

Volume III

BOREHOLE LOGS FOR THE BEAUFORT SEA

Dome Petroleum Ltd. 1974 - 1980

0306-34413

May, 1988



D003724

DOME PETROLEUM LTD. 1974 -1980

<u>APPENDIX</u>	<u>YEAR OF STUDY</u>	<u>CONSULTANT</u>	<u>CONSULTANTS JOB NO.</u>
A	1974	EBA	E-758
B	1975	Geocon Hardy	V817 CG14038
C	1978	McClelland	017-028
D	1979	EBA	101-2581 101-2622
E	1980	EBA	101-2806 101-2941 101-2968

1974 INVESTIGATION - TENT ISLAND HUDSONS' BAY OIL AND GAS LIMITED				EBA # E-758 N7846010 E438760 Z8		Bulk Density Mg/m ³ ▲ 1.4 1.6 1.8 2				SPECIAL TESTS	UNIT	DEPTH (ft)
SAMPLE			SOIL DESCRIPTION	GROUND ICE DESCRIPTION	TEMP C	PLASTIC LIMIT	WATER CONTENT (%)	LIQUID LIMIT				
TYP	NO.	Q										
0			SILT-CLAY (ml/cl) - loose to soft, low plasticity, medium to dark grey	UNFROZEN								0
1												1
2			END OF BOREHOLE at 1.5m									2
3												3
4												4
5												5
6												6
7												7
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49												49

DRILL RIG - SOEUL AUGER (SEISMIC)
 DRILLED FROM ICE
 WATER DEPTH - 2.74m
 ORIGINAL BOREHOLE NUMBER - A-2

SAMPLE TYPE

☐

 THIN W. TUBE

☐

 NO RECOVERY

☐

 SPLIT SPOON

☐

 HEAVY W.TUBE

☐

 CORE

☒

 GRAB

EBA ENGINEERING CONSULTANTS LTD.
 EDMONTON ALBERTA
 DRAWING NUMBER

BOREHOLE NUMBER
 74TIA2

BOREHOLE LOG AND LABORATORY TEST RESULTS

1974 INVESTIGATION - TENT ISLAND HUDSONS' BAY OIL AND GAS LIMITED				EBA # E-758 N7645770 E438570 Z8		Bulk Density Mg/m ³ ▲ 1.4 1.6 1.8 2				SPECIAL TESTS	UNIT	DEPTH (ft)
SAMPLE			SOIL DESCRIPTION	GROUND ICE DESCRIPTION	TEMP C	PLASTIC LIMIT	WATER CONTENT (%)	LIQUID LIMIT				
TYP	NO.	Q										
0			SILT (ml) - clayey, trace of fine sand, loose, wet, non plastic	UNFROZEN								0
1			CLAY (cl) - silty, low plasticity, soft, wet, medium grey									1
2			END OF BOREHOLE at 1.8m									2
3												3
4												4
5												5
6												6
7												7
8												8
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DRILL RIG - SOEUL AUGER (SEISMIC)
 DRILLED FROM ICE
 WATER DEPTH - 2.74m
 ORIGINAL BOREHOLE NUMBER - A-3

SAMPLE TYPE

THIN W. TUBE	HEAVY W. TUBE
NO RECOVERY	CORE
SPLIT SPOON	GRAB

EBA ENGINEERING CONSULTANTS LTD.
 EDMONTON ALBERTA
 DRAWING NUMBER

BOREHOLE NUMBER
 74TIA3

BOREHOLE LOG AND LABORATORY TEST RESULTS

1974 INVESTIGATION - TENT ISLAND HUDSONS' BAY OIL AND GAS LIMITED				EBA # E-758 N7845030 E438000 Z8		Bulk Density Mg/m ³ ▲ 1.4 1.6 1.8 2				SPECIAL TESTS	UNIT	DEPTH (ft)
SAMPLE			SOIL DESCRIPTION	GROUND ICE DESCRIPTION	TEMP C	PLASTIC WATER LIQUID LIMIT CONTENT(%) LIMIT						
TYP	NO.	Q				20	40	60	80			
0			SILT (ml) - clayey, trace of sand, loose and wet, medium grey	UNFROZEN								0
1			CLAY (cl) - silty, trace of sand, loose and wet, medium grey, non to low plastic									1
2			- very organic 1.2 to 1.8m									2
3												3
4												4
5												5
6												6
7												7
8												8
9												9
10												10
11												11
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48												48
49												49

DRILL RIG - SOEUL AUGER (SEISMIC)
 DRILLED FROM ICE
 WATER DEPTH - 2.59m
 ORIGINAL BOREHOLE NUMBER - A-4

SAMPLE TYPE

☐ THIN W. TUBE	☐ HEAVY W. TUBE
☐ NO RECOVERY	☐ CORE
☐ SPLIT SPOON	☐ GRAB

EBA ENGINEERING CONSULTANTS LTD.
 EDMONTON ALBERTA
 DRAWING NUMBER

BOREHOLE NUMBER
 74TIA4

BOREHOLE LOG AND LABORATORY TEST RESULTS

1974 INVESTIGATION - TENT ISLAND HUDSONS' BAY OIL AND GAS LIMITED				EBA # E-758 N7643530 E436840 Z8		Bulk Density Mg/m ³ ▲ 1.4 1.6 1.8 2				SPECIAL TESTS	UNIT	DEPTH (ft)
SAMPLE			SOIL DESCRIPTION	GROUND ICE DESCRIPTION	TEMP C	PLASTIC LIMIT	WATER CONTENT (%)	LIQUID LIMIT				
TYP	NO.	Q										
0			SILT (ml) - clayey, low plasticity, medium grey	FROZEN								0
1												1
2												2
3												3
4												4
5												5
6												6
7												7
8												8
9												9
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DRILL RIG - MAYHEW 1500
 DRILLED FROM ICE
 WATER DEPTH - 1.22m
 ORIGINAL BOREHOLE NUMBER - A-6

SAMPLE TYPE

☐ THIN W. TUBE	☐ HEAVY W. TUBE
☐ NO RECOVERY	☐ CORE
☐ SPLIT SPOON	☐ GRAB

EBA ENGINEERING CONSULTANTS LTD.
 EDMONTON ALBERTA
 DRAWING NUMBER

BOREHOLE NUMBER
 74TIA6
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BOREHOLE LOG AND LABORATORY TEST RESULTS

1974 INVESTIGATION - TENT ISLAND HUDSONS' BAY OIL AND GAS LIMITED				EBA # E-758 N7843530 E436840 Z8		Bulk Density Mg/m ³ ▲ 1.4 1.6 1.8 2				SPECIAL TESTS	UNIT	DEPTH (ft)
SAMPLE			SOIL DESCRIPTION	GROUND ICE DESCRIPTION	TEMP C	PLASTIC LIMIT	WATER CONTENT (%)	LIQUID LIMIT				
TYP	NO.	Q										
15			CLAY (cl) - (cont'd)									50
16												51
17												52
18												53
19												54
20												55
21												56
22												57
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DRILL RIG - MAYHEW 1500
 DRILLED FROM ICE
 WATER DEPTH - 1.22m
 ORIGINAL BOREHOLE NUMBER - A-6

SAMPLE TYPE

☐

 THIN W. TUBE

☐

 NO RECOVERY

☐

 SPLIT SPOON

☐

 HEAVY W. TUBE

☐

 CORE

☐

 GRAB

EBA ENGINEERING CONSULTANTS LTD.
 EDMONTON ALBERTA
 DRAWING NUMBER

BOREHOLE NUMBER
 74TIA6
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BOREHOLE LOG AND LABORATORY TEST RESULTS

1974 INVESTIGATION - TENT ISLAND HUDSONS' BAY OIL AND GAS LIMITED				EBA / E-758 N7643530 E436840 Z8		Bulk Density Mg/m ³ ▲ 1.4 1.6 1.8 2					SPECIAL TESTS	UNIT				
SAMPLE			SOIL DESCRIPTION	GROUND ICE DESCRIPTION	TEMP C	PLASTIC WATER LIQUID LIMIT CONTENT(%) LIMIT										
TYP	NO.	Q				20	40	60	80							
30			CLAY (cl) - (cont'd)										99			
																100
																101
																102
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36						END OF BOREHOLE at 36.6m										116
																117
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45													147			

DRILL RIG - MAYHEW 1500
 DRILLED FROM ICE
 WATER DEPTH - 1.22m
 ORIGINAL BOREHOLE NUMBER - A-6

SAMPLE TYPE

EBA ENGINEERING CONSULTANTS LTD.
 EDMONTON ALBERTA
 DRAWING NUMBER

BOREHOLE NUMBER
 74TIA6
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BOREHOLE LOG AND LABORATORY TEST RESULTS

1974 INVESTIGATION - TENT ISLAND HUDSONS' BAY OIL AND GAS LIMITED				EBA # E-758 N7642179 E437019 Z8		Bulk Density Mg/m ³ ▲ 1.4 1.6 1.8 2				SPECIAL TESTS	UNIT	DEPTH (ft)
SAMPLE			SOIL DESCRIPTION	GROUND ICE DESCRIPTION	TEMP C	PLASTIC LIMIT	WATER CONTENT (%)	LIQUID LIMIT				
TYP	NO.	Q										
0			SILT (ml) - clayey, low plasticity, medium grey	FROZEN								0
1												1
2												2
3												3
4												4
5												5
6												6
7												7
8												8
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10												10
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49												49

DRILL RIG - MAYHEW 1500
 DRILLED FROM ICE
 WATER DEPTH - 1.52m
 ORIGINAL BOREHOLE NUMBER - A-7

SAMPLE TYPE

☐ THIN W. TUBE	☐ HEAVY W. TUBE
☐ NO RECOVERY	☐ CORE
☐ SPLIT SPOON	☐ GRAB

EBA ENGINEERING CONSULTANTS LTD.
 EDMONTON ALBERTA
 DRAWING NUMBER

BOREHOLE NUMBER
 74TIA7
 PAGE 1 OF 3

BOREHOLE LOG AND LABORATORY TEST RESULTS

1974 INVESTIGATION - TENT ISLAND HUDSONS' BAY OIL AND GAS LIMITED				EBA # E-758 N7642179 E437019 Z8		Bulk Density Mg/m ³ ▲ 1.4 1.6 1.8 2				SPECIAL TESTS	UNIT	DEPTH (ft)
SAMPLE			SOIL DESCRIPTION	GROUND ICE DESCRIPTION	TEMP C	PLASTIC LIMIT	WATER CONTENT (%)	LIQUID LIMIT				
TYP	NO.	Q										
15			SILT (ml) - (cont'd)									50
16												51
17												52
18												53
19												54
20												55
21												56
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												97
												98

DRILL RIG - MAYHEW 1500 DRILLED FROM ICE WATER DEPTH - 1.52m ORIGINAL BOREHOLE NUMBER - A-7	SAMPLE TYPE ☐ THIN W. TUBE ☐ HEAVY W. TUBE ☐ NO RECOVERY ☐ CORE ☐ SPLIT SPOON ☐ GRAB	EBA ENGINEERING CONSULTANTS LTD. EDMONTON ALBERTA DRAWING NUMBER	BOREHOLE NUMBER 74TIA7 PAGE 2 OF 3
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BOREHOLE LOG AND LABORATORY TEST RESULTS

1974 INVESTIGATION - TENT ISLAND HUDSONS' BAY OIL AND GAS LIMITED				EBA / E-758 N7642179 E437019 Z8		Bulk Density Mg/m ³ ▲ 1.4 1.6 1.8 2				SPECIAL TESTS	UNIT	DEPTH (ft)
SAMPLE			SOIL DESCRIPTION	GROUND ICE DESCRIPTION	TEMP C	PLASTIC LIMIT	WATER CONTENT (%)	LIQUID LIMIT				
TYP	NO.	Q										
30			CLAY (cl) - (cont'd)									99
31												100
32												101
33												102
34												103
35												104
36												105
37												106
38												107
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												147

DRILL RIG - MAYHEW 1500
 DRILLED FROM ICE
 WATER DEPTH - 1.52m
 ORIGINAL BOREHOLE NUMBER - A-7

SAMPLE TYPE

☐ THIN W. TUBE
☐ NO RECOVERY
☐ SPLIT SPOON

☐ HEAVY W. TUBE
☐ CORE
☒ GRAB

EBA ENGINEERING CONSULTANTS LTD.
 EDMONTON ALBERTA
 DRAWING NUMBER

BOREHOLE NUMBER
 74TIA7
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BOREHOLE LOG AND LABORATORY TEST RESULTS

1974 INVESTIGATION - TENT ISLAND HUDSONS' BAY OIL AND GAS LIMITED				EBA # E-758 N7733044 E432726 Z8									
SAMPLE			SOIL DESCRIPTION		GROUND ICE DESCRIPTION	TEMP C	Bulk Density Mg/m³ ▲ 1.4 1.6 1.8 2 PLASTIC LIMIT WATER CONTENT (%) LIQUID LIMIT 20 40 60 80					SPECIAL TESTS	UNIT
TYP NO. Q													
0			SILT (ml) - grey to grey brown, some clay, trace of fine sand, low plasticity		FROZEN, Nf								0
1					Vx to UNFROZEN								1
2					Nbe and Vx								2
3					Nbn to UNFROZEN								3
4			- wet to saturated		UNFROZEN								4
5													5
6													6
7					UNFROZEN								7
8													8
9													9
10													10
11													11
12			END OF BOREHOLE at 11.28m										12
13													13
14													14
15													15

DEPTH (m)

0

1

2

3

4

5

6

7

8

9

10

11

12

13

14

15

DEPTH (ft)

0

1

2

3

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5

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DRILL RIG - FA 1500

DRILLED FROM ICE

WATER DEPTH - 1.52m

ORIGINAL BOREHOLE NUMBER - B-4

THIN W. TUBE

NO RECOVERY

SPLIT SPOON

HEAVY W. TUBE

CORE

GRAB

EBA ENGINEERING CONSULTANTS LTD.

EDMONTON ALBERTA

DRAWING NUMBER

BOREHOLE NUMBER

74T1B4

BOREHOLE LOG AND LABORATORY TEST RESULTS

1974 INVESTIGATION - TENT ISLAND HUDSONS' BAY OIL AND GAS LIMITED				EBA # E-758 N7648350 E431140 Z8		Bulk Density Mg/m ³ ▲ 1.4 1.6 1.8 2					SPECIAL TESTS	UNIT	DEPTH (ft)
SAMPLE		SOIL DESCRIPTION	GROUND ICE DESCRIPTION	TEMP C	WATER CONTENT (%)								
TYP	NO. Q				LIMIT	LIMIT	LIMIT	LIMIT					
0		SILT (ml) - medium grey, saturated, trace of clay, low plasticity, organics	UNFROZEN										0
1													1
2													2
3													3
4													4
5													5
6													6
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48													48
49													49

DRILL RIG - HELI DRILL, FA 500
 DRILLED FROM ICE
 WATER DEPTH - 2.44m
 ORIGINAL BOREHOLE NUMBER - D-1

SAMPLE TYPE

[] THIN W. TUBE	[] HEAVY W. TUBE
[] NO RECOVERY	[] CORE
[] SPLIT SPOON	[] GRAB

EBA ENGINEERING CONSULTANTS LTD.
 EDMONTON ALBERTA
 DRAWING NUMBER

BOREHOLE NUMBER
 74TID1
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BOREHOLE LOG AND LABORATORY TEST RESULTS

1974 INVESTIGATION - TENT ISLAND HUDSONS' BAY OIL AND GAS LIMITED				EBA # E-758 N7848350 E431140 Z8		Bulk Density Mg/m ³ ▲ 1.4 1.6 1.8 2				SPECIAL TESTS	UNIT	DEPTH (ft)
SAMPLE			SOIL DESCRIPTION	GROUND ICE DESCRIPTION	TEMP C	PLASTIC LIMIT	WATER CONTENT (%)	LIQUID LIMIT				
TYP	NO.	Q										
			SILT (ml) - (cont'd)	UNFROZEN								50
												51
												52
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												57
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DRILL RIG - HELI DRILL, FA 500 DRILLED FROM ICE WATER DEPTH - 2.44m ORIGINAL BOREHOLE NUMBER - D-1		SAMPLE TYPE THIN W. TUBE NO RECOVERY SPLIT SPOON HEAVY W. TUBE CORE GRAB		EBA ENGINEERING CONSULTANTS LTD. EDMONTON ALBERTA DRAWING NUMBER		BOREHOLE NUMBER 74TID1
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BOREHOLE LOG AND LABORATORY TEST RESULTS

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1974 INVESTIGATION - TENT ISLAND HUDSONS' BAY OIL AND GAS LIMITED				EBA # E-758 N7648350 E431140 Z8		Bulk Density Mg/m ³ ▲ 1.4 1.6 1.8 2				SPECIAL TESTS	UNIT	DEPTH (ft)
SAMPLE		SOIL DESCRIPTION	GROUND ICE DESCRIPTION	TEMP C	PLASTIC LIMIT	WATER CONTENT (%)	LIQUID LIMIT					
TYP	NO. Q											
		CLAY (cl) - (cont'd)	UNFROZEN									99
												100
												101
												102
												103
												104
												105
												106
												107
												108
												109
												110
	X	- moist, light grey, medium to high plasticity. (till)	UNFROZEN			•						111
		END OF BOREHOLE at 34.0M										112
												113
												114
												115
												116
												117
												118
												119
												120
												121
												122
												123
												124
												125
												126
												127
												128
												129
												130
												131
												132
												133
												134
												135
												136
												137
												138
												139
												140
												141
												142
												143
												144
												145
												146
												147

DRILL RIG - HELI DRILL, FA 500
 DRILLED FROM ICE
 WATER DEPTH - 2.44m
 ORIGINAL BOREHOLE NUMBER - D-1

SAMPLE TYPE

☐ THIN W. TUBE	☐ HEAVY W. TUBE
☐ NO RECOVERY	☐ CORE
☐ SPLIT SPOON	☐ GRAB

EBA ENGINEERING CONSULTANTS LTD.
 EDMONTON ALBERTA
 DRAWING NUMBER

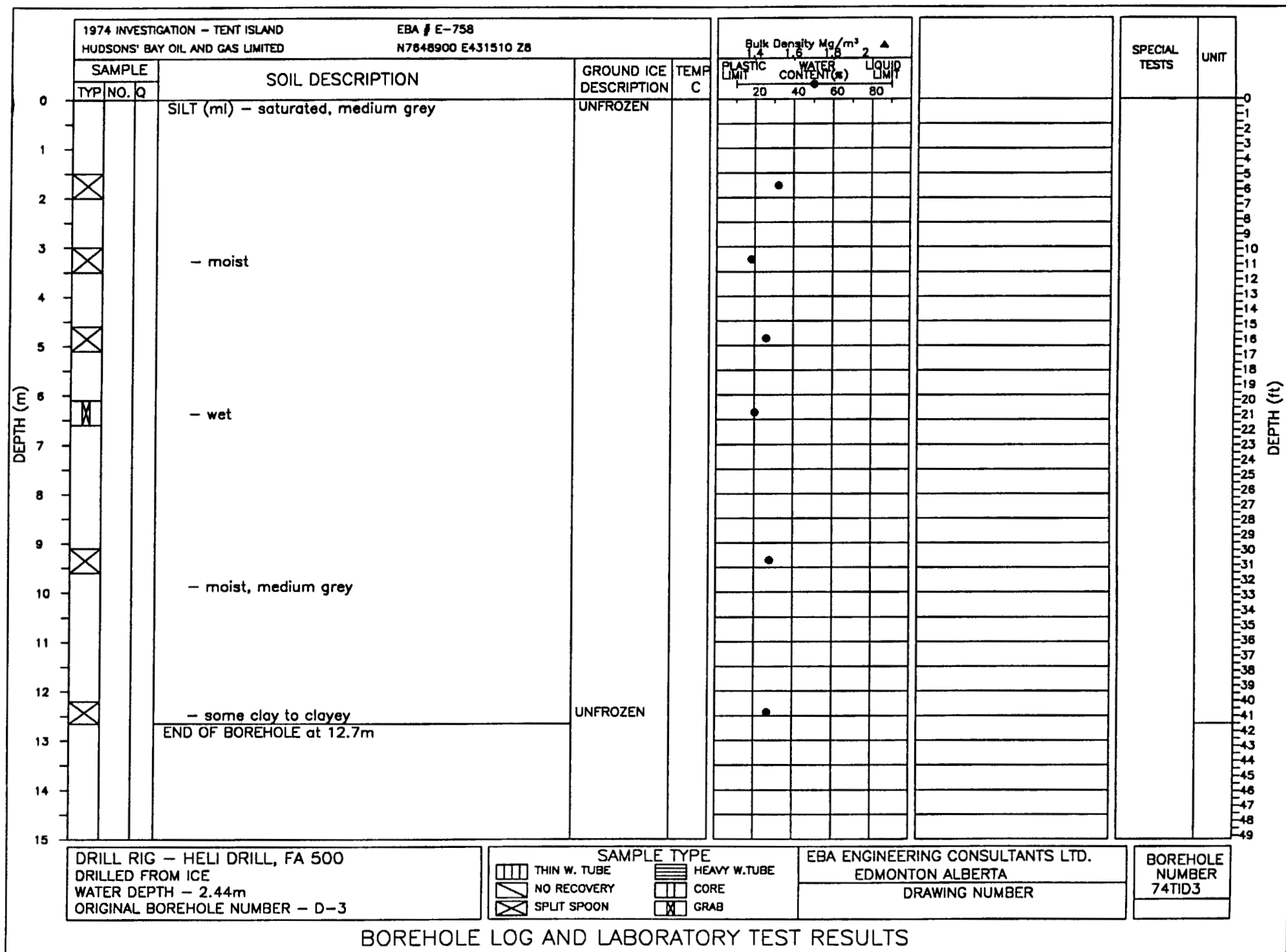
BOREHOLE NUMBER
 74TID1
 PAGE 3 OF 3

BOREHOLE LOG AND LABORATORY TEST RESULTS

1974 INVESTIGATION - TENT ISLAND HUDSONS' BAY OIL AND GAS LIMITED				EBA / E-758 N7648590 E4313600 Z8		Bulk Density Mg/m ³ ▲ 1.4 1.6 1.8 2					SPECIAL TESTS	UNIT	DEPTH (ft)
SAMPLE			SOIL DESCRIPTION	GROUND ICE DESCRIPTION	TEMP C	PLASTIC LIMIT WATER CONTENT (%) LIQUID LIMIT							
TYP	NO.	Q				20	40	60	80				
0			SILT (ml) - saturated, dark grey	UNFROZEN									0
1													1
2													2
3													3
4													4
5													5
6													6
7													7
8													8
9													9
10													10
11													11
12													12
13													13
14													14
15													15
16													16
17													17
18													18
19													19
20													20
21													21
22													22
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27													27
28													28
29													29
30													30
31													31
32													32
33													33
34													34
35													35
36													36
37													37
38													38
39													39
40													40
41													41
42													42
43													43
44													44
45													45
46													46
47													47
48													48
49													49

DRILL RIG - HELI DRILL, FA 500 DRILLED FROM ICE WATER DEPTH - 2.44m ORIGINAL BOREHOLE NUMBER - D-2	SAMPLE TYPE THIN W. TUBE NO RECOVERY SPLIT SPOON HEAVY W. TUBE CORE GRAB	EBA ENGINEERING CONSULTANTS LTD. EDMONTON ALBERTA DRAWING NUMBER	BOREHOLE NUMBER 74TID2
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BOREHOLE LOG AND LABORATORY TEST RESULTS



