DATE 21 02 1987

HOLE NO. SRE-87-48 LOCATION L55E; Stn. 1+50 N

SHIFT HOURS

GEOLOGIST ASK DRILLER DB BIT NO./FTG. T000572

7a TO 5p

MOVE TO HOLE 3:45 - 4:00 (02-20-87) BIT NO./FTG. 4D+88'

TOTAL HOURS

DRILLING 7:15 - 9:15 | 9:15 - 9:30 Pull Rods

MECHANICAL DOWN TIME

DRILLING PROBLEMS

OTHER

MOVE TO NEXT HOLE 9:30 - 10:00

Depth (m) | Graphic Log | Int. Sample No. | Descriptive Log

Depth (m)	Graphic Log	Int. Sample No.	Descriptive Log
0-2'			Organics
2'-33'			LACUSTRINE SEDIMENTS Soft, non-compact, silty, grey clay.
33'-47'			GRAVEL Moderate penetration w abundant return. 60% granitic granules - well rounded 1.0 cm pebbles. 40% med-dk grey, 1-2.0 cm subang. to subrounded intermediate to mafic pebbles. Trace quartz & diabase cobbles. Dominantly medium sand matrix w 60/40% matrix-clast ratio. Trace amts. of silty clay balls. Slight increase in clast size at 44', > 1.0 cm in size.
47'-70'			TILL (BASAL)
47'-48'		7571	Compact silty clay w slow penetration. 90-95% hard, gritty, clay balls, medium grey, 0.25-1.0 cm in diameter w fine angular rock fragments.
48'-54'		7572	5-8% subangular to angular, > 1.0 cm pebbles int. to mafic volcanic pebbles. 2% 1cm to cobble sized granitic material. 1% mafic armoured clasts. Very fine to coarse sand matrix.
54'-57'		7573	54' decrease in clay ball content to 75-80% w trace diabase cobbles, quartz + limestone clasts.
57'-58'		7574	57'-58' dark, fine grained, mafic boulder
58'-62'			62' less compact
62'-70'		7575	66' clay ball content varies from 40 to 90% w thin gravel (pebbles) interbeds.
70'-74'			LACUSTRINE-TYPE CLAY.
74'-77'		7576	Hard, very compact, silty grey clay. Slow penetration - void of clastic material.
77'-74'			TILL (BASAL)
74'-83'		7577	90% light grey, sandy to silty, hard, gritty clay balls containing fine angular clastic material. Clay balls are 0.5-2.0 cm in diameter.
83'-88'		7578	8% subangular to angular mafic pebbles + cobbles 2% granitic material. 80-83' clastic material composed entirely of angular dk. green mafic volc. pebbles (10%), w 90% lg grey sandy-silty clay.
88'-88'		7579	BEDROCK. Fine grained, dark green, chloritized mafic volcanic. H=3, no visible sulphides. light yellowish-brown feldspar? stringers + minor quartz. (BASALT) ✓
			STOP AT 88'.

OVERBURDEN EXPLORATION SERVICES LTD
REVERSE CIRCULATION DRILL HOLE LOG

DATE 02 2019 HOLE NO. SRE-87-49 LOCATION L57E; Stn. 0+98N (5m. west of line)
 GEOLOGIST AVK DRILLER DB BIT NO./FTG. New Bit - 1000512
 SHIFT HOURS 7 TO 5 MOVE TO HOLE 2:00-2:15 BIT NO./FTG. 0+40'
 DRILLING 2:15-3:30 | 3:30-3:45 Pull Rods.
 MECHANICAL DOWN TIME _____
 TOTAL HOURS 10 DRILLING PROBLEMS _____
 OTHER _____
 MOVE TO NEXT HOLE 3:45-4:00 | 4:00-4:30 clean tanks.

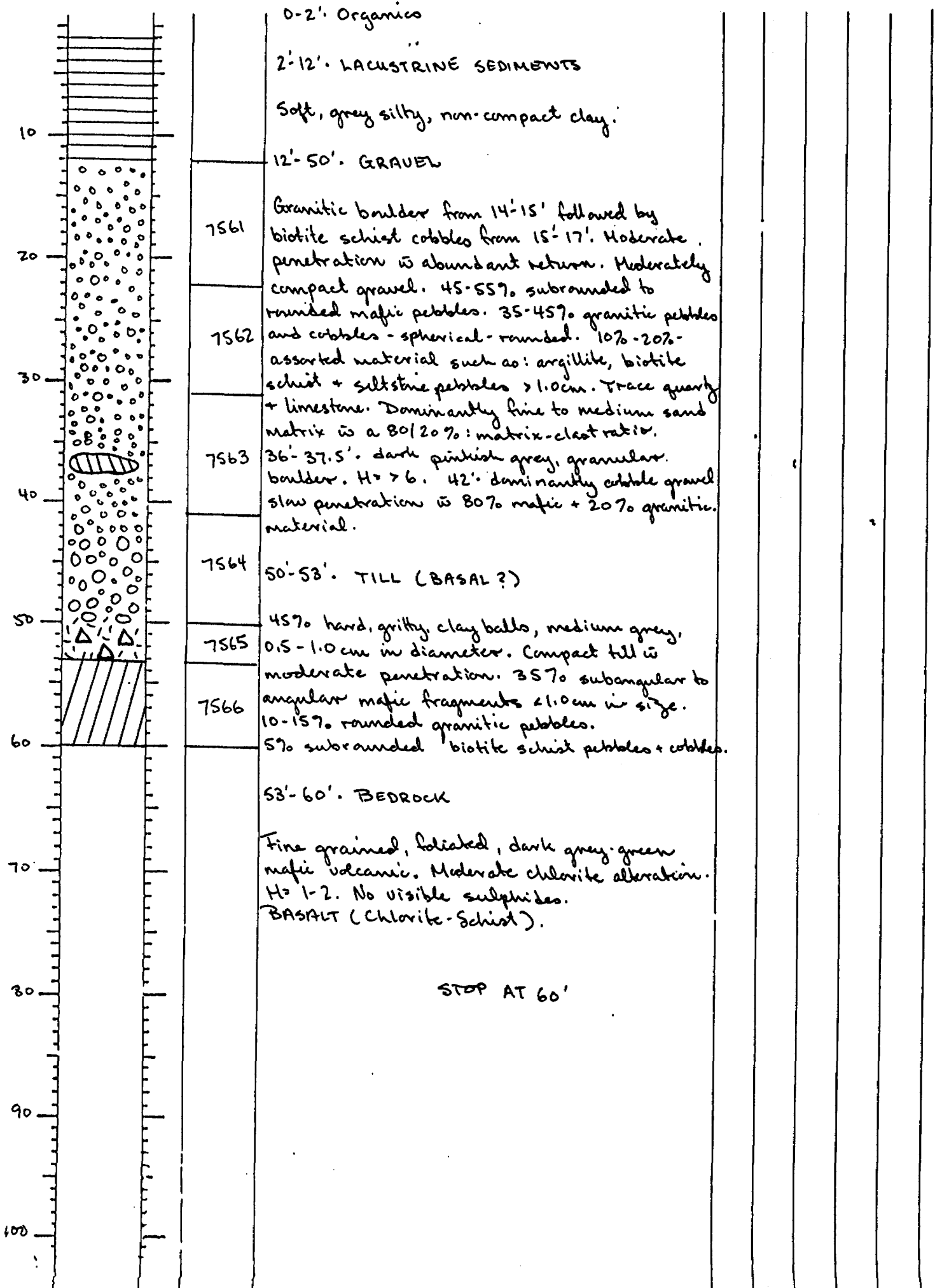
Depth (m)	Graphic Log	Interval (m)	Sample No.	Descriptive Log
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		0-2'		Organics
		2'-14'		LACUSTRINE SEDIMENTS
10				Soft, non-compact light brown, silty clay, turning light grey at 10'. Non-gritty - very fine sandy to silty clay w trace amounts of well rounded, spherical, <1.0cm pebbles.
20		14-30'	7567	GRAVEL
			7568	Moderate to good drill penetration w abundant return. Clast size ranges from 0.25-2.0cm. 60% granitic granules to 1.5cm spherical, well rounded pebbles. 40% fine grained, intermed. to mafic, rounded, spherical 1.0-2.0cm pebbles.
30			7569	Trace amounts of 10cm quartz + limestone clasts. 80/20: matrix-clast ratio. Fine to med. sand matrix.
40		30'-34'	7570	TILL (BASAL)
50				85-90% soft to hard gritty clay balls, medium grey, 0.5-1.0cm in diameter. 10-15% dark grey + dark grey-green mafic pebbles <1.0cm, fine grained, subangular to subrounded. <5% granitic granules - rounded, spherical. Moderately compact till.
		34'-40'		BEDROCK
				Fine grained, dark green, soft, mafic volcanic moderately chloritized, foliated, H=1-2, w no visible sulphide mineralization. BASALT (Chlorite-Schist).
				STOP AT 40'

OVERBURDEN EXPLORATION SERVICES LTD
 REVERSE CIRCULATION DRILL HOLE LOG

DATE 02 2019 87 HOLE NO. SRE-87-50 LOCATION L59E; Str. 0+73N
 GEOLOGIST ASK DRILLER DB BIT NO./FTG. 1000568
 SHIFT HOURS 7a TO 5p MOVE TO HOLE 11:45 - 12:00 BIT NO./FTG. 375+60' 435'
 DRILLING 12:00 - 1:45 | 1:45 - 2:00 Pull Rods
 MECHANICAL DOWN TIME _____
 TOTAL HOURS 10 DRILLING PROBLEMS _____
 OTHER _____
 MOVE TO NEXT HOLE 2:00 - 2:15

Depth | Graphic | Int | Sample | Descriptive Log
 (m) | Log | | No. |

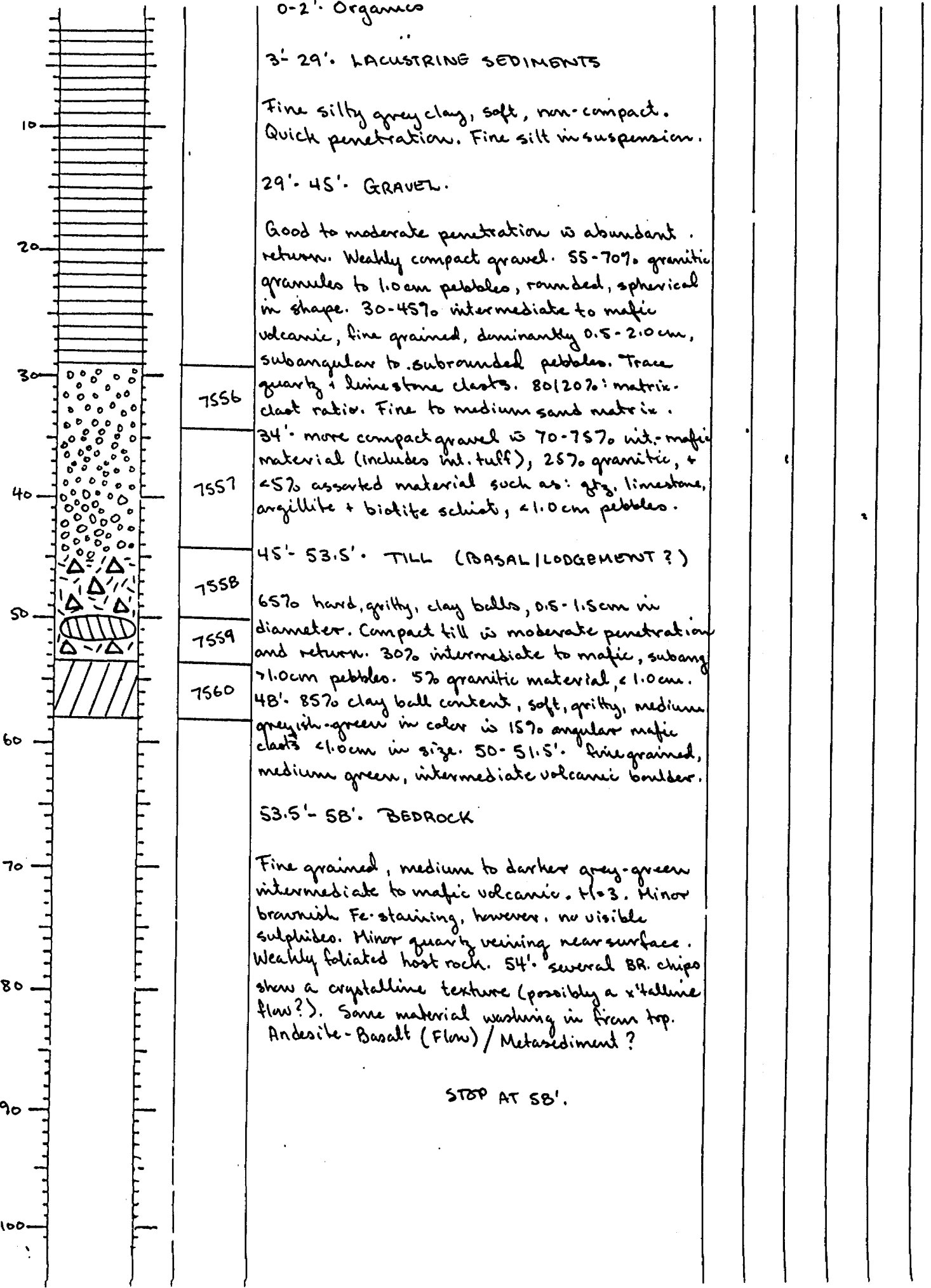


OVERBURDEN EXPLORATION SERVICES LTD
 REVERSE CIRCULATION DRILL HOLE LOG

Page 1 of 1

DATE 02 2019 87 HOLE NO. SRE-87-51 LOCATION L61E; D+48N
 GEOLOGIST ASK DRILLER DB BIT NO./FTG. I00056B
 SHIFT HOURS MOVE TO HOLE 9:30-10:00 BIT NO./FTG. 317+58=375
7a TO 5p DRILLING 10:00-11:30 | 11:30-11:45 Pull Rods
 MECHANICAL DOWN TIME _____
 TOTAL HOURS DRILLING PROBLEMS _____
10 OTHER _____
 MOVE TO NEXT HOLE 11:45-12:00

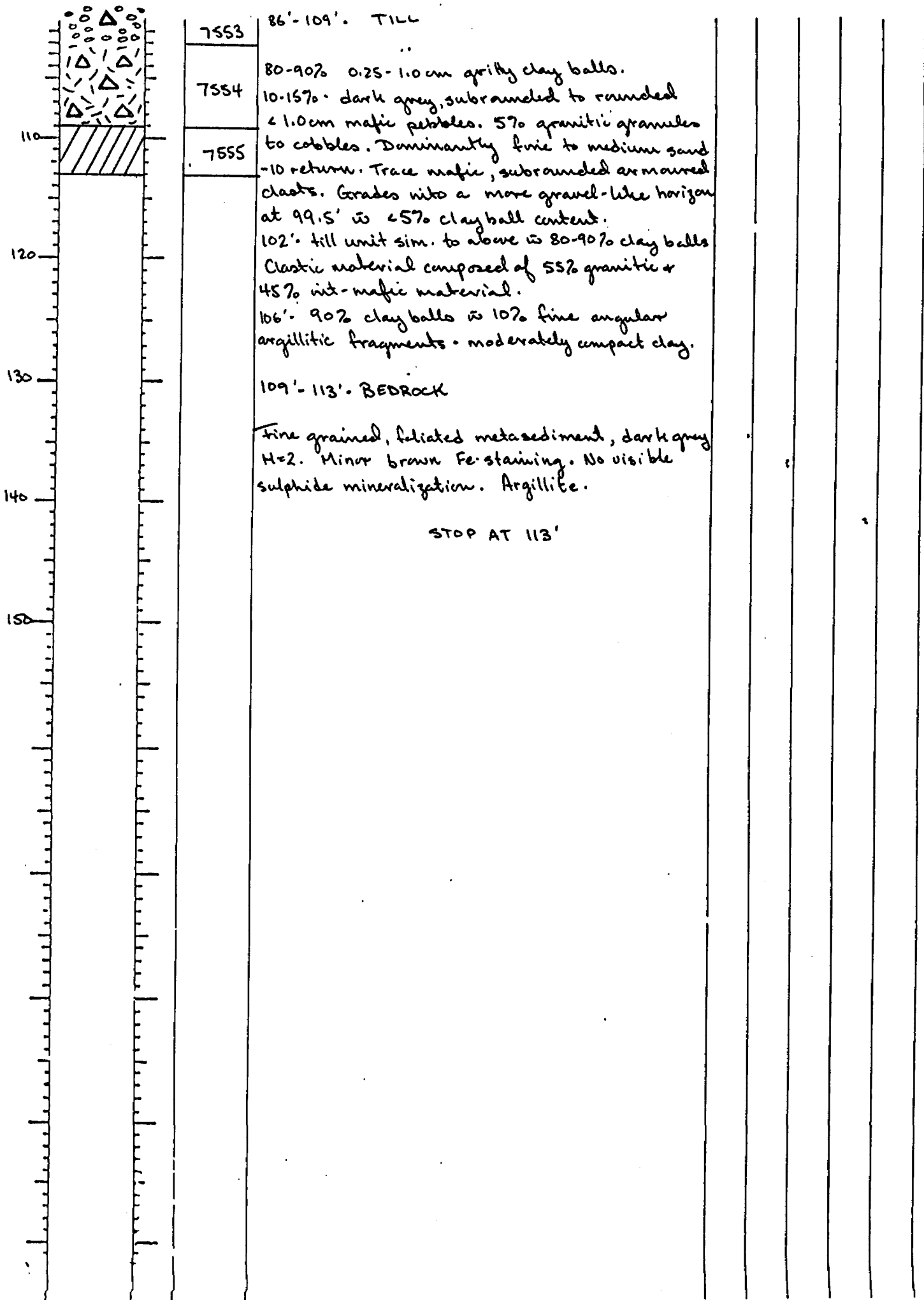
Depth | Graphic | Int | Sample | Descriptive Log | | | | | | | |
 (m) | Log | | No. | | | | | | | |



OVERBURDEN EXPLORATION SERVICES LTD
 REVERSE CIRCULATION DRILL HOLE LOG

DATE 02 20 19 87 HOLE NO. SRE-87-52 LOCATION W6SE; Sta. 6+475
 GEOLOGIST ASK DRILLER DB BIT NO./FTG. I000 568
 SHIFT HOURS 7a TO 5p MOVE TO HOLE _____ BIT NO./FTG. _____
 DRILLING _____
 MECHANICAL DOWN TIME _____
 TOTAL HOURS 10 DRILLING PROBLEMS _____
 OTHER _____
 MOVE TO NEXT HOLE _____

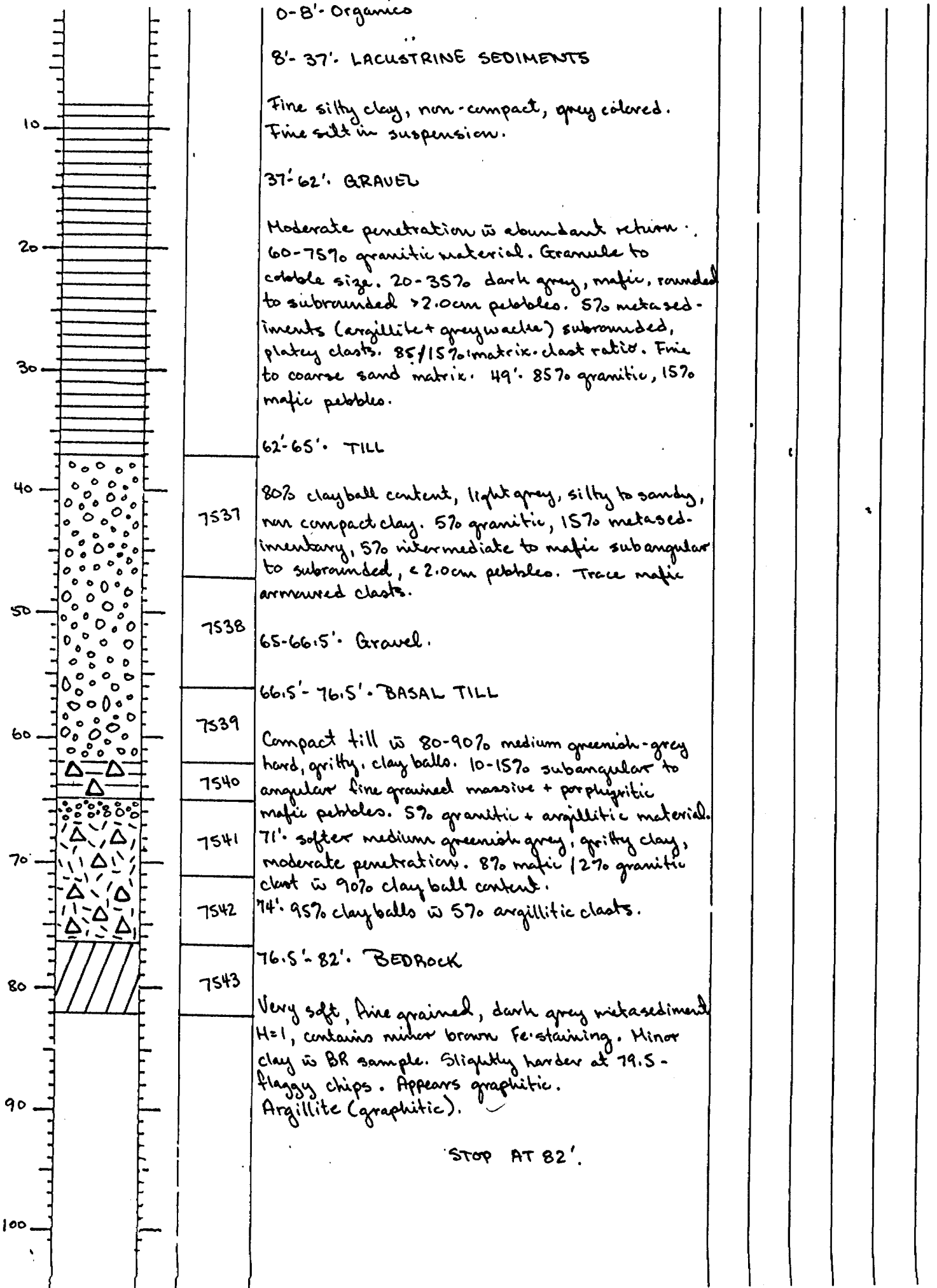
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 Depth | Graphic | Int | Sample | Descriptive Log | | | | | |
 (m) | Log | | | No. | | | | | |
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OVERBURDEN EXPLORATION SERVICES LTD
 REVERSE CIRCULATION DRILL HOLE LOG

DATE 02 19 1987 HOLE NO. SRE-87-S3 LOCATION L67E; Sh. 6+69 S (5m. west of line)
 GEOLOGIST AKK DRILLER DB BIT NO./FTG. 1000568
 SHIFT HOURS 7a TO 5p MOVE TO HOLE 12:45-1:00 BIT NO./FTG. 122+82=204
 DRILLING 1:00-3:00
 MECHANICAL DOWN TIME _____
 TOTAL HOURS 10 DRILLING PROBLEMS _____
 OTHER _____
 MOVE TO NEXT HOLE 3:15-3:30

Depth | Graphic | Int | Sample | Descriptive Log | | | | | | | |
 (m) | Log | | No. | | | | | | | |

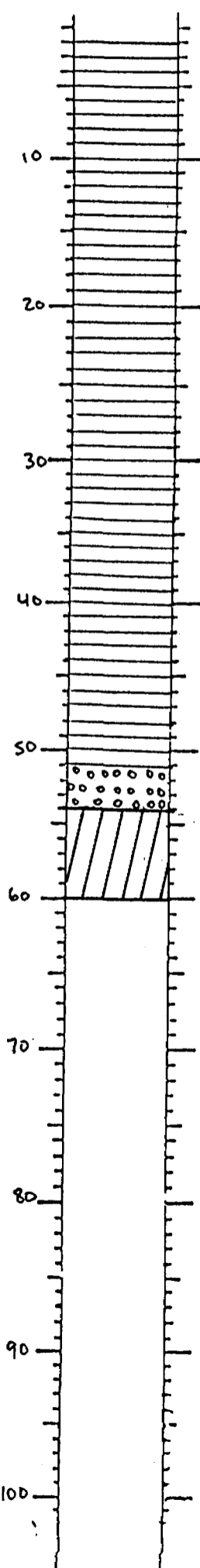


OVERBURDEN EXPLORATION SERVICES LTD
REVERSE CIRCULATION DRILL HOLE LOG

Page 1 of 1

DATE 02/19/1987 HOLE NO. SRE-87-54 LOCATION L69E; Stn. 6+325
 GEOLOGIST ASK DRILLER DB BIT NO./FTG. I00056B
 SHIFT HOURS 7a TO 5p MOVE TO HOLE 11:15-11:30 BIT NO./FTG. 62+60'=122'
 DRILLING 11:30-12:30 / 12:30-12:45 Pull Rods
 MECHANICAL DOWN TIME _____
 TOTAL HOURS 10 DRILLING PROBLEMS _____
 OTHER _____
 MOVE TO NEXT HOLE 12:45-1:00

Depth | Graphic | Int | Sample | Descriptive Log | | | | | |
 (m) | Log | | No. | | | | | | |



0-2'. Organics
 2'-51'. LACUSTRINE SEDIMENTS
 Soft, grey, silty clay, non-compact - very quick penetration. Fine silt in suspension.
 51'-54'. GRAVEL
 Good penetration w abundant returns.
 50-55% granitic granules + 1.0cm rounded pebbles. 40% intermediate to mafic subrounded pebbles. 5-10% angular, platy argillite.
 60/40: matrix-clast ratio. 54' dark grey clay non-gritty regolith followed by bedrock
 54'-60'. BEDROCK
 Fine grained, medium to dark grey meta-sediment (argillite). Very soft w regolithic clay being washed up with BR. sample. H= 1-2, trace brownish Fe-staining + pyrite along foliation planes. ARGILLITE.
 STOP AT 60'.

7535
 7536

OVERBURDEN EXPLORATION SERVICES LTD
 REVERSE CIRCULATION DRILL HOLE LOG

DATE 02 19 1987 HOLE NO. SRE-87-55 LOCATION L72E; Sta. 6+13.5 (6m east of line)
 GEOLOGIST ASK DRILLER DB BIT NO./FTG. 1000568 - New Bit
 SHIFT HOURS 7a TO 5p MOVE TO HOLE 10:00 - 10:15 BIT NO./FTG. 0+62'
 DRILLING 10:15 - 11:00 / 11:00 - 11:15
 MECHANICAL DOWN TIME _____
 TOTAL HOURS 10 DRILLING PROBLEMS _____
 OTHER _____
 MOVE TO NEXT HOLE 11:15 - 11:30

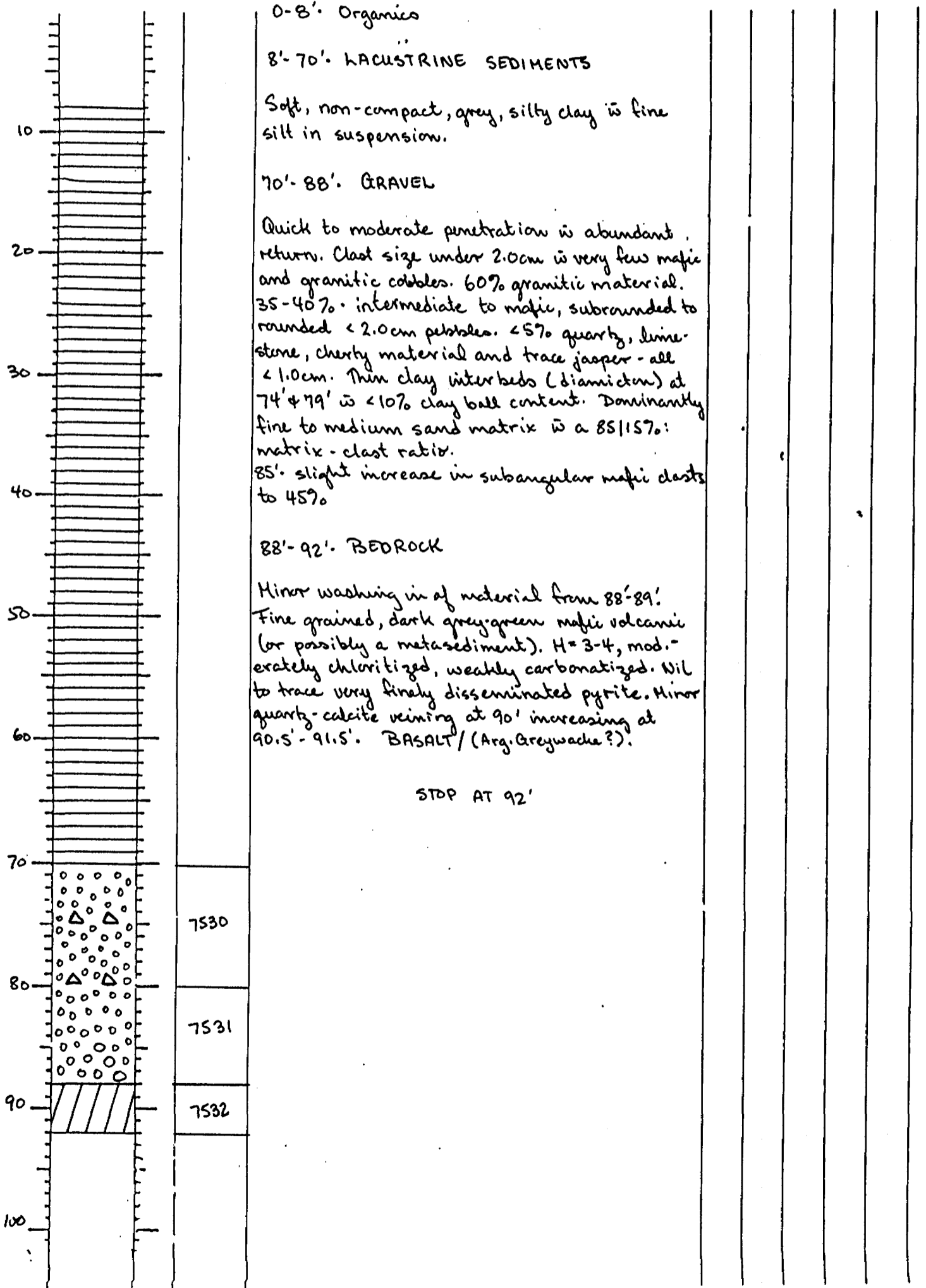
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 Depth | Graphic | Int | Sample | Descriptive Log | | | | | |
 (m) | Log | | No. | | | | | | |
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	<p>0-2' Organics</p> <p>2'-52' LACUSTRINE SEDIMENTS</p> <p>Fine silty grey clay, non-compact, non-gritty w fine silt in suspension. Very quick penetration.</p> <p>52'-57' GRAVEL</p> <p>Moderate drill penetration. 60% granitic granules to larger pebbles. 40% intermediate to mafic subangular to subrounded < 2.0 cm clasts. 54'-56' foliated, medium green intermediate to mafic boulder w no visible sulphides. 56'-95% intermediate to mafic angular clasts w 5% granitic material. Possibly fractured bedrock. Fine to medium sand matrix w a 85/15% matrix-clast ratio.</p> <p>57'-62' BEDROCK</p> <p>Minor washing in of material from above. Fine grained, darker grey-green mafic volcanic (possibly a metasediment). Weakly foliated, H=3-4, moderately chloritized, weakly carbonatized. No visible sulphides. Calcite stringers at 58'-59'. BASALT / Arg. Greywacke?</p> <p>7533</p> <p>7534</p> <p>STOP AT 62'.</p>								
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OVERBURDEN EXPLORATION SERVICES LTD
 REVERSE CIRCULATION DRILL HOLE LOG

DATE 19 02 1987 HOLE NO. SRE-87-58 LOCATION L74E; 6+52S
 GEOLOGIST ANK DRILLER DB BIT NO./FTG. I000639
 SHIFT HOURS 7a TO 5p MOVE TO HOLE 8:00-8:30 BIT NO./FTG. 208+92 = 300'
 DRILLING 7:30-8:00 / 8:30-9:45 - Drill / 9:45-10:00 Pull Rods.
 MECHANICAL DOWN TIME _____
 TOTAL HOURS 10 DRILLING PROBLEMS _____
 OTHER _____
 MOVE TO NEXT HOLE 10:00 - 10:15

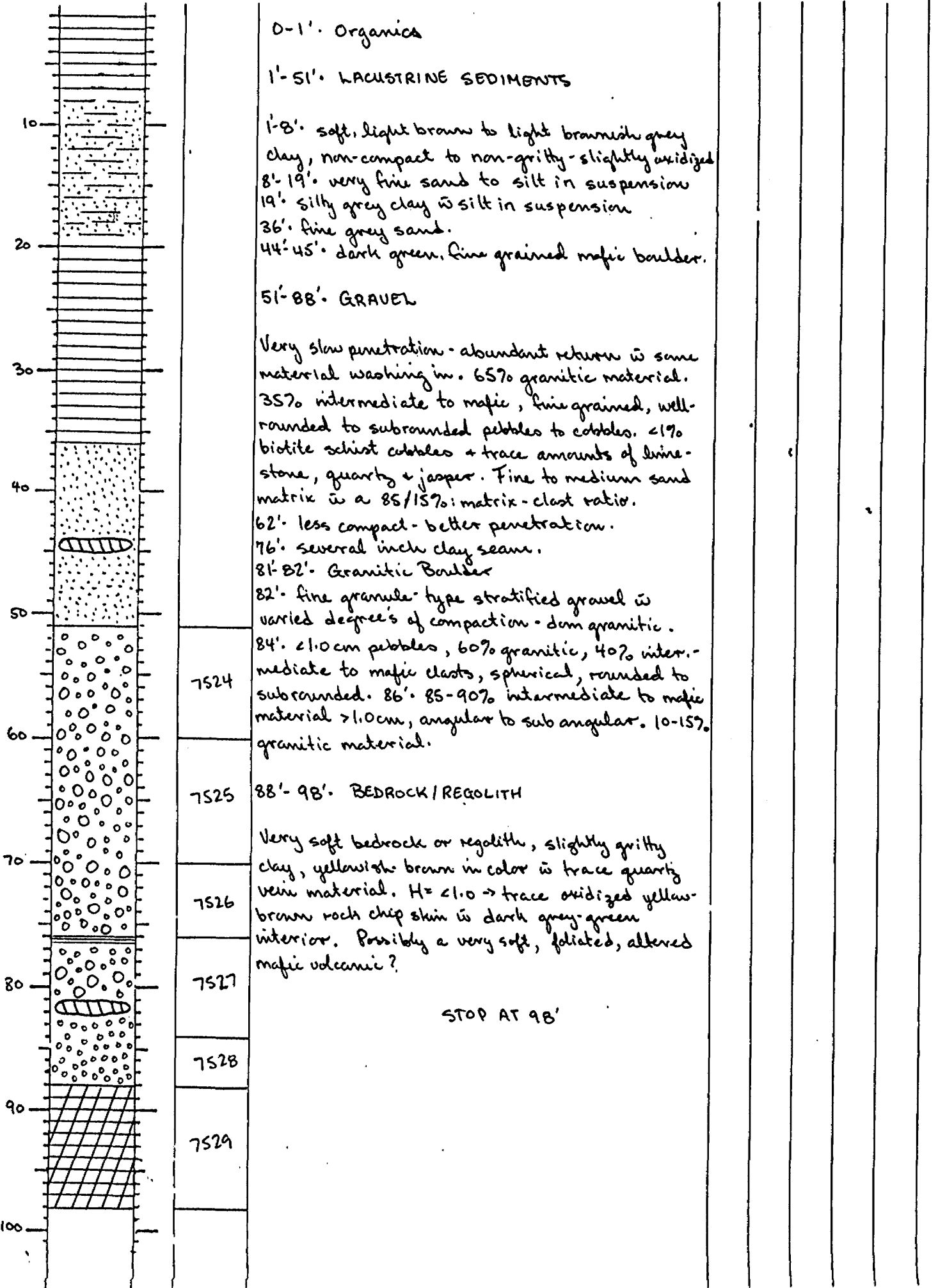
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 Depth | Graphic | Int | Sample | Descriptive Log | | | | | |
 (m) | Log | | No. | | | | | | | |
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**OVERBURDEN EXPLORATION SERVICES LTD
REVERSE CIRCULATION DRILL HOLE LOG**

DATE 02 18 19 HOLE NO. SRE-87-S7 LOCATION L76E; Sta 7+026
 GEOLOGIST AWK DRILLER DB BIT NO./FTG. 1000639
 SHIFT HOURS 7a TO 5p MOVE TO HOLE 1:30 - 1:45 BIT NO./FTG. 110+98 = 208
 DRILLING 1:45 - 4:45 | 4:45 - 5:00 - clean tanks
 MECHANICAL DOWN TIME _____
 TOTAL HOURS 10 DRILLING PROBLEMS _____
 OTHER _____
 MOVE TO NEXT HOLE _____

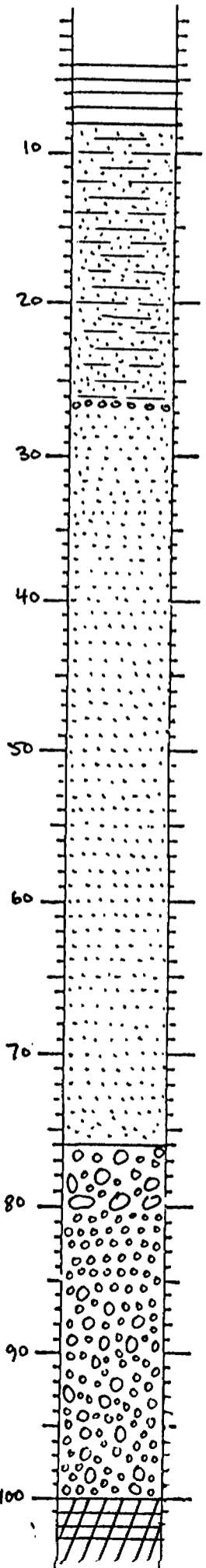
Depth (m)	Graphic Log	Int Sample No.	Descriptive Log
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OVERBURDEN EXPLORATION SERVICES LTD
 REVERSE CIRCULATION DRILL HOLE LOG

DATE 02 18 1987 HOLE NO. SRE-87-58 LOCATION L78E; Str. 7+535
 GEOLOGIST ASK DRILLER DB BIT NO./FTG. 1000639 - New Bit
 SHIFT HOURS 7a TO 5p MOVE TO HOLE 9145 - 10:00 BIT NO./FTG. 0+110
 DRILLING 10:00 - 11:15 | 1:15 - 1:30 Pull Rods.
 MECHANICAL DOWN TIME _____
 TOTAL HOURS 10 DRILLING PROBLEMS _____
 OTHER _____
 MOVE TO NEXT HOLE 1130 - 1145

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 Depth | Graphic | Int | Sample | Descriptive Log | | | | | |
 (m) | Log | | No. | | | | | | | |
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0-4'. Organics.

4'-76'. LACUSTRINE SEDIMENTS / ESKER SANDS

4'-8'. very fine silt to silty clay, oxidized light brown
 8'-26'. fine brownish grey sand + silt in suspension. 26'. Thin very coarse sand + granules hor.
 26.5'-76'. stratified sand w coarser interbeds.

76'-100'. GRAVEL.

Very slow penetration w moderate to high return.
 Dominantly pebble to cobble gravel w 15% granules. 55-70% granitic cobbles, 30-40% intermediate to mafic pebbles + cobbles, 5% platy argillite w trace pyrite. Fine to medium sand matrix w 65/35% matrix-clast ratio.
 80'. less compact w finer clast size - dominantly very coarse sand to 2.0cm pebbles. Well rounded, spherical granitic, + platy, subrounded intermediate to mafic clasts. 55-60% granitic, 40-45% int. to mafic, + <5% argillite. Quick penetration w abundant return.
 89'. very compact gravel - slow penetration. similar lithologies as overlying unit.
 97'. 80% intermediate to mafic, 20% granitic material.

100'-110'. FRACTURED BEDROCK

100'-103'. very soft bedrock / regolith clay, soft, light greyish-green, non-gritty clay.

103'. fine grained intermediate to mafic volcanic w elongate + spherical clasts 1.0cm + greater in a medium grey matrix. H=4, clasts >5.5 light grey colored. Nil to moderately carbonatized. No visible sulphides. Andesite to Basalt lapilli Tuff / Flow Breccia?