1974 INVESTIGATION - TENT ISLAND HUDSONS' BAY OIL AND GAS LIMITED				EBA # E-758 N7647890 E431110 Z8		Bulk Density Mg/m ³ ▲ 1.4 1.6 1.8 2.0 PLASTIC LIMIT WATER CONTENT (%) LIQUID LIMIT 20 40 60 80				SPECIAL TESTS	UNIT
SAMPLE		SOIL DESCRIPTION	GROUND ICE DESCRIPTION	TEMP C							
TYP	NO. Q										
0		SILT (ml) - saturated, wet to saturated, loose	UNFROZEN								0
1											1
2											2
3											3
4											4
5											5
6											6
7											7
8											8
9											9
10											10
11											11
12											12
13											13
14											14
15											15
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											38
											39
											40
											41
											42
											43
											44
											45
											46
											47
											48
											49

DRILL RIG - HELI DRILL, FA 500
 DRILLED FROM ICE
 WATER DEPTH - 2.13m
 ORIGINAL BOREHOLE NUMBER - D-4

SAMPLE TYPE

THIN W. TUBE	HEAVY W. TUBE
NO RECOVERY	CORE
SPLIT SPOON	GRAB

EBA ENGINEERING CONSULTANTS LTD.
 EDMONTON ALBERTA
 DRAWING NUMBER

BOREHOLE NUMBER
 74TID4

BOREHOLE LOG AND LABORATORY TEST RESULTS

1974 INVESTIGATION - TENT ISLAND HUDSONS' BAY OIL AND GAS LIMITED				EBA / E-758 N7647710 E431360 Z8		Bulk Density Mg/m ³ ▲ 1.4 1.6 1.8 2					SPECIAL TESTS	UNIT	
SAMPLE			SOIL DESCRIPTION	GROUND ICE DESCRIPTION	TEMP C	PLASTIC LIMIT WATER CONTENT(%) LIQUID LIMIT							
TYP	NO.	Q				20	40	60	80				
0			SILT (ml) - light grey, very loose saturated, trace of clay, low plasticity, some organics	UNFROZEN								0	
1													1
2	X												2
3													3
4												4	
5												5	
6												6	
7	X		- wet, compact, medium brown	POSSIBLY FROZEN								7	
8													8
9													9
10													10
11												11	
12												12	
13	X		- loose, wet									13	
14													14
15													15
16													16
17												17	
18												18	
19												19	
20												20	
21												21	
22												22	
23												23	
24												24	
25												25	
26												26	
27												27	
28												28	
29												29	
30												30	
31												31	
32												32	
33												33	
34												34	
35												35	
36												36	
37												37	
38												38	
39												39	
40												40	
41												41	
42												42	
43												43	
44												44	
45												45	
46												46	
47												47	
48												48	
49												49	

DRILL RIG - HELI DRILL, FA 500
 DRILLED FROM ICE
 WATER DEPTH - 2.13m
 ORIGINAL BOREHOLE NUMBER - D-5

SAMPLE TYPE

☐ THIN W. TUBE	☐ HEAVY W. TUBE
☐ NO RECOVERY	☐ CORE
☐ SPLIT SPOON	☐ GRAB

EBA ENGINEERING CONSULTANTS LTD.
 EDMONTON ALBERTA
 DRAWING NUMBER

BOREHOLE NUMBER
 74T105

BOREHOLE LOG AND LABORATORY TEST RESULTS

1974 INVESTIGATION - TENT ISLAND HUDSONS' BAY OIL AND GAS LIMITED				EBA # E-758 N7647490 E431620 Z8		Bulk Density Mg/m ³ ▲ 1.4 1.6 1.8 2				SPECIAL TESTS	UNIT	DEPTH (ft)
SAMPLE		SOIL DESCRIPTION	GROUND ICE DESCRIPTION	TEMP C	PLASTIC LIMIT	WATER CONTENT (%)	LIQUID LIMIT					
TYP	NO. Q											
0		SILT (CL-ML) - loose, wet to moist medium grey	UNFROZEN									0
1												1
2												2
3												3
4												4
5												5
6												6
7												7
8												8
9												9
10												10
11												11
12												12
13												13
14												14
15												15
16												16
17												17
18												18
19												19
20												20
21												21
22												22
23												23
24												24
25												25
26												26
27												27
28												28
29												29
30												30
31												31
32												32
33												33
34												34
35												35
36												36
37												37
38												38
39												39
40												40
41												41
42												42
43												43
44												44
45												45
46												46
47												47
48												48
49												49

DRILL RIG - HELI DRILL, FA 500 DRILLED FROM ICE WATER DEPTH - 2.13m ORIGINAL BOREHOLE NUMBER - D-6	SAMPLE TYPE THIN W. TUBE NO RECOVERY SPLIT SPOON HEAVY W. TUBE CORE GRAB	EBA ENGINEERING CONSULTANTS LTD. EDMONTON ALBERTA DRAWING NUMBER	BOREHOLE NUMBER 74TID6
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BOREHOLE LOG AND LABORATORY TEST RESULTS

1974 INVESTIGATION - TENT ISLAND HUDSONS' BAY OIL AND GAS LIMITED				EBA # E-758 N7647380 E431780 ZB		Bulk Density Mg/m ³ ▲ 1.4 1.6 1.8 2				SPECIAL TESTS	UNIT	DEPTH (ft)
SAMPLE			SOIL DESCRIPTION	GROUND ICE DESCRIPTION	TEMP C	PLASTIC LIMIT	WATER CONTENT (%)	LIQUID LIMIT				
TYP	NO.	Q										
			SILT (ml) - medium grey, loose saturated	UNFROZEN								0
												1
												2
												3
												4
												5
												6
												7
												8
												9
												10
												11
												12
												13
												14
												15
												16
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												19
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												36
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												39
												40
												41
												42
												43
												44
												45
												46
												47
												48
												49
DRILL RIG - HELI DRILL, FA 500 DRILLED FROM ICE WATER DEPTH - 2.29m ORIGINAL BOREHOLE NUMBER - D-7				SAMPLE TYPE ☐ THIN W. TUBE ☐ HEAVY W. TUBE ☐ NO RECOVERY ☐ CORE ☒ SPLIT SPOON ☒ GRAB		EBA ENGINEERING CONSULTANTS LTD. EDMONTON ALBERTA DRAWING NUMBER				BOREHOLE NUMBER 74TID7		

BOREHOLE LOG AND LABORATORY TEST RESULTS

1974 INVESTIGATION - TENT ISLAND HUDSONS' BAY OIL AND GAS LIMITED				EBA # E-758 N7647240 E431950 Z8		Bulk Density Mg/m ³ ▲ 1.4 1.6 1.8 2			SPECIAL TESTS	UNIT	DEPTH (ft)
SAMPLE		SOIL DESCRIPTION	GROUND ICE DESCRIPTION	TEMP C	WATER CONTENT (%)						
TYP	NO. Q				PLASTIC LIMIT	LIQUID LIMIT	WATER CONTENT (%)				
0		SILT (ml) - light grey, wet to saturated	UNFROZEN								0
1											1
2	X										2
3	X	- layer of organics									3
4											4
5											5
6	X	- medium grey, saturated									6
7		- loose									7
8											8
9	X										9
10		- dark grey, saturated, some organic layers									10
11											11
12	X		UNFROZEN								12
13		END OF BOREHOLE at 12.7m									13
14											14
15											15

DRILL RIG - HELI DRILL, FA 500
 DRILLED FROM ICE
 WATER DEPTH - 2.13m
 ORIGINAL BOREHOLE NUMBER - D-8

SAMPLE TYPE

THIN W. TUBE	HEAVY W. TUBE
NO RECOVERY	CORE
SPLIT SPOON	GRAB

EBA ENGINEERING CONSULTANTS LTD.
 EDMONTON ALBERTA
 DRAWING NUMBER

BOREHOLE NUMBER
 74TID8

BOREHOLE LOG AND LABORATORY TEST RESULTS

1974 INVESTIGATION - TENT ISLAND HUDSONS' BAY OIL AND GAS LIMITED				EBA # E-758 N7647800 E430710 Z8		Bulk Density Mg/m ³ ▲ 1.4 1.6 1.8 2					SPECIAL TESTS	UNIT			
SAMPLE		SOIL DESCRIPTION	GROUND ICE DESCRIPTION	TEMP C	WATER CONTENT (%)										
TYP	NO. Q				LIMIT	LIMIT	LIMIT	LIMIT							
0		SILT (ml) - medium grey, moist to wet, loose, trace of clay, low plasticity	UNFROZEN										0		
1															1
2	X														2
3	X														3
4															4
5	W														5
6	X														6
7															7
8	W														8
9															9
10		- wet to saturated											10		
11	X														11
12															12
13	W														13
14															14
15	X														15
16															16
17															17
18															18
19															19
20		- moist, dark grey, trace of clay, low plasticity, layer of organics											20		
21															21
22															22
23															23
24															24
25															25
26															26
27															27
28															28
29															29
30		- medium brown, trace of clay, some very fine sand	UNFROZEN										30		
31															31
32															32
33															33
34															34
35															35
36															36
37															37
38															38
39															39
40		END OF BOREHOLE at 12.7m											40		
41															41
42															42
43															43
44															44
45															45
46															46
47															47
48															48
49															49

DRILL RIG - HELI DRILL, FA 500
 DRILLED FROM ICE
 WATER DEPTH - 2.13m
 ORIGINAL BOREHOLE NUMBER - D-9

SAMPLE TYPE

THIN W. TUBE	HEAVY W. TUBE
NO RECOVERY	CORE
SPLIT SPOON	GRAB

EBA ENGINEERING CONSULTANTS LTD.
 EDMONTON ALBERTA
 DRAWING NUMBER

BOREHOLE NUMBER
 74TID9

BOREHOLE LOG AND LABORATORY TEST RESULTS

1974 INVESTIGATION - TENT ISLAND HUDSONS' BAY OIL AND GAS LIMITED				EBA # E-758 N7647480 E430420 Z8		Bulk Density Mg/m ³ ▲ 1.4 1.6 1.8 2					SPECIAL TESTS	UNIT
SAMPLE			SOIL DESCRIPTION	GROUND ICE DESCRIPTION	TEMP C	PLASTIC LIMIT WATER CONTENT (%) LIQUID LIMIT						
TYP	NO.	Q										
0			SILT (ml) - dark grey, trace of clay, saturated, low plasticity	UNFROZEN								0
1												1
2												2
3												3
4												4
5												5
6												6
7												7
8												8
9												9
10												10
11												11
12												12
13												13
14												14
15												15
16												16
17												17
18												18
19												19
20												20
21												21
22												22
23												23
24												24
25												25
26												26
27												27
28												28
29												29
30												30
31												31
32												32
33												33
34												34
35												35
36												36
37												37
38												38
39												39
40												40
41												41
42												42
43												43
44												44
45												45
46												46
47												47
48												48
49												49

DRILL RIG - HELI DRILL, FA 500
 DRILLED FROM ICE
 WATER DEPTH - 2.29m
 ORIGINAL BOREHOLE NUMBER - D-10

SAMPLE TYPE

□ THIN W. TUBE	▨ HEAVY W. TUBE
▧ NO RECOVERY	□ CORE
⊗ SPLIT SPOON	⊗ GRAB

EBA ENGINEERING CONSULTANTS LTD.
 EDMONTON ALBERTA
 DRAWING NUMBER

BOREHOLE NUMBER
 74TID10

BOREHOLE LOG AND LABORATORY TEST RESULTS

1974 INVESTIGATION - TENT ISLAND HUDSONS' BAY OIL AND GAS LIMITED				EBA # E-758 N7647160 E430210 Z8		Bulk Density Mg/m ³ ▲ 1.4 1.6 1.8 2					SPECIAL TESTS	UNIT		
SAMPLE			SOIL DESCRIPTION	GROUND ICE DESCRIPTION	TEMP C	PLASTIC LIMIT WATER CONTENT (%) LIQUID LIMIT								
TYP	NO.	Q												
0			SILT (ml) - wet to saturated, dark grey, trace of clay and fine sand, loose low plasticity	UNFROZEN								0		
1														1
2														2
3	X		- medium brown									3		
4														4
5														5
6	X		- saturated, medium to dark grey									6		
7														7
8														8
9	X		- compact									9		
10														10
11														11
12	X		SAND (sm) - silty, compact, organics END OF BOREHOLE at 12.7m	UNFROZEN								12		
13														13
14														14
15												15		

DRILL RIG - HELI DRILL, FA 500
 DRILLED FROM ICE
 WATER DEPTH - 1.98m
 ORIGINAL BOREHOLE NUMBER - D-11

SAMPLE TYPE

THIN W. TUBE	HEAVY W. TUBE
NO RECOVERY	CORE
SPLIT SPOON	GRAB

EBA ENGINEERING CONSULTANTS LTD.
 EDMONTON ALBERTA
 DRAWING NUMBER

BOREHOLE NUMBER
 74TID11

BOREHOLE LOG AND LABORATORY TEST RESULTS

1974 INVESTIGATION - TENT ISLAND HUDSONS' BAY OIL AND GAS LIMITED				EBA # E-758 N7548110 E430910 Z8		Bulk Density Mg/m ³ ▲ 1.4 1.6 1.8 2				PLASTIC LIMIT 20 40 60 80		WATER CONTENT (%)		LIQUID LIMIT		SPECIAL TESTS		UNIT	
SAMPLE			SOIL DESCRIPTION			GROUND ICE DESCRIPTION	TEMP C												
TYP NO. Q																			
0			SILT (ml) - dark grey, loose, wet, low plasticity, trace of clay, organics			UNFROZEN													
1																			
2																			
3																			
4																			
5																			
6			- light grey																
7																			
8																			
9																			
10																			
11																			
12			- medium brown, sandy			UNFROZEN													
13																			
14			END OF BOREHOLE at 12.7m																
15																			

DRILL RIG - HELI DRILL, FA 500
 DRILLED FROM ICE
 WATER DEPTH - 2.13m
 ORIGINAL BOREHOLE NUMBER - D-12

SAMPLE TYPE

THIN W. TUBE	HEAVY W. TUBE
NO RECOVERY	CORE
SPLIT SPOON	GRAB

EBA ENGINEERING CONSULTANTS LTD.
 EDMONTON ALBERTA
 DRAWING NUMBER

BOREHOLE NUMBER
 74TID12

BOREHOLE LOG AND LABORATORY TEST RESULTS

1974 INVESTIGATION - TENT ISLAND HUDSONS' BAY OIL AND GAS LIMITED				EBA # E-758 N7648360 E430630 Z8		Bulk Density Mg/m ³ ▲				SPECIAL TESTS	UNIT	DEPTH (ft)
SAMPLE		SOIL DESCRIPTION	GROUND ICE DESCRIPTION	TEMP C	PLASTIC WATER LIQUID LIMIT CONTENT (%) LIMIT							
TYP	NO. Q				20	40	60	80				
0		SILT (ml) - loose, medium to dark grey, trace of clay, low plasticity, organics	UNFROZEN									0
1												1
2	X											2
3	X											3
4		- compact										4
5	W	- loose, wet										5
6												6
7												7
8												8
9	W											9
10		- medium to dark grey, wet to saturated, low plasticity, trace of clay, organics										10
11												11
12	X	- compact	UNFROZEN									12
13		END OF BOREHOLE at 12.7m										13
14												14
15												15

DRILL RIG - HELI DRILL, FA 500
 DRILLED FROM ICE
 WATER DEPTH - 1.68m
 ORIGINAL BOREHOLE NUMBER - D-13

SAMPLE TYPE

THIN W. TUBE NO RECOVERY SPLIT SPOON HEAVY W. TUBE CORE GRAB	EBA ENGINEERING CONSULTANTS LTD. EDMONTON ALBERTA DRAWING NUMBER
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BOREHOLE NUMBER
74TID13

BOREHOLE LOG AND LABORATORY TEST RESULTS

1974 INVESTIGATION - TENT ISLAND HUDSONS' BAY OIL AND GAS LIMITED				EBA # E-758 N7648650 E430280 Z8		Bulk Density Mg/m ³ ▲ 1.4 1.6 1.8 2					SPECIAL TESTS	UNIT		
SAMPLE		SOIL DESCRIPTION	GROUND ICE DESCRIPTION	TEMP C	PLASTIC LIMIT WATER CONTENT (%) LIQUID LIMIT									
TYP	NO. Q				20	40	60	80						
0		SILT (ml) - medium to dark grey, loose, wet, trace of clay and fine sand, low plasticity	UNFROZEN									0		
1														1
2	X													2
3														3
4														4
5														5
6														6
7	M													7
8														8
9														9
10		- dark grey, low plasticity, wet to saturated, END OF BOREHOLE at 12.7m	UNFROZEN									10		
11														11
12	X													12
13														13
14														14
15														15
16														16
17														17
18														18
19														19
20											20			
21											21			
22											22			
23											23			
24											24			
25											25			
26											26			
27											27			
28											28			
29											29			
30											30			
31											31			
32											32			
33											33			
34											34			
35											35			
36											36			
37											37			
38											38			
39											39			
40											40			
41											41			
42											42			
43											43			
44											44			
45											45			
46											46			
47											47			
48											48			
49											49			

DRILL RIG - HELI DRILL, FA 500
 DRILLED FROM ICE
 WATER DEPTH - 2.13m
 ORIGINAL BOREHOLE NUMBER - D-14

SAMPLE TYPE

THIN W. TUBE	HEAVY W. TUBE
NO RECOVERY	CORE
SPLIT SPOON	GRAB

EBA ENGINEERING CONSULTANTS LTD.
 EDMONTON ALBERTA
 DRAWING NUMBER

BOREHOLE NUMBER
 74TID14

BOREHOLE LOG AND LABORATORY TEST RESULTS

EBA # E-758
N7648940 E429940 Z8

DRILL RIG - HELI DRILL, FA 500
DRILLED FROM ICE
WATER DEPTH - 2.13m
ORIGINAL BOREHOLE NUMBER - D-15

SAMPLE TYPE			
	THIN W. TUBE		HEAVY W. TUBE
	NO RECOVERY		CORE
	SPLIT SPOON		GRAB

EBA ENGINEERING CONSULTANTS LTD. EDMONTON ALBERTA
DRAWING NUMBER

BOREHOLE
NUMBER
74TID15

BOREHOLE LOG AND LABORATORY TEST RESULTS

1974 INVESTIGATION - TENT ISLAND HUDSONS' BAY OIL AND GAS LIMITED				EBA # E-758 N7644740 E433770 ZB		Bulk Density Mg/m^3 ▲ 1.4 1.6 1.8 2				SPECIAL TESTS	UNIT	DEPTH (ft)
SAMPLE			SOIL DESCRIPTION	GROUND ICE DESCRIPTION	TEMP C	PLASTIC LIMIT	WATER CONTENT (%)	LIQUID LIMIT				
TYP	NO.	Q										
0			SILT (ml) - medium grey, quite dry when thawed, non plastic	FROZEN Nbn-Vs 5% to 3mm thick Nbn								0
1			- some fine sand to sandy, light to medium brown grey									1
2												2
3			- sandy (fine)	Nbn to some Vs 5%								3
4				FROZEN Nbn-Vs 3%								4
5			END OF BOREHOLE at 4.7m									5
6												6
7												7
8												8
9												9
10												10
11												11
12												12
13												13
14												14
15												15

DRILL RIG - RANGER AUGER
 DRILLED FROM ICE
 WATER DEPTH - 1.07m
 ORIGINAL BOREHOLE NUMBER - E-1

SAMPLE TYPE

☐ THIN W. TUBE	☐ HEAVY W. TUBE
☐ NO RECOVERY	☐ CORE
☐ SPLIT SPOON	☐ GRAB

EBA ENGINEERING CONSULTANTS LTD.
 EDMONTON ALBERTA
 DRAWING NUMBER

BOREHOLE NUMBER
 74TIE1

BOREHOLE LOG AND LABORATORY TEST RESULTS

1974 INVESTIGATION - TENT ISLAND HUDSONS' BAY OIL AND GAS LIMITED				EBA / E-758 N7644010 E433320 Z8		Bulk Density Mg/m ³ ▲ 1.4 1.6 1.8 2				SPECIAL TESTS	UNIT	DEPTH (ft)
SAMPLE			SOIL DESCRIPTION	GROUND ICE DESCRIPTION	TEMP C	PLASTIC LIMIT	WATER CONTENT (%)	LIQUID LIMIT				
TYP	NO.	Q										
0			SILT (ml) - medium grey, non plastic, some fine sand to sandy	FROZEN Vr 5 - 10% Nbn-Vr 5% Nbn-Vs 3% 2mm thick								0
1			- sandy	Nbn								1
2			- sandy silt to silty fine sand									2
3												3
4			- sandy silt, brown grey - very sandy (fine) to silty sand	Nbn-Vs 1% FROZEN, Nbn								4
5												5
6			END OF BOREHOLE at 6.1m									6
7												7
8												8
9												9
10												10
11												11
12												12
13												13
14												14
15												15

DRILL RIG - RANGER AUGER
DRILLED FROM ICE
WATER DEPTH - 1.07m
ORIGINAL BOREHOLE NUMBER - E-2

SAMPLE TYPE

☐ THIN W. TUBE	☐ HEAVY W. TUBE
☐ NO RECOVERY	☐ CORE
☐ SPLIT SPOON	☐ GRAB

EBA ENGINEERING CONSULTANTS LTD.
EDMONTON ALBERTA
DRAWING NUMBER

BOREHOLE NUMBER
74TIE2

BOREHOLE LOG AND LABORATORY TEST RESULTS

1974 INVESTIGATION - TENT ISLAND HUDSONS' BAY OIL AND GAS LIMITED				EBA # E-758 N7644360 E433540 Z8		Bulk Density Mg/m ³ ▲ 1.4 1.6 1.8 2				SPECIAL TESTS	UNIT	DEPTH (ft)									
SAMPLE			SOIL DESCRIPTION	GROUND ICE DESCRIPTION	TEMP C	PLASTIC LIMIT	WATER CONTENT (%)	LIQUID LIMIT													
TYP	NO.	Q																			
0			SILT (ml) - medium brown grey, some fine sand, non plastic, relatively dry - less sandy with occasional sandy seams - some fine sand to sandy, some organics pockets	FROZEN Vr 20% Vr 5-10% Nbn to Vr-Vs 3% Nbn Nbn to Vs 5% fine Nbn Nbn to Vs 3%								0									
1																					1
2																					2
3																					3
4																					4
5																					5
6																					6
7																					7
8																					8
9																					9
10																					10
11			END OF BOREHOLE at 11.1m										11								
12													12								
13													13								
14													14								
15													15								

DRILL RIG - RANGER AUGER
DRILLED FROM ICE
WATER DEPTH - 1.07m
ORIGINAL BOREHOLE NUMBER - E-3

SAMPLE TYPE

☐ THIN W. TUBE
☐ NO RECOVERY
☐ SPLIT SPOON

☐ HEAVY W. TUBE
☐ CORE
☒ GRAB

EBA ENGINEERING CONSULTANTS LTD.
EDMONTON ALBERTA
DRAWING NUMBER

BOREHOLE NUMBER
74TIE3

BOREHOLE LOG AND LABORATORY TEST RESULTS

1974 INVESTIGATION - BLOW RIVER HUDSONS' BAY OIL AND GAS LTD.				EBA # E-758 N7846230 E420260 Z8		Bulk Density Mg/m ³ ▲ 1.4 1.6 1.8 2					SPECIAL TESTS	UNIT
SAMPLE			SOIL DESCRIPTION	GROUND ICE DESCRIPTION	TEMP C	WATER CONTENT(%)						
TYP	NO.	Q				PLASTIC LIMIT	20	40	60			
0			SILT (ml) - light grey	FROZEN Vx-5%								0
1												1
2												2
3												3
4												4
5												5
6												6
7												7
8												8
9												9
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49												49