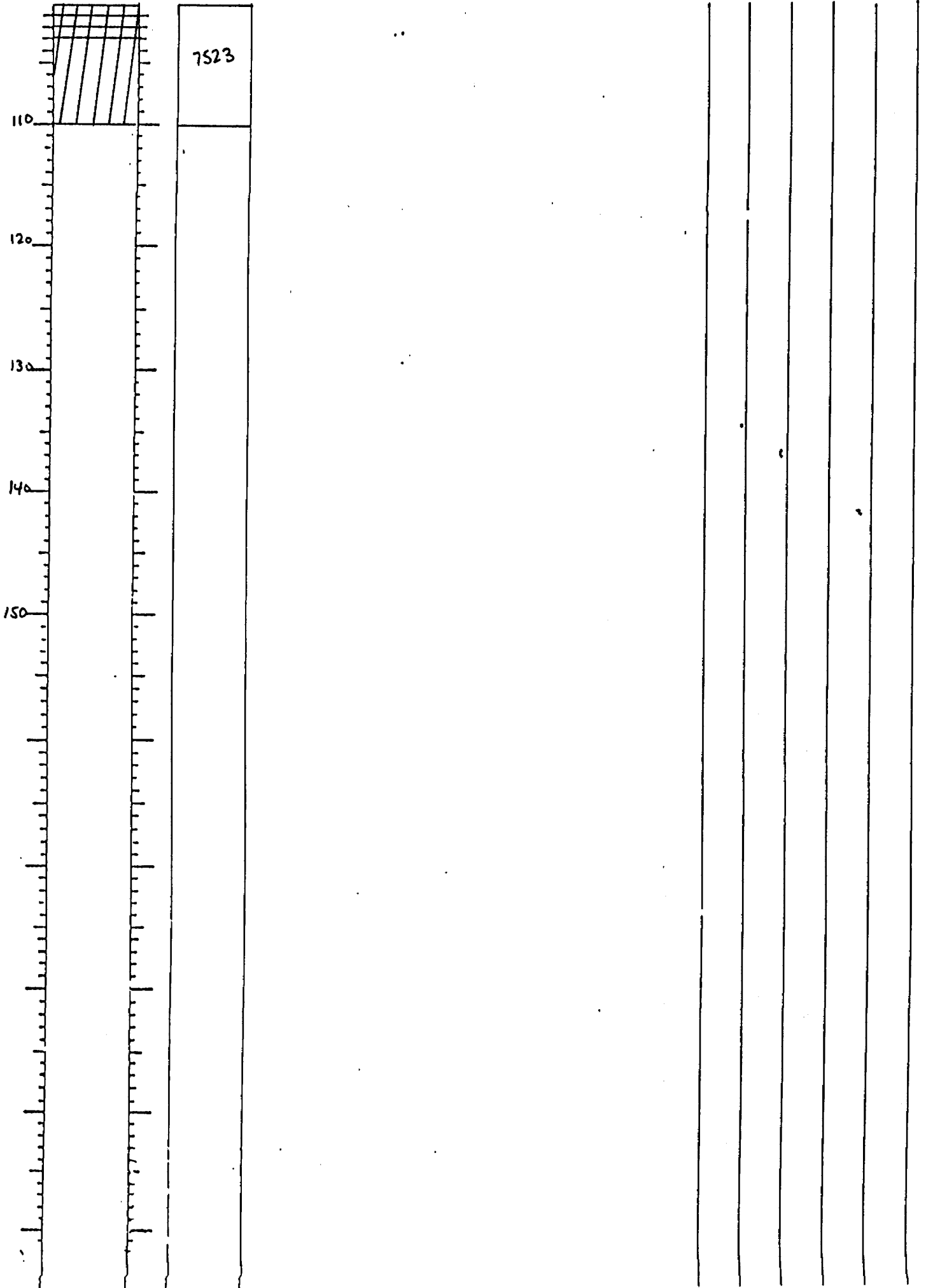
STOP AT 110'

7519
 7520
 7521
 7522
 7523

OVERBURDEN EXPLORATION SERVICES LTD
 REVERSE CIRCULATION DRILL HOLE LOG

DATE 02 18 1987 HOLE NO. SRE-87-58 LOCATION L78E; Sta. 7+535
 GEOLOGIST ASK DRILLER DB BIT NO./FTG. I000639
 SHIFT HOURS 7a TO 5p MOVE TO HOLE _____ BIT NO./FTG. 0+110'
 DRILLING _____
 MECHANICAL DOWN TIME _____
 TOTAL HOURS 10 DRILLING PROBLEMS _____
 OTHER _____
 MOVE TO NEXT HOLE _____

=====
 Depth | Graphic | Int | Sample | Descriptive Log | | | | | |
 (m) | Log | | No. | | | | | | |
 =====



OVERBURDEN EXPLORATION SERVICES LTD
 REVERSE CIRCULATION DRILL HOLE LOG

DATE 02-17-1987

HOLE NO. SRE-87-59 LOCATION L80E; Stn. 7+695

SHIFT HOURS
7a TO 5p

GEOLOGIST ASK DRILLER DB BIT NO./FTG. CB68716
 MOVE TO HOLE 3:30 - 3:45 BIT NO./FTG. 188' + 112' = 300'
 DRILLING 3:45 - 4:45 / 4:45 - 5:00 clean tanks

TOTAL HOURS
10

MECHANICAL DOWN TIME 7:30 - 9:30 Drill / 9:30 - 9:45 Pull Rod (02-18-87)
 DRILLING PROBLEMS _____
 OTHER _____
 MOVE TO NEXT HOLE 9:45 - 10:00 (02-18-87)

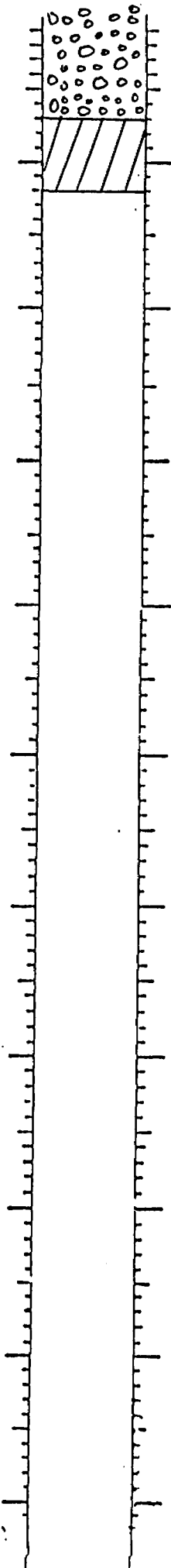
Depth (m)	Graphic Log	Int. Sample No.	Descriptive Log
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0-36'			<p>0-36'. ESKER SANDS.</p> <p>Dominantly very fine sand, light brownish grey. Medium to coarse sand at 32'.</p>
36'-50'			<p>36'-50'. GRAVEL.</p> <p>Variation in degree's of compaction. Fine granules to very coarse sand to 2.0cm pebbles. 85% granitic, 10-15% mafic, <5% limestone, quartz, & quartz. Fe. carbonate, jasper, and cherty material. Well rounded to rounded spherical clasts. Fine to coarse sand matrix, w a 75/25% matrix-clast ratio. 45' trace amounts of soft, brown, silty clay balls, <0.5cm in diameter.</p>
50-53.5'		7513	<p>50-53.5'. ESKER SAND</p> <p>Very fine, light brownish grey sand.</p>
53.5-62'		7514	<p>53.5-62'. GRAVEL</p> <p>Fine granule-type gravel similar to above w odd erratic granitic cobbles.</p>
62'-94'		7515	<p>62'-94'. SAND</p> <p>Fine brownish grey sand. Non-compact - very quick penetration. Minor silt.</p>
94'-107'		NO SAMPLE	<p>94'-107'. GRAVEL.</p> <p>Slow to moderate penetration w moderate return. 60% granitic material. 40% intermediate to mafic p-bbles. Granule to pebble clasts w several larger cobbles, well rounded, spherical. 85/15% matrix-clast ratio.</p>
107'-102'			<p>102' stratified gravel w varied compaction. 50-70% granitic, 30-50% intermediate to mafic well rounded, spherical <1.0cm pebbles.</p>
102'-105'			<p>105' larger clast size w 80% intermediate to mafic pebbles + 20% granitic material. Subrounded to subangular >1.0cm clasts. 70/30% matrix-clast ratio. Fine to coarse sand matrix.</p>
105'-100'		7516	

OVERBURDEN EXPLORATION SERVICES LTD.
 REVERSE CIRCULATION DRILL HOLE LOG

DATE 02.18.1987 HOLE NO. SRE-87-59 LOCATION L80E; Stn. 7+69S
 GEOLOGIST ASK DRILLER DB BIT NO./FTG. C868716
 SHIFT HOURS 7a TO 5p MOVE TO HOLE _____ BIT NO./FTG. 189; 112' = 300'
 DRILLING _____
 MECHANICAL DOWN TIME _____
 TOTAL HOURS 10 DRILLING PROBLEMS _____
 OTHER _____
 MOVE TO NEXT HOLE _____

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 Depth | Graphic | Int | Sample | Descriptive Log | | | | | |
 (m) | Log | | No. | | | | | | |
 =====



7516	107'-112'. BEDROCK
7517	Fine grained, foliated intermediate to mafic volcanic. Light to medium greyish-green H=3-4. Trace amounts of reddish brown Fe-staining, however, no visible sulphide mineralization. Weak to moderately carbonatized. Foliated Andesite to Basalt.?
7518	

STOP AT 112'

DATE 02 17 1987 HOLE NO. SRE-87-60 LOCATION L82E; Sta 8+325
 GEOLOGIST AJK DRILLER DB BIT NO./FTG. CB68716 - New Bit
 SHIFT HOURS 7a TO 5p MOVE TO HOLE 8:30 - 9:00 BIT NO./FTG. 0+188'
 DRILLING 9:00 - 3:00 / 3:00 - 3:30 Pull Rods
 MECHANICAL DOWN TIME _____
 TOTAL HOURS 10 DRILLING PROBLEMS _____
 OTHER _____
 MOVE TO NEXT HOLE 3:30 - 3:45

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 Depth | Graphic | Int | Sample | Descriptive Log | | | | | |
 (m) | Log | | No. | | | | | | |
 =====

	<p>0-1' Organics</p> <p>1'-38' ESKER SANDS</p> <p>Fine to coarse grey to light brown sand. Very good penetration. Non-compact.</p> <p>38'-76' GRAVEL</p> <p>Dominantly very coarse to granules w 10% 1.0cm clasts. 90% granitic material. 10% mafic, sub-rounded to rounded, spherical < 1.0cm pebbles. Fine sand matrix. 55/45: matrix-clast ratio.</p> <p>47'-50' fine greyish-brown sand.</p> <p>50' similar gravel as above w granules to pebble clasts. 80% granitic / 20% mafic subrounded to rounded, < 1.0cm clasts. Fine to coarse sand matrix. 62' similar gravel to above w fine sand interbeds.</p> <p>76'-109' SAND</p> <p>Very fine brownish-grey sand + silt in suspension. * RODS STICKING AT 87' - ATTEMPT to wash out sand.</p> <p>109'-123' GRAVEL</p> <p>109'-110.5' mafic volcanic boulder - fine grained dark green w no visible sulphides. Slow to moderate penetration w abundant returns. 70% intermediate to mafic pebble to cobble-sized boulders. 25% granitic material. 5% argillite. Fine to coarse sand matrix. 115.5-117' light green, fine grained intermediate volcanic boulder. 117-117.5' very coarse sand. 118.5'-121' intermediate volcanic boulder, fine grained to granular, weakly chloritized, H=5, w no visible sulphides.</p> <p>123'-130' TILL (DIAMICTON DEBRIS FLOW)</p> <p>90-95% hard, gritty, clay balls, medium grey, 0.5-1.0cm in diameter. Slow penetration. 5% subangular to subrounded mafic clasts. Medium sand - 10 returns. 124.5' grades into a silty to sandy clay, medium grey, moderately compact w trace clastic material.</p>	<p>NO SAMPLE</p> <p>7499</p> <p>NO SAMPLE</p> <p>7500</p> <p>7501</p> <p>NO SAMPLE</p>
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DATE 02/11/87 HOLE NO. SRE-87-60 LOCATION L82E ; Str. 8+325
 GEOLOGIST ASK DRILLER DB BIT NO./FTG. CB68716 - New Bit
 SHIFT HOURS 7a TO 5p MOVE TO HOLE 8:30 - 9:00 BIT NO./FTG. 0+188'
 DRILLING 9:00 - 3:00 | 3:00 - 3:30 Pull Rods
 MECHANICAL DOWN TIME _____
 TOTAL HOURS 10 DRILLING PROBLEMS _____
 OTHER _____
 MOVE TO NEXT HOLE 3:30 - 3:45

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 Depth | Graphic | Int | Sample | Descriptive Log | | | | | |
 (m) | Log | | No. | | | | | | | |
 =====

	<p>130' - 155' GRAVEL</p> <p>No SAMPLE</p> <p>7503</p> <p>7504</p> <p>7505</p> <p>No SAMPLE</p> <p>7506</p> <p>7507</p> <p>7508</p> <p>No SAMPLE</p> <p>7509</p> <p>7510</p> <p>7511</p> <p>7512</p>	<p>Very coarse sand to granule-type clasts, w̄ < 10%. 1.0cm sized pebbles. Well rounded to rounded, spherical 0.1 - 0.5 cm clasts. Fine to medium sand matrix. 70/30 matrix-clast ratio. 65-70% granitic, 25-30% mafic, 5% argillitic material. 137' becoming coarser w̄ clasts > 0.5 cm. Similar lithologies as above. 143'-144' fine grained, medium green intermediate volcanic boulder. 144'-144.5' thin light greyish-green silty clay horizon.</p> <p>155' - 158' LACUSTRINE TYPE SEDIMENTS. Fine silty clay, compact, light grey, non-gritty. Slow penetration.</p> <p>158' - 183' GRAVEL</p> <p>Slow to moderate penetration w̄ moderate return. 0.5 cm to cobble-sized clasts. 40-45% intermediate to mafic pebbles. 55% granitic material. < 5% argillite, quartz, feldspar porphyry and trace banded Fe. Mn. Rounded to subrounded spherical clasts. Fine to coarse sand matrix, w̄ a 60/40 matrix-clast ratio. Increase in granitic's from 65-70% at 166' 25-30% intermediate to mafic pebbles, + < 5% assorted clasts. Well rounded, spherical clastic material.</p> <p>183' - 188' BEDROCK</p> <p>Fine grained, dark greyish-green mafic volcanic. H=4, weakly carbonatized w̄ no visible sulphides. Thin light greenish grey clay seams at 185.5'. BASALT</p> <p>STOP AT 188'</p>								
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DATE 02 16 1987

HOLE NO. SRE-87-61 LOCATION LB4E; Sta. B+745

SHIFT HOURS
7a TO 5p

GEOLOGIST AJK DRILLER DB BIT NO./FTG. K000682
 MOVE TO HOLE 12145-1100 BIT NO./FTG. 184+149' = 333'

TOTAL HOURS
10

DRILLING 1100-4145 / 4145-5:00 clean tank
 MECHANICAL DOWN TIME 7:30-8:15 / 8:15-8:30 Pull Rods (02-17-87)
 DRILLING PROBLEMS _____
 OTHER _____
 MOVE TO NEXT HOLE 8:30-9:00

Depth (m)	Graphic Log	Int. Sample No.	Descriptive Log
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0-34'			ESKER SANDS Fine to medium sand w minor silt in suspension. Coarse sand interbeds.
34'-50'			GRAVEL Very quick penetration w abundant return. Non-compact fine granule gravel. Very coarse sand to 1.0cm pebbles. 80% granitic, 15% intermediate to mafic, 5% fossiliferous limestone, sandstone, feldspar porphyry (cherty black matrix) and cherty material. 70/30: matrix-clast ratio. Fine to medium sand matrix.
50'-72'			SAND Fine to medium sand w thin coarse sand to granule interbeds.
72'-109.5'		7486	GRAVEL Fine gravel to very coarse sand. Quick penetration w very high return. 70-80% granitic granules. 20-30% mafic, rounded, 0.5-1.5 cm pebbles. <5% syenite?, cherty material, limestone, siltstone + Jasper. Slower penetration at 83.5' w increase in clast size. Dominantly 1.0cm pebbles. 50/50: matrix-clast ratio. Dominantly medium to coarse sand - 10 returns.
109.5'-118'		7487	TILL 92' pebble to cobble-sized clasts. Very slow penetration. 60%-75% granitic, 25-40% intermediate to mafic rounded to subrounded >1.0cm pebbles. 99' dominantly granitic cobbles - coarse sand matrix w 55/45: matrix-clast ratio.
118'-114'		7488	Granitic Boulder followed by pebble to cobble sized clasts. 55-60% granitic; 35-40% intermediate to mafic; 5% argillite, quartz + limestone pebbles.
114'-110'		7489	TILL 20-40% medium grey, silty, 0.5-1.0cm h.g.cb's. Very compact, consolidated till. 40-60% angular to subangular, >1.0cm mafic clasts. <20% granitic granules to cobbles. Several mafic armoured clasts. Very fine to medium sand - 10 returns. 114' dominantly larger pebbles + cobbles w <10% hard, gritty, clay balls.
110'-108'		7490	
108'-106'		7491	

DATE 02 17 1987 HOLE NO. SRE-87-61 LOCATION W84E; Sth 8+745
 GEOLOGIST ASJ DRILLER DB BIT NO./FTG. K000682
 SHIFT HOURS 7a TO 5p MOVE TO HOLE _____ BIT NO./FTG. 184'+149'=333'
 DRILLING _____ MECHANICAL DOWN TIME _____
 TOTAL HOURS 10 DRILLING PROBLEMS _____
 OTHER _____
 MOVE TO NEXT HOLE _____

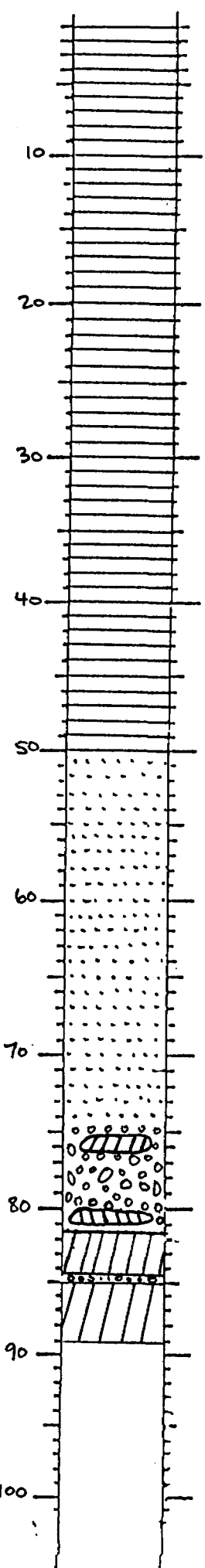
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 Depth | Graphic | Int | Sample | Descriptive Log | | | | | |
 (m) | Log | | No. | | | | | | |
 =====

	<p>7491 NO SAMPLE 118'-120'. LACUSTRINE-TYPE SEDIMENTS Soft, moderately compact, medium grey silty to sandy clay.</p> <p>7492 120'-130'. TILL (DIAMICTON DEBRIS FLOW)</p> <p>7493 NO SAMPLE 85-95% medium grey, moderately compact, sandy clay balls. 10% intermediate to mafic, subrounded to rounded, 1.0-1.5cm pebbles. <5% granitic pebbles to cobbles. 126'. 20-30% hgcb's, med. to dark grey, compact, 0.5cm in diameter. Dominantly angular to subangular mafic pebbles to cobbles + subangular, platy argillite.</p> <p>7494 7495 Feldspar porphyry cobbles at 129'. Trace granitic Medium to coarse sand -10 return.</p> <p>7496 130'-144'. GRAVEL</p> <p>7497 7498 Slow penetration w abundant return. Dim. granules to 2.0cm well rounded to rounded, spherical pebbles. 60-65% granitic; 35-40% intermediate to mafic material. Trace limestone and quartz. Medium to coarse sand -10 is a 70/30: matrix-clast ratio. 139'. 55-60% intermediate to mafic; 10% argillite; 30% granitic; <5% quartz, limestone, + diabase.</p> <p>144'-149'. BEDROCK</p> <p>Fine grained, chloritized, weakly foliated mafic volcanic. H= 2-3, medium to dark grey-green w no visible sulphides. BASALT?</p> <p style="text-align: center;">STOP AT 149'.</p>								
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OVERBURDEN EXPLORATION SERVICES LTD
 REVERSE CIRCULATION DRILL HOLE LOG

DATE 02 16 1987 HOLE NO. SRE-87-62 LOCATION L86E; Stn. 8+755
 GEOLOGIST AJK DRILLER JB BIT NO./FTG. K000682
 SHIFT HOURS 7a TO 5p MOVE TO HOLE 10:15-10:30 BIT NO./FTG. 95'+89'=184'
 DRILLING 10:30-12:30 | 12:30-12:45 Pull Rods
 MECHANICAL DOWN TIME _____
 TOTAL HOURS 10 DRILLING PROBLEMS _____
 OTHER _____
 MOVE TO NEXT HOLE 12:45-1:00

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 Depth | Graphic | Int | Sample | Descriptive Log | | | | | |
 (m) | Log | | No. | | | | | | |
 =====



0-1' Organics

1'-74' LACUSTRINE SEDIMENTS / ESKER SAND ?
 Fine, light to medium grey, soft, silty clay non-compact, non-gritty w fine silt in suspension. 18' clay w very fine sand + silt interbeds. 50' fine to med grained grey sand.

74'-85' GRAVEL
 Very slow penetration, moderate to abundant return - compact gravel. 65% granitic granules to larger pebbles. 35% intermediate to mafic rounded, >1.0 cm pebbles. <2% argillitic material. 2% of clastic material contains reddish brown Fe-staining. Trace amts. of organic material. 75'-76' Hornblende Granite boulder. 80'-81' dark green, fine grained to granular mafic volcanic boulder. 81.5'-84.5' Granitic boulder

85'-89' BEDROCK
 Fine grained, light to medium greyish-green intermediate volcanic. H= 5-5.5. Contains fine darker green chloritic blebs. No visible sulphides. Weakly carbonatized in areas. Andesite to Diacte.

STOP AT 89'.

7484

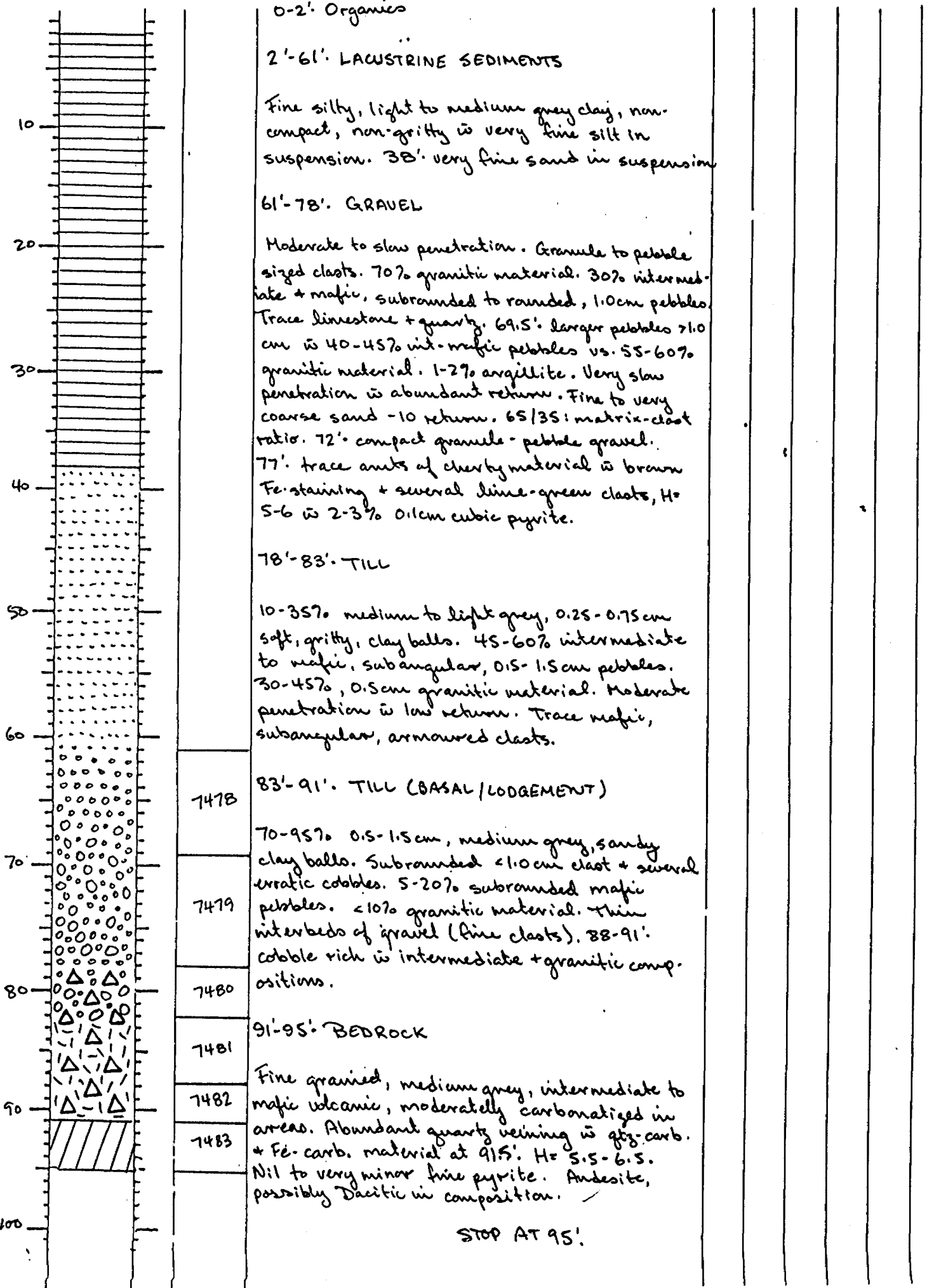
NO SAMPLE

7485

OVERBURDEN EXPLORATION SERVICES LTD
 REVERSE CIRCULATION DRILL HOLE LOG

DATE 02 16 19 87 HOLE NO. SRE-87-63 LOCATION LBBE; Sta. 8+635
 GEOLOGIST ASK DRILLER DB BIT NO./FTG. K0006B2 New Bit + Sub
 SHIFT HOURS 7a TO 5p MOVE TO HOLE _____ BIT NO./FTG. 0+95'
 DRILLING 7:30-10:00 | 10:00-10:15 Pull Rods
 MECHANICAL DOWN TIME _____
 TOTAL HOURS 10 DRILLING PROBLEMS _____
 OTHER 8:30-3:00 Attempt to start skidder (02-15-87)
 MOVE TO NEXT HOLE 10:15-10:30

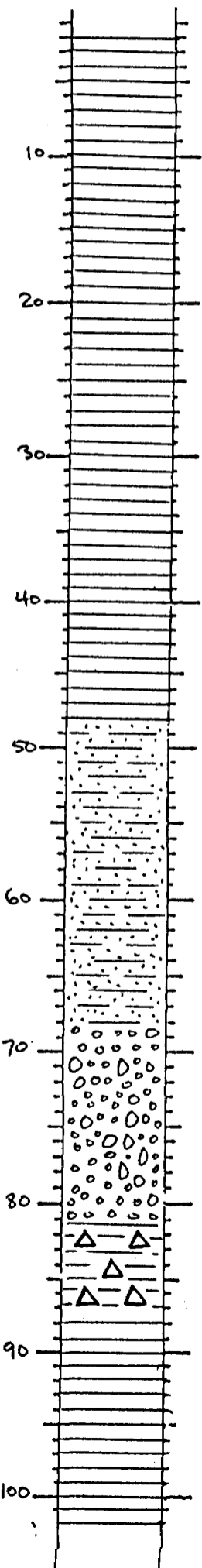
Depth | Graphic | Int | Sample | Descriptive Log | | | | | |
 (m) | Log | | No. | | | | | | |



**OVERBURDEN EXPLORATION SERVICES LTD
REVERSE CIRCULATION DRILL HOLE LOG**

DATE <u>02 13 1987</u>	HOLE NO. <u>SRE-87-64</u> LOCATION <u>L90E; Str. 8+625</u>
SHIFT HOURS <u>To 5p</u>	GEOLOGIST <u>ASK</u> DRILLER <u>DB</u> BIT NO./FTG. <u>CB68718</u>
TOTAL HOURS <u>10</u>	MOVE TO HOLE <u>11:15 - 11:30</u> BIT NO./FTG. <u>92+112'</u>
	DRILLING <u>11:30 - 4:00</u> / <u>4:00 - 4:15</u> Pull Rods
	MECHANICAL DOWN TIME _____
	DRILLING PROBLEMS _____
	OTHER _____
	MOVE TO NEXT HOLE <u>4:15 - 4:30</u>

Depth (m)	Graphic Log	Int Log	Sample No.	Descriptive Log
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0-2'. Organics

2'-68'. LACUSTRINE SEDIMENTS

Fine silty, grey clay, non-compact, soft, non-gritty w silt in suspension. 48' very fine sand to silt in suspension.

68'-81'. GRAVEL

Quick penetration w abundant return. Clasts are subrounded to rounded, spherical, <1.5cm in diameter. 55% granitic granules to 1.0cm pebbles. 40% intermediate to mafic, subrounded clasts. 5% argillite + greywacke, <1.0cm, rounded. Trace amt of well rounded diabase + quartz. Fine to coarse sand -10 w a 65/35 matrix-clast ratio. 77' more compact gravel w 75% intermediate to mafic volcanic / 25% granitic material.

81'-87'. TILL (DIAMILTON DEBRIS FLOW)

70-95% sandy to silty clay balls. Dominantly <1.0cm, rounded mafic clasts. 5-10% granitic granules to cobbles. Moderately compact w thin sandy units void of clastic material. Trace mafic subrounded, <1.0cm armoured clasts.

87'-118'. LACUSTRINE-TYPE SEDIMENTS

Medium grey, moderately compact sandy clay void of clastic material. 92' silty, med. grey clay, moderately compact w sand interbeds. Very compact at 103', less compact at 112'.

7472 118'-134'. GRAVEL

Moderate penetration w abundant return. 60-65% intermediate to mafic volcanic, subord, to subangular >1.0cm pebbles. 35-40% granitic granules to <1.0cm pebbles. 120-122' mafic volcanic boulder. Fine to coarse sand -10 return w a 75/25 matrix-clast ratio.

7473 122' thin clay seam followed by gravel.

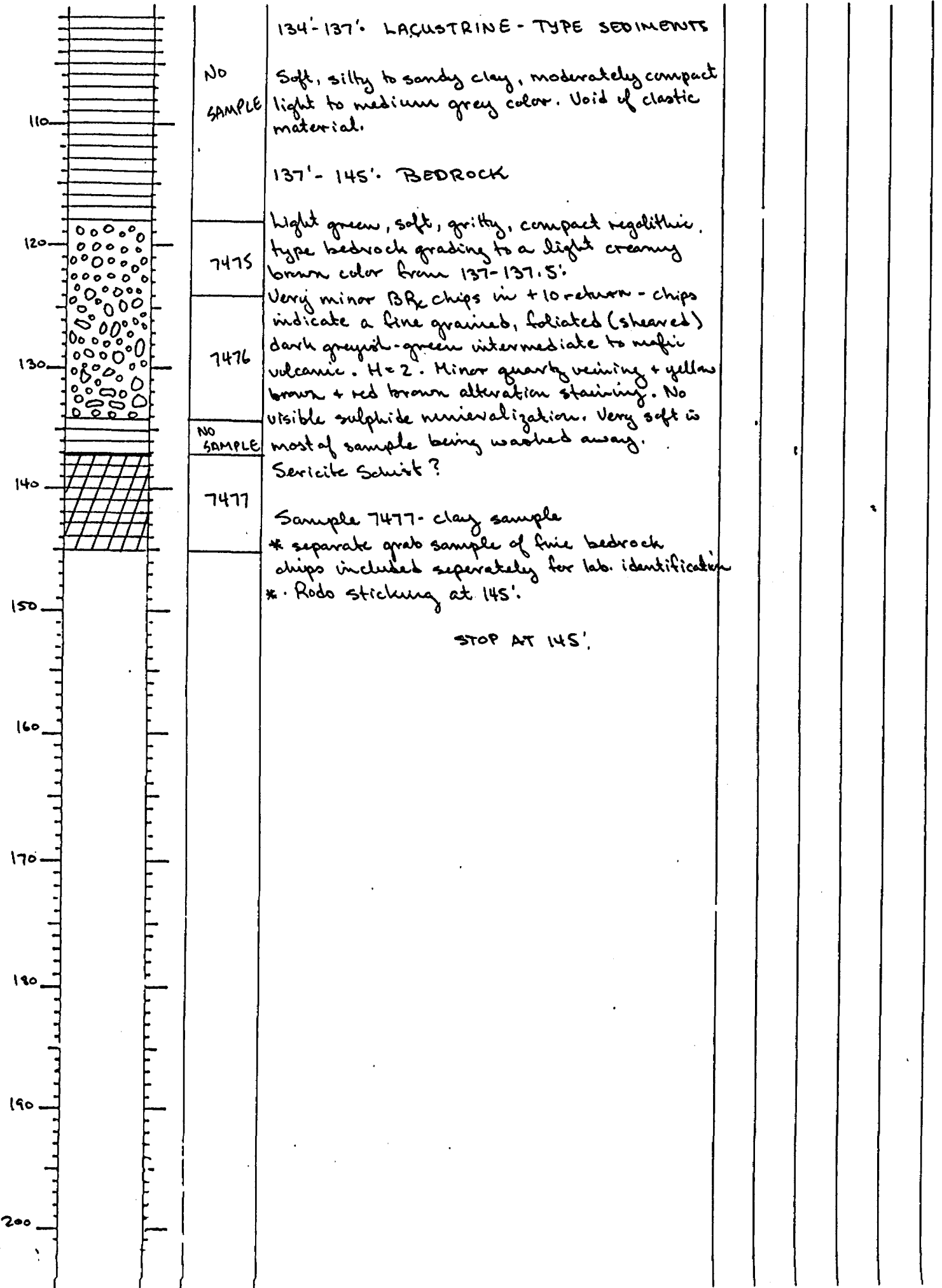
7474 >1.0cm, subrounded to rounded clasts. 60% granitic granules to cobbles, 40% intermediate to mafic >1.0cm. Slow to moderate penetration w abundant return - material washing in from the sides.

No SAMPLE

OVERBURDEN EXPLORATION SERVICES LTD
 REVERSE CIRCULATION DRILL HOLE LOG

DATE 02 13 1987 HOLE NO. SRE-B7-64 LOCATION L90E; Stn. 8+625
 GEOLOGIST ASK DRILLER DB BIT NO./FTG. C868718
 SHIFT HOURS 7a TO 5p MOVE TO HOLE _____ BIT NO./FTG. _____
 DRILLING _____
 MECHANICAL DOWN TIME _____
 TOTAL HOURS 10 DRILLING PROBLEMS _____
 OTHER _____
 MOVE TO NEXT HOLE _____

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 Depth | Graphic | Int | Sample | Descriptive Log | | | | | |
 (m) | Log | | No. | | | | | | |
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**OVERBURDEN EXPLORATION SERVICES LTD
REVERSE CIRCULATION DRILL HOLE LOG**

DATE <u>02 13 1987</u>	HOLE NO. <u>SRE-87-65</u>	LOCATION <u>L92E; Sta. 8+635</u>
SHIFT HOURS <u>7a TO 5p</u>	GEOLOGIST <u>AWK</u>	DRILLER <u>DB</u>
TOTAL HOURS <u>10</u>	MOVE TO HOLE <u>4:30-4:45</u>	BIT NO./FTG. <u>CB68718</u>
	DRILLING <u>7:45-11:00 11:00-11:15</u>	BIT NO./FTG. <u>92+112'=204'</u>
	MECHANICAL DOWN TIME _____	Pull Rods _____
	DRILLING PROBLEMS _____	
	OTHER _____	
	MOVE TO NEXT HOLE <u>11:15-11:30</u>	

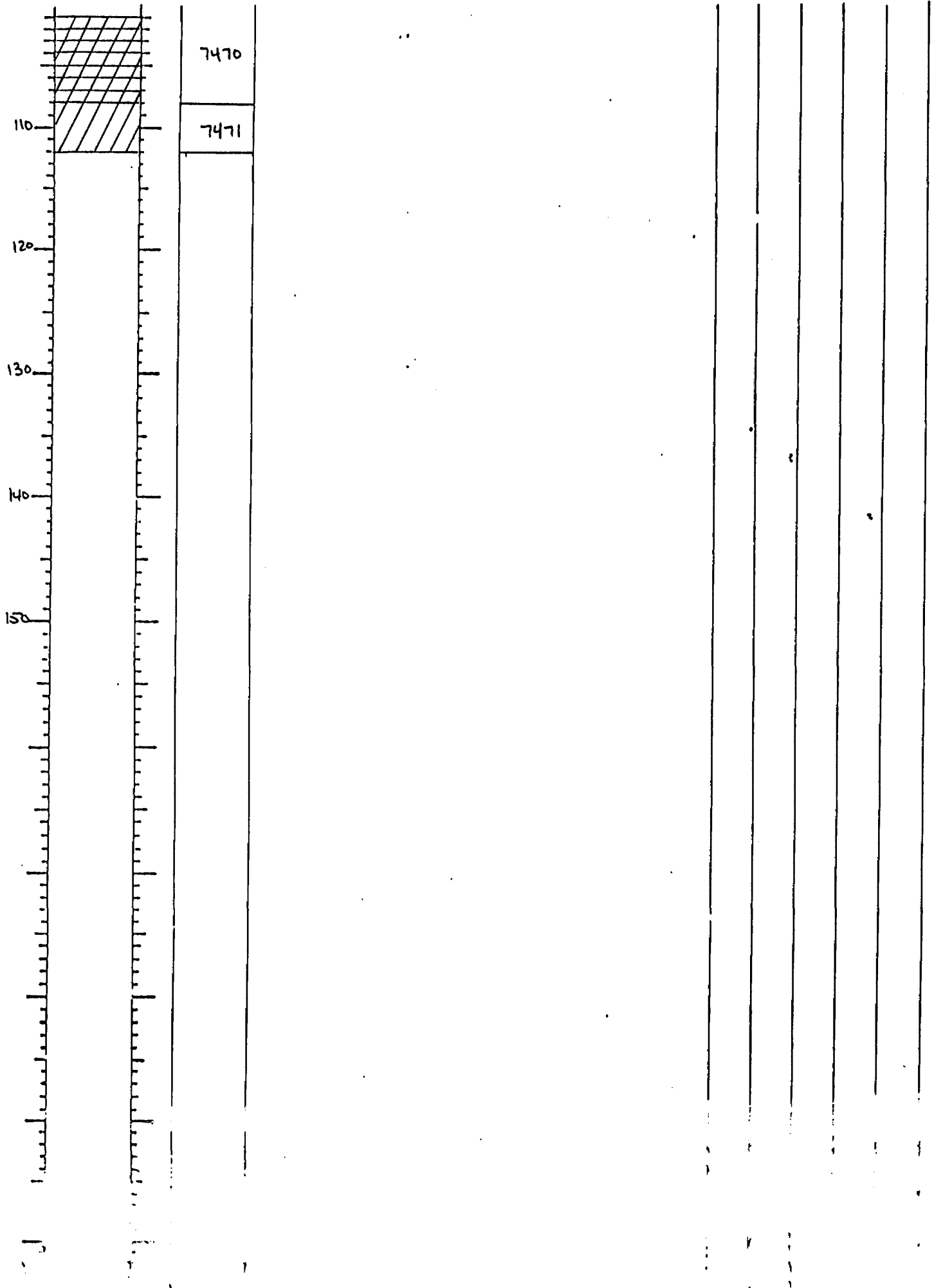
Depth (m)	Graphic Log	Int'l Sample No.	Descriptive Log
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0-2'			Organics
2'-44'			LACUSTRINE SEDIMENTS Fine silty clay, soft, non-compact, non-gritty w fine silt in suspension.
44'-71'			GRAVEL Very quick penetration w abundant return. non-compact gravel. Fine granule clasts to 1.5cm pebbles. 65-70% rounded granitic material. 30-35% rounded to subrounded intermediate to mafic pebbles. Trace quartz and argillite. 75/25: matrix-clast ratio. Fine to medium sand matrix. 60.5-62' fine grained, medium green intermediate to mafic volcanic boulder. 63'-71' dominantly fine gravel w 80% granitic / 20% intermed. to mafic volcanic granules to 1.0cm pebbles.
71'-75'			LACUSTRINE-TYPE CLAY
75'-100'			TILL (BASAL/LODGE)M? Similar sandy gravel to above w 5-10% clastic material ranging from 0.5-cobble sized clasts. 8% mafic, 2% granitic pebbles. Trace amounts of 1.0cm, subrounded armoured clasts. 80'-81' intermediate volcanic + diabase cobbles. 88'-89.5' granitic boulder. 92' dominantly granitic metasediment, intermediate to mafic volcanic cobbles. 98'-100' dark grey silty clay, very compact, void of clastic material. Resembles a lacustrine sediment.
100'-112'			BEDROCK light green colored grading into a yellow-brown regolithic clay w quartz veining. 103'-108' reddish brown - ochre colored clay w minor quartz veining, (regolithic hematite bed?) 108' dominantly quartz vein material within a grey to pitch-like host rock. H=2-3, fine grained, foliated, oxidized yellow-brown. Require Lab Examination for Identification
			STOP AT 112'

OVERBURDEN EXPLORATION SERVICES LTD
 REVERSE CIRCULATION DRILL HOLE LOG

DATE 02.13.1987 HOLE NO. SRE-87-65 LOCATION L92E; Stn. 8+635
 GEOLOGIST ASK DRILLER DB BIT NO./FTG. CB68718
 SHIFT HOURS 7a TO 5p MOVE TO HOLE _____ BIT NO./FTG. _____
 DRILLING _____
 MECHANICAL DOWN TIME _____
 TOTAL HOURS 10 DRILLING PROBLEMS _____
 OTHER _____
 MOVE TO NEXT HOLE _____

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 Depth | Graphic | Int | Sample | Descriptive Log | | | | | |
 (m) | Log | | No. | | | | | | |
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DATE 02 12 1987

HOLE NO. SRE-87-66 LOCATION L94E; Sln. B+945

SHIFT HOURS
7a TO 5p

GEOLOGIST AKK DRILLER DB BIT NO./FTG. CB6871B - New Bit

MOVE TO HOLE 1:30 - 1:45 BIT NO./FTG. 0+92-92'

DRILLING 1:45 - 4:15 / 4:15 - 4:30 Pull Rods

TOTAL HOURS
10

MECHANICAL DOWN TIME _____

DRILLING PROBLEMS _____

OTHER _____

MOVE TO NEXT HOLE 4:30 - 4:45

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 Depth | Graphic | Int | Sample | Descriptive Log | | | | | | | | | |
 (m) | Log | | No. | | | | | | | | | |
 =====

	<p>0-3'. Organics</p> <p>3'-20'. LACUSTRINE SEDIMENTS</p> <p>Light to medium grey, soft, silty clay, non-compact & non-gritty w/ very fine silt in suspension.</p> <p>20'-61'. GRAVEL</p> <p>Very quick penetration w/ abundant returns. 65-70% granitic granules to 1.5cm pebbles. 30-35% int.-mafic, subrounded 1.5cm clasts. <5% metasediment, diabase, quartz + quartz Fe-carbonate vein material. Fine to coarse sand matrix w/ 80/20: matrix-clast ratio.</p> <p>34'- slightly coarser gravel w/ pebbles >1.0cm.</p> <p>50'-51' light green int. volcanic w/ minute qtz. eyes + amygdules - appears dacitic in composition.</p> <p>52'-62' fine gravel w/ 0.25-1.0cm clasts + several erratic cobbles. 70% granitic/30% int.-to mafic material. 90/10: matrix-clast ratio w/ a fine to medium sand matrix.</p> <p>61'-72'. TILL (DIAMICTON DEBRIS FLOW?)</p> <p>Slow penetration w/ low return. 80-90% soft, gritty, clay balls, 0.5 to 1.0cm in diameter.</p> <p>66-67.5' dark grey to black, fine grained biotite schist boulder. Dominantly intermediate to mafic 0.25cm to pebble sized subrounded to subangular clasts. <5% granitic material. Trace 1.0cm subangular mafic armoured clasts. 70% greater concentration of int. volc. + granitic pebbles + cobbles.</p> <p>72'-86.5'. GRAVEL</p> <p>Grades into a gravel w/ <5% soft gritty clay balls. Pebble to cobble-sized clasts. 80% intermediate to mafic volcanic, 20% granitic material. Trace diabase, argillite and quartz. Reddish brown Fe-staining on all clasts.</p> <p>80'-81.5' till unit w/ 10% s.g.cb's, 30% pyrite granules, + 60% int.-mafic volcanic material.</p> <p>Grades back into a gravel similar to above. Trace yellowish-brown silty clay balls. 80% int.-mafic volcanic, 5% argillite, 15% granitic material.</p>	<p>7453</p> <p>7454</p> <p>7455</p> <p>7456</p> <p>7457</p> <p>7458</p> <p>7459</p> <p>7460</p> <p>7461</p> <p>7462</p>
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OVERBURDEN EXPLORATION SERVICES 'LT
 REVERSE CIRCULATION DRILL HOLE LOG

DATE 02 12 1987 HOLE NO. SRE-87-66 LOCATION L94E; Str. 8+945
 GEOLOGIST BJK DRILLER DB BIT NO./FTG. CB68718
 SHIFT HOURS 7a TO 5p MOVE TO HOLE _____ BIT NO./FTG. _____
 DRILLING _____
 MECHANICAL DOWN TIME _____
 TOTAL HOURS 10 DRILLING PROBLEMS _____
 OTHER _____
 MOVE TO NEXT HOLE _____

Depth (m)	Graphic Log	Interval Log	Sample No.	Descriptive Log					
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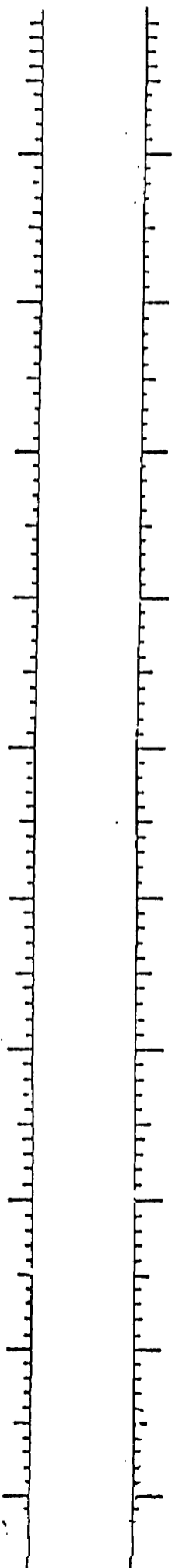
86.5' - 88.5'. REGOLITHIC CLAY

Yellow-brown clay, compact w fine rock fragments. Some material washing in from the top.