DRILL RIG - MAYHEW 1500
 DRILLED FROM ICE
 WATER DEPTH - 1.07m
 ORIGINAL BOREHOLE NUMBER - C-2

SAMPLE TYPE

THIN W. TUBE	HEAVY W. TUBE
NO RECOVERY	CORE
SPLIT SPOON	GRAB

EBA ENGINEERING CONSULTANTS LTD.
 EDMONTON ALBERTA

DRAWING NUMBER
N/A

BOREHOLE
NUMBER
74BRC2

PAGE 1 OF 2

BOREHOLE LOG AND LABORATORY TEST RESULTS

1974 INVESTIGATION - BLOW RIVER HUDSONS' BAY OIL AND GAS LTD.				EBA # E-758 N7646230 E420260 Z8		Bulk Density Mg/m ³ ▲ 1.4 1.6 1.8 2				SPECIAL TESTS	UNIT	DEPTH (ft)
SAMPLE			SOIL DESCRIPTION	GROUND ICE DESCRIPTION	TEMP C	PLASTIC LIMIT	WATER CONTENT (%)	LIQUID LIMIT				
TYP	NO.	Q										
15			SILT (ml) - (cont'd)									50
16												51
17												52
18												53
19												54
20												55
21												56
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DRILL RIG - MAYHEW 1500
 DRILLED FROM ICE
 WATER DEPTH - 1.07m
 ORIGINAL BOREHOLE NUMBER - C-2

SAMPLE TYPE

THIN W. TUBE	HEAVY W. TUBE
NO RECOVERY	CORE
SPLIT SPOON	GRAB

EBA ENGINEERING CONSULTANTS LTD.
 EDMONTON ALBERTA
 DRAWING NUMBER
 N/A

BOREHOLE
 NUMBER
 74BRC2
 PAGE 2 OF 2

BOREHOLE LOG AND LABORATORY TEST RESULTS

1974 INVESTIGATION - BLOW RIVER HUDSONS' BAY OIL AND GAS LTD.				EBA # E-758 N7646290 E419920 ZB		Bulk Density Mg/m ³ ▲ 1.4 1.6 1.8 2					SPECIAL TESTS	UNIT	
SAMPLE			SOIL DESCRIPTION	GROUND ICE DESCRIPTION	TEMP C	PLASTIC WATER LIQUID LIMIT CONTENT (%) LIMIT							
TYP	NO.	Q				20	40	60	80				
0			SILT (ml) - dark grey	FROZEN Nbn Vr - 5%									0
1													1
2													2
3													3
4													4
5													5
6													6
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49													49

DRILL RIG - MAYHEW 1500
 DRILLED FROM ICE
 WATER DEPTH - 0.91m
 ORIGINAL BOREHOLE NUMBER - C-3

SAMPLE TYPE

☐ THIN W. TUBE	☐ HEAVY W. TUBE
☐ NO RECOVERY	☐ CORE
☐ SPLIT SPOON	☐ GRAB

EBA ENGINEERING CONSULTANTS LTD.
 EDMONTON ALBERTA
 DRAWING NUMBER
 N/A

BOREHOLE
 NUMBER
 74BRC3
 PAGE 1 OF 2

BOREHOLE LOG AND LABORATORY TEST RESULTS

1974 INVESTIGATION - BLOW RIVER HUDSONS' BAY OIL AND GAS LTD.				EBA # E-758 N7646290 E419920 Z8		Bulk Density Mg/m ³ ▲ 1.4 1.6 1.8 2				SPECIAL TESTS	UNIT	DEPTH (ft)
SAMPLE			SOIL DESCRIPTION	GROUND ICE DESCRIPTION	TEMP C	PLASTIC LIMIT	WATER CONTENT (%)	LIQUID LIMIT				
TYP	NO.	Q										
			SILT (ml) - (cont'd)									50
												51
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												98
DRILL RIG - MAYHEW 1500 DRILLED FROM ICE WATER DEPTH - 0.91m ORIGINAL BOREHOLE NUMBER - C-3				SAMPLE TYPE ☐ THIN W. TUBE ☐ HEAVY W. TUBE ☐ NO RECOVERY ☐ CORE ☐ SPLIT SPOON ☐ GRAB		EBA ENGINEERING CONSULTANTS LTD. EDMONTON ALBERTA DRAWING NUMBER N/A				BOREHOLE NUMBER 74BRC3 PAGE 2 OF 2		

BOREHOLE LOG AND LABORATORY TEST RESULTS

1974 INVESTIGATION - BLOW RIVER HUDSONS' BAY OIL AND GAS LTD.				EBA # E-758 N7549460 E414750 Z8		Bulk Density Mg/m ³ ▲ 1.4 1.5 1.6 2				SPECIAL TESTS	UNIT
SAMPLE		SOIL DESCRIPTION	GROUND ICE DESCRIPTION	TEMP C	PLASTIC LIMIT	WATER CONTENT (%)	LIQUID LIMIT				
TYP	NO. Q										
0		SILT (ml) - light grey	FROZEN Nbr and Vx to Vc								0
1											1
2											2
3											3
4											4
5											5
6											6
7											7
8											8
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DRILL RIG - MAYHEW 1500
 DRILLED FROM ICE
 WATER DEPTH - 1.52m
 ORIGINAL BOREHOLE NUMBER - C-15

SAMPLE TYPE

☐ THIN W. TUBE	☐ HEAVY W. TUBE
☐ NO RECOVERY	☐ CORE
☐ SPLIT SPOON	☒ GRAB

EBA ENGINEERING CONSULTANTS LTD.
 EDMONTON ALBERTA

DRAWING NUMBER
N/A

BOREHOLE NUMBER
74BRC15

PAGE 1 OF 2

BOREHOLE LOG AND LABORATORY TEST RESULTS

1974 INVESTIGATION - BLOW RIVER HUDSONS' BAY OIL AND GAS LTD.				EBA # E-758 N7849480 E414750 Z8		Bulk Density Mg/m ³ ▲ 1.4 1.6 1.8 2			SPECIAL TESTS	UNIT	DEPTH (ft)																																																																
SAMPLE			SOIL DESCRIPTION	GROUND ICE DESCRIPTION	TEMP C	PLASTIC LIMIT	WATER CONTENT (%)	LIQUID LIMIT																																																																			
TYP	NO.	Q																																																																									
15			SILT (ml) - (cont'd)	Nbn to Vx							50																																																																
16											SILT (ml) - (cont'd)	Nbn to Vx							51																																																								
17																			SILT (ml) - (cont'd)	Nbn to Vx							52																																																
18																											SILT (ml) - (cont'd)	Nbn to Vx							53																																								
19																																			SILT (ml) - (cont'd)	Nbn to Vx							54																																
20																																											SILT (ml) - (cont'd)	Nbn to Vx							55																								
21																																																			SILT (ml) - (cont'd)	Nbn to Vx							56																
22																																																											SILT (ml) - (cont'd)	Nbn to Vx							57								
23																																																																			SILT (ml) - (cont'd)	Nbn to Vx							58
24																																																																											SILT (ml) - (cont'd)
25			SILT (ml) - (cont'd)	Nbn to Vx																																																																							
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																																																			SILT (ml) - (cont'd)	Nbn to Vx																							
																																																											SILT (ml) - (cont'd)	Nbn to Vx															

1974 INVESTIGATION - BLOW RIVER HUDSONS' BAY OIL AND GAS LTD.				EBA # E-758 N7849550 E413830 Z8		Bulk Density Mg/m ³ ▲ 1.4 1.6 1.8 2				SPECIAL TESTS	UNIT	DEPTH (ft)
SAMPLE			SOIL DESCRIPTION	GROUND ICE DESCRIPTION	TEMP C	PLASTIC LIMIT	WATER CONTENT (%)	LIQUID LIMIT				
TYP	NO.	Q										
0			SILT (ml) - light grey	FROZEN Nbn some Vx								0
1												1
2												2
3												3
4												4
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												49

DRILL RIG - MAYHEW 1500
 DRILLED FROM ICE
 WATER DEPTH - 0.91m
 ORIGINAL BOREHOLE NUMBER - C-26

SAMPLE TYPE

☐ THIN W. TUBE	☐ HEAVY W. TUBE
☐ NO RECOVERY	☐ CORE
☐ SPLIT SPOON	☐ GRAB

EBA ENGINEERING CONSULTANTS LTD.
 EDMONTON ALBERTA
 DRAWING NUMBER
 N/A

BOREHOLE
 NUMBER
 74BRC26
 PAGE 1 OF 2

BOREHOLE LOG AND LABORATORY TEST RESULTS

1974 INVESTIGATION - BLOW RIVER HUDSONS' BAY OIL AND GAS LTD.				EBA # E-758 N7649550 E413830 Z8		Bulk Density Mg/m ³ ▲ 1.4 1.6 1.8 2				SPECIAL TESTS	UNIT	DEPTH (ft)
SAMPLE		SOIL DESCRIPTION	GROUND ICE DESCRIPTION	TEMP C	PLASTIC LIMIT	WATER CONTENT (%)	LIQUID LIMIT					
TYP	NO. Q											
15		GRAVEL (gp) - (cont'd)	Nbn some Vx									50
16												51
17		SILT (ml) - clayey	Nbn									52
18												53
19		CLAY (cl) - some silt, medium grey, low plasticity, moist, some organic layers	FROZEN Nf									54
20												55
21												56
22												57
23		END OF BOREHOLE AT 22.9m										58
24												59
25												60
26												61
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												98

DRILL RIG - MAYHEW 1500
 DRILLED FROM ICE
 WATER DEPTH - 0.91m
 ORIGINAL BOREHOLE NUMBER - C-26

SAMPLE TYPE	
THIN W. TUBE	HEAVY W. TUBE
NO RECOVERY	CORE
SPLIT SPOON	GRAB

EBA ENGINEERING CONSULTANTS LTD.
 EDMONTON ALBERTA
 DRAWING NUMBER
 N/A

BOREHOLE NUMBER
 74BRC26
 PAGE 2 OF 2

BOREHOLE LOG AND LABORATORY TEST RESULTS

PROPOSED WELL LOCATION - 1 CANADIAN MARINE DRILLING LTD.			GEOCON # V8217 N7786680 E578414 Z8		Bulk Density Mg/m ³ ▲ 1.4 1.6 1.8 2				SPECIAL TESTS	UNIT			
SAMPLE TYP NO. Q		SOIL DESCRIPTION	GROUND ICE DESCRIPTION	TEMP C	PLASTIC LIMIT	WATER CONTENT (%)	LIQUID LIMIT						
DEPTH (m) 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	1	SAND (SP-SM) - silty, trace of clay, at sea bottom, very dense, trace of silt, grey brown, fine to medium grained	UNFROZEN		20	40	60	80					
	2												
	3												
	4												
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19													
20													

DRILL RIG - L44 DRILL
 DRILLED FROM ICE
 WATER DEPTH - 29.0m
 ORIGINAL BOREHOLE NUMBER - LOCATION 1

SAMPLE TYPE

THIN W. TUBE	HEAVY W. TUBE
NO RECOVERY	CORE
SPLIT SPOON	GRAB

EBA ENGINEERING CONSULTANTS LTD.
 EDMONTON ALBERTA
 DRAWING NUMBER

BOREHOLE NUMBER
 75LOC1
 PAGE 1 OF 4

BOREHOLE LOG AND LABORATORY TEST RESULTS

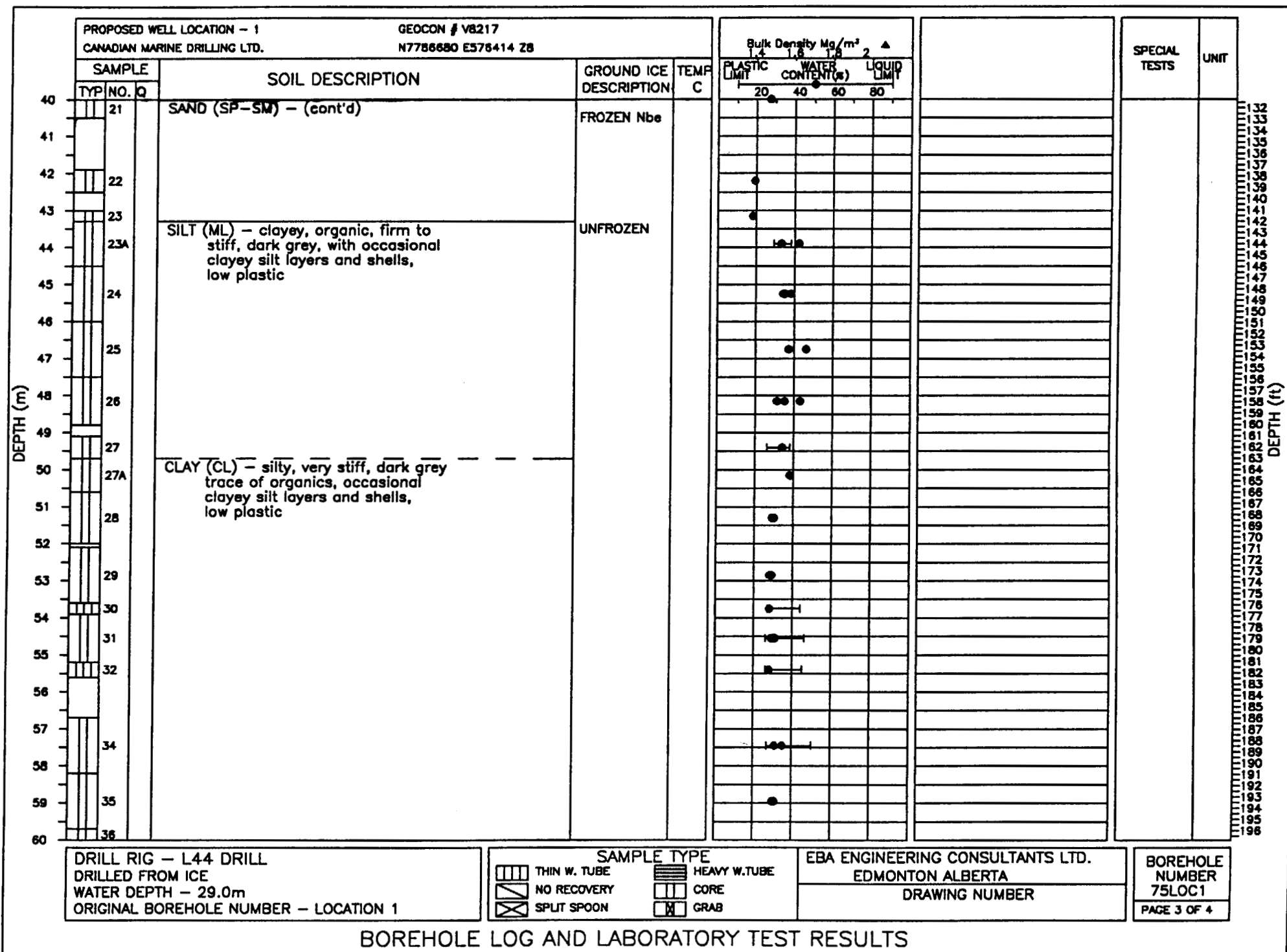
PROPOSED WELL LOCATION - 1 CANADIAN MARINE DRILLING LTD.			GEOCON # V8217 N7786680 E578414 Z8		Bulk Density Mg/m ³ ▲ 1.4 1.6 1.8 2			SPECIAL TESTS	UNIT
SAMPLE		SOIL DESCRIPTION	GROUND ICE DESCRIPTION	TEMP C	PLASTIC LIMIT	WATER CONTENT (%)	LIQUID LIMIT		
TYP	NO. Q								
20	13	SAND (SP-SM) - (cont'd)							
21									
22	14								
23									
24									
25	15								
26									
27									
28	16								
29									
30									
31	17								
32									
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35	19								
36									
37									
38									
39									
40	21								
DRILL RIG - L44 DRILL DRILLED FROM ICE WATER DEPTH - 29.0m ORIGINAL BOREHOLE NUMBER - LOCATION 1			SAMPLE TYPE THIN W. TUBE NO RECOVERY SPLIT SPOON		HEAVY W. TUBE CORE GRAB		EBA ENGINEERING CONSULTANTS LTD. EDMONTON ALBERTA DRAWING NUMBER		BOREHOLE NUMBER 75LOC1 PAGE 2 OF 4

DEPTH (m)

DEPTH (ft)

FROZEN
 BARELY
 VISIBLE ICE
 CRYSTALS
 Nf 7%

BOREHOLE LOG AND LABORATORY TEST RESULTS



PROPOSED WELL LOCATION - 1 CANADIAN MARINE DRILLING LTD.				GEOCON # V8217 N7786680 E578414 Z8		Bulk Density Mg/m ³ ▲		SPECIAL TESTS	UNIT	DEPTH (ft)
SAMPLE		SOIL DESCRIPTION	GROUND ICE DESCRIPTION	TEMP C	WATER CONTENT (%)		PLASTIC LIMIT			
TYP	NO. Q				20	40				
	36	CLAY (CL) - (cont'd)	UNFROZEN							197
										198
	37									199
										200
										201
										202
										203
										204
	38	high plastic (CH)								205
		END OF BOREHOLE AT 63.4m								206
										207
										208
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										212
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										258
										259
										260
										261
										262

DRILL RIG - L44 DRILL
 DRILLED FROM ICE
 WATER DEPTH - 29.0m
 ORIGINAL BOREHOLE NUMBER - LOCATION 1

SAMPLE TYPE

☐ THIN W. TUBE	☐ HEAVY W. TUBE
☐ NO RECOVERY	☐ CORE
☐ SPLIT SPOON	☐ GRAB

EBA ENGINEERING CONSULTANTS LTD.
 EDMONTON ALBERTA
 DRAWING NUMBER

BOREHOLE NUMBER
 75LOC1
 PAGE 4 OF 4

BOREHOLE LOG AND LABORATORY TEST RESULTS

PROPOSED WELL LOCATION - 1 CANADIAN MARINE DRILLING LTD.				GEOCON # V8217 N7786680 E576414 Z8		Bulk Density Mg/m ³ ▲ 1.4 1.6 1.8 2					SPECIAL TESTS	UNIT
SAMPLE		SOIL DESCRIPTION	GROUND ICE DESCRIPTION	TEMP C	WATER CONTENT (%)							
TYP	NO. Q				PLASTIC LIMIT	20	40	60	80			
0		SAND (sp) - brown, medium	UNFROZEN									0
		CLAY (cl) - sandy, grey, trace organics										1
												2
		END OF BOREHOLE AT 0.67m										3
1												4
												5
												6
												7
												8
												9
2												10
												11
												12
												13
												14
												15
3												16

DRILL RIG - L44 DRILL
 DRILLED FROM ICE
 WATER DEPTH - 31.4m
 ORIGINAL BOREHOLE NUMBER - LOC. 1 SITE 1

SAMPLE TYPE

☐ THIN W. TUBE	☐ HEAVY W. TUBE
☐ NO RECOVERY	☐ PISTON
☐ SPLIT SPOON	☐ GRAB

EBA ENGINEERING CONSULTANTS LTD.
 EDMONTON ALBERTA
 DRAWING NUMBER

BOREHOLE NUMBER
75L1S1

BOREHOLE LOG AND LABORATORY TEST RESULTS

PROPOSED WELL LOCATION - 1 CANADIAN MARINE DRILLING LTD.				GEOCON # V8217 N7786680 E578414 Z8		Bulk Density Mg/m ³ ▲ 1.4 1.6 1.8 2.0 PLASTIC LIMIT WATER CONTENT (%) LIQUID LIMIT 20 40 60 80						SPECIAL TESTS	UNIT		
SAMPLE		SOIL DESCRIPTION	GROUND ICE DESCRIPTION	TEMP C											
TYP	NO.				Q										
0			CLAY and SAND (cl/sc) - sandy clay to clayey sand, grey	UNFROZEN										0	
			SAND (sp) - grey												1
			CLAY and SAND (cl-sc) - sandy clay to clayey sand, grey												2
															3
1														4	
														5	
														6	
														7	
														8	
														9	
2			END OF BOREHOLE AT 1.7m												
3															

DRILL RIG - L44 DRILL
 DRILLED FROM ICE
 WATER DEPTH - 29.6m
 ORIGINAL BOREHOLE NUMBER - LOC. 1 SITE 2

SAMPLE TYPE

THIN W. TUBE	HEAVY W. TUBE
NO RECOVERY	PISTON
SPLIT SPOON	GRAB

EBA ENGINEERING CONSULTANTS LTD.
 EDMONTON ALBERTA
 DRAWING NUMBER

BOREHOLE NUMBER
 75L1S2

BOREHOLE LOG AND LABORATORY TEST RESULTS

PROPOSED WELL LOCATION - 1 CANADIAN MARINE DRILLING LTD.				GEOCON # V8217 N7786680 E578414 Z8		Bulk Density Mg/m ³ ▲ 1.4 1.6 1.8 2					SPECIAL TESTS	UNIT	
SAMPLE			SOIL DESCRIPTION	GROUND ICE DESCRIPTION	TEMP C	PLASTIC LIMIT WATER CONTENT (%) LIQUID LIMIT							
TYP	NO.	Q				20	40	60	80				
0			CLAY (CL) - sandy, grey, trace of organics	UNFROZEN								0	
													1
													2
													3
													4
													5
													6
													7
													8
													9
1			END OF BOREHOLE AT 1.34m									10	
2												11	
3												12	

DRILL RIG - L44 DRILL
 DRILLED FROM ICE
 WATER DEPTH - 31.7m
 ORIGINAL BOREHOLE NUMBER - LOC. 1 SITE 4

SAMPLE TYPE

☐ THIN W. TUBE	☐ HEAVY W. TUBE
☐ NO RECOVERY	☐ PISTON
☐ SPLIT SPOON	☐ GRAB

EBA ENGINEERING CONSULTANTS LTD.
 EDMONTON ALBERTA
 DRAWING NUMBER

BOREHOLE NUMBER
75L1S4

BOREHOLE LOG AND LABORATORY TEST RESULTS

CANADIAN MARINE DRILLING LTD.				GEOCON # V8 N7786680 E576414 Z8		Bulk Density Mg/m ³ ▲ 1.4 1.6 1.8 2						SPECIAL TESTS		UNIT		
SAMPLE		SOIL DESCRIPTION			GROUND ICE DESCRIPTION	TEMP C	PLASTIC LIMIT WATER CONTENT (%) LIQUID LIMIT 20 40 60 80									
TYP NO. Q		SAND (sp) - fine to medium, brown grey			UNFROZEN											
		CLAY (cl) - silty, trace of organics, grey														
		SAND (SP-SM) - fine to medium, trace of organics, brown-grey														
		END OF BOREHOLE AT 0.85m														
DEPTH (m)															DEPTH (ft)	
0															0	
1															1	
2															2	
3															3	
4															4	
5															5	
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PROPOSED WELL LOCATION - 1 CANADIAN MARINE DRILLING LTD.				GEOCON # V8217 N7786680 E578414 ZB		Bulk Density Mg/m ³ ▲ 1.4 1.6 1.8 2					SPECIAL TESTS	UNIT
SAMPLE		SOIL DESCRIPTION	GROUND ICE DESCRIPTION	TEMP C	PLASTIC LIMIT WATER CONTENT (%) LIQUID LIMIT							
TYP	NO. Q				20	40	60	80				
DEPTH (m)	0		SAND (sc) - clayey	UNFROZEN								
			SAND (sp) - fine to medium, brown									
			SAND and CLAY (cl/sc) - clayey sand to sandy clay, grey									
			SAND (sp) - fine to medium, brown									
			SAND and CLAY (SC) - clayey sand to sandy clay, grey									
			SAND (sp) - fine to medium									
		END OF BOREHOLE AT 1.46m										
1												
2												
3												

DRILL RIG - L44 DRILL
 DRILLED FROM ICE
 WATER DEPTH - 28.0m
 ORIGINAL BOREHOLE NUMBER - LOC. 1 SITE 7

SAMPLE TYPE

☐ THIN W. TUBE	☐ HEAVY W. TUBE
☐ NO RECOVERY	☐ PISTON
☐ SPLIT SPOON	☐ GRAB

EBA ENGINEERING CONSULTANTS LTD.
 EDMONTON ALBERTA
 DRAWING NUMBER

BOREHOLE NUMBER
 75L1S7

BOREHOLE LOG AND LABORATORY TEST RESULTS

DEPTH (ft)

PROPOSED WELL LOCATION - 1 CANADIAN MARINE DRILLING LTD.				GEOCON # V8217 N7786680 E576414 Z8		Bulk Density Mg/m ³ ▲ 1.4 1.6 1.8 2				SPECIAL TESTS	UNIT	
SAMPLE			SOIL DESCRIPTION	GROUND ICE DESCRIPTION	TEMP C	PLASTIC WATER LIQUID LIMIT CONTENT (%) LIMIT						
TYP	NO.	Q				20	40	60	80			
0			CLAY (cl) - silty, grey	UNFROZEN								
1			SAND (sp) - fine to medium, trace organics and shells, brown grey, (50mm silty clay seam at 0.76m)	UNFROZEN								
2			END OF BOREHOLE AT 1.40m	UNFROZEN								
3				UNFROZEN								

DRILL RIG - L44 DRILL
 DRILLED FROM ICE
 WATER DEPTH - 30.2m
 ORIGINAL BOREHOLE NUMBER - LOC. 1 SITE 8

SAMPLE TYPE	
THIN W. TUBE	HEAVY W. TUBE
NO RECOVERY	PISTON
SPLIT SPOON	GRAB

EBA ENGINEERING CONSULTANTS LTD.
 EDMONTON ALBERTA
 DRAWING NUMBER

BOREHOLE NUMBER
 75L1S8

BOREHOLE LOG AND LABORATORY TEST RESULTS

PROPOSED WELL LOCATION - 1 CANADIAN MARINE DRILLING LTD.				GEOCON # V8217 N7786680 E576414 Z8		Bulk Density Mg/m ³ ▲ 1.4 1.6 1.8 2.0					SPECIAL TESTS	UNIT		
SAMPLE			SOIL DESCRIPTION	GROUND ICE DESCRIPTION	TEMP C	PLASTIC LIMIT WATER CONTENT (%) LIQUID LIMIT								
TYP	NO.	Q				20	40	60	80					
0			SAND and CLAY (SC) - clayey sand to sandy clay, trace of organics and shells, grey	UNFROZEN								0		
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DRILL RIG - L44 DRILL
 DRILLED FROM ICE
 WATER DEPTH - 28.0m
 ORIGINAL BOREHOLE NUMBER - LOC. 1 SITE 3

SAMPLE TYPE

☐ THIN W. TUBE	☐ HEAVY W. TUBE
☐ NO RECOVERY	☐ PISTON
☐ SPLIT SPOON	☐ GRAB

EBA ENGINEERING CONSULTANTS LTD.
 EDMONTON ALBERTA
 DRAWING NUMBER

BOREHOLE NUMBER
 75L1S9

BOREHOLE LOG AND LABORATORY TEST RESULTS

SITE INVESTIGATION - BORING 2, TARSUUT CANADIAN MARINE DRILLING LTD				McC # 0178-028-1 N7755484 E448656 Z8											
SAMPLE		SOIL DESCRIPTION		GROUND ICE DESCRIPTION		TEMP C		Bulk Density Mg/m ³ ▲ PLASTIC LIMIT WATER CONTENT (%) LIQUID LIMIT				SPECIAL TESTS		UNIT	
TYP NO. Q															
30		CLAY (CL) - (cont'd)												99	
31		SILT (ML) - clayey, olive grey, clay partings and seams												100	
32														101	
33														102	
34														103	
35		CLAY (CL) - calcareous, silty, stiff to very stiff, grey, with some silt and sand partings and seams												104	
36														105	
37														106	
38														107	
39														108	
40														109	
41														110	
42														111	
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														145	
														146	
														147	

DRILL RIG - FA 1500
DRILL SHIP - CANMAR SUPPLIER V
WATER DEPTH - 23.2m
ORIGINAL BOREHOLE NUMBER - BORING 2

THIN W. TUBE
NO RECOV.
SPLIT SPOON

HEAVY W. TUBE
VBROCORE
GRAB

EBA ENGINEERING CONSULTANTS LTD.
EDMONTON ALBERTA
DRAWING NUMBER

BOREHOLE NUMBER
BORING2
PAGE 3 OF 9

BOREHOLE LOG AND LABORATORY TEST RESULTS

SITE INVESTIGATION - BORING 2, TARSUUT CANADIAN MARINE DRILLING LTD				McC # 0178-028-1 N7755484 E448656 Z8		Bulk Density Mg/m ³ ▲			SPECIAL TESTS	UNIT	DEPTH (ft)
SAMPLE		SOIL DESCRIPTION	GROUND ICE DESCRIPTION	TEMP C	PLASTIC LIMIT	WATER CONTENT (%)	LIQUID LIMIT				
TYP	NO. Q										
		CLAY (CL) - (cont'd)									148
											149
											150
											151
											152
											153
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											157
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											193
											194
											195
											196
		- some organic pockets									

DRILL RIG - FA 1500
 DRILL SHIP - CANMAR SUPPLIER V
 WATER DEPTH - 23.2m
 ORIGINAL BOREHOLE NUMBER - BORING 2

SAMPLE TYPE

THIN W. TUBE	HEAVY W. TUBE
NO RECOV.	VIBROCORE
SPLIT SPOON	GRAB

EBA ENGINEERING CONSULTANTS LTD.
 EDMONTON ALBERTA
 DRAWING NUMBER

BOREHOLE NUMBER
 BORING2
 PAGE 4 OF 9

BOREHOLE LOG AND LABORATORY TEST RESULTS

SITE INVESTIGATION - BORING 2, TARSUUT CANADIAN MARINE DRILLING LTD				McC # 0178-028-1 N7755484 E448656 Z8								
SAMPLE			SOIL DESCRIPTION	GROUND ICE DESCRIPTION	TEMP C	Bulk Density Mg/m ³ ▲			SPECIAL TESTS	UNIT	DEPTH (ft)	
TYP	NO.	Q				PLASTIC LIMIT	WATER CONTENT (%)	LIQUID LIMIT				
			SAND (SP) - (cont'd)								50	
											51	
											52	
											53	
											54	
											55	
											56	
											57	
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											98	

DRILL RIG - FA 1500 DRILL SHIP - CANMAR SUPPLIER V WATER DEPTH - 23.2m ORIGINAL BOREHOLE NUMBER - BORING 2	SAMPLE TYPE THIN W. TUBE NO RECOV. SPLIT SPOON HEAVY W.TUBE VIBROCORE GRAB	EBA ENGINEERING CONSULTANTS LTD. EDMONTON ALBERTA DRAWING NUMBER	BOREHOLE NUMBER BORING2 PAGE 2 OF 9
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BOREHOLE LOG AND LABORATORY TEST RESULTS

SITE INVESTIGATION - BORING 2, TARSUUT CANADIAN MARINE DRILLING LTD				McC # 0178-028-1 N7755484 E448656 Z8		Bulk Density Mg/m ³ ▲ 1.4 1.6 1.8 2.0			SPECIAL TESTS	UNIT	DEPTH (ft)
SAMPLE		SOIL DESCRIPTION	GROUND ICE DESCRIPTION	TEMP C	PLASTIC LIMIT	WATER CONTENT (%)	LIQUID LIMIT				
TYP	NO. Q										
		CLAY (CL) - (cont'd)									197
											198
											199
											200
											201
											202
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											245
											246
		- becoming high plastic (CH)									

DRILL RIG - FA 1500
 DRILL SHIP - CANMAR SUPPLIER V
 WATER DEPTH - 23.2m
 ORIGINAL BOREHOLE NUMBER - BORING 2

SAMPLE TYPE

THIN W. TUBE	HEAVY W. TUBE
NO RECOV.	VIBROCORE
SPLIT SPOON	GRAB

EBA ENGINEERING CONSULTANTS LTD.
 EDMONTON ALBERTA
 DRAWING NUMBER

BOREHOLE NUMBER
 BORING2
 PAGE 5 OF 9

BOREHOLE LOG AND LABORATORY TEST RESULTS

SITE INVESTIGATION - BORING 2, TARSUUT CANADIAN MARINE DRILLING LTD				McC # 0178-028-1 N7753484 E448656 Z8		Bulk Density Mg/m ³ ▲ 1.4 1.6 1.8 2				SPECIAL TESTS	UNIT	DEPTH (ft)
SAMPLE			SOIL DESCRIPTION	GROUND ICE DESCRIPTION	TEMP C	PLASTIC LIMIT	WATER CONTENT (%)	LIQUID LIMIT				
TYP	NO.	Q										
	81		SILT (ML) - (cont'd)									296
												297
												298
												299
												300
												301
												302
												303
												304
												305
												306
												307
	82		- isolated ice crystals									308
												309
												310
												311
	83		CLAY (CL) - calcareous, silty, very stiff to hard, olive grey									312
	84											313
												314
												315
												316
												317
	86		- silty pockets									318
												319
												320
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												325
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												327
	88											328
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	90											338
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												343
												344

DRILL RIG - FA 1500
 DRILL SHIP - CANMAR SUPPLIER V
 WATER DEPTH - 23.2m
 ORIGINAL BOREHOLE NUMBER - BORING 2

SAMPLE TYPE

THIN W. TUBE

NO RECOV.

SPLIT SPOON

HEAVY W. TUBE

VIBROCORE

GRAB

EBA ENGINEERING CONSULTANTS LTD.
 EDMONTON ALBERTA
 DRAWING NUMBER

BOREHOLE NUMBER
 BORING2
 PAGE 7 OF 9

BOREHOLE LOG AND LABORATORY TEST RESULTS

SITE INVESTIGATION - BORING 2, TARSUUT CANADIAN MARINE DRILLING LTD				McC # 0178-028-1 N7755484 E448656 Z8		Bulk Density Mg/m ³ ▲ 1.4 1.6 1.8 2			SPECIAL TESTS	UNIT	DEPTH (ft)
SAMPLE			SOIL DESCRIPTION	GROUND ICE DESCRIPTION	TEMP C	PLASTIC LIMIT	WATER CONTENT (%)	LIQUID LIMIT			
TYP	NO.	Q									
			CLAY (CL) - (cont'd)								345
			- high plastic (CH)								346
	92										347
											348
											349
											350
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											352
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	93										357
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	97										368
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	99		- sand seam	UNFROZEN							382
											383
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											387
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											389
											390
											391
											392
											393

DRILL RIG - FA 1500
 DRILL SHIP - CANMAR SUPPLIER V
 WATER DEPTH - 23.2m
 ORIGINAL BOREHOLE NUMBER - BORING 2

SAMPLE TYPE

THIN W. TUBE	HEAVY W. TUBE
NO RECOV.	VIBROCURE
SPLIT SPOON	GRAB

EBA ENGINEERING CONSULTANTS LTD.
 EDMONTON ALBERTA
 DRAWING NUMBER

BOREHOLE NUMBER
 BORING2
 PAGE 8 OF 9

BOREHOLE LOG AND LABORATORY TEST RESULTS

SITE INVESTIGATION - BORING 2, TARSUUT CANADIAN MARINE DRILLING LTD				McC # 0178-028-1 N7755484 E448656 Z8		Bulk Density Mg/m ³ ▲ 1.4 1.6 1.8 2				SPECIAL TESTS	UNIT	DEPTH (ft)
SAMPLE		SOIL DESCRIPTION	GROUND ICE DESCRIPTION	TEMP C	PLASTIC LIMIT	WATER CONTENT (%)	LIQUID LIMIT					
TYP	NO. Q											
		CLAY (CH) - (cont'd)										394
												395
												396
												397
		SAND (SM/sc) - silty, fine grained, olive grey, frozen										398
												399
												400
	101	END OF BOREHOLE at 122.5m	FROZEN									401
												402
												403
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DRILL RIG - FA 1500
 DRILL SHIP - CANMAR SUPPLIER V
 WATER DEPTH - 23.2m
 ORIGINAL BOREHOLE NUMBER - BORING 2

SAMPLE TYPE

THIN W. TUBE	HEAVY W. TUBE
NO RECOV.	VIBROCURE
SPLIT SPOON	GRAB

EBA ENGINEERING CONSULTANTS LTD.
 EDMONTON ALBERTA
 DRAWING NUMBER

BOREHOLE NUMBER
 BORING2
 PAGE 9 OF 9

BOREHOLE LOG AND LABORATORY TEST RESULTS

SITE INVESTIGATION - BORING 3, KOPANOAR CANADIAN MARINE DRILLING LTD				McC # 0178-028-3 N787004 E497875 Z8		Bulk Density Mg/m ³ ▲ 1.4 1.6 1.8 2.0 PLASTIC LIMIT WATER CONTENT (%) LIQUID LIMIT 20 40 60 80			SPECIAL TESTS	UNIT		
SAMPLE		SOIL DESCRIPTION	GROUND ICE DESCRIPTION	TEMP C								
TYP	NO. Q											
0	3	CLAY (CH) - high plastic, medium gray, very soft, trace of organics - increasing silt content, (MH)	UNFROZEN		1.4	1.6	1.8	2.0				
1	6											
2	9											
3	11											
4	13											
5	14											
6	17											
7	19											
8	20											
9	22											
10	24	SAND (SM) - some silt to silty, fine, light olive grey - fine gravel, organic streak			1.4	1.6	1.8	2.0				
11	27											
12	29											
13	31											
14	32											
15	35											

DRILL RIG - FA1500
 DRILL SHIP - CANMAR SUPPLIER V
 WATER DEPTH - 56.7m
 ORIGINAL BOREHOLE NUMBER - BORING 3

SAMPLE TYPE

THIN W. TUBE	HEAVY W. TUBE
NO RECOV.	VIBROCORE
SPLIT SPOON	GRAB

EBA ENGINEERING CONSULTANTS LTD.
 EDMONTON ALBERTA
 DRAWING NUMBER

BOREHOLE
 NUMBER
 BORING3
 PAGE 1 OF 9

BOREHOLE LOG AND LABORATORY TEST RESULTS

SITE INVESTIGATION - BORING 3, KOPANGAR CANADIAN MARINE DRILLING LTD				McC # 0178-028-3 N787004 E497875 Z8		Bulk Density Mg/m^3 ▲ 1.4 1.6 1.8 2				SPECIAL TESTS	UNIT	DEPTH (ft)
SAMPLE		SOIL DESCRIPTION	GROUND ICE DESCRIPTION	TEMP C	PLASTIC LIMIT	WATER CONTENT (%)	LIQUID LIMIT					
TYPE	NO. Q											
15		SAND (SM) - (cont'd)										50
16												51
17												52
18												53
19												54
20												55
21												56
22												57
23												58
24												59
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DRILL RIG - FA1500
 DRILL SHIP - CANMAR SUPPLIER V
 WATER DEPTH - 56.7m
 ORIGINAL BOREHOLE NUMBER - BORING 3

SAMPLE TYPE

THIN W. TUBE	HEAVY W. TUBE
NO RECOV.	VIBROCORE
SPLIT SPOON	GRAB

EBA ENGINEERING CONSULTANTS LTD.
 EDMONTON ALBERTA
 DRAWING NUMBER

BOREHOLE NUMBER
 BORING3
 PAGE 2 OF 9

BOREHOLE LOG AND LABORATORY TEST RESULTS

SITE INVESTIGATION - BORING 3, KOPANQAR				McC # 0178-028-3									
CANADIAN MARINE DRILLING LTD				N787004 E497875 Z8									
SAMPLE			SOIL DESCRIPTION		GROUND-ICE DESCRIPTION	TEMP C	Bulk Density Mg/m ³ ▲ 1.4 1.6 1.8 2 PLASTIC LIMIT WATER CONTENT(%) LIQUID LIMIT 20 40 60 80				SPECIAL TESTS		UNIT
TYP NO. Q													
30			SAND (SM) - (cont'd)										99
31					Visible Ice								100
32													101
33													102
34													103
35													104
36			- trace of silt (SP-SM)										105
37													106
38													107
39													108
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43													112
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261													330
262													

SITE INVESTIGATION - BORING 3, KOPANOAR CANADIAN MARINE DRILLING LTD				McC # 0178-028-3 N787004 E497875 Z8		Bulk Density Mg/m ³ ▲ 1.4 1.6 1.8 2				SPECIAL TESTS	UNIT	DEPTH (ft)
SAMPLE		SOIL DESCRIPTION	GROUND ICE DESCRIPTION	TEMP C	PLASTIC LIMIT	WATER CONTENT (%)	LIQUID LIMIT					
TYP	NO.								Q			
												148
												149
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DRILL RIG - FA1500
 DRILL SHIP - CANMAR SUPPLIER V
 WATER DEPTH - 56.7m
 ORIGINAL BOREHOLE NUMBER - BORING 3

SAMPLE TYPE

THIN W. TUBE	HEAVY W. TUBE
NO RECOV.	VIBROCORE
SPLIT SPOON	GRAB

EBA ENGINEERING CONSULTANTS LTD.
 EDMONTON ALBERTA
 DRAWING NUMBER

BOREHOLE NUMBER
 BORING3
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BOREHOLE LOG AND LABORATORY TEST RESULTS

SITE INVESTIGATION - BORING 3, KOPANGAR
McC # 0178-028-3
CANADIAN MARINE DRILLING LTD
N787004 E497875 Z8

Bulk Density Mg/m³ ▲
1.4 1.6 1.8 2

PLASTIC LIMIT **WATER CONTENT (%)** **LIQUID LIMIT**

20 40 60 80

DEPTH (m)	SAMPLE		SOIL DESCRIPTION	GROUND ICE DESCRIPTION	TEMP C	PLASTIC LIMIT WATER CONTENT (%) LIQUID LIMIT	SPECIAL TESTS	UNIT	DEPTH (ft)
	TYP	NO. Q							
60			SILT (ml) - (cont'd)						197
61									198
62									199
63									200
64									201
65									202
66									203
67									204
68									205
69									206
70									207
71									208
72									209
73									210
74									211
75									212
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									240
									241
									242
									243
									244
									245
									246

DRILL RIG - FA1500
DRILL SHIP - CANMAR SUPPLIER V
WATER DEPTH - 56.7m
ORIGINAL BOREHOLE NUMBER - BORING 3

SAMPLE TYPE

THIN W. TUBE
 NO RECOV.
 SPLIT SPOON

HEAVY W. TUBE
 VIBROCORE
 GRAB

EBA ENGINEERING CONSULTANTS LTD.
EDMONTON ALBERTA
DRAWING NUMBER

BOREHOLE NUMBER BORING3
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BOREHOLE LOG AND LABORATORY TEST RESULTS

SITE INVESTIGATION - BORING 3, KOPANQAR CANADIAN MARINE DRILLING LTD				McC # 0178-028-3 N787004 E497875 Z8		Bulk Density Mg/m ³ ▲ 1.4 1.6 1.8 2				SPECIAL TESTS	UNIT	DEPTH (ft)
SAMPLE			SOIL DESCRIPTION	GROUND ICE DESCRIPTION	TEMP C	PLASTIC LIMIT	WATER CONTENT (%)	LIQUID LIMIT				
TYP	NO.	Q										
90	120		CLAY (CL) AND SILT - (cont'd) - sandy silt 90.2 - 90.7m (CL-ML)									296
91												297
92												298
93												299
94												300
95												301
96												302
97												303
98												304
99												305
100												306
101												307
102												308
103												309
104												310
105												311
												312
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												340
												341
												342
												343
												344

DRILL RIG - FA1500
 DRILL SHIP - CANMAR SUPPLIER V
 WATER DEPTH - 56.7m
 ORIGINAL BOREHOLE NUMBER - BORING 3

SAMPLE TYPE	
THIN W. TUBE	HEAVY W. TUBE
NO RECOV.	VIBROCURE
SPLIT SPOON	GRAB

EBA ENGINEERING CONSULTANTS LTD.
 EDMONTON ALBERTA
 DRAWING NUMBER

BOREHOLE NUMBER
 BORING3
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BOREHOLE LOG AND LABORATORY TEST RESULTS

SITE INVESTIGATION - BORING 3, KOPANOAR CANADIAN MARINE DRILLING LTD				McC # 0178-028-3 N787004 E497875 Z8		Bulk Density Mg/m ³ ▲ 1.4 1.6 1.8 2		SPECIAL TESTS	UNIT	DEPTH (ft)	
SAMPLE		SOIL DESCRIPTION	GROUND ICE DESCRIPTION	TEMP C	PLASTIC LIMIT	WATER CONTENT (%)	LIQUID LIMIT				
TYP	NO. Q										
120		CLAY (CL) - (cont'd)	UNFROZEN							394	
	145										395
121	147										396
											397
122										398	
123										399	
										400	
										401	
										402	
										403	
										404	
										405	
124	149									406	
		END OF BOREHOLE at 124.0m								407	
125										408	
126										409	
127										410	
128										411	
129										412	
130										413	
131										414	
132										415	
133										416	
134										417	
135										418	
										419	
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										441	
										442	

DRILL RIG - FA1500
 DRILL SHIP - CANMAR SUPPLIER V
 WATER DEPTH - 56.7m
 ORIGINAL BOREHOLE NUMBER - BORING 3

SAMPLE TYPE

THIN W. TUBE	HEAVY W. TUBE
NO RECOV.	VIBROCORE
SPLIT SPOON	GRAB

EBA ENGINEERING CONSULTANTS LTD.
 EDMONTON ALBERTA
 DRAWING NUMBER

BOREHOLE NUMBER
 BORING3
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BOREHOLE LOG AND LABORATORY TEST RESULTS

SITE INVESTIGATION - BORING 4, NATSEK CANADIAN MARINE DRILLING LTD				McC # 0178-028-4 N7745551 E313044 Z8		Bulk Density Mg/m ³ ▲ 1.4 1.6 1.8 2				SPECIAL TESTS	UNIT
SAMPLE		SOIL DESCRIPTION	GROUND ICE DESCRIPTION	TEMP C	PLASTIC LIMIT	WATER CONTENT (%)	LIQUID LIMIT				
TYP	NO. Q										
0	2	CLAY (CH) - very soft to soft, olive grey	UNFROZEN								0
1	4										1
2	7	CLAY (CH) - stiff to hard, olive grey									2
3	9										3
4	10										4
5	14										5
6	16										6
7	20	- stiff to 12.2m									7
8	22										8
9	25										9
10	28										10
11	30										11
12	31										12
13	35	- very stiff to 16.5m	FROZEN								13
14	38										14
15											15