88.5' - 92'. BEDROCK.

Soft, foliated, fine grained, Fe-bearing rock. H=2, yellow-brown to reddish brown staining. Fine grained, medium to dark grey-green fresh surface. Ferruginous Schist?

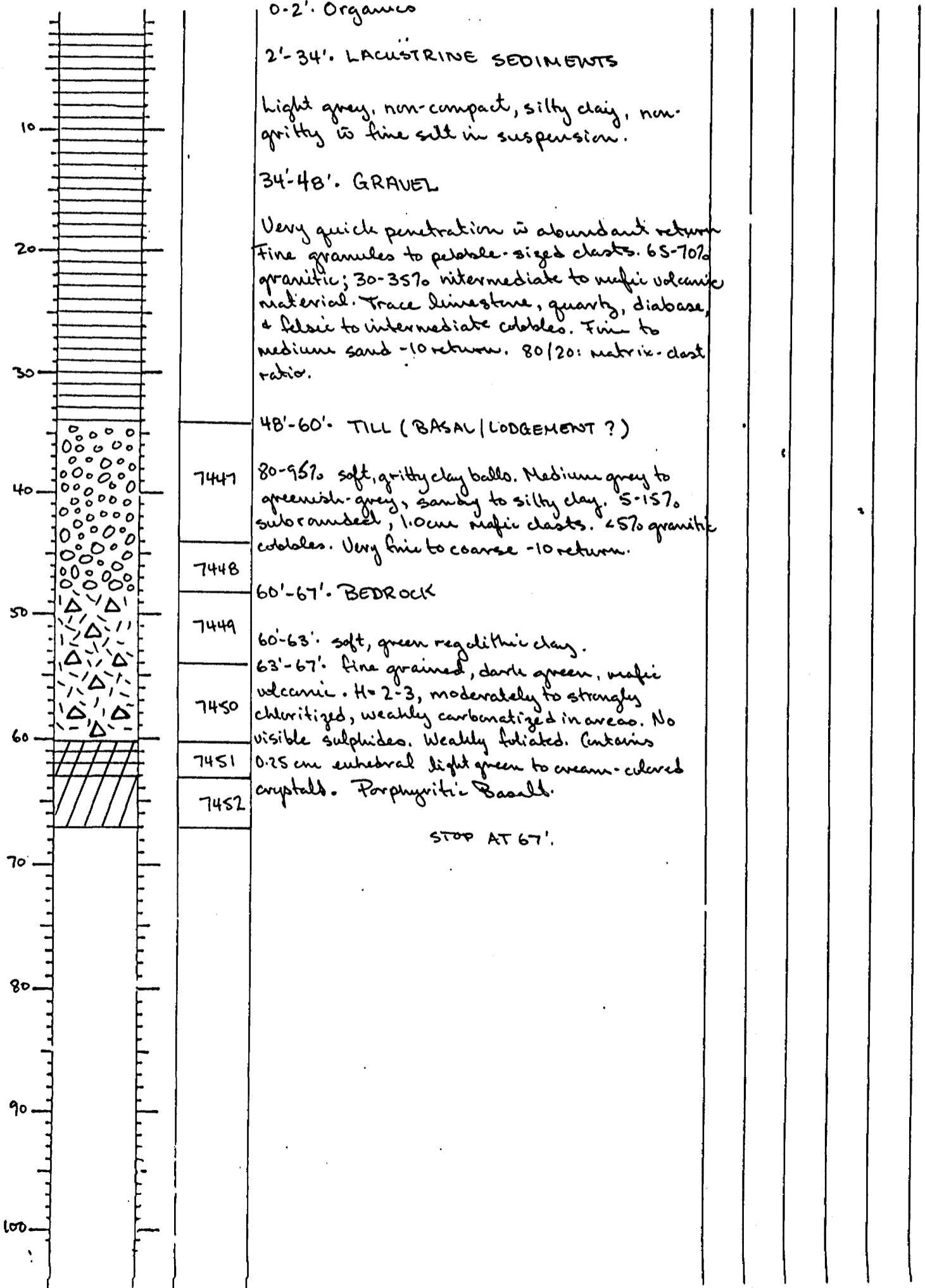
STOP AT 92'.



OVERBURDEN EXPLORATION SERVICES LTD
 REVERSE CIRCULATION DRILL HOLE LOG

DATE 02 12 1987 HOLE NO. SRE-87-67 LOCATION L96E; 8+80S
 GEOLOGIST ASK DRILLER DB BIT NO./FTG. 1000571
 SHIFT HOURS 7:00 Sp MOVE TO HOLE 11:30-11:45 BIT NO./FTG. _____
 DRILLING 11:45-11:15 | 11:15-1:30 Pull Rods
 MECHANICAL DOWN TIME _____
 TOTAL HOURS 10 DRILLING PROBLEMS _____
 OTHER _____
 MOVE TO NEXT HOLE 1:30-1:45

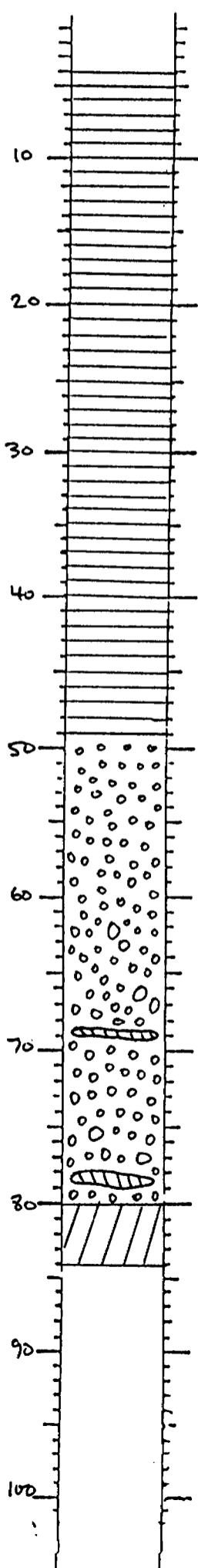
Depth | Graphic | Int | Sample | Descriptive Log | | | | | |
 (m) | Log | | No. | | | | | | |



OVERBURDEN EXPLORATION SERVICES LTD REVERSE CIRCULATION DRILL HOLE LOG

DATE <u>02 12 1987</u>	HOLE NO. <u>SRE-87-68</u>	LOCATION <u>LABE: Stn. 8+S25</u>	GEOLOGIST <u>AJK</u>	DRILLER <u>DB</u>	BIT NO./FTG. <u>3000571</u>
SHIFT HOURS <u>7:20 Sp</u>	MOVE TO HOLE <u>9:45-10:00</u>	DRILLING <u>10:00-11:45 / 11:15-11:30 Pull Rods</u>	MECHANICAL DOWN TIME _____	DRILLING PROBLEMS _____	OTHER _____
TOTAL HOURS <u>10</u>	MOVE TO NEXT HOLE <u>11:30-11:45</u>				

Depth (m)	Graphic Log	Int. Sample No.	Descriptive Log
-----------	-------------	-----------------	-----------------



0-4' Organics

4'-49' LACUSTRINE SEDIMENTS

Fine silty, grey, clay, non-compact, non-gritty, w fine silt in suspension.

49'-80' GRAVEL

Rapid penetration w abundant return. Fine granule gravel w <1.0cm pebbles. 65% granitics. 35% intermediate to mafic volcanic material - rounded to subrounded pebbles. Trace well-rounded limestone & platy argillite.

Fine to medium sand matrix w a 80/20: matrix clast ratio. 68.5'-69' fine to granular, black biotite schist boulder. 69' coarser gravel w pebbles to cobbles. 60% granitic + 40% intermediate to mafic clasts. 73'-74' granitic boulder. 75' finer gravel -> granules to 2.0cm pebbles. 78'-79' granitic boulder, followed by intermediate volcanic cobbles.

80'-84' BEDROCK

7442	Fine grained, light to medium green, weakly chloritized w very weak carbonate alteration, intermediate volcanic. H=4.5-5 Andesite.
7443	
7444	
7445	
7446	

STOP AT 84'

**OVERBURDEN EXPLORATION SERVICES LTD
REVERSE CIRCULATION DRILL HOLE LOG**

DATE <u>02 12 19 87</u>	HOLE NO. <u>SRE-87-69</u>	LOCATION <u>L100E ; 8+2BS.</u>
SHIFT HOURS <u>7a TO 5p</u>	GEOLOGIST <u>AKK</u>	DRILLER <u>DB</u>
TOTAL HOURS <u>10</u>	MOVE TO HOLE <u>4:15 - 4:30</u>	BIT NO./FTG. <u>1000571</u>
	DRILLING <u>7:30 - 9:30 / 9:30 - 9:45</u>	Pull Rods.
	MECHANICAL DOWN TIME	
	DRILLING PROBLEMS	
	OTHER	
	MOVE TO NEXT HOLE <u>9:45 - 10:00.</u>	

Depth (m)	Graphic Log	Int'l Sample No.	Descriptive Log
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0-3'			Organics
3'-39'			LACUSTRINE SEDIMENTS Soft, light grey, silty clay, non-compact, non-gritty. 24' fine silt in suspension.
39'-57'			GRAVEL Slow to moderate penetration w moderate to abundant return. Dominantly pebble sized gravel w smaller granule clasts. 60-65% granitic material. 35-40% vit. to mafic volcanic, subrounded to subangular pebbles. Trace limestone + argillite. Fine to medium sand -10 return w a 80/20: matrix-clast ratio.
57'-72'			TILL (DEBRIS FLOW-DIAMICTON?)
40-50'		7436	Fine silty to sandy clay, medium grey, moderately compact, light to medium grey-green colored. 90% clay balls; 8% intermediate volcanic cobbles; 2% granitic granules. Very fine to coarse sand -10 return.
50-62.5'		7437	61-62.5' granule-pebble gravel horizon w 45-50% granitic, + 40-45% intermediate to mafic pebbles. <10% clay balls.
62.5-72'		7438	62.5'-72' 90-95% light green sandy clay w 5-10% clastic material. Dominantly intermediate to mafic volcanics w <1% granitic material.
67'		7439	67' clay turning darker grey w <5% clastic material.
72'-79'		7440	LACUSTRINE-TYPE SEDIMENTS Medium grey-compact, silty clay void of clastic material. Non-gritty.
79'-84'		No SAMPLE	BEDROCK
79.5'		7441	Thin cap of medium green colored regolith clay. 79.5' fine grained, mafic volcanic, dark green to darker blue-green colored. H=2-3, minor brown, Fe-staining. Trace quartz stringers. BASALT
			STOP AT 84'

OVERBURDEN EXPLORATION SERVICES LTD
REVERSE CIRCULATION DRILL HOLE LOG

DATE 02 11 1987 HOLE NO. SRE-87-70 LOCATION L102E; Stn. 8+505
 GEOLOGIST AJK DRILLER DB BIT NO./FTG. T000571 - New Bit
 SHIFT HOURS 7 TO 5 MOVE TO HOLE 12:15 - 12:30 BIT NO./FTG. O+96'
 DRILLING 12:30 - 3:15 | 3:15 - 3:30 Pull Rods
 MECHANICAL DOWN TIME _____
 TOTAL HOURS 10 DRILLING PROBLEMS _____
 OTHER _____
 MOVE TO NEXT HOLE 4:15 - 4:30

=====
 Depth | Graphic | Int | Sample | Descriptive Log | | | | | | |
 (m) | Log | | No. | | | | | | | | |
 =====

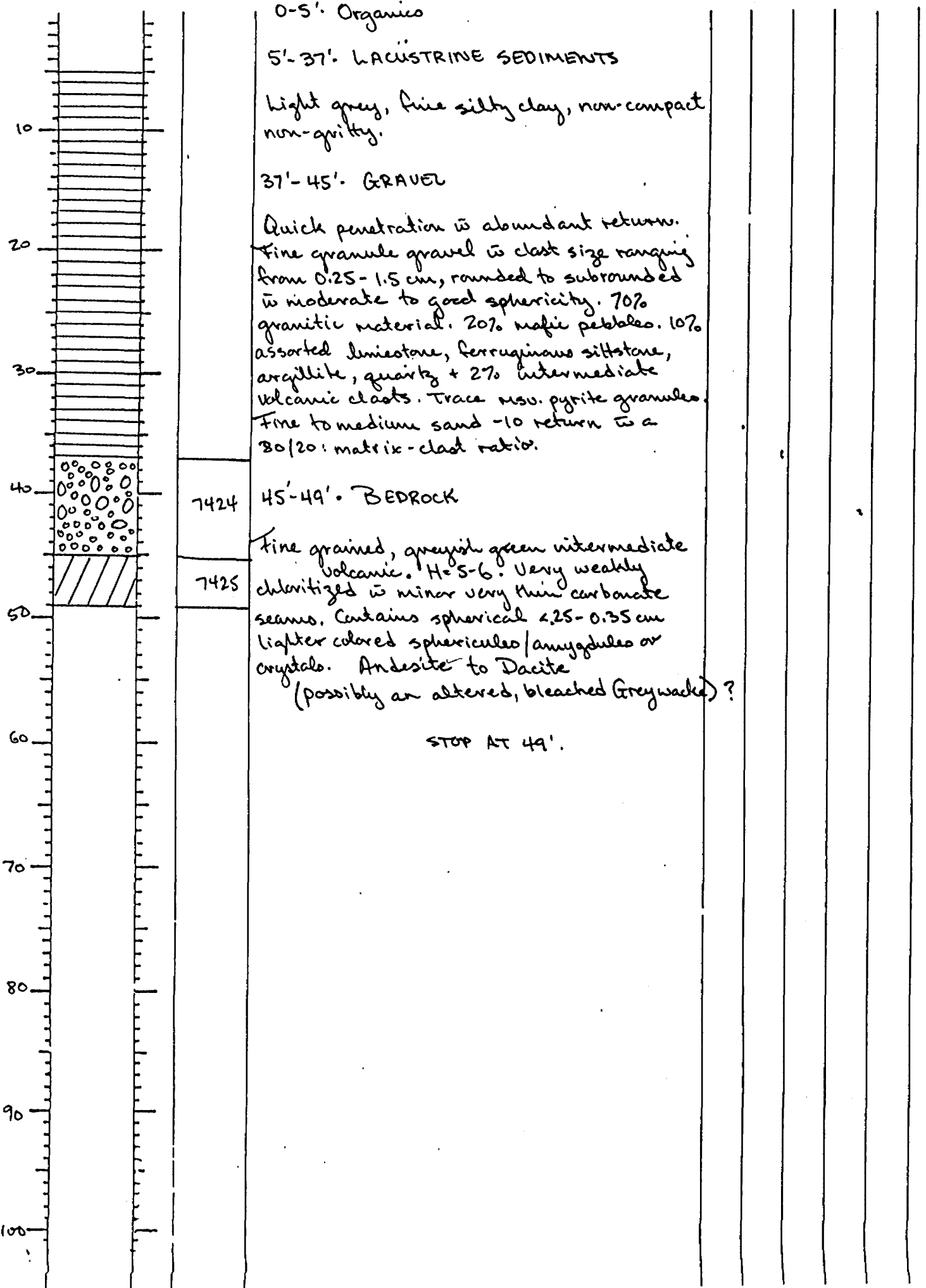
0-3'				Organics				
3-21.5'				LACUSTRINE SEDIMENTS				
10				Light grey, soft, non-compact, non-gritty silty clay.				
21.5-79'				GRAVEL				
20				Rapid penetration w moderate return. Fine granule-type sandy gravel, w clast size from 0.25 - 1.5 cm. 65% granitic material. 30% mafic subangular to rounded pebbles. 5% intermediate volcanic clast + 1-2% argillite. Dominantly fine to medium sand matrix w a 90/10: matrix-clast ratio. 34% 40-45% int-mafic pebbles, 55-60% granitic material.	7426			
30				51' trace soft + hard gritty, clay balls, medium grey + several mafic armoured clasts. 35% granitic, 65% intermediate to mafic volcanic material. Trace amt. of fuchsite. Compact w slow penetration + moderate return.	7427			
40				54-55' fine grained, light grey-green int. volcanic tuff boulder w tr. pyrite.	7428			
50				60' 75-80% int.-mafic vs. 20-25% granitic subangular to subrounded, 1.0 - 1.5 cm clasts.	7429			
55				67-68' intermediate ash tuff boulder.	7430			
60				68' 75% intermediate to mafic volcanic; 20% granitic granules to 1.5 cm pebbles; 5% quartz limestone, + cherty material.	7431			
70				70' dominantly granule to 1.0 cm pebbles. Fine to medium sand - 10 return. 55% int-mafic; 45% granitic material. 90/10: matrix-clast ratio.	7432			
80				79'-92' TILL (BASAL / LODGEMENT?)	7433			
85				60% silty to sandy clay balls w 40% < 1.0 cm subangular to rounded clasts. 82'-84' granitic boulder. 84' < 5% clay balls, 65% int. to mafic subangular 0.5 - 1.5 cm pebbles. 30% granitic granules. Very fine to coarse sand - 10 return	7434			
90				86' clay ball content increased to 55%. 45% angular mafic volcanic pebbles. 90' 80-90% sandy clay w mafic volcanic, > 1.0 cm, angular clasts.	7435			
92-96'				BEDROCK				
100				Fine grained, medium green int.-mafic volcanic or altered argillaceous greywacke? H = 4.5-5. Weakly chloritized + carbonatized. Weakly foliated w minor yellow-brown Fe-staining.				
				STOP AT 96'				

OVERBURDEN EXPLORATION SERVICES LTD
REVERSE CIRCULATION DRILL HOLE LOG

Page 1 of 1

DATE 11 02 1987 HOLE NO. SRE-87-71 LOCATION L104E; Sta. 8+32S
 GEOLOGIST ASK DRILLER DS BIT NO./FTG. 1000
 SHIFT HOURS 7a To 5p MOVE TO HOLE 10:45 - 11:00 BIT NO./FTG. 266 + 49' = 315'
 DRILLING 11:00 - 12:00 | 12:00 - 12:15 Pull Rods
 MECHANICAL DOWN TIME _____
 TOTAL HOURS 10 DRILLING PROBLEMS _____
 OTHER _____
 MOVE TO NEXT HOLE 12:15 - 12:30

Depth | Graphic | Int | Sample | Descriptive Log | | | | | |
 (m) | Log | | No. | | | | | | |



OVERBURDEN EXPLORATION SERVICES LTD
 REVERSE CIRCULATION DRILL HOLE LOG

Page 1 of 1

DATE 02 11 1987

HOLE NO. SRE-87-72 LOCATION W106E; Sta. 7+755

SHIFT HOURS

GEOLOGIST AJK DRILLER DB BIT NO./FTG. I000555

7a TO 5p

MOVE TO HOLE 12:00 - 4:30 BIT NO./FTG. 220+46 = 266'

TOTAL HOURS

DRILLING 9:45 - 10:30 / 10:30 - 10:45 Pull Rods

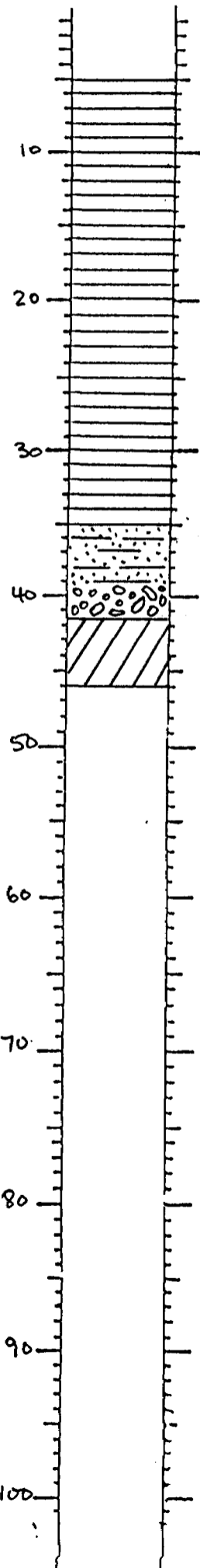
MECHANICAL DOWN TIME

DRILLING PROBLEMS Waterline frozen - 7:45 - 9:45

OTHER

MOVE TO NEXT HOLE 10:45 - 11:00

=====
 Depth | Graphic | Int | Sample | Descriptive Log | | | | | |
 (m) | Log | | No. | | | | | | |
 =====



0-5' Organic

5'-39' LACUSTRINE SEDIMENTS

light grey, soft, non-compact, silty clay.
 Non-gritty. No visible clasts. 35'-39'.
 very fine sand to silt.