DRILL RIG - FA 1500
 DRILL SHIP - CANMAR SUPPLIER V
 WATER DEPTH - 32.9m
 ORIGINAL BOREHOLE NUMBER - BORING 4

SAMPLE TYPE

THIN W. TUBE	HEAVY W. TUBE
NO RECOV.	VIBROCURE
SPLIT SPOON	GRAB

EBA ENGINEERING CONSULTANTS LTD.
 EDMONTON ALBERTA
 DRAWING NUMBER

BOREHOLE NUMBER
 BORING4
 PAGE 1 OF 5

BOREHOLE LOG AND LABORATORY TEST RESULTS

SITE INVESTIGATION - BORING 4, NATSEK CANADIAN MARINE DRILLING LTD				McC # 0178-028-4 N7745551 E313044 Z8		Bulk Density Mg/m ³ ▲ 1.4 1.6 1.8 2			SPECIAL TESTS	UNIT	DEPTH (ft)
SAMPLE			SOIL DESCRIPTION	GROUND ICE DESCRIPTION	TEMP C	PLASTIC LIMIT	WATER CONTENT (%)	LIQUID LIMIT			
TYP	NO.	Q									
15			CLAY (CH) - (cont'd)								50
16											51
17		40	- hard to 28.7m, low plastic (CL) to 26.0m	ICE VEIN							52
18											53
19		41	- silt partings, trace organics								54
20											55
21											56
22											57
23		43	- coarse gravel, silty clay seams	FROZEN							58
24											59
25											60
26		46									61
27											62
28											63
29		48	- silty, partings, very stiff to 51.8m high plastic (CH)								64
30											65
											66
											67
											68
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DRILL RIG - FA 1500
 DRILL SHIP - CANMAR SUPPLIER V
 WATER DEPTH - 32.9m
 ORIGINAL BOREHOLE NUMBER - BORING 4

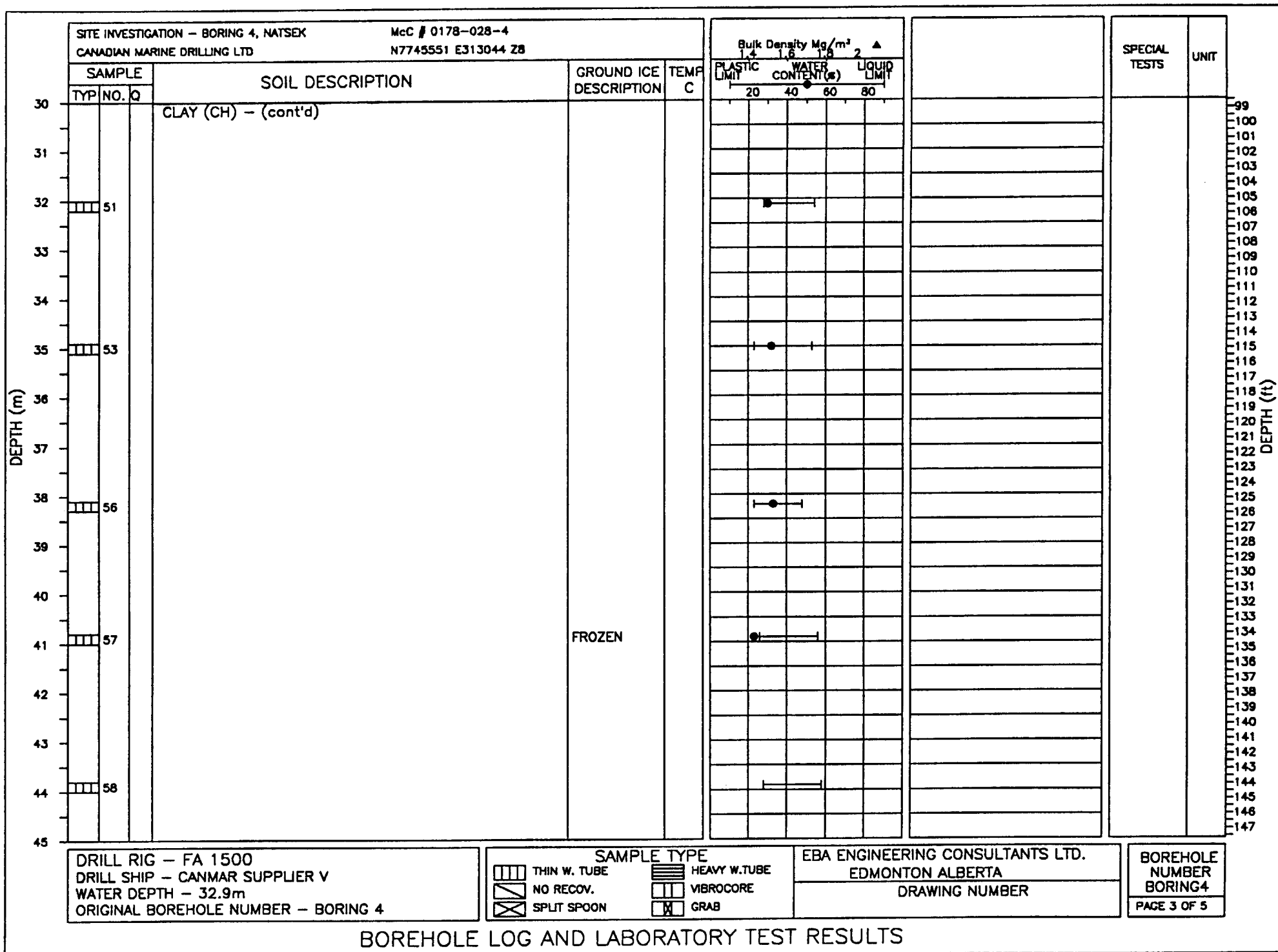
SAMPLE TYPE

THIN W. TUBE	HEAVY W. TUBE
NO RECOV.	VIBROCURE
SPLIT SPOON	GRAB

EBA ENGINEERING CONSULTANTS LTD.
 EDMONTON ALBERTA
 DRAWING NUMBER

BOREHOLE NUMBER
 BORING4
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BOREHOLE LOG AND LABORATORY TEST RESULTS



SITE INVESTIGATION - BORING 4, NATSEK CANADIAN MARINE DRILLING LTD				McC # 0178-028-4 N7745551 E313044 Z8		Bulk Density Mg/m ³ ▲ 1.4 1.6 1.8 2				SPECIAL TESTS	UNIT	DEPTH (ft)
SAMPLE			SOIL DESCRIPTION	GROUND ICE DESCRIPTION	TEMP C	PLASTIC LIMIT	WATER CONTENT (%)	LIQUID LIMIT				
TYP	NO.	Q										
			CLAY (CH) - (cont'd)									148
												149
												150
												151
												152
												153
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												194
												195
												196

DRILL RIG - FA 1500
 DRILL SHIP - CANMAR SUPPLIER V
 WATER DEPTH - 32.9m
 ORIGINAL BOREHOLE NUMBER - BORING 4

SAMPLE TYPE

THIN W. TUBE	HEAVY W. TUBE
NO RECOV.	VIBROCORE
SPLIT SPOON	GRAB

EBA ENGINEERING CONSULTANTS LTD.
 EDMONTON ALBERTA
 DRAWING NUMBER

BOREHOLE NUMBER
 BORING4
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BOREHOLE LOG AND LABORATORY TEST RESULTS

SITE INVESTIGATION - BORING 4, NATSEK CANADIAN MARINE DRILLING LTD				McC # 0178-028-4 N7745551 E313044 Z8		Bulk Density Mg/m^3 ▲ 1.4 1.6 1.8 2				SPECIAL TESTS	UNIT	DEPTH (ft)
DEPTH (m)	SAMPLE		SOIL DESCRIPTION	GROUND ICE DESCRIPTION	TEMP C	PLASTIC LIMIT	WATER CONTENT (%)	LIQUID LIMIT				
	TYP	NO. Q										
60			CLAY (CH) - (cont'd)									197
61												198
62		72	- slightly slickensided	ICE VEIN						45		199
63												200
64												201
65		73	END OF BOREHOLE at 65.4m	FROZEN						44		202
66												203
67												204
68												205
69												206
70												207
71												208
72												209
73												210
74												211
75												212
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												244
												245
												246

DRILL RIG - FA 1500
 DRILL SHIP - CANMAR SUPPLIER V
 WATER DEPTH - 32.9m
 ORIGINAL BOREHOLE NUMBER - BORING 4

SAMPLE TYPE

THIN W. TUBE	HEAVY W. TUBE
NO RECOV.	VIBROCORE
SPLIT SPOON	GRAB

EBA ENGINEERING CONSULTANTS LTD.
 EDMONTON ALBERTA
 DRAWING NUMBER

BOREHOLE NUMBER BORING4
 PAGE 5 OF 5

BOREHOLE LOG AND LABORATORY TEST RESULTS

1979 SITE INVESTIGATION - KILANNAK A-77				EBA / 101-2581											
CANADIAN MARINE DRILLING LTD				N7851708 E486859 Z9											
SAMPLE			SOIL DESCRIPTION	GROUND ICE DESCRIPTION	TEMP C	Bulk Density Mg/m ³ ▲			SPECIAL TESTS	UNIT	DEPTH (m)				
TYP	NO.	Q				PLASTIC LIMIT	WATER CONTENT (%)	LIQUID LIMIT							
			CLAY (CL) - grey, very soft	UNFROZEN							0				
	3											1			
	5											2			
												3			
	7											4			
												5			
	8		SILT (ML) - clayey, trace sand - interbedded silt and clay, silt pockets									6			
	9											7			
	11											8			
	12											9			
	13											10			
	14											11			
	17		CLAY (CL) - silty, trace to some sand, grey, stratified	POSSIBLY FROZEN							12				
	19			POSSIBLY FROZEN							13				
	20										14				
	22			UNFROZEN?							15				
	23			UNFROZEN?							16				
											17				
											18				
											19				
											20				
											21				
											22				
											23				
											24				
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											46				
											47				
											48				
											49				

DRILL RIG - FA 1500
 DRILL SHIP - CANMAR SUPPLIER V
 WATER - 25.6m
 ORIGINAL BOREHOLE NUMBER - BORING 5

SAMPLE TYPE

THIN W. TUBE	HEAVY W. TUBE
NO RECOV.	VIBROCORE
SPLIT SPOON	GRAB

EBA ENGINEERING CONSULTANTS LTD.
 EDMONTON ALBERTA
 DRAWING NUMBER

BOREHOLE NUMBER
 KL79-5
 PAGE 1 OF 9

BOREHOLE LOG AND LABORATORY TEST RESULTS

1979 SITE INVESTIGATION - KILANNAK A-77				EBA # 101-2581									
CANADIAN MARINE DRILLING LTD				N7851708 E486859 Z9									
SAMPLE		SOIL DESCRIPTION	GROUND ICE DESCRIPTION	TEMP C	Bulk Density Mg/m ³ ▲				SPECIAL TESTS	UNIT	DEPTH (m)		
TYP	NO. Q				PLASTIC LIMIT	WATER CONTENT (%)	LIQUID LIMIT						
	24	- grey, 3mm vertical ice veins									50		
											51		
											52		
	25	- trace sand below 16m, curved bedding	Vr								53		
											54		
											55		
											56		
											57		
	26	CLAY (CL) - silty, grey to olive grey	UNFROZEN?								58		
											59		
											60		
											61		
	27		UNFROZEN?								62		
											63		
											64		
	28		UNFROZEN?								65		
											66		
											67		
	29	SILT (ML) - clayey, grey to olive grey, some silt and clay pockets, trace sand	UNFROZEN?								68		
											69		
	30		FROZEN Vx10x								70		
											71		
											72		
	31		Vr, 3mm veins								73		
											74		
											75		
											76		
	32		Vr, 5mm veins								77		
											78		
											79		
											80		
	33		Vr								81		
											82		
											83		
											84		
											85		
											86		
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											90		
											91		
											92		
											93		
											94		
											95		
											96		
											97		
	34		Vs 3mm lense								98		

DRILL RIG - FA 1500

DRILL SHIP - CANMAR SUPPLIER V

WATER - 25.6m

ORIGINAL BOREHOLE NUMBER - BORING 5

SAMPLE TYPE

THIN W. TUBE

NO RECOV.

SPLIT SPOON

HEAVY W. TUBE

VIBROCORE

GRAB

EBA ENGINEERING CONSULTANTS LTD.

EDMONTON ALBERTA

DRAWING NUMBER

BOREHOLE NUMBER KL79-5

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BOREHOLE LOG AND LABORATORY TEST RESULTS

1979 SITE INVESTIGATION - KILANNAK A-77
CANADIAN MARINE DRILLING LTD

EBA # 101-2581
N7851708 E486859 Z9

DEPTH (m)	SAMPLE		SOIL DESCRIPTION	GROUND ICE DESCRIPTION	TEMP C	Bulk Density Mg/m ³ ▲				SPECIAL TESTS	UNIT	DEPTH (ft)
	TYP	NO. Q				PLASTIC LIMIT	WATER CONTENT (%)	LIQUID LIMIT				
30			SILT (ML) - (cont'd)									99
31												100
32		35		Vs 5mm lenses								101
33		36	- 5mm ice lenses	Vr 3-5mm veins								102
34			- 3-5mm ice veins 45 deg. to horizontal									103
35		37		Vr								104
36		38		Vr								105
37		41		UNFROZEN?								106
38		43	- becoming (CL)	UNFROZEN? UNFROZEN?								107
39												108
40		44	SAND (SM) - silty, trace to some clay, fine-grained sand, laminated, olive grey	UNFROZEN?								109
41		45		FROZEN, Nbn								110
42		46		Nbn								111
43		47		Nbn								112
44		49		Nbn								113
45		50										114

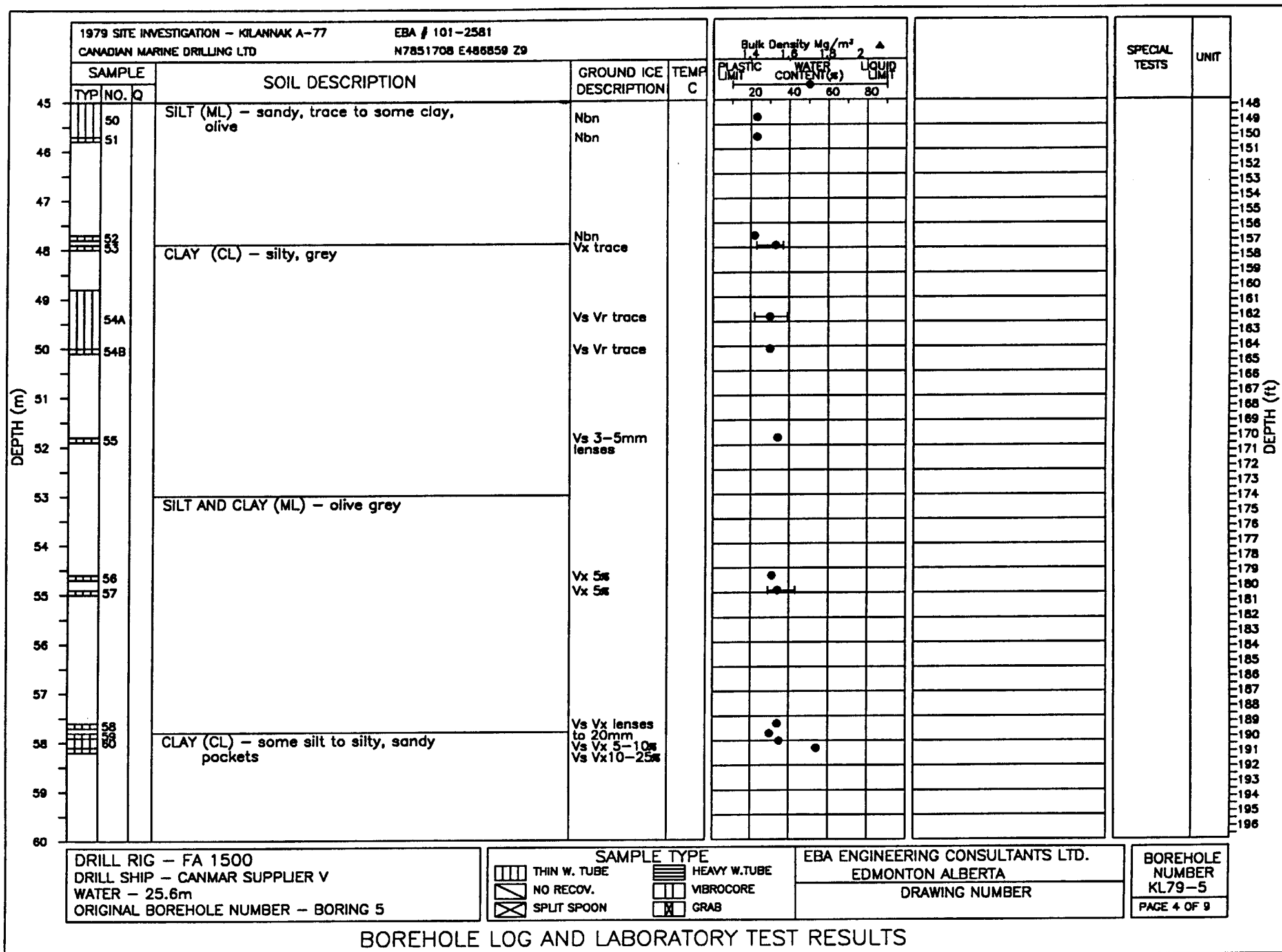
DRILL RIG - FA 1500
DRILL SHIP - CANMAR SUPPLIER V
WATER - 25.6m
ORIGINAL BOREHOLE NUMBER - BORING 5

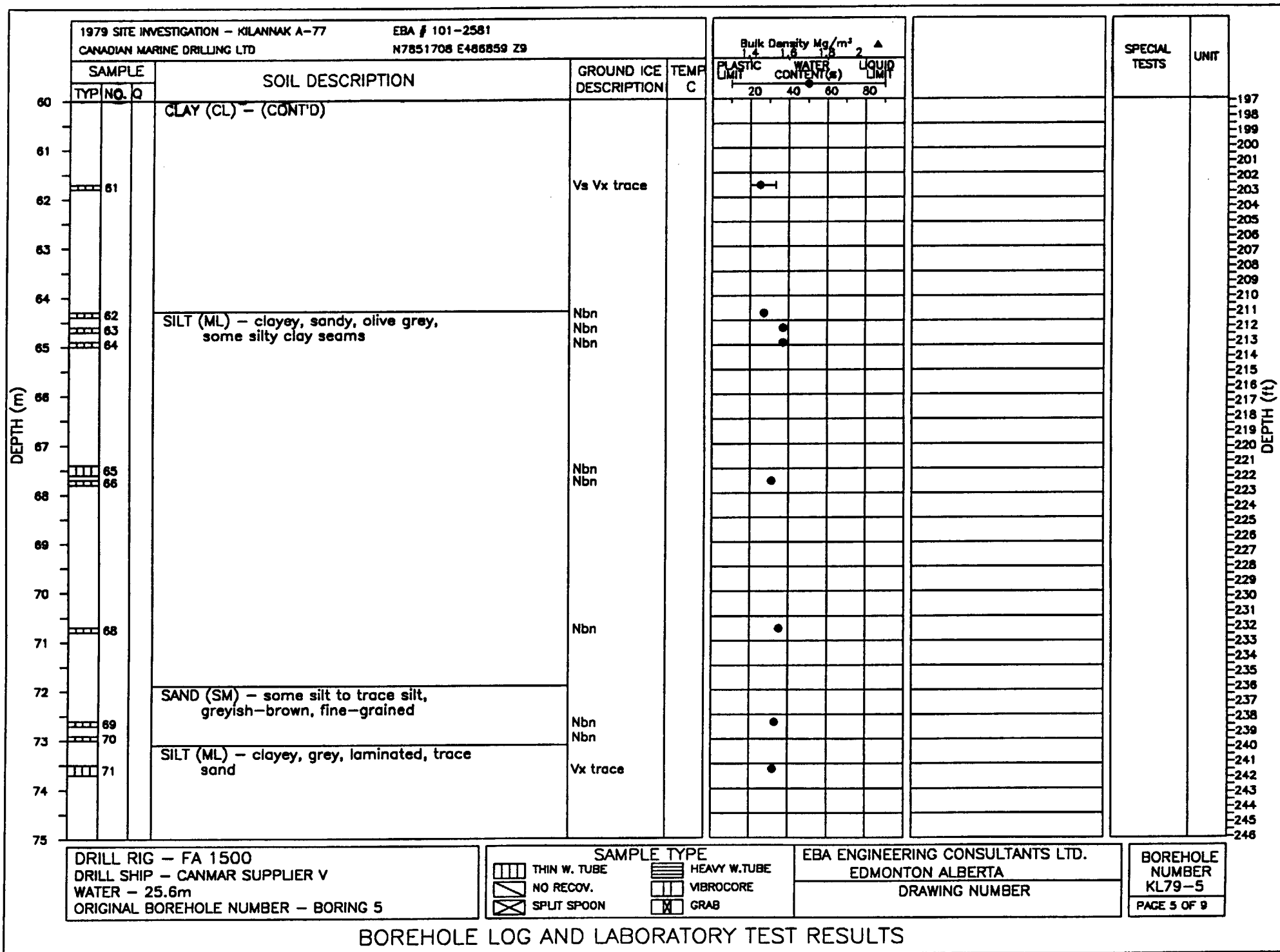
SAMPLE TYPE
 THIN W. TUBE
 NO RECOV.
 SPLIT SPOON
 HEAVY W. TUBE
 VIBROCORE
 GRAB