39'-41.5' GRAVEL

Rapid penetration w abundant returns.
 Fine granule gravel w clasts not exceeding
 1.0 cm. 65% granitic, 30% mafic, 5%
 intermediate, argillite + quartz pebbles.
 Subangular to subrounded clasts. Fine
 sand matrix. 80/20: matrix-clast ratio.

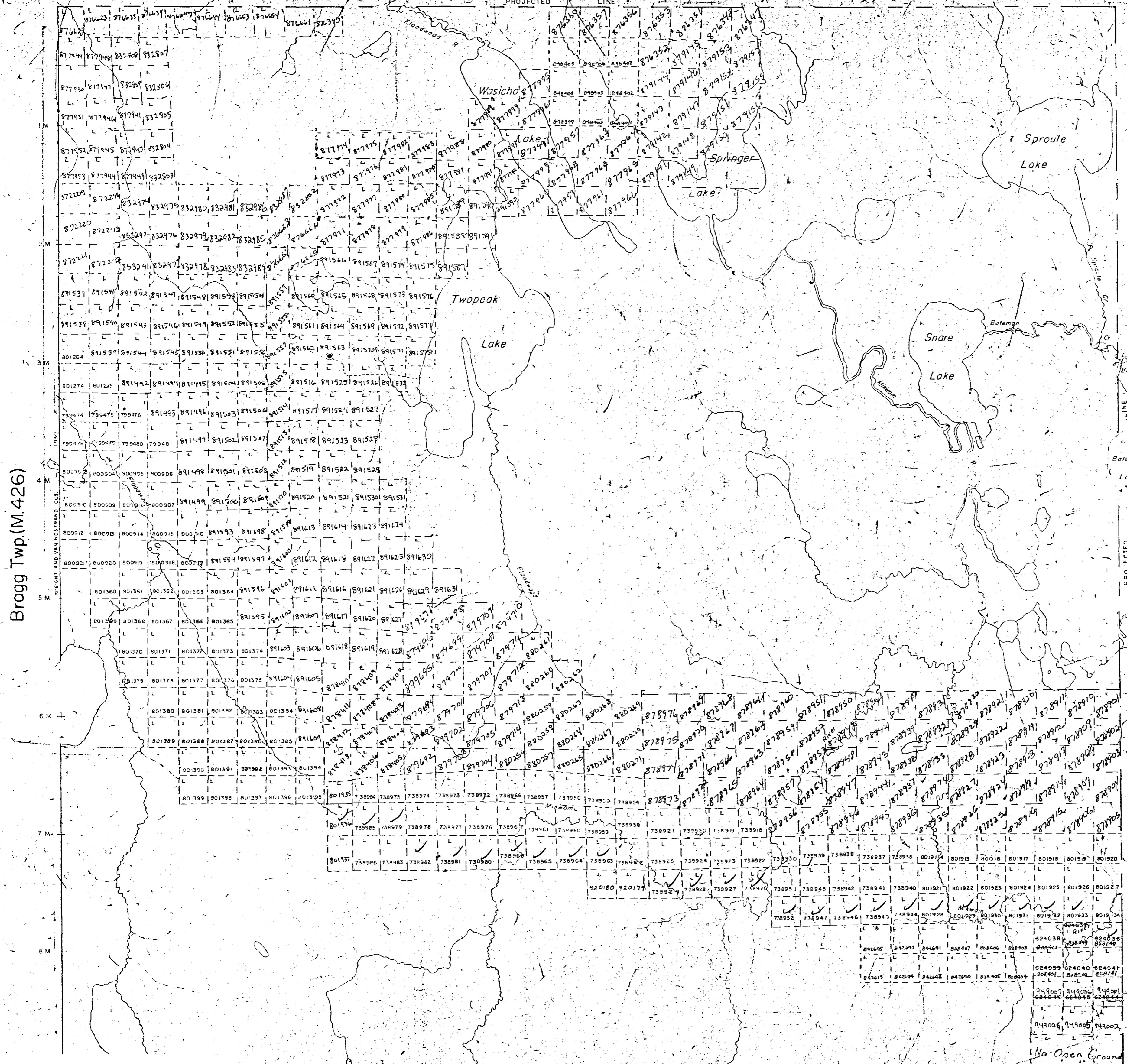
41.5'-46' BEDROCK

Soft, non-gritty, thin, medium green
 regolithic clay followed by bedrock.
 7422
 7423
 Fine grained, medium green, moderately
 chloritized, non-carbonatized intermediate
 to mafic volcanic. H=4, no visible sulphide
 mineralization. Trace yellow-brown Fe.
 staining. Andesite to Basalt (Calc-Alkaline)

STOP AT 46'

Blakelock Twp. (M.419)

PROJECTED LINE



Bragg Twp. (M.426)

Tomlinson Twp. (M.604)

THE TOWNSHIP OF

NEWMAN

DISTRICT OF COCHRANE

LARDER LAKE MINING DIVISION

SCALE: 1-INCH = 40 CHAINS

LEGEND

PATENTED LAND	⊕
CROWN LAND SALE	CS
LEASES	⊙
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	
CANCELLED	

NOTES

400' Surface Rights Reservation Around All Lakes & Rivers.

AREAS WITHDRAWN FROM DISPOSITION

S.R. - SURFACE RIGHTS M.R. - MINING RIGHTS

Description Order No. Date Disposition T.M.

DEC 11 1986

#2

PLAN NO. M.556

ONTARIO
MINISTRY OF NATURAL RESOURCES
SURVEYS AND MAPPING BRANCH



Hoblitzell Twp.(M.502)

PROJECTED LINE

THE TOWNSHIP OF

OF

TOMLINSON

DISTRICT OF COCHRANE

LARDER LAKE MINING DIVISION

SCALE: 1-INCH = 40 CHAINS

LEGEND

- PATENTED LAND Ⓟ
- CROWN LAND SALE C.S.
- LEASES Ⓞ
- LOCATED LAND Loc
- LICENSE OF OCCUPATION L.O.
- MINING RIGHTS ONLY M.R.O.
- SURFACE RIGHTS ONLY S.R.O.
- ROADS — — — — —
- IMPROVED ROADS = = = = =
- KING'S HIGHWAYS = = = = =
- RAILWAYS — + — + — + — + —
- POWER LINES — — — — —
- MARSH OR MUSKEG [Symbol]
- MINES [Symbol]
- CANCELLED X

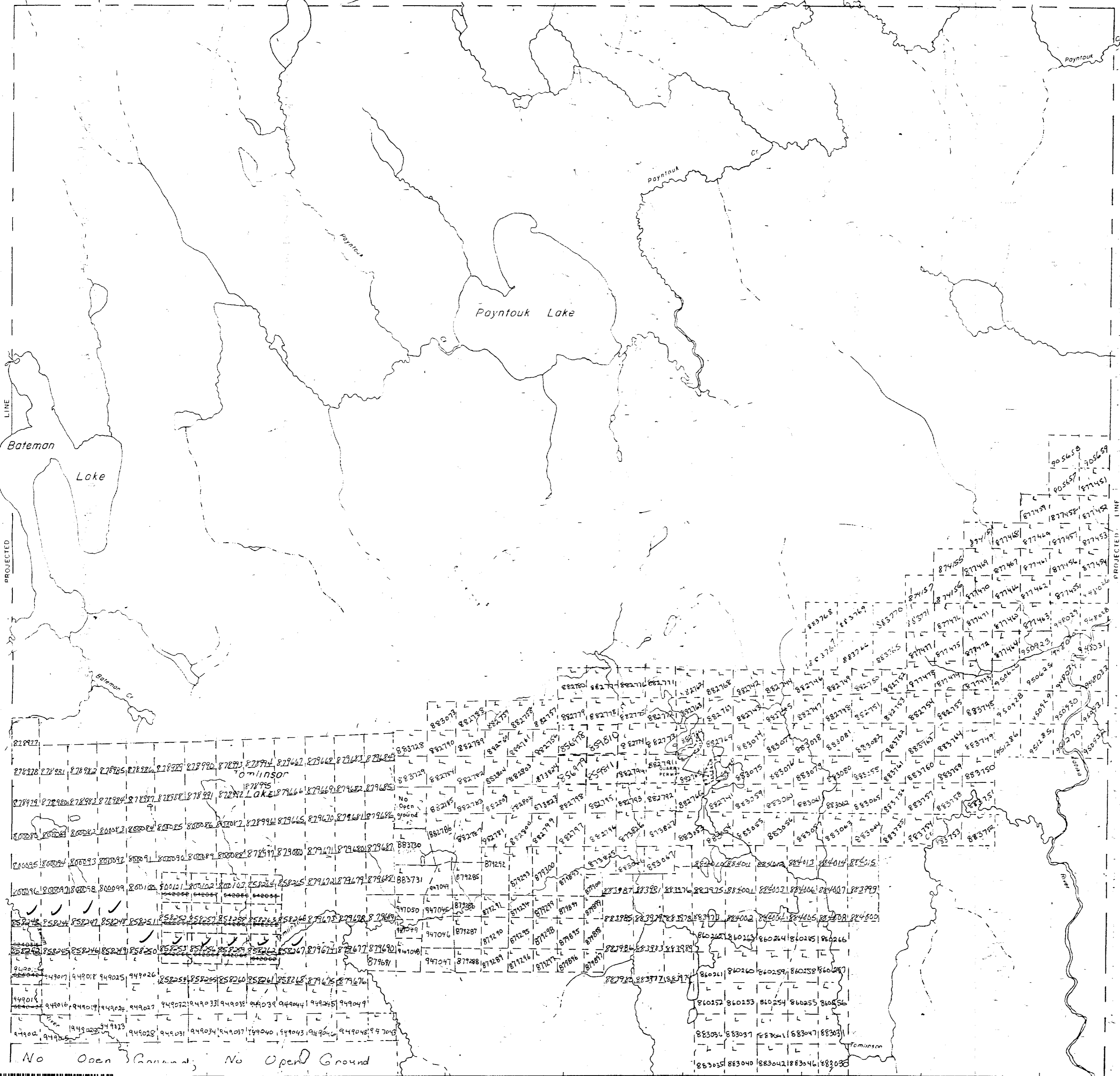
NOTES

400' Surface Rights Reservation Around All Lakes and Rivers

DATE OF ISSUE
 FEB 10 1951
 LARDER LAKE
 MINING RECORDER'S OFFICE

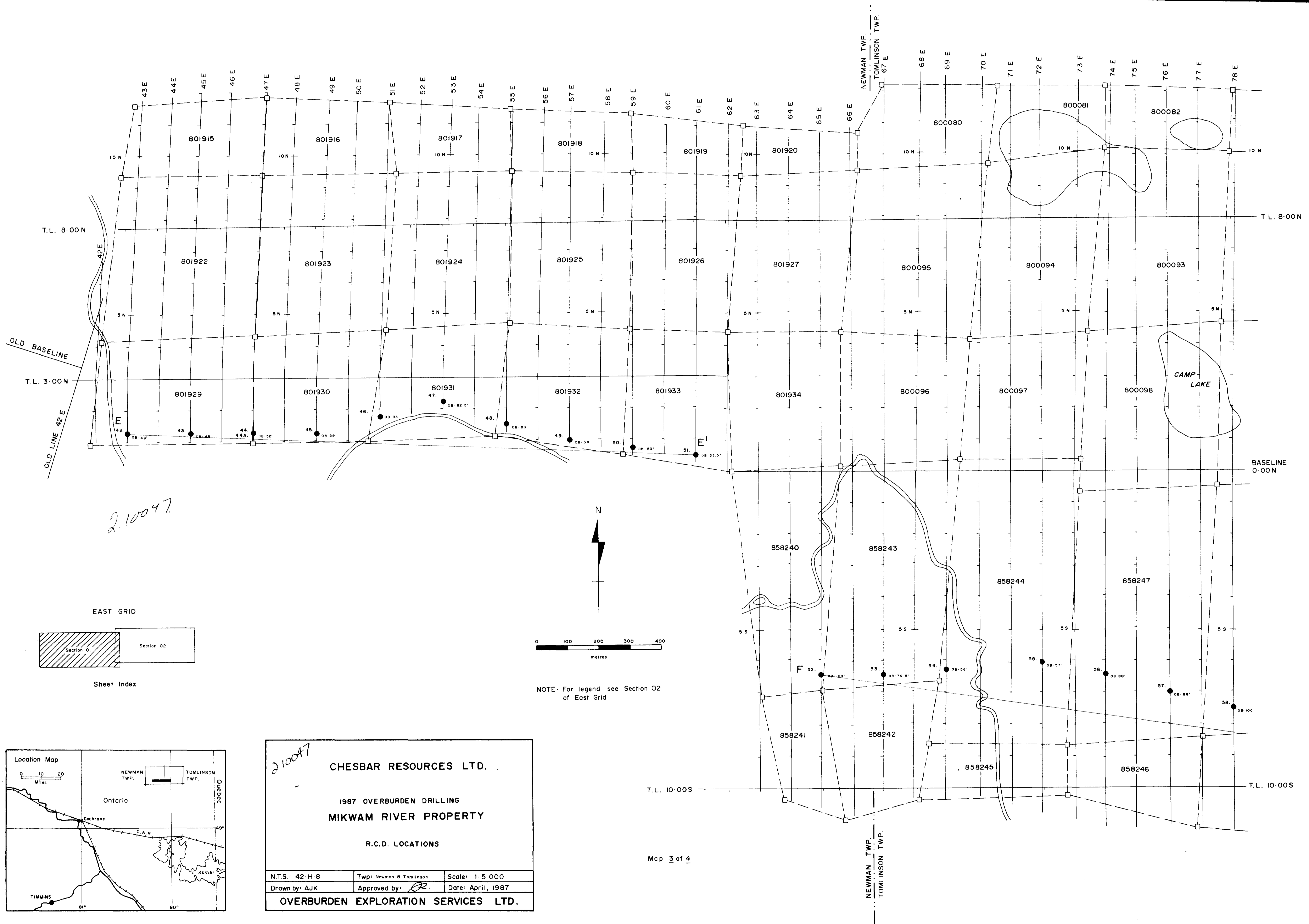
Newman Twp.(M.556)

Hurtubise Twp.(M.510)



No Open Ground No Open Ground

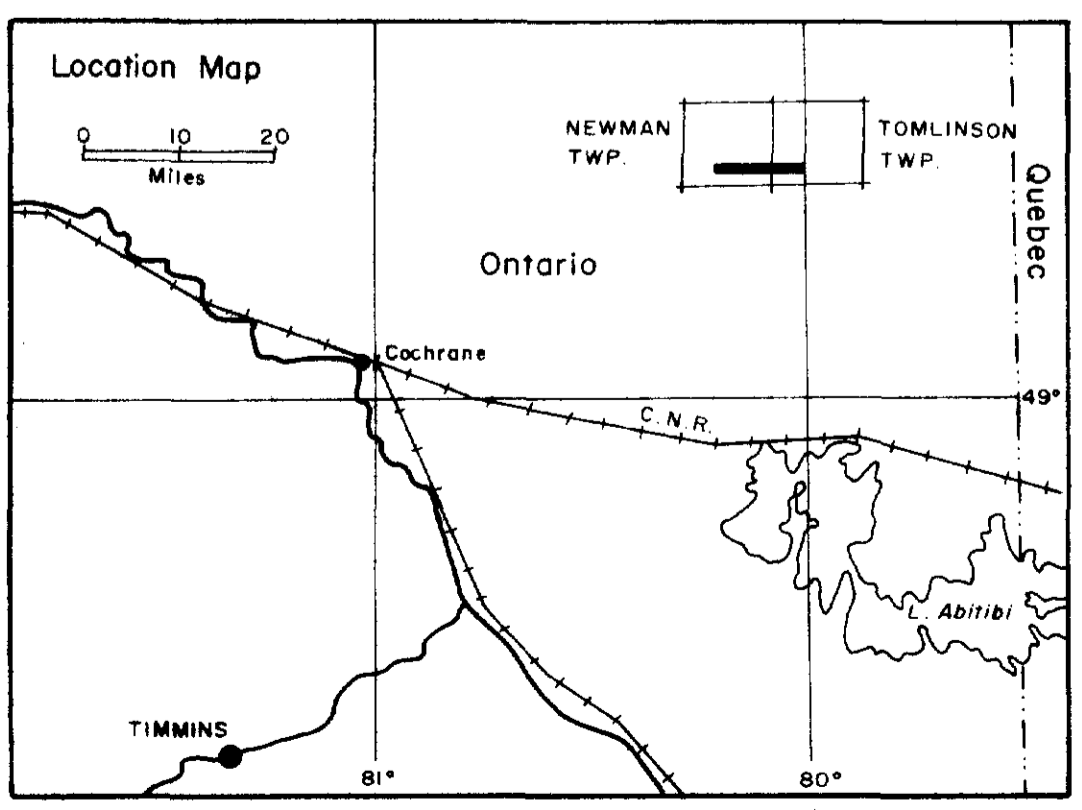
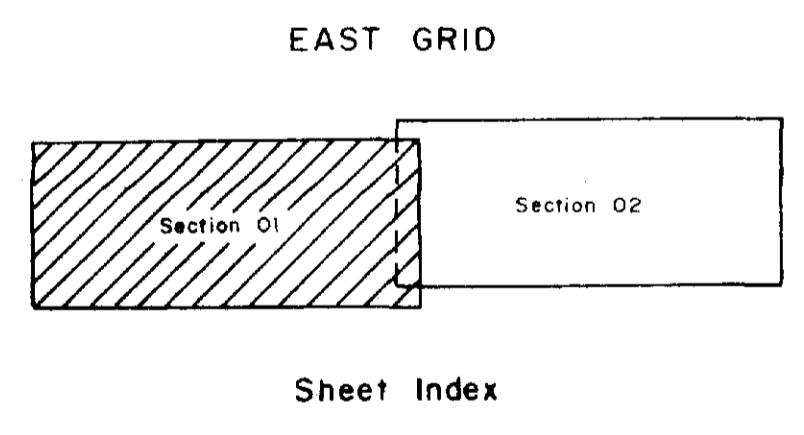




210047



NOTE: For legend see Section 02 of East Grid



210047

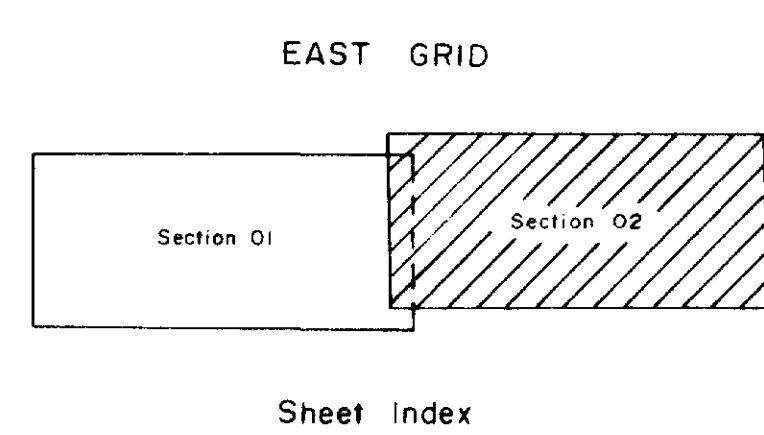
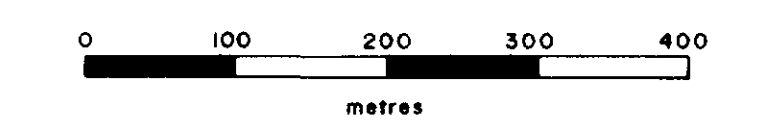
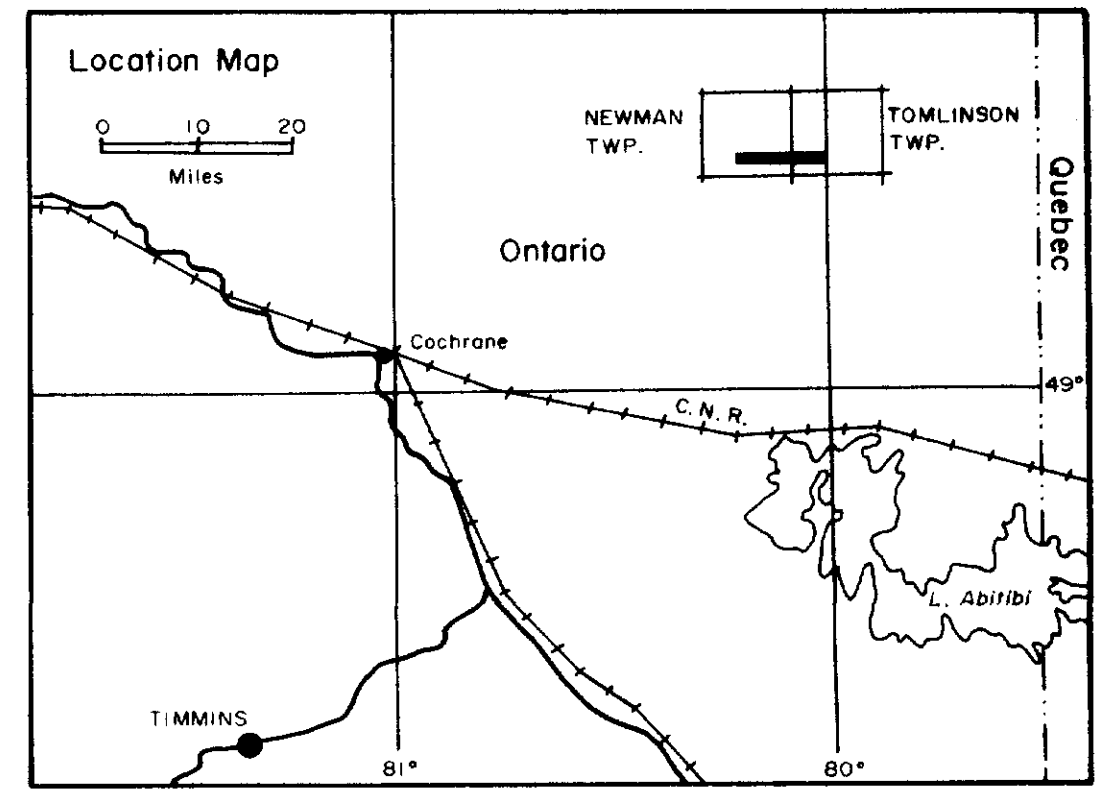
CHESBAR RESOURCES LTD.

1987 OVERBURDEN DRILLING
MIKWAM RIVER PROPERTY

R.C.D. LOCATIONS

N.T.S.: 42-H-8	Twp: Newman & Tomlinson	Scale: 1:5 000
Drawn by: AJK	Approved by: [Signature]	Date: April, 1987
OVERBURDEN EXPLORATION SERVICES LTD.		

Map 3 of 4



Map 4 of 4

LEGEND

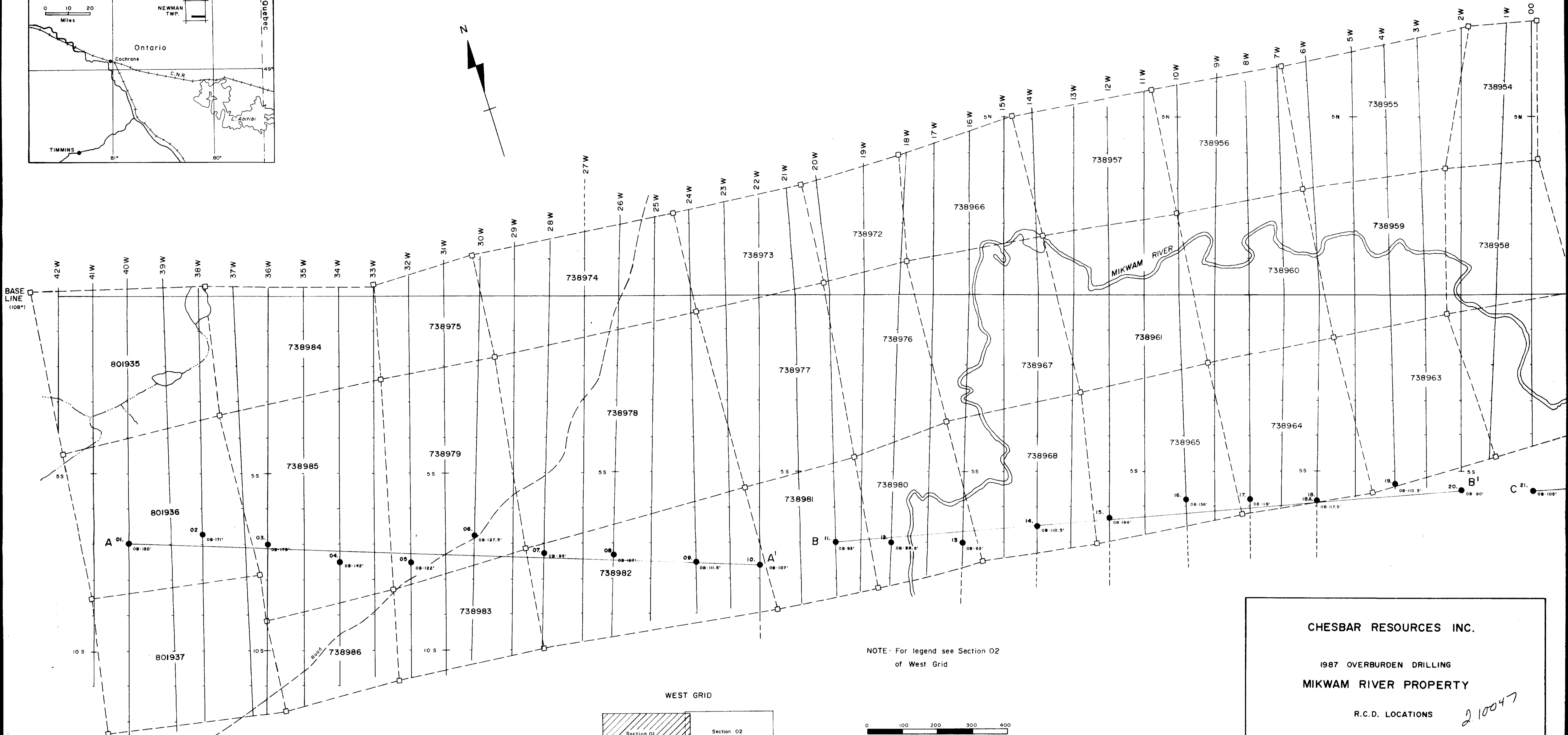
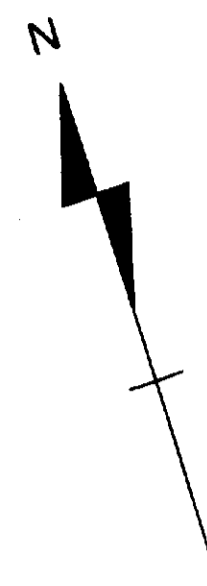
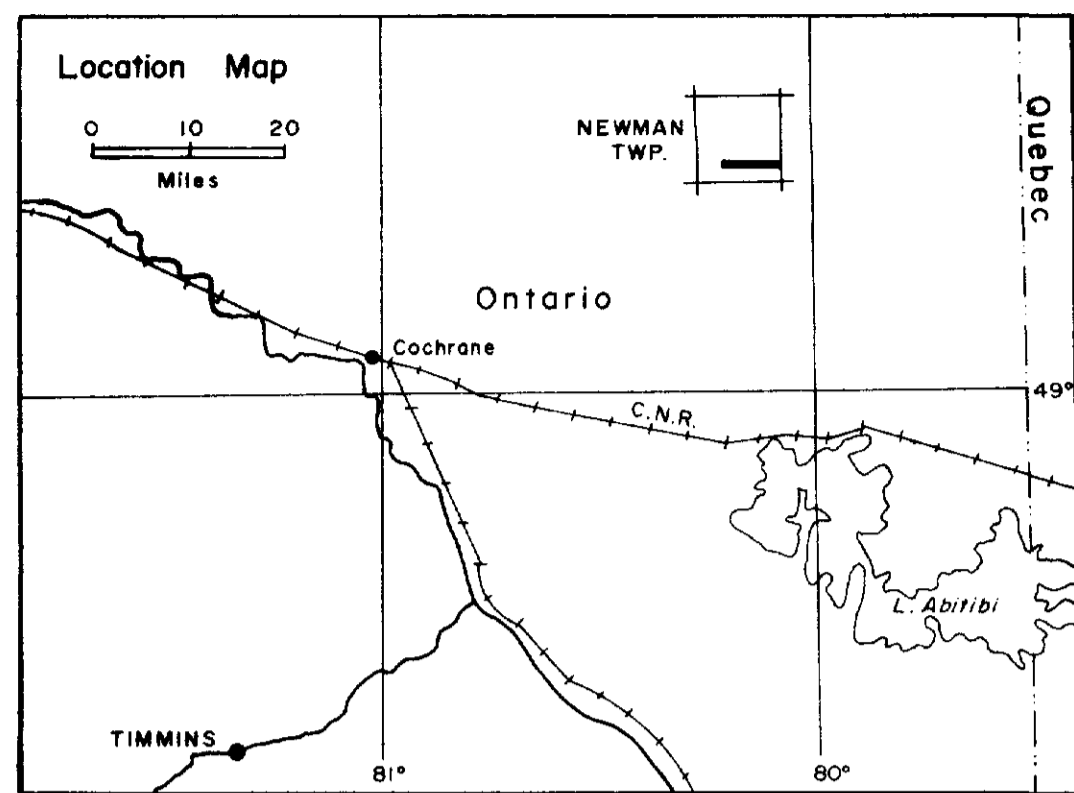
- Creek, stream
- River
- Claim post
- Claim line
- Grid line
- Township line
- R.C.D. Hole (SRE 87-01)

CHESBAR RESOURCES LTD.

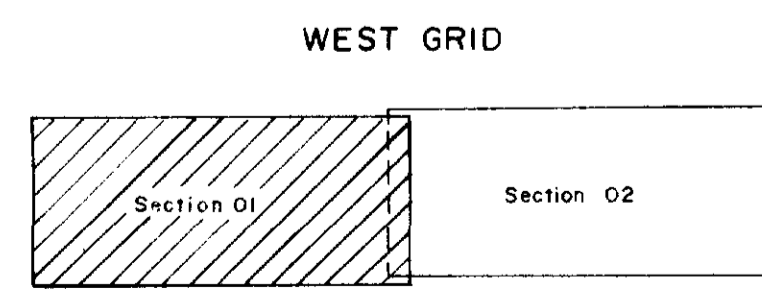
1987 OVERBURDEN DRILLING
MIKWAM RIVER PROPERTY

R.C.D. LOCATIONS 210047

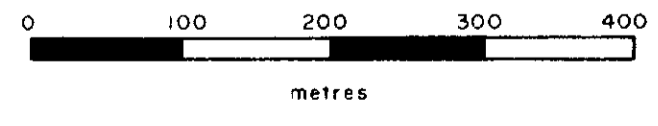
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Drawn by: AJK	Approved by:	Date: April, 1987
OVERBURDEN EXPLORATION SERVICES LTD.		



NOTE: For legend see Section 02 of West Grid



Sheet Index



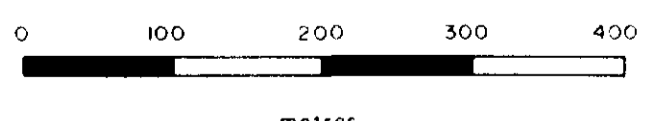
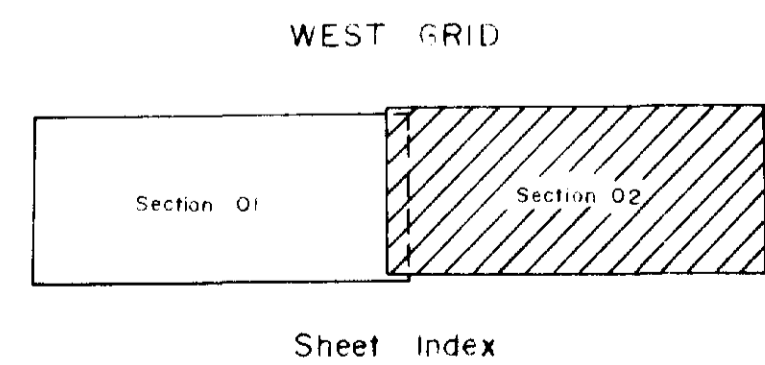
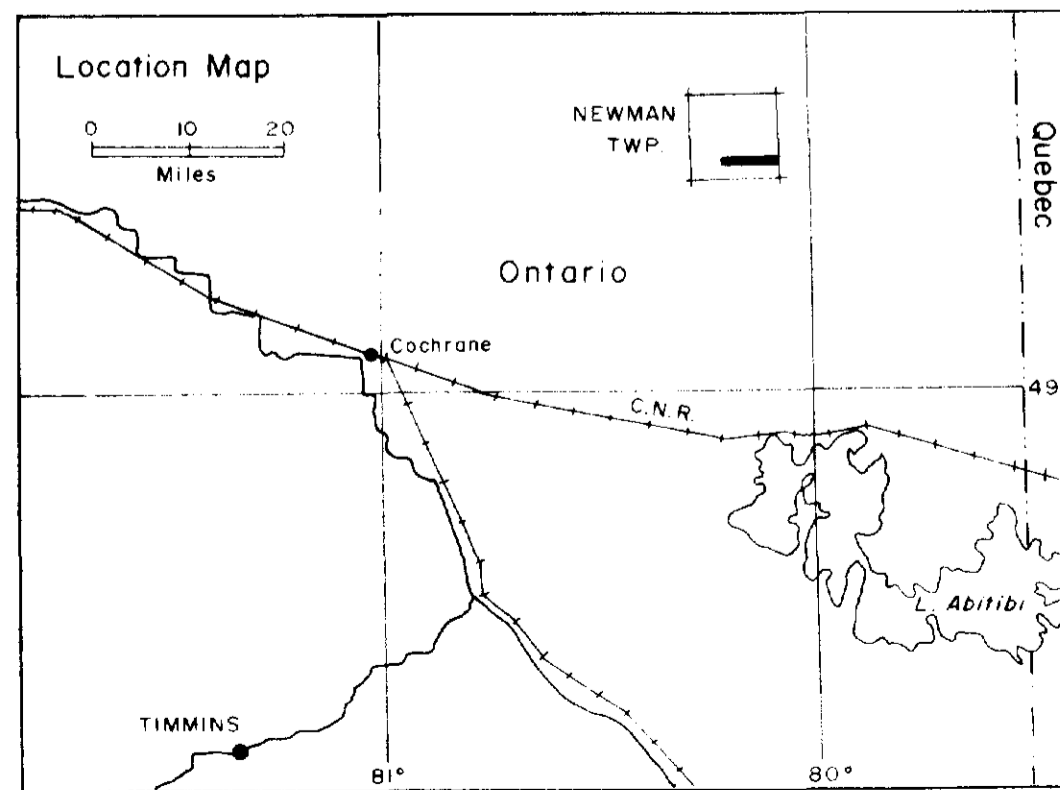
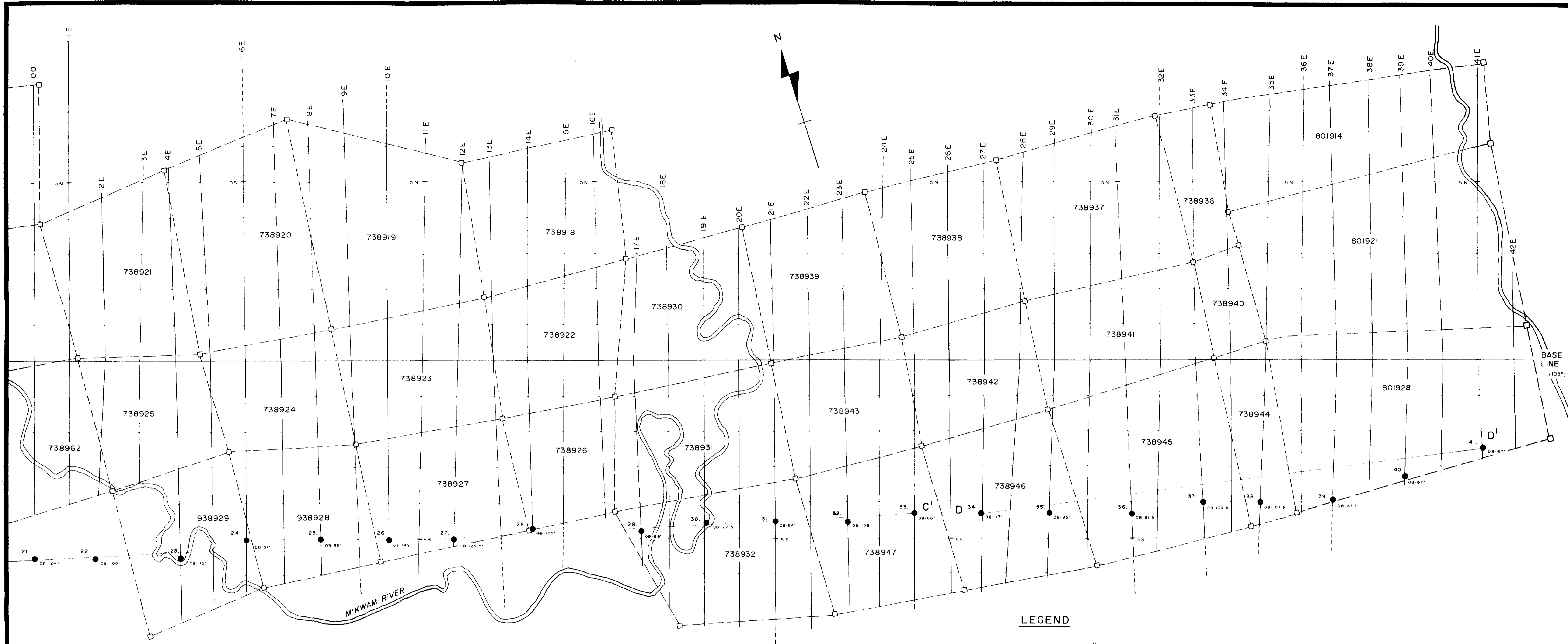
Map 1 of 4

CHESBAR RESOURCES INC.

1987 OVERBURDEN DRILLING
MIKWAM RIVER PROPERTY

R.C.D. LOCATIONS 210047

N.T.S.: 42-H-8	Twp.: Newman & Tomlinson	Scale: 1:5 000
Drawn by: AJK	Approved by:	Date: April, 1987
OVERBURDEN EXPLORATION SERVICES LTD.		



Map 2 of 4

LEGEND

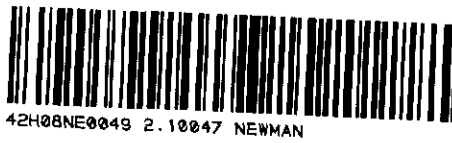
- Creek, stream
- River
- Claim post
- Claim line
- Grid line
- Township line
- R.C.D. Hole (SRE 87-01)

CHESBAR RESOURCES INC.

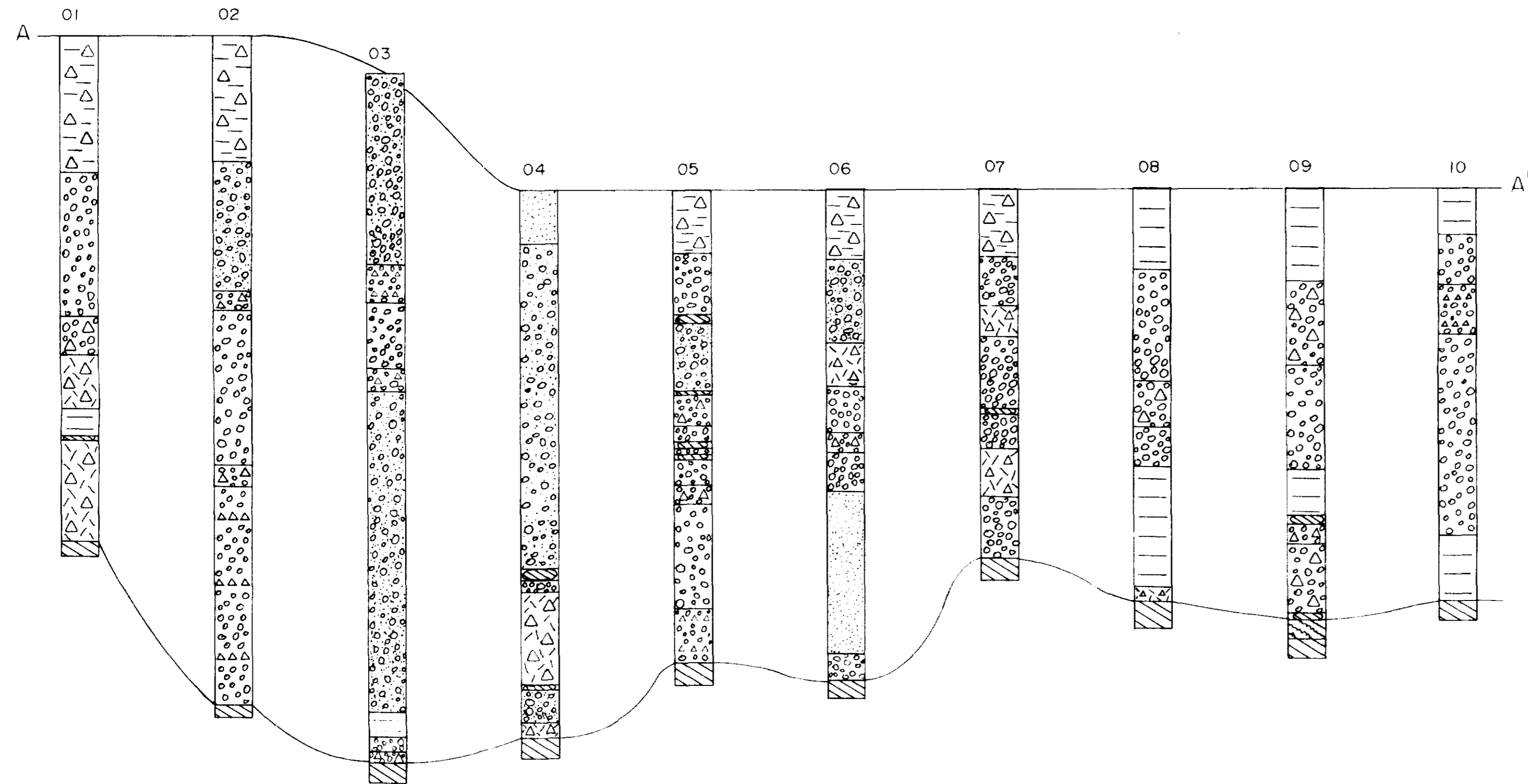
1987 OVERBURDEN DRILLING
MIKWAM RIVER PROPERTY

R.C.D. LOCATIONS 2.10047

N.T.S.: 42-H-8	Twp.: Newman & Tomlinson	Scale: 1:5 000
Drawn by: AJK	Approved by:	Date: April, 1987
OVERBURDEN EXPLORATION SERVICES LTD.		



212047



CHESBAR RESOURCES INC.