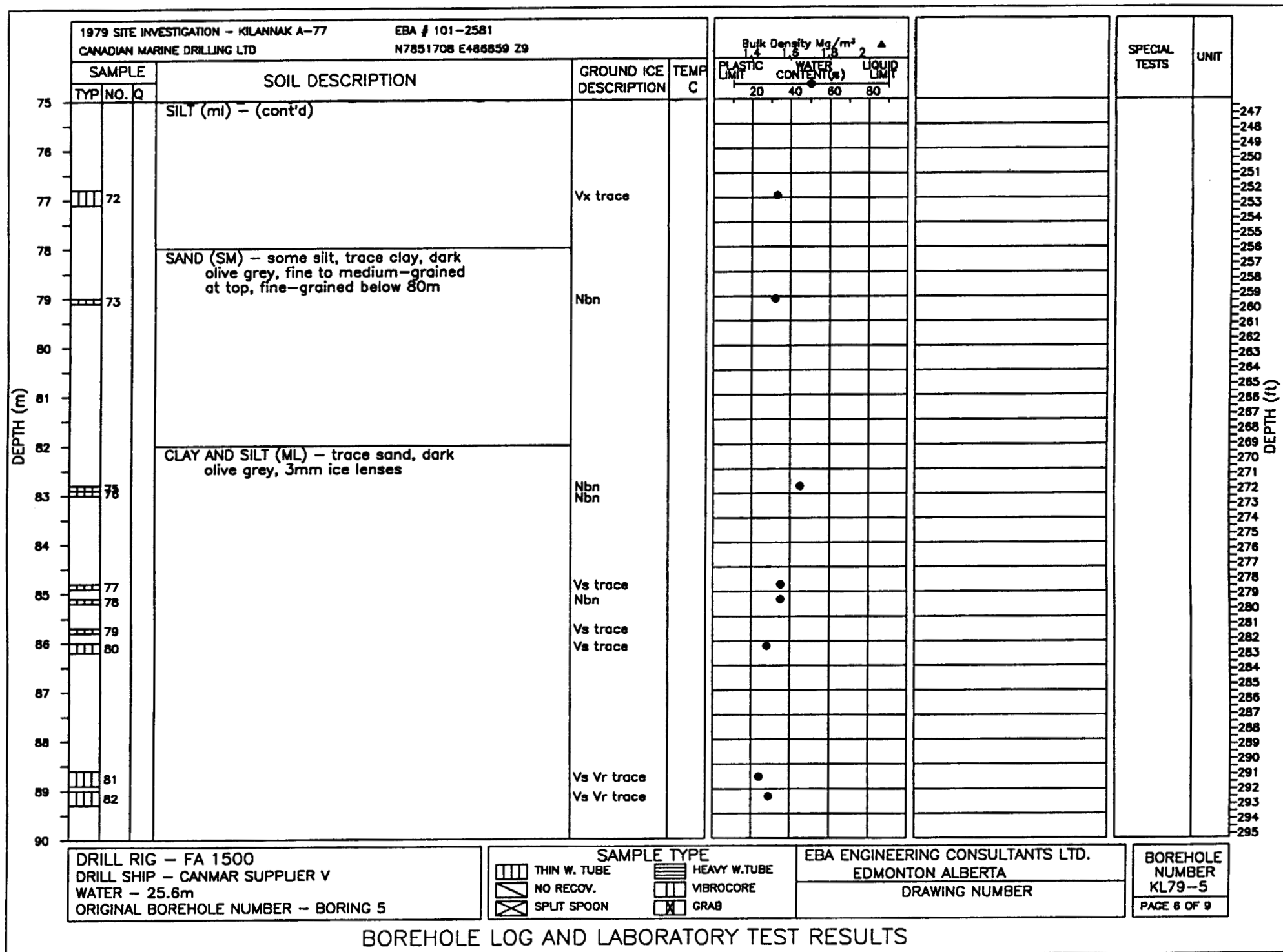
EBA ENGINEERING CONSULTANTS LTD.
EDMONTON ALBERTA
DRAWING NUMBER

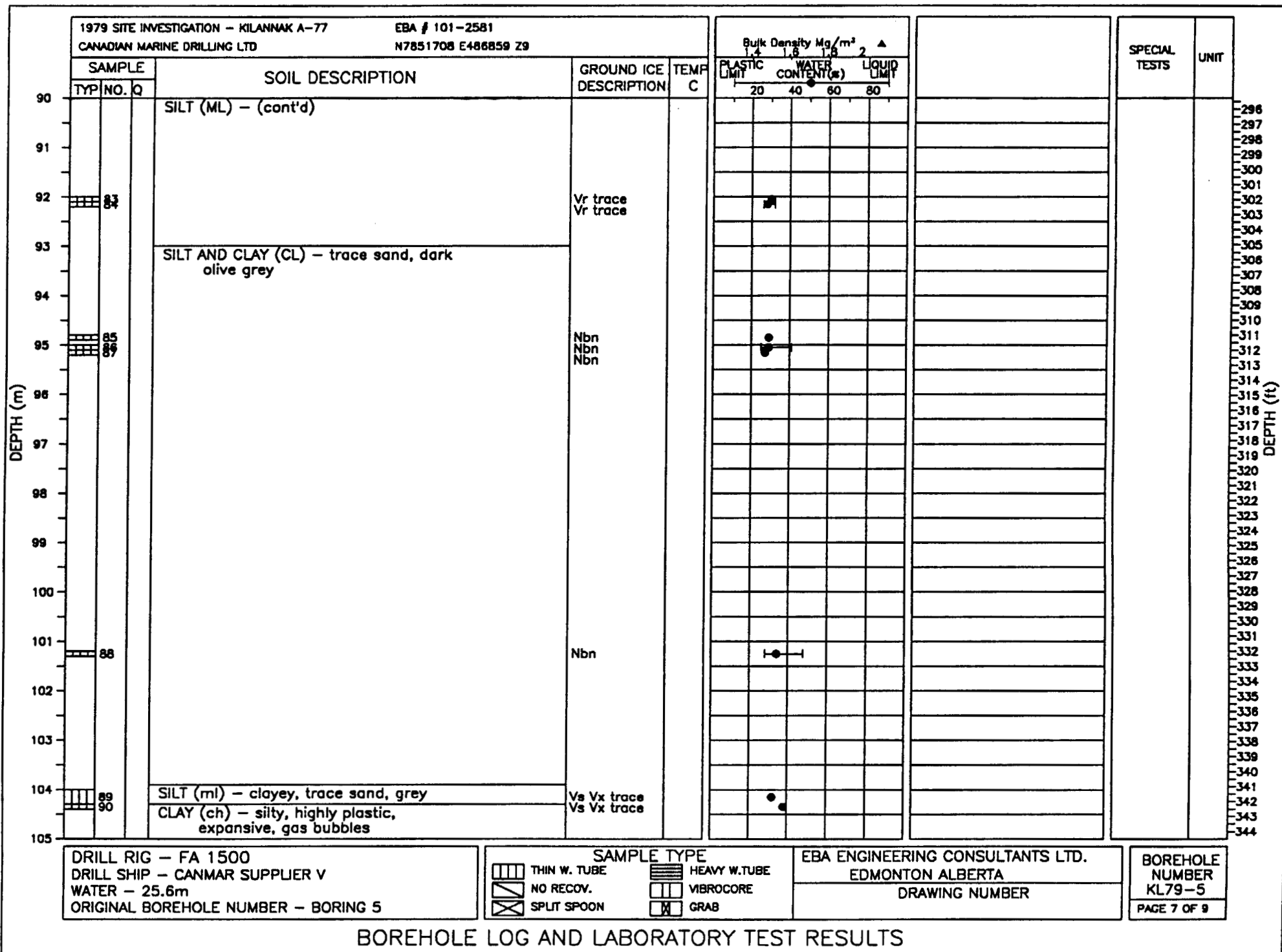
BOREHOLE NUMBER
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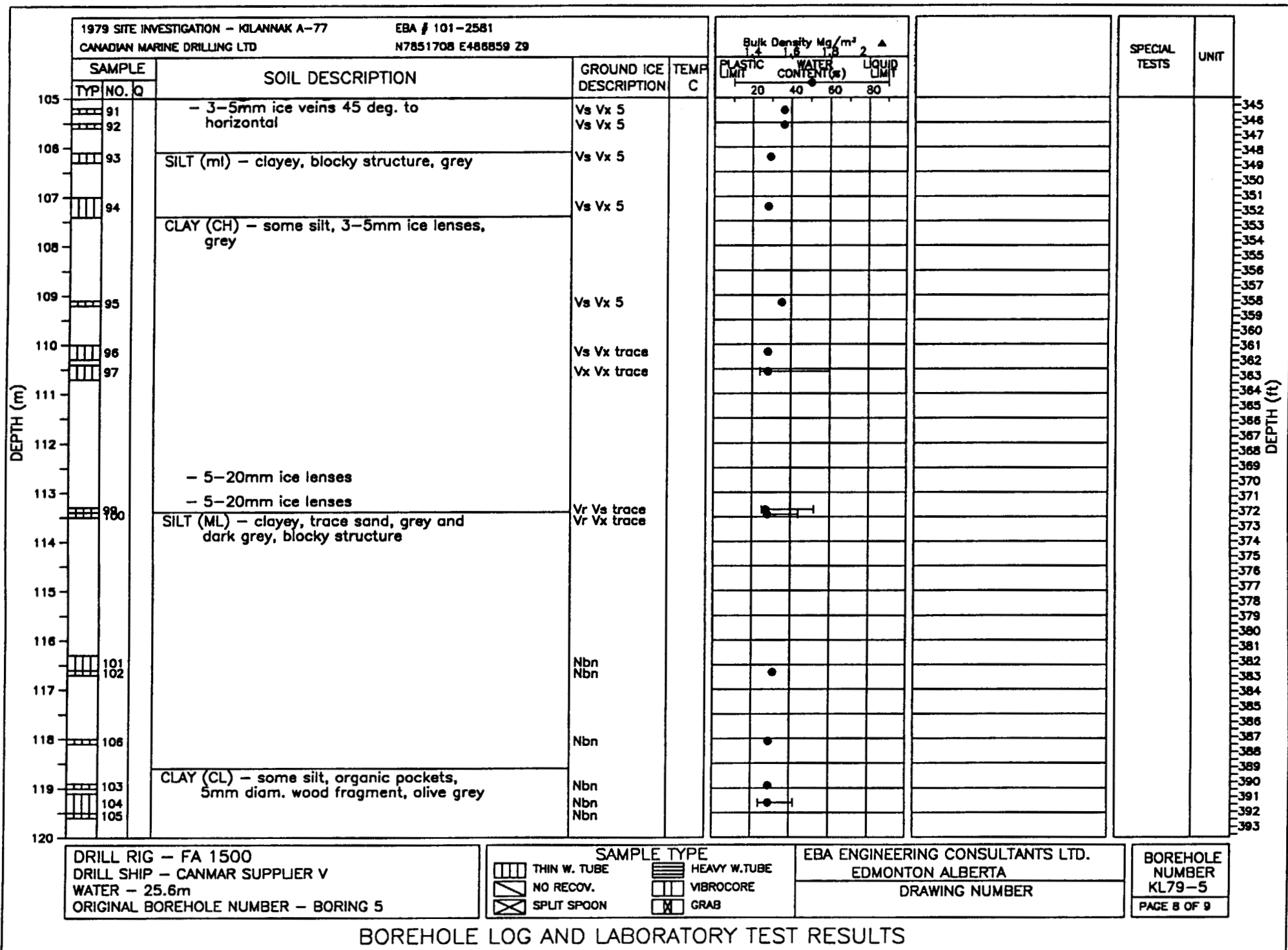
BOREHOLE LOG AND LABORATORY TEST RESULTS











1979 SITE INVESTIGATION - KILANNAK A-77				EBA # 101-2581											
CANADIAN MARINE DRILLING LTD				N7851708 E486859 Z9											
SAMPLE			SOIL DESCRIPTION	GROUND ICE DESCRIPTION	TEMP C	Bulk Density Mg/m ³ ▲				SPECIAL TESTS	UNIT	DEPTH (ft)			
TYP	NO.	Q				PLASTIC LIMIT	WATER CONTENT (%)	LIQUID LIMIT							
			CLAY (CL) - (cont'd)									394			
												395			
												396			
												397			
												398			
												399			
			- high plasticity (CH)									400			
	107			Nbn								401			
	108		END OF BOREHOLE at 122.5m	Nbn								402			
												403			
												404			
												405			
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												441			
												442			

DRILL RIG - FA 1500
 DRILL SHIP - CANMAR SUPPLIER V
 WATER - 25.6m
 ORIGINAL BOREHOLE NUMBER - BORING 5

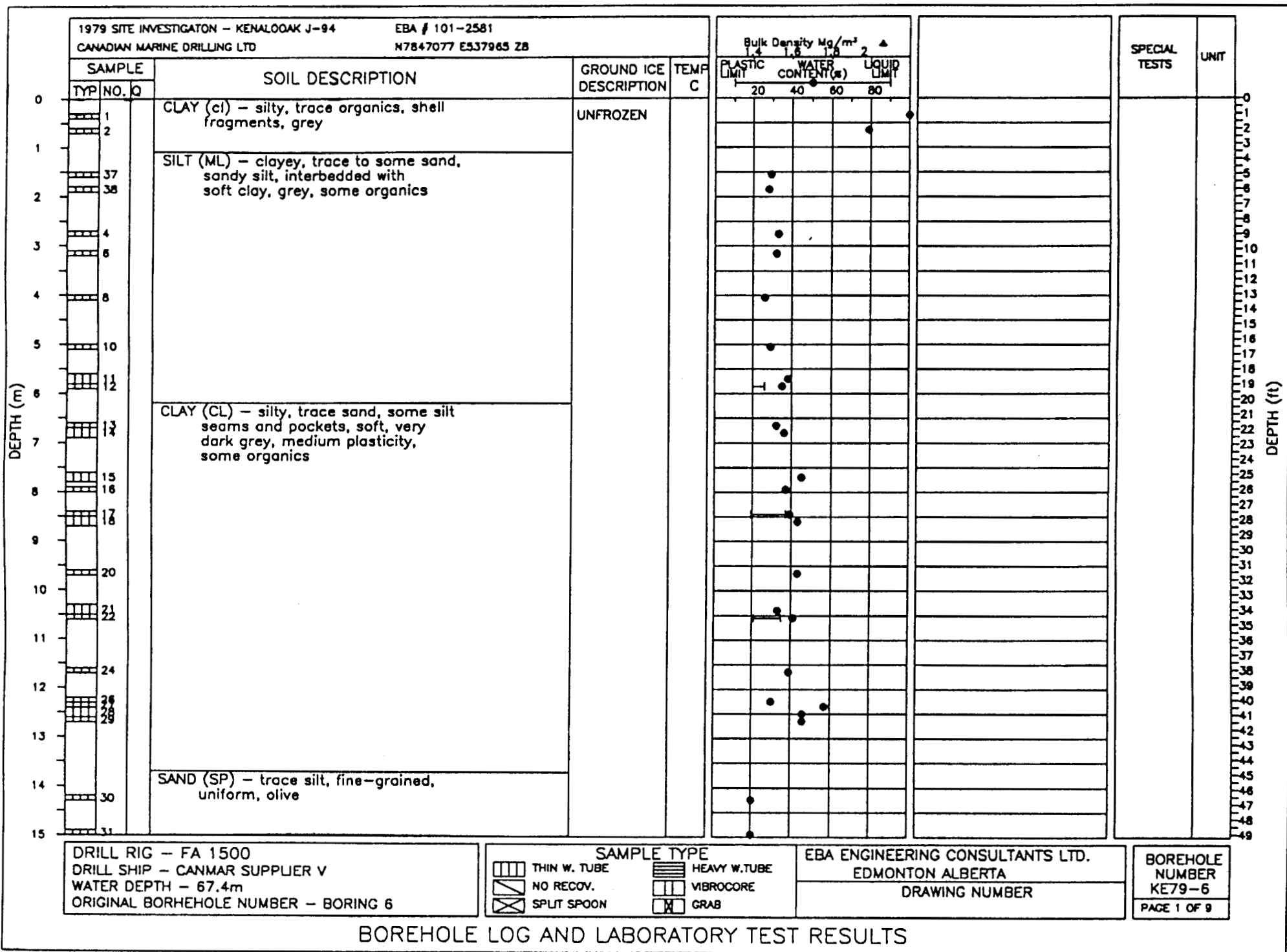
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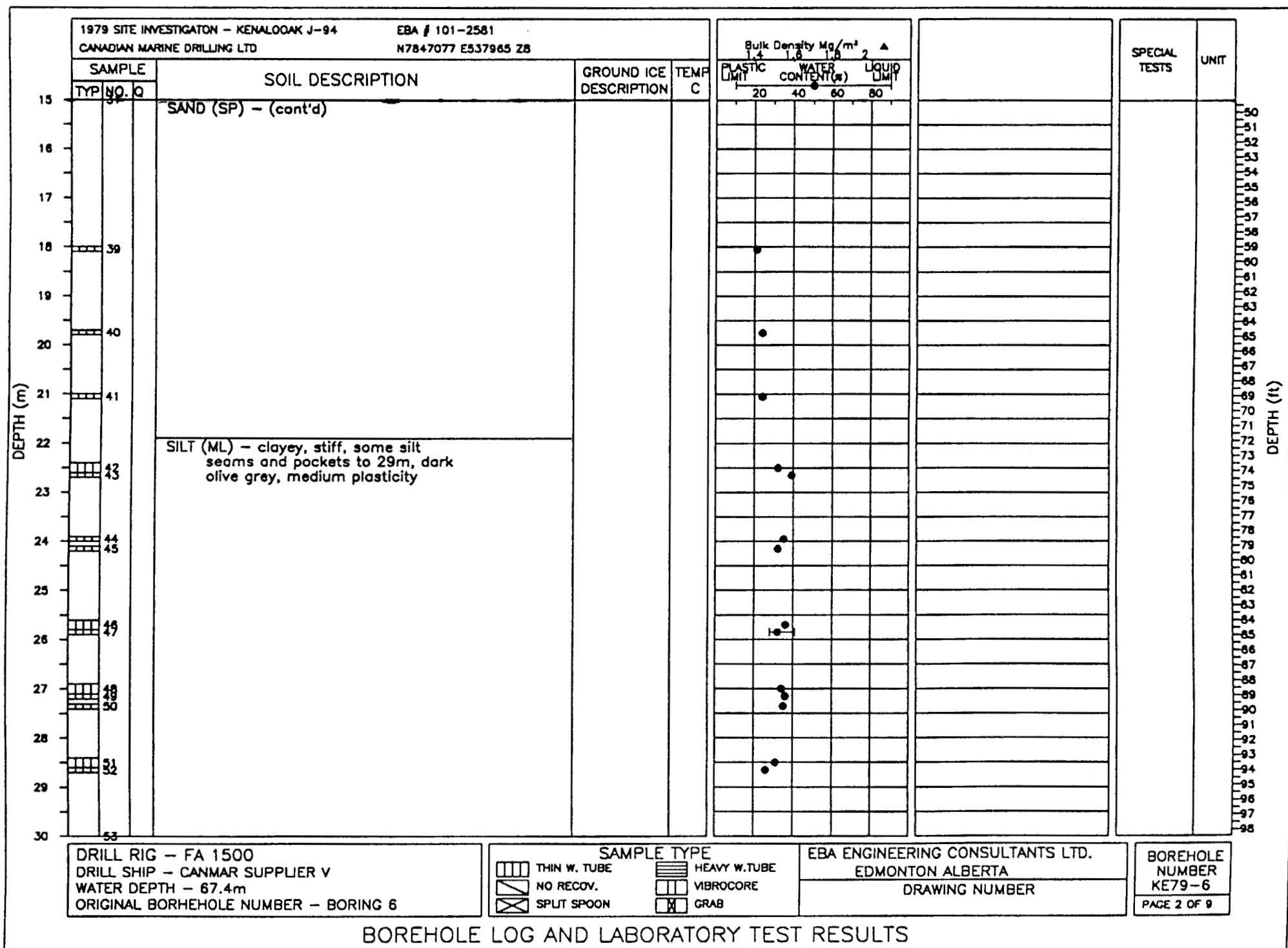
THIN W. TUBE	HEAVY W. TUBE
NO RECOV.	VIBROCURE
SPLIT SPOON	GRAB

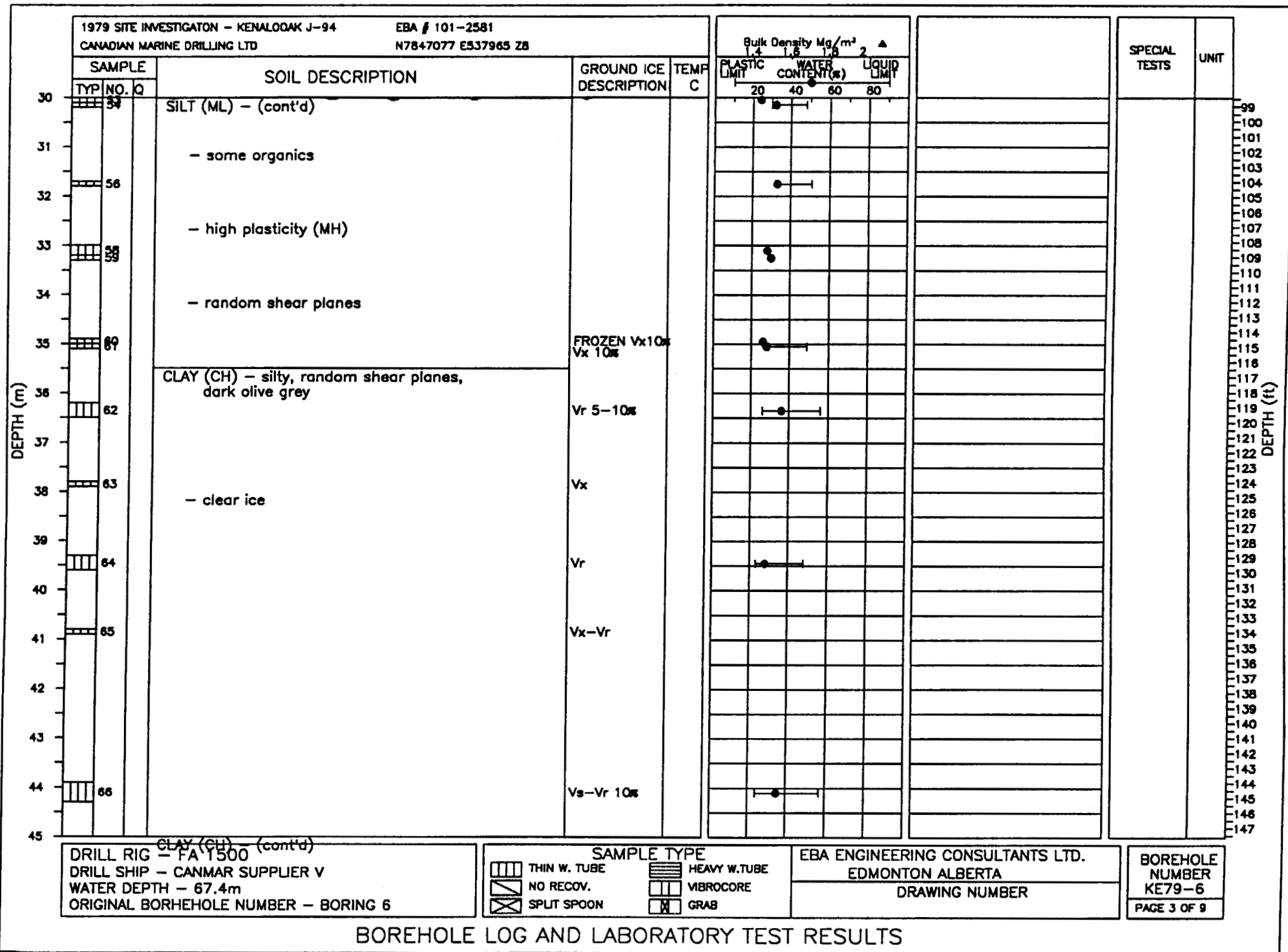
EBA ENGINEERING CONSULTANTS LTD.
 EDMONTON ALBERTA
 DRAWING NUMBER

BOREHOLE NUMBER
 KL79-5
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BOREHOLE LOG AND LABORATORY TEST RESULTS







1979 SITE INVESTIGATION - KENALOOKAK J-94				EBA # 101-2581									
CANADIAN MARINE DRILLING LTD				N7847077 E537965 Z8									
SAMPLE		SOIL DESCRIPTION	GROUND ICE DESCRIPTION	TEMP C	Bulk Density Mg/m ³ ▲				SPECIAL TESTS	UNIT	DEPTH (ft)		
TYP	NO. Q				PLASTIC LIMIT	WATER CONTENT (%)	LIQUID LIMIT						
45		CLAY (CH) - (cont'd)	Vs-5%								148		
46	67												149
47													150
48		SILT (ML) - trace clay, trace sand, nonplastic, dark olive grey	Nbn								151		
49	68												152
50													153
51		- some sand to sandy with silty clay seams and pockets	Nbn								154		
52	69												155
53													156
54	70	CLAY (CL) - silty, trace sand, numerous silt seams and pockets, gas bubbles organic stains, dark grey	Nbn								157		
55	71												158
56													159
57											160		
58	73												161
59	74												162
60	75										163		
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											196		

DRILL RIG - FA 1500
DRILL SHIP - CANMAR SUPPLIER V
WATER DEPTH - 67.4m
ORIGINAL BOREHOLE NUMBER - BORING 6

SAMPLE TYPE
THIN W. TUBE
NO RECOV.
SPLIT SPOON
HEAVY W. TUBE
VIBROCORE
GRAB

EBA ENGINEERING CONSULTANTS LTD.
EDMONTON ALBERTA
DRAWING NUMBER

BOREHOLE NUMBER
KE79-6
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BOREHOLE LOG AND LABORATORY TEST RESULTS

1979 SITE INVESTIGATION - KENALOOK J-94				EBA # 101-2581									
CANADIAN MARINE DRILLING LTD				N7847077 E537965 Z8									
SAMPLE			SOIL DESCRIPTION	GROUND ICE DESCRIPTION	TEMP C	Bulk Density Mg/m ³ ▲				SPECIAL TESTS	UNIT	DEPTH (ft)	
TYP	NO.	Q				PLASTIC LIMIT	WATER CONTENT (%)	LIQUID LIMIT					
	75		CLAY (CL) - (cont'd)	Nbn								197	
												198	
												199	
	76											200	
												201	
												202	
												203	
												204	
												205	
												206	
												207	
												208	
	77			Nf								209	
												210	
												211	
												212	
												213	
			SILT (ML) - some clay, some clay seams, trace fine sand, some organics, nonplastic, greyish brown									214	
												215	
												216	
												217	
	78			Nf								218	
												219	
												220	
												221	
												222	
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												226	
												227	
												228	
												229	
	79											230	
												231	
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	80											240	
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												244	
												245	
												246	