**1987 OVERBURDEN DRILLING
MIKWAM RIVER PROPERTY**

OVERBURDEN PROFILE A-A'

N.T.S. 42 H-8	Twp: Tomlinson/Newman	Scale: 1:1000
Drawn by: R.Z.	Approved by: J.R.	Date: April 87

OVERBURDEN EXPLORATION SERVICES INC.

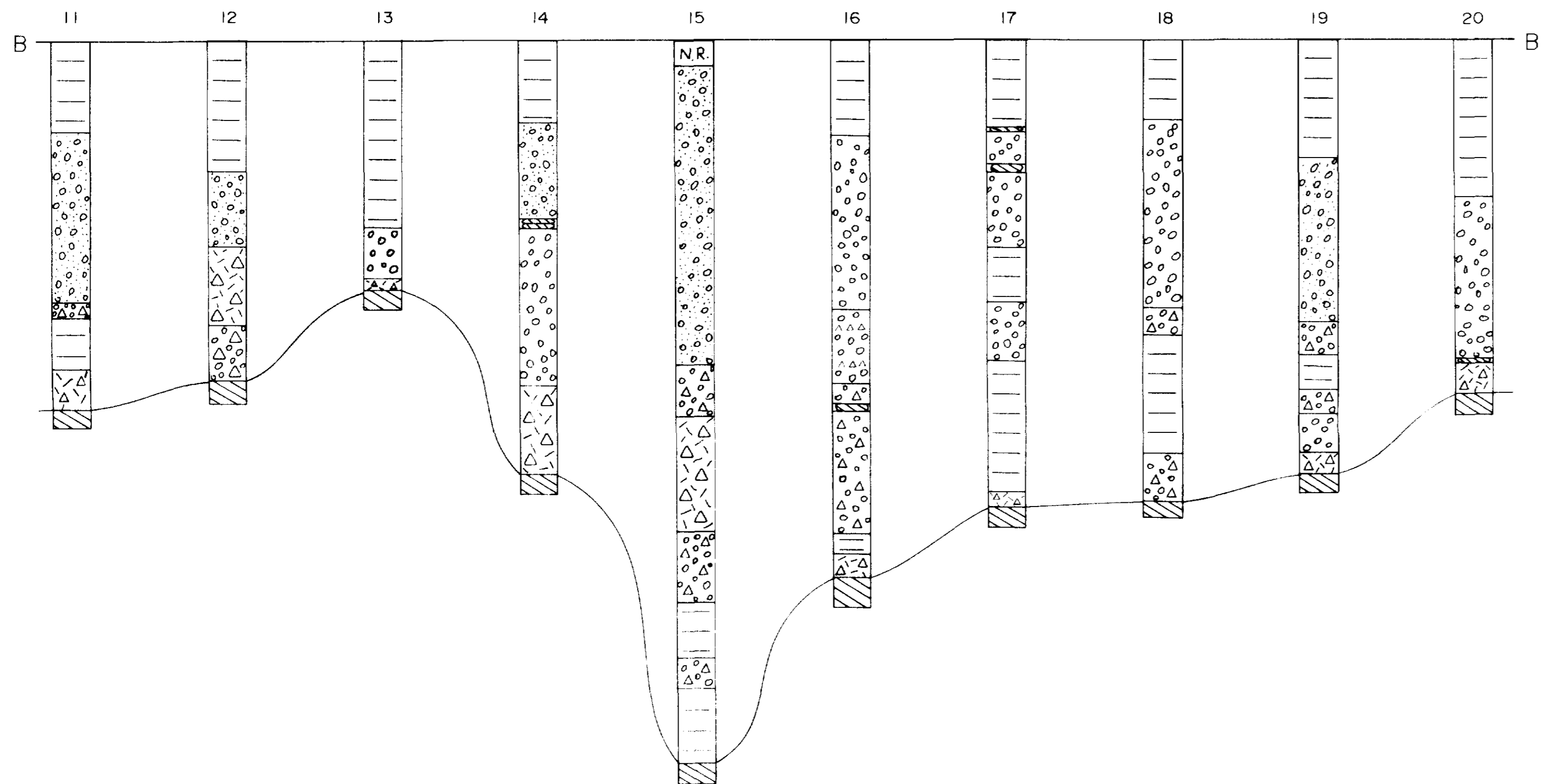
KEY

- Peat, Humus, Water.
- Clay / Silt, lacustrine.
- Sand / Gravel, fluvial - glaciofluvial.
- Diamiction - Debris flows, clayed Cochrane-Type, sandy silt + gravel interbeds.
- Till - Meltout or lodgement.
- Boulder / Bedrock.

Au
v.g. 3/ ● BIOCHEMICAL PPS (>2,500 - strong)
● (1,000 - 2500 - weak)

0 400
m
Scale





CHESBAR RESOURCES INC.

1987 OVERBURDEN DRILLING

MIKWAM RIVER PROPERTY

OVERBURDEN PROFILE B - B'

N. T. S. 42-H-8	Twp: Tomlinson/Newman	Scale: 1:1000
Drawn by: R.Z.	Approved by: J.R.	Date: April 87

OVERBURDEN EXPLORATION SERVICES INC.

210047

FOR LEGENDS SEE
PROFILE A-A'



210047

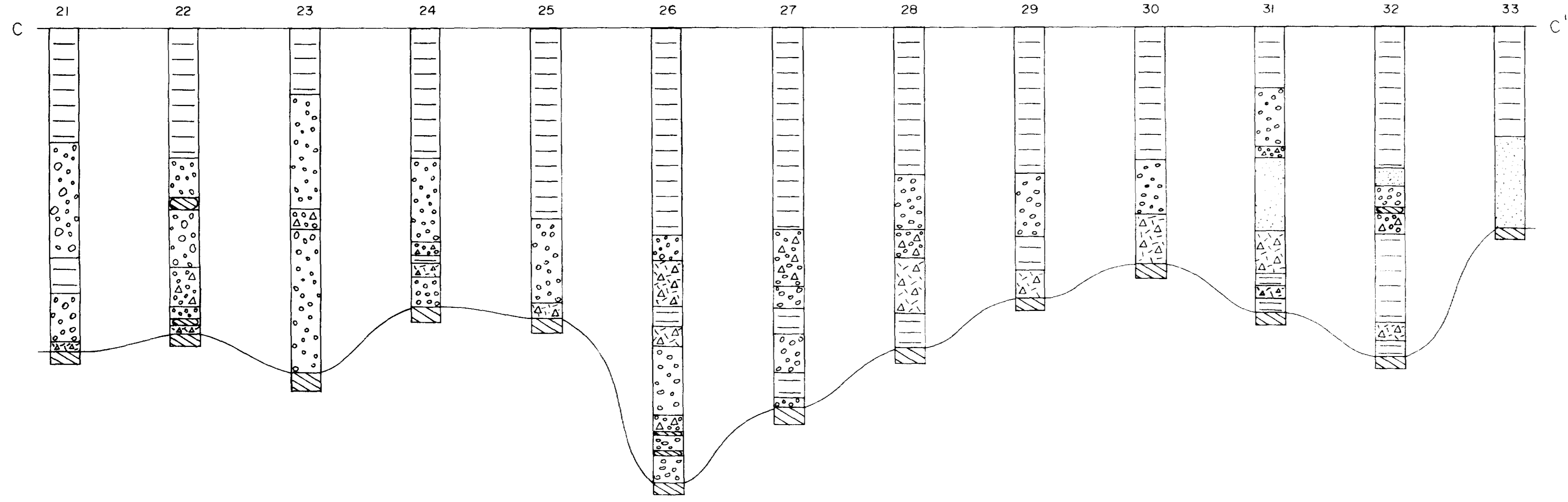
CHESBAR RESOURCES INC.

**1987 OVERBURDEN DRILLING
MIKWAM RIVER PROPERTY**

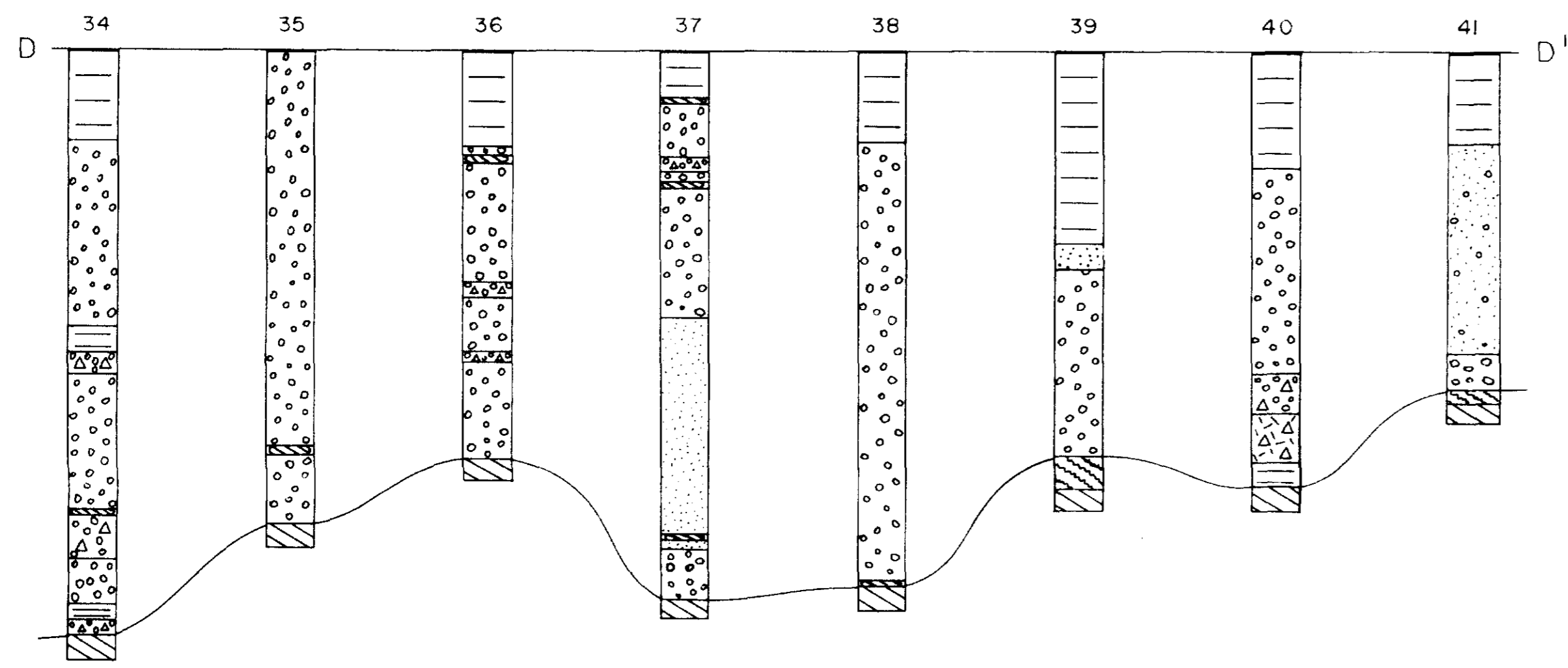
OVERBURDEN PROFILE C-C'

N.T.S. 42-H-8	Twp: Tomlinson/Newman	Scale: 1:1000
Drawn by: R.Z.	Approved by: J.R.	Date: April 87
OVERBURDEN EXPLORATION SERVICES INC.		

FOR LEGENDS SEE
PROFILE A-A'



210047



CHESBAR RESOURCES INC.

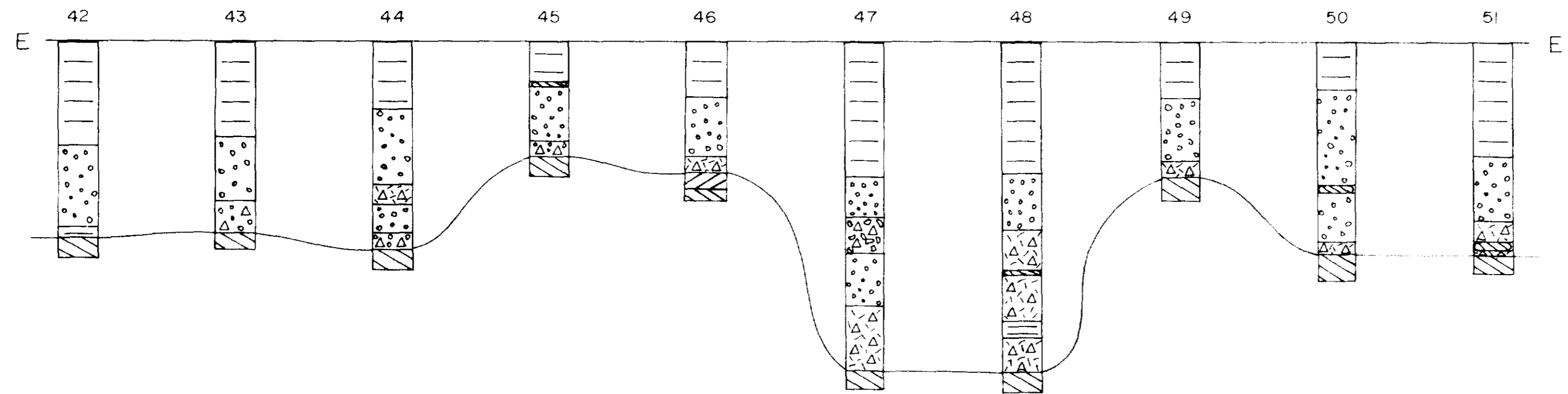
**1987 OVERBURDEN DRILLING
MIKWAM RIVER PROPERTY**

OVERBURDEN PROFILE D-D'

N.T.S. 42-H-8	Twp: Tomlinson/Newman	Scale: 1:1000
Drawn by: R.Z.	Approved by: J.R.	Date: April 87
OVERBURDEN EXPLORATION SERVICES INC.		

FOR LEGENDS SEE
PROFILES A-A'





CHESBAR RESOURCES INC.

1987 OVERBURDEN DRILLING
MIKWAM RIVER PROPERTY

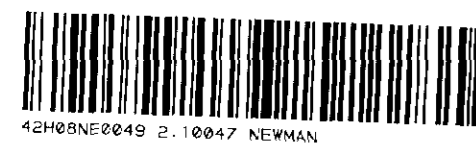
OVERBURDEN PROFILE E-E'

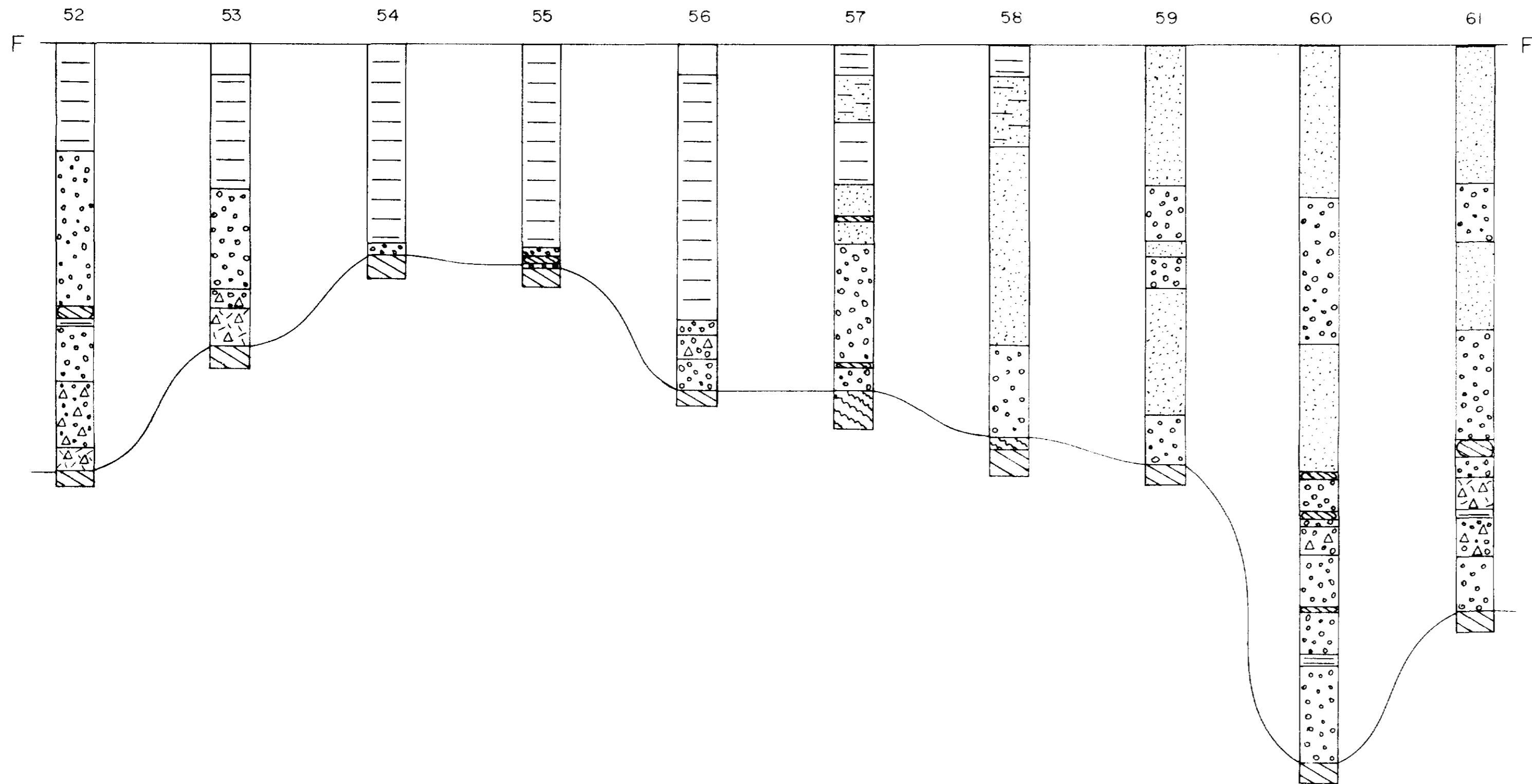
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Drawn by: RZ	Approved by: J.R.	Date: April 87

OVERBURDEN EXPLORATION SERVICES INC.

Drawn

FOR LEGENDS SEE
PROFILE 'A-A'





CHESBAR RESOURCES INC.

1987 OVERBURDEN DRILLING
MIKWAM RIVER PROPERTY

OVERBURDEN PROFILE F-F'

N.T.S. 42 H 8	Twp. Tomlinson/Newman	Scale: 1:1000
Drawn by: R.Z.	Approved by: J.R.	Date: April 87

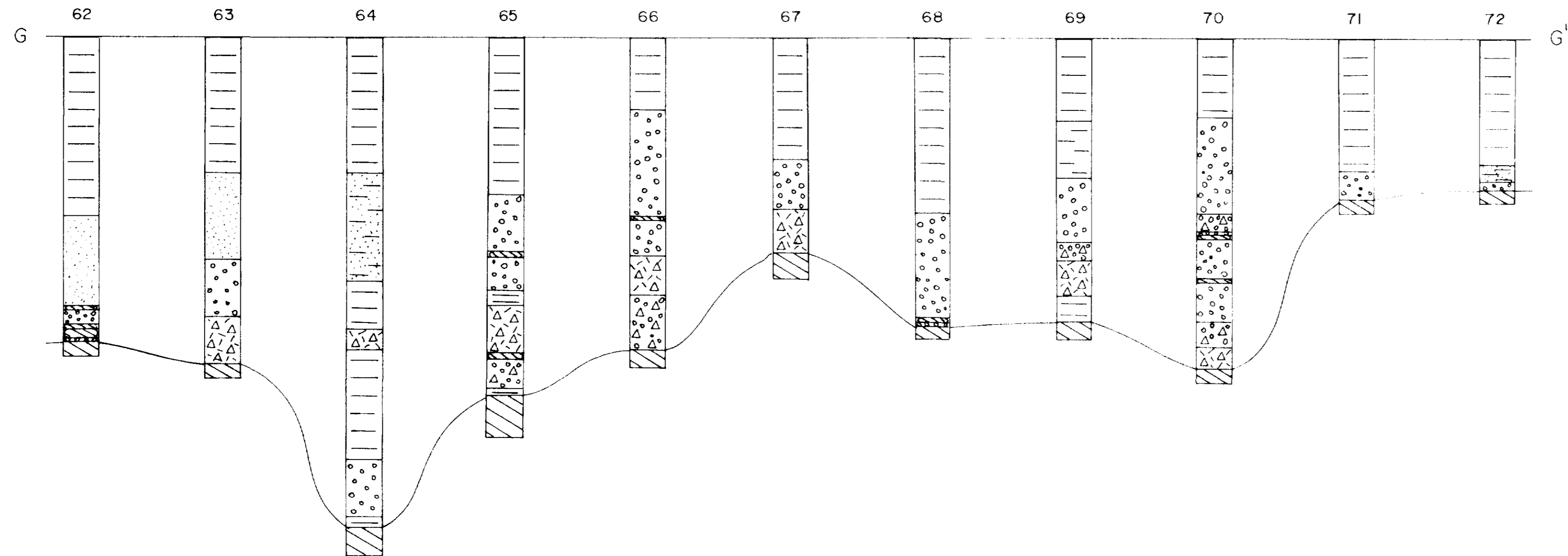
OVERBURDEN EXPLORATION SERVICES INC.

2.10047

FOR LEGENDS SEE
PROFILE A-A'



210047



CHESBAR RESOURCES INC.

1987 OVERBURDEN DRILLING
MIKWAM RIVER PROPERTY

OVERBURDEN PROFILE G-G'

N.T.S. 42 H 8	Twp: Tomlinson/Newman	Scale: 1:1000
Drawn by: R.Z.	Approved by: J.R.	Date: April 87

OVERBURDEN EXPLORATION SERVICES INC.

FOR LEGEND SEE
PROFILE A-A'