DRILL RIG - FA 1500
 DRILL SHIP - CANMAR SUPPLIER V
 WATER DEPTH - 67.4m
 ORIGINAL BOREHOLE NUMBER - BORING 6

SAMPLE TYPE

THIN W. TUBE	HEAVY W. TUBE
NO RECOV.	VIBROCORE
SPLIT SPOON	GRAB

EBA ENGINEERING CONSULTANTS LTD.
 EDMONTON ALBERTA
 DRAWING NUMBER

BOREHOLE NUMBER
 KE79-6
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BOREHOLE LOG AND LABORATORY TEST RESULTS

EBA # 101-2581
N7847077 E537965 Z8

DEPTH (m)

DEPTH (ft)

SAMPLE TYPE			
	THIN W. TUBE		HEAVY W. TUBE
	NO RECOV.		VIBROCORE
	SPLIT SPOON		GRAB

BOREHOLE
NUMBER
KE79-6

PAGE 6 OF 9

BOREHOLE LOG AND LABORATORY TEST RESULTS

1979 SITE INVESTIGATION - KENALOOKAK J-94 CANADIAN MARINE DRILLING LTD				EBA # 101-2581 N7847077 E537965 ZB		Bulk Density Mg/m ³ ▲ 1.4 1.6 1.8 2.0 PLASTIC LIMIT WATER CONTENT (%) LIQUID LIMIT		SPECIAL TESTS	UNIT		
SAMPLE		SOIL DESCRIPTION	GROUND ICE DESCRIPTION	TEMP C							
TYP	NO. Q										
90	86	SAND (SM) - (cont'd)	Nbn		20	40	60	80		296	
91	87										297
92	88	SILT (ML) - trace sand, trace clay, nonplastic, very dark grey	Nbn		20	40	60	80		298	
93											299
94	89										300
95	90										301
96											302
97	91										303
98											304
99											305
100											306
101											
102		CLAY AND SILT (CL) - medium plasticity, stiff, numerous silt seams, dark olive grey	Nbn		20	40	60	80		308	
103	92										309
104	93										310
105	94										311
											312
											313
											314
											315
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									344		

BOREHOLE LOG AND LABORATORY TEST RESULTS

1979 SITE INVESTIGATION - KENALOOK J-94 CANADIAN MARINE DRILLING LTD				EBA # 101-2581 N7847077 E537965 Z8									
SAMPLE			SOIL DESCRIPTION		GROUND ICE DESCRIPTION	TEMP C	Bulk Density Mg/m ³ ▲ 1.4 1.6 1.8 2 PLASTIC LIMIT WATER CONTENT (%) LIQUID LIMIT 20 40 60 80				SPECIAL TESTS	UNIT	
TYP NO. Q													
105			CLAY AND SILT (CL) - (cont'd)										345
106					Nbn								346
107													347
108													348
109													349
110					Nbn								350
111					Nbn								351
112													352
113													353
114													354
115													355
116													356
117													357
118													358
119													359
120													360
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													391
													392
													393
DRILL RIG - FA 1500 DRILL SHIP - CANMAR SUPPLIER V WATER DEPTH - 67.4m ORIGINAL BOREHOLE NUMBER - BORING 6						SAMPLE TYPE THIN W. TUBE NO RECOV. SPILT SPOON HEAVY W. TUBE VIBROCORE GRAB		EBA ENGINEERING CONSULTANTS LTD. EDMONTON ALBERTA DRAWING NUMBER				BOREHOLE NUMBER KE79-6 PAGE 8 OF 9	
BOREHOLE LOG AND LABORATORY TEST RESULTS													

1979 SITE INVESTIGATION - KENALOOK J-94				EBA # 101-2581									
CANADIAN MARINE DRILLING LTD				N7847077 E537965 Z8									
SAMPLE			SOIL DESCRIPTION	GROUND ICE DESCRIPTION	TEMP C	Bulk Density Mg/m ³ ▲				SPECIAL TESTS	UNIT	DEPTH (ft)	
TYP	NO.	Q				PLASTIC LIMIT	WATER CONTENT (%)	LIQUID LIMIT					
			CLAY AND SILT (CL) - (cont'd)									394	
												395	
												396	
												397	
												398	
												399	
												400	
			END OF BOREHOLE at 121.9m	FROZEN Nbn								401	
												402	
												403	
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												440	
												441	
												442	

DRILL RIG - FA 1500
 DRILL SHIP - CANMAR SUPPLIER V
 WATER DEPTH - 67.4m
 ORIGINAL BOREHOLE NUMBER - BORING 6

SAMPLE TYPE

THIN W. TUBE	HEAVY W. TUBE
NO RECOV.	VIBROCORE
SPLIT SPOON	GRAB

EBA ENGINEERING CONSULTANTS LTD.
 EDMONTON ALBERTA
 DRAWING NUMBER

BOREHOLE NUMBER
 KE79-6
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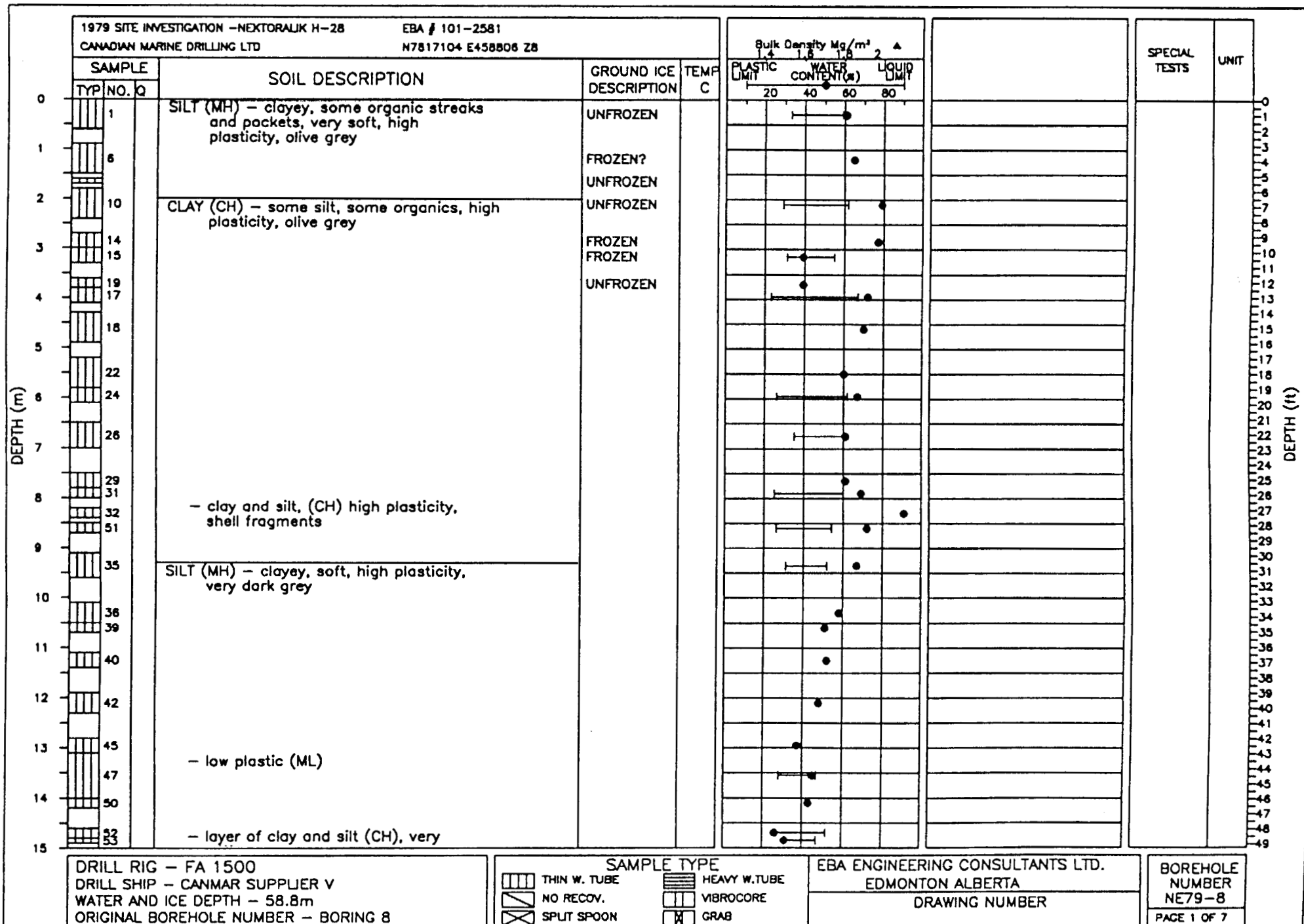
BOREHOLE LOG AND LABORATORY TEST RESULTS

1979 SITE INVESTIGATION - NEKTORALIK H-28

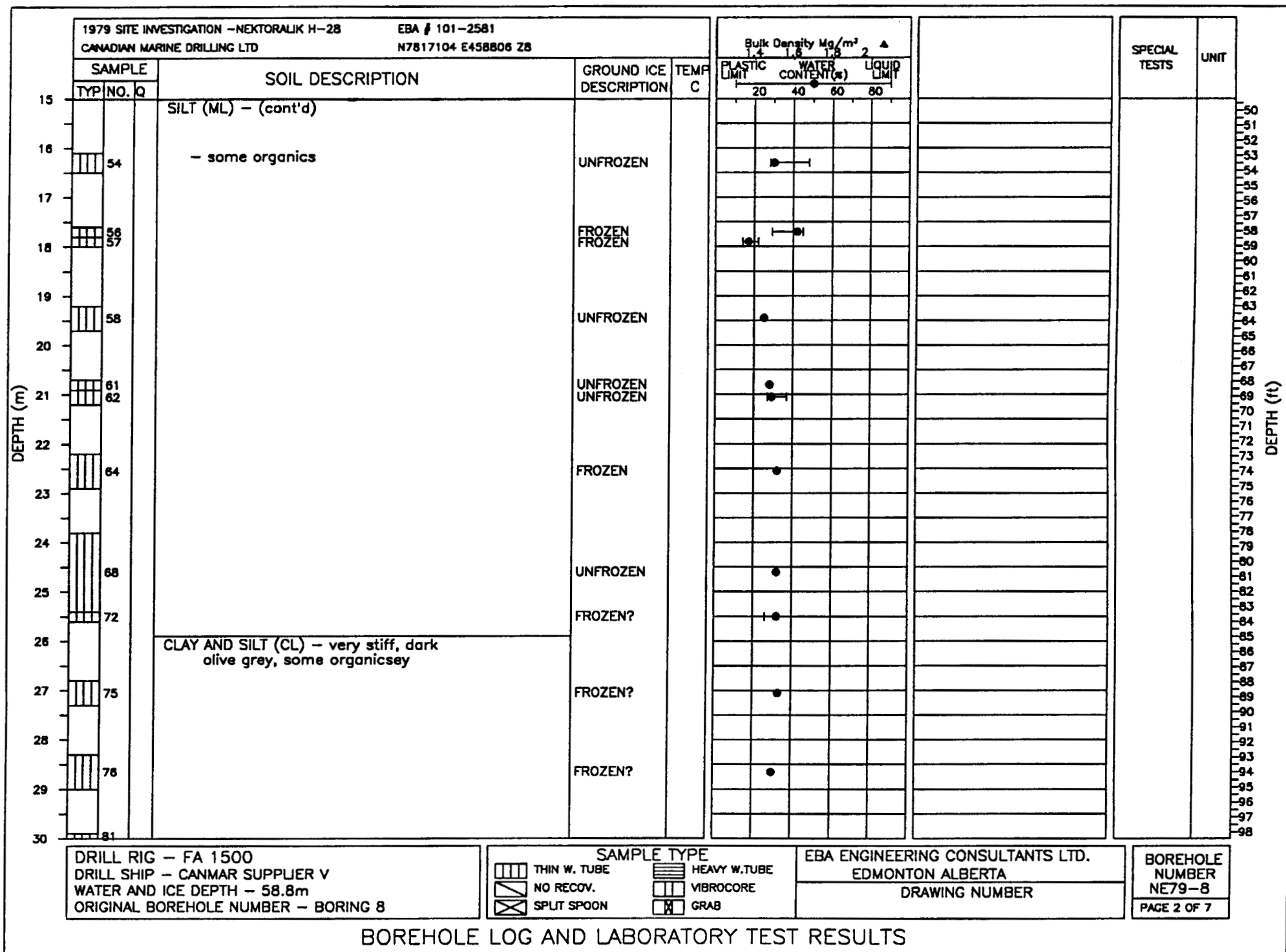
EBA # 101-2581

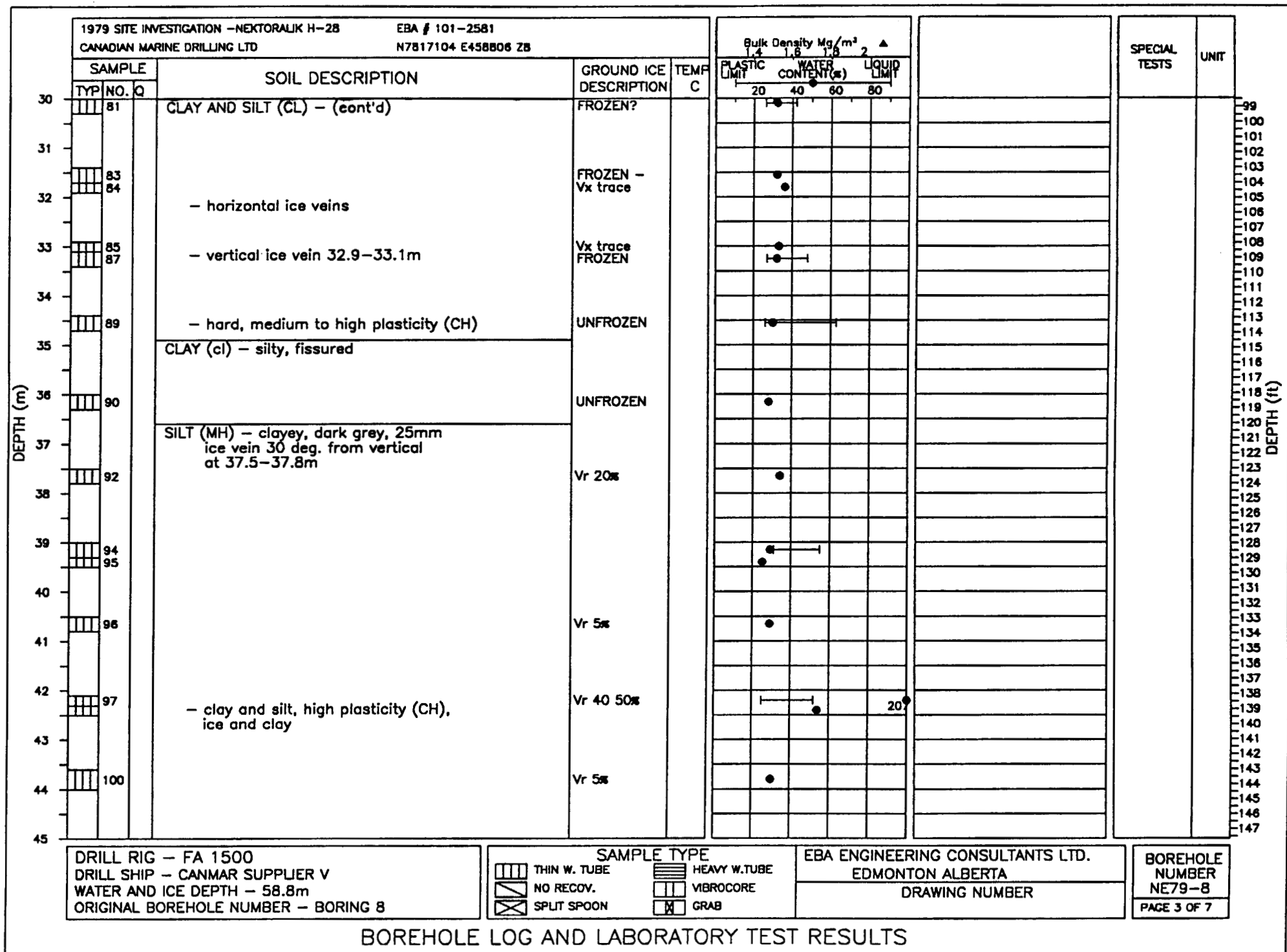
CANADIAN MARINE DRILLING LTD

N7817104 E458806 Z8



BOREHOLE LOG AND LABORATORY TEST RESULTS





DEPTH (m)

DEPTH (ft)

DRILL RIG - FA 1500
DRILL SHIP - CANMAR SUPPLIER V
WATER AND ICE DEPTH - 58.8m
ORIGINAL BOREHOLE NUMBER - BORING 8

SAMPLE TYPE			
	THIN W. TUBE		HEAVY W. TUBE
	NO RECOV.		VIBROCORE
	SPLIT SPOON		GRAB

EBA ENGINEERING CONSULTANTS LTD.
EDMONTON ALBERTA
DRAWING NUMBER

BOREHOLE
NUMBER
NE79-8

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BOREHOLE LOG AND LABORATORY TEST RESULTS

1979 SITE INVESTIGATION - NEXTORALIK H-28				EBA # 101-2581												
CANADIAN MARINE DRILLING LTD				N7817104 E458806 Z8												
SAMPLE			SOIL DESCRIPTION		GROUND ICE DESCRIPTION		TEMP C		Bulk Density Mg/m ³ ▲				SPECIAL TESTS		UNIT	
TYP NO. Q									PLASTIC LIMIT WATER CONTENT (%) LIQUID LIMIT							
60		112	CLAY (CL) - (cont'd)		Nbn											
61					Nbn											
62																
63			SILT (ML) - trace to some clay, trace sand laminations at 30 deg to horizontal nonplastic, few thin beds of fine sand, dark grey, some organics													
64		113			Nbn											
65																
66																
67		117			Nbn											
68																
69																
70		118 120			Nbn Nf-Nbn											
71																
72																
73		121			Nbn											
74																
75																

DRILL RIG - FA 1500
 DRILL SHIP - CANMAR SUPPLIER V
 WATER AND ICE DEPTH - 58.8m
 ORIGINAL BOREHOLE NUMBER - BORING 8

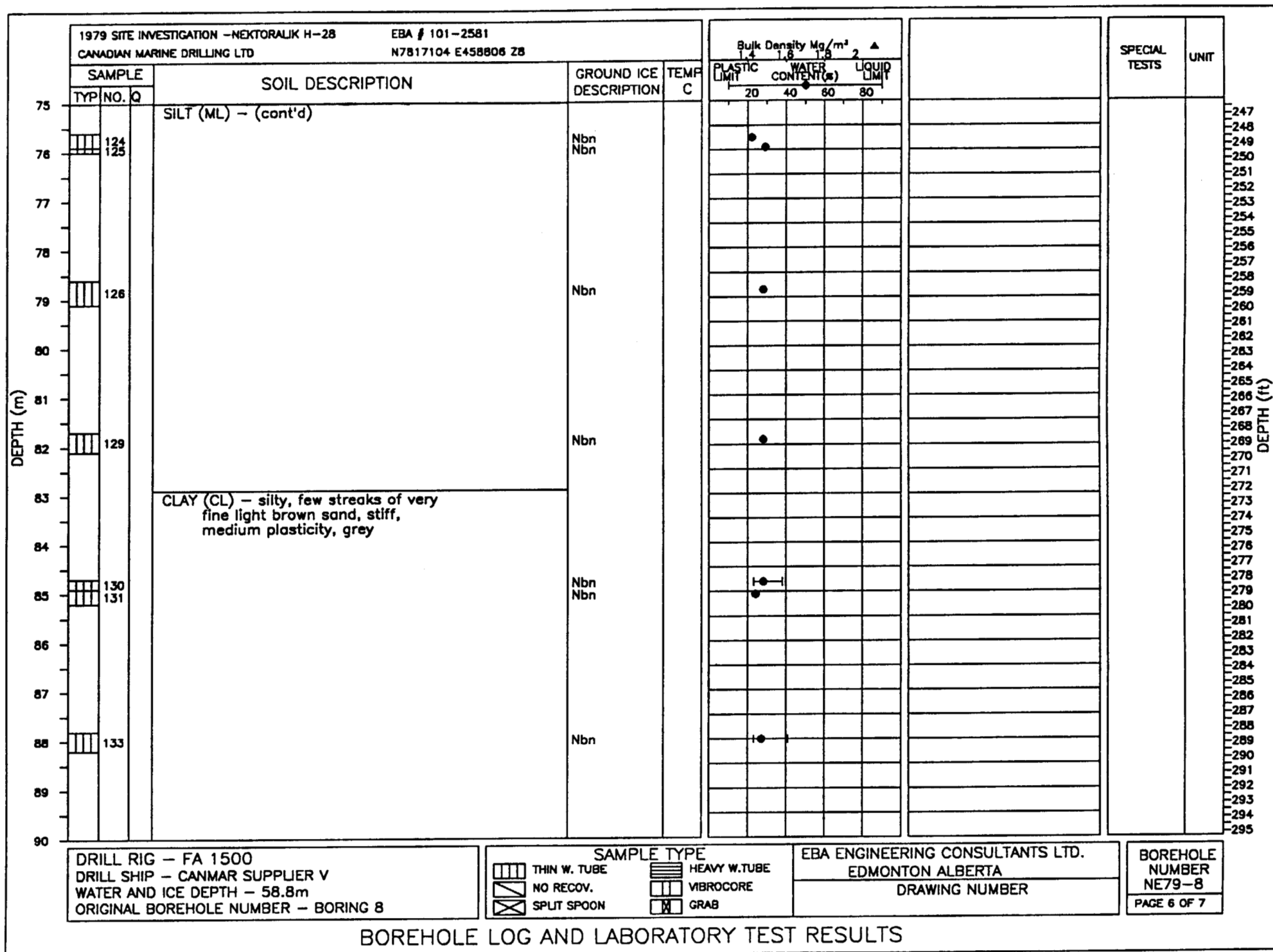
SAMPLE TYPE

THIN W. TUBE	HEAVY W. TUBE
NO RECOV.	VIBROCORE
SPLIT SPOON	GRAB

EBA ENGINEERING CONSULTANTS LTD.
 EDMONTON ALBERTA
 DRAWING NUMBER

BOREHOLE NUMBER
 NE79-8
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BOREHOLE LOG AND LABORATORY TEST RESULTS



1979 SITE INVESTIGATION -NEKTORALIK H-28				EBA # 101-2581											
CANADIAN MARINE DRILLING LTD				N7817104 E458806 Z8											
SAMPLE			SOIL DESCRIPTION	GROUND ICE DESCRIPTION	TEMP C	Bulk Density Mg/m ³ ▲						SPECIAL TESTS	UNIT	DEPTH (ft)	
TYP	NO.	Q				PLASTIC LIMIT	WATER CONTENT (%)	LIQUID LIMIT							
			CLAY (CL) - (cont'd)												296
															297
															298
															299
															300
															301
															302
															303
															304
															305
															306
															307
															308
			- occasional organic seam	Nbn											309
															310
															311
															312
															313
															314
															315
															316
															317
			END OF BOREHOLE at 96.9m												318
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															344

DRILL RIG - FA 1500
 DRILL SHIP - CANMAR SUPPLIER V
 WATER AND ICE DEPTH - 58.8m
 ORIGINAL BOREHOLE NUMBER - BORING 8

SAMPLE TYPE

THIN W. TUBE	HEAVY W. TUBE
NO RECOV.	VIBROCURE
SPLIT SPOON	GRAB

EBA ENGINEERING CONSULTANTS LTD.
 EDMONTON ALBERTA
 DRAWING NUMBER

BOREHOLE NUMBER
 NE79-8
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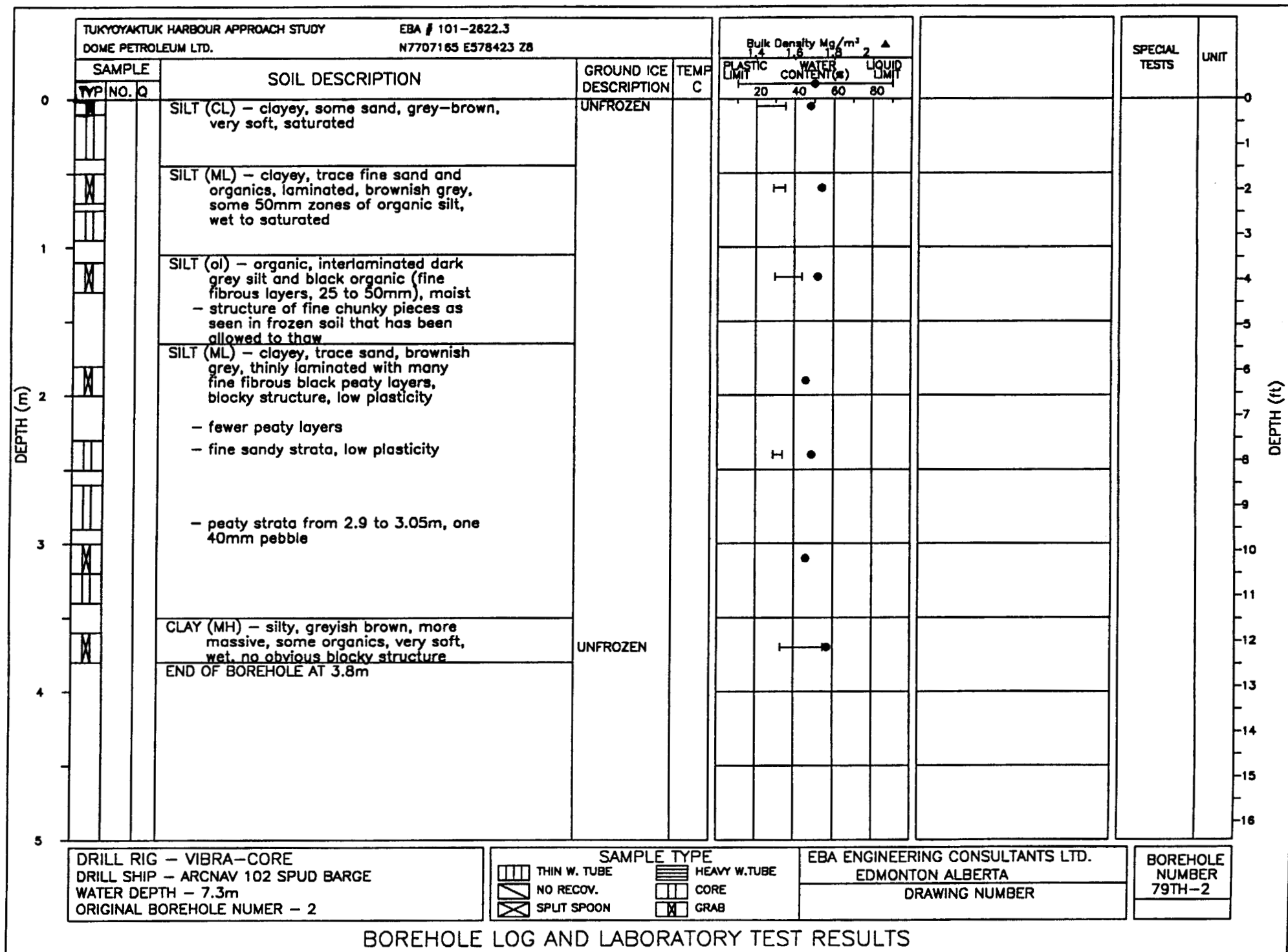
BOREHOLE LOG AND LABORATORY TEST RESULTS

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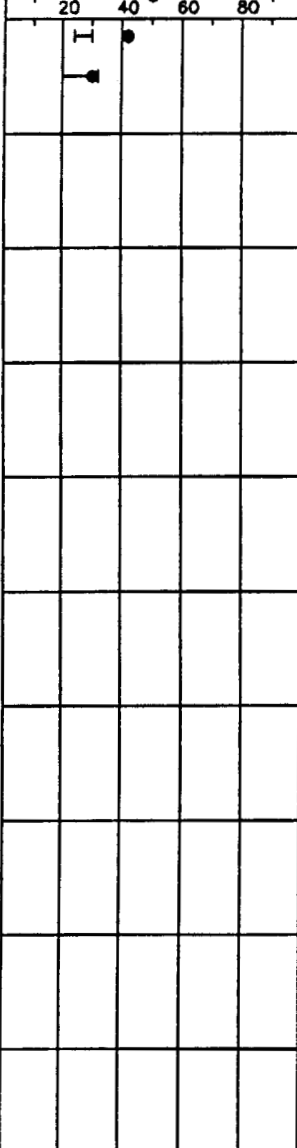
TUKYOYAKTUK HARBOUR APPROACH STUDY DOME PETROLEUM LTD.				EBA # 101-2622.3 N7710369 E344110 Z8		Bulk Density Mg/m^3 ▲ 1.4 1.6 1.8 2				SPECIAL TESTS	UNIT
SAMPLE			SOIL DESCRIPTION	GROUND ICE DESCRIPTION	TEMP C	PLASTIC LIMIT	WATER CONTENT (%)	LIQUID LIMIT			
TYP	NO.	Q									
DEPTH (m)	0			SILT (ml) – some clay, some thin silty sand layers, grey, organic specks to some organics, soft	UNFROZEN						
				– clayey with thin sand and silty sand layers, grey, soft							
	1			– grey brown, fewer fine sand layers, higher organic content, laminations from 25 to 75mm							
				– good structure, no breaks or discontinuities evident							
	2			CLAY AND SILT (ML) – trace sand, wet, soft low plasticity, thin organic banding, laminated, brownish grey							
				– trace gravel, vertically fissured, moist to wet, dark grey to black, mottled with some dark grey, organic to rich							
				SAND (SP-SM) – some gravel, trace to some silt, trace clay, organic rich, gradational contact above 25–50mm, damp, woody, peat layers							
	3			SAND AND SILT (SM) – some clay, moist to wet, greyish brown, thin organic layer, thin sand strata	UNFROZEN						
				SAND (sm) – uniform, fine, trace to some silt, brown, grey at top							
				CLAY (ml) – silty matrix with gravel to 100mm cobble, locally sand, almost till-like							
				CLAY (ol) – organic rich, black, some thin dark grey vertical lenses, some silt, trace gravel, moist to wet							
				END OF BOREHOLE AT 3.8m							
5											

DRILL RIG – VIBRA-CORE DRILL SHIP – ARCNV 102 SPUD BARGE WATER DEPTH – 5.5m ORIGINAL BOREHOLE NUMBER – 1	SAMPLE TYPE THIN W. TUBE NO RECOV. SPLIT SPOON HEAVY W. TUBE CORE GRAB	EBA ENGINEERING CONSULTANTS LTD. EDMONTON ALBERTA DRAWING NUMBER	BOREHOLE NUMBER 79TH-1
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BOREHOLE LOG AND LABORATORY TEST RESULTS



BOREHOLE LOG AND LABORATORY TEST RESULTS

TUKYOYAKTUK HARBOUR APPROACH STUDY DOME PETROLEUM LTD.				EBA # 101-2622.3 N7709168 E578150 Z8		Bulk Density Mg/m ³ ▲ 1.4 1.6 1.8 2				SPECIAL TESTS	UNIT	
SAMPLE		SOIL DESCRIPTION	GROUND ICE DESCRIPTION	TEMP C	PLASTIC LIMIT	WATER CONTENT (%)	LIQUID LIMIT					
TYP	NO.											
DEPTH (m) 0 1 2 3 4 5			UNFROZEN								DEPTH (ft) 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	
												SILT (ol) - infrequent layers of organics, clayey, trace sand, trace gravel, dry to moist; low plasticity - (ML), sandy, clayey, some gravel, saturated to wet, very soft, low plasticity, brownish grey
												SAND (SM) - gravelly, silty, trace to some clay, no structure, brownish grey
												SAND (SP-SM) - fine-grained, trace silt, trace clay, trace gravel, no bedding structure, brown - 1cm silty clay strata dipping at 45 degrees
												- fine-grained, trace silt, trace clay brown
												- 50mm organic layer
												- medium-grained sand, trace silt, brown
												- fine-grained, trace silt
												- 50mm layer of coal chips
												- silty sand banding occurring every 50mm
												UNFROZEN
												END OF BOREHOLE AT 4.0m

DRILL RIG - VIBRA-CORE
DRILL SHIP - ARCNV 102 SPUD BARGE
WATER DEPTH - 4.6m
ORIGINAL BOREHOLE NUMBER - 5

SAMPLE TYPE

THIN W. TUBE	HEAVY W. TUBE
NO RECOV.	CORE
SPLIT SPOON	GRAB

EBA ENGINEERING CONSULTANTS LTD.
EDMONTON ALBERTA
DRAWING NUMBER

BOREHOLE NUMBER
79TH-5

BOREHOLE LOG AND LABORATORY TEST RESULTS

TUKYOYAKTUK HARBOUR APPROACH STUDY DOME PETROLEUM LTD.				EBA # 101-2622.3 N7710549 E574737 Z8		Bulk Density Mg/m ³ ▲ 1.4 1.6 1.8 2.0 PLASTIC LIMIT WATER CONTENT (%) LIQUID LIMIT 20 40 60 80				SPECIAL TESTS		UNIT	
SAMPLE		SOIL DESCRIPTION	GROUND ICE DESCRIPTION	TEMP C									
TYP	NO. Q												
DEPTH (m) 0 1 2 3 4 5		SAND (SM) - fine to medium-grained, some silt, dark brown	UNFROZEN										
		SILT (ML) - some clay, some sand, no bedding, wet, very soft - thin sandy silt layer											
		SILT (ML) - clayey, trace sand, brownish grey, trace of organic specks, no structure, appears disturbed											
		- 25mm organic layer											
		- low plasticity, wet, very soft - more clayey											
		SAND (SW-SM) - fine-grained, some gravel, trace silt, grey-brown - gravel size to 75mm - moist - medium to coarse-grained											
		GRAVEL (GP) - 50 to 75mm, sandy, trace silt - finer gravel, subangular to sub-rounded, clean to trace silt	UNFROZEN										
		SAND (SP-SM) - fine-grained, some silt, trace medium to fine gravel											
	END OF BOREHOLE AT 3.4m												

DRILL RIG - VIBRA-CORE
DRILL SHIP - ARCNV 102 SPUD BARGE
WATER DEPTH - 4.0m
ORIGINAL BOREHOLE NUMBER - 6

SAMPLE TYPE

THIN W. TUBE	HEAVY W. TUBE
NO RECOV.	CORE
SPLIT SPOON	GRAB

EBA ENGINEERING CONSULTANTS LTD.
EDMONTON ALBERTA
DRAWING NUMBER

BOREHOLE NUMBER
79TH-6

BOREHOLE LOG AND LABORATORY TEST RESULTS

TUKUYOYAKTUK HARBOUR APPROACH STUDY DOME PETROLEUM LTD.				EBA # 101-2622.3 N7714058 E572946 Z8		Bulk Density Mg/m ³ ▲ 1.4 1.6 1.8 2				SPECIAL TESTS	UNIT	DEPTH (ft)	
SAMPLE		SOIL DESCRIPTION	GROUND ICE DESCRIPTION	TEMP C	PLASTIC LIMIT WATER CONTENT (%) LIQUID LIMIT								
TYP	NO. Q				20	40	60	80					
		SILT (ml) - clayey with thin sand strata or lenses, dark grey-brown	UNFROZEN									0	
		SAND (SP-SM) - trace silt, trace clay, wet dark grey-brown											1
		- organic layer											2
		SAND (SM) - trace to some silt, trace clay dark grey-brown											3
		- greyish brown with thin golden brown diagonal bands, organic layer of 2.0m, moist, quite dense, uniformly graded											4
		- little more brownish grey with steep thin organic bands between 2.1 and 2.35m											5
		- mostly greyish brown sand with trace silt to end of hole											6
		- 10cm layer of silty fine sand, dark grey, some organics, moist to wet											7
		- 50mm strata of finer grained, silty, organic											8
		- wet											9
			UNFROZEN									10	
													11
													12
													13
													14
													15
		END OF BOREHOLE AT 4.6m										16	

DRILL RIG - VIBRA-CORE
 DRILL SHIP - ARCNV 102 SPUD BARGE
 WATER DEPTH - 4.9m
 ORIGINAL BOREHOLE NUMBER - 8

SAMPLE TYPE

THIN W. TUBE	HEAVY W. TUBE
NO RECOV.	CORE
SPLIT SPOON	GRAB

EBA ENGINEERING CONSULTANTS LTD.
 EDMONTON ALBERTA
 DRAWING NUMBER

BOREHOLE NUMBER
 79TH-8

BOREHOLE LOG AND LABORATORY TEST RESULTS

TUKYOYAKTUK HARBOUR APPROACH STUDY DOME PETROLEUM LTD.				EBA # 101-2622.3 N7716966 E572770 ZB		Bulk Density Mg/m ³ ▲ 1.4 1.6 1.8 2				SPECIAL TESTS	UNIT	
DEPTH (m)	SAMPLE		SOIL DESCRIPTION	GROUND ICE DESCRIPTION	TEMP C	WATER CONTENT (%)						
	TYP	NO. Q				PLASTIC LIMIT	LIQUID LIMIT	CONTENT (%)				
0			SILT (ML) - clayey, trace sand, wet, brownish grey, some to little distortion	UNFROZEN								0
			- moist to wet									1
												2
1			SILT and CLAY (CL) - trace sand									3
			- moist, distortion oscillations to 25cm in height, 1cm cracks penetrating half of core every 50mm									4
												5
2			SAND (SP-SM) - trace silt, trace clay, grey, moist									6
			- organic laminations in silty sand, dark grey, horizontal bedding									7
			- finer-grained sand									8
			- 20cm fibrous organic layer, silty, 25mm dark grey lens of silty sand in middle, moist									9
3			- sand with some silt, grey, oxidized to brown for 40cm, damp to moist, fairly dense, top oxidization boundary follows a steep grade									10
			- trace to some silt, grey, damp, fairly dense	UNFROZEN								11
												12
4			END OF BOREHOLE AT 3.8m									13
												14
												15
5												16

DRILL RIG - VIBRA-CORE
 DRILL SHIP - ARCNV 102 SPUD BARGE
 WATER DEPTH - 4.9m
 ORIGINAL BOREHOLE NUMBER - 9A

SAMPLE TYPE

THIN W. TUBE	HEAVY W. TUBE
NO RECOV.	CORE
SPLIT SPOON	GRAB

EBA ENGINEERING CONSULTANTS LTD.
 EDMONTON ALBERTA
 DRAWING NUMBER

BOREHOLE NUMBER
 79TH-9A

BOREHOLE LOG AND LABORATORY TEST RESULTS

TUKYOYAKTUK HARBOUR APPROACH STUDY DOME PETROLEUM LTD.				EBA # 101-2622.3 N7719850 E571784 Z8									
SAMPLE			SOIL DESCRIPTION	GROUND ICE DESCRIPTION	TEMP C	Bulk Density Mg/m ³ ▲					SPECIAL TESTS	UNIT	
TYP	NO.	Q				PLASTIC LIMIT	WATER CONTENT (%)	LIQUID LIMIT					
0			SILT and CLAY (ML) - trace sand, grey, wet, few shell fragments, some disturbance	UNFROZEN								0	
												1	
												2	
1												3	
												4	
			SILT (CL) - clayey, trace sand, damp to moist, considerable distortion, dark grey, few shell fragments, organic specks throughout									5	
			- 15mm organic lens at 1.75m									6	
2												7	
												8	
				UNFROZEN								9	
			- 25mm organic layer at 2.75m									10	
3			END OF BOREHOLE AT 2.9m									11	
												12	
												13	
												14	
4												15	
												16	
5													

DRILL RIG - VIBRA-CORE
DRILL SHIP - ARCNV 102 SPUD BARGE
WATER DEPTH - 4.9m
ORIGINAL BOREHOLE NUMBER - 11

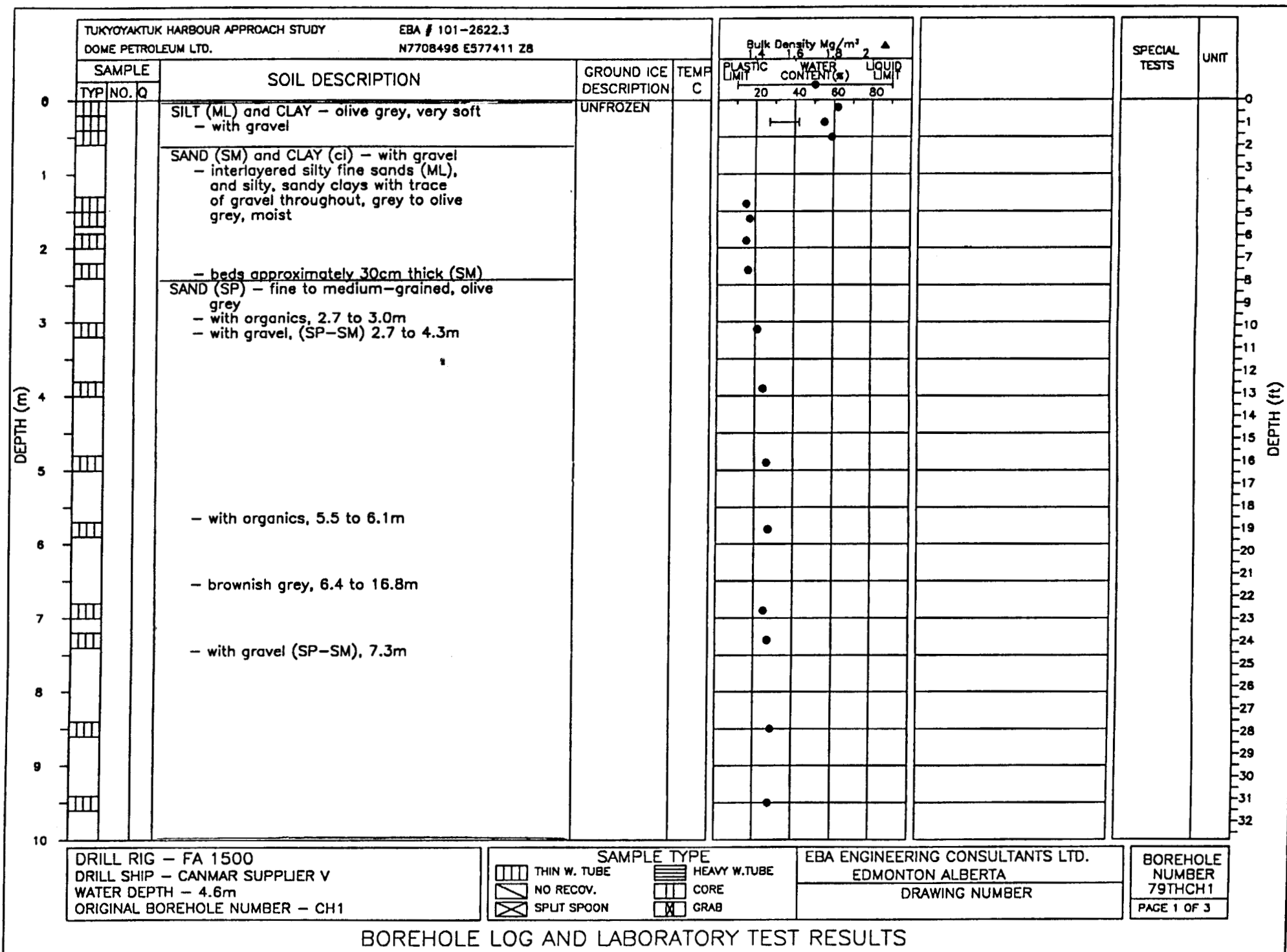
THIN W. TUBE
NO RECOV.
SPLIT SPOON

SAMPLE TYPE
HEAVY W.TUBE
CORE
GRAB

EBA ENGINEERING CONSULTANTS LTD.
EDMONTON ALBERTA
DRAWING NUMBER

BOREHOLE NUMBER
79TH-11

BOREHOLE LOG AND LABORATORY TEST RESULTS



TUKYOYAKTUK HARBOUR APPROACH STUDY DOME PETROLEUM LTD.				EBA # 101-2622.3 N7708496 E577411 Z8		Bulk Density Mg/m ³ ▲ 1.4 1.6 1.8 2				SPECIAL TESTS	UNIT
SAMPLE		SOIL DESCRIPTION	GROUND ICE DESCRIPTION	TEMP C	PLASTIC LIMIT	WATER CONTENT (%)	LIQUID LIMIT				
TYP	NO. Q				20	40	60		80		
10		SAND (SP) - (cont'd)	UNFROZEN								33
											34
											35
11		- fine sand, 11.0 to 18.0m									36
		- with gravel, 11.4m									37
											38
12											39
											40
											41
											42
13											43
											44
		- silty, 13.7 to 15.2m									45
14											46
											47
											48
15											49
											50
											51
											52
16											53
											54
		- (SP-SM)									55
17											56
											57
											58
18		- olive grey, 17.7 to 18.0m									59
											60
											61
19											62
											63
											64
20		- brownish grey									65

DRILL RIG - FA 1500
 DRILL SHIP - CANMAR SUPPLIER V
 WATER DEPTH - 4.6m
 ORIGINAL BOREHOLE NUMBER - CH1

SAMPLE TYPE

THIN W. TUBE	HEAVY W. TUBE
NO RECOV.	CORE
SPLIT SPOON	GRAB

EBA ENGINEERING CONSULTANTS LTD.
 EDMONTON ALBERTA
 DRAWING NUMBER

BOREHOLE NUMBER
 79THCH1
 PAGE 2 OF 3

BOREHOLE LOG AND LABORATORY TEST RESULTS

TUKYOYAKTUK HARBOUR APPROACH STUDY DOME PETROLEUM LTD.				EBA # 101-2622.3 N7708496 E577411 Z8											
SAMPLE			SOIL DESCRIPTION		GROUND ICE DESCRIPTION	TEMP C	Bulk Density Mg/m ³ ▲ 1.4 1.6 1.8 2 PLASTIC LIMIT WATER CONTENT (%) LIQUID LIMIT 20 40 60 80						SPECIAL TESTS	UNIT	
20			SAND (SP) - (cont'd)		UNFROZEN										66
			- fine sand, 20.7 to 21.0m												67
21															68
															69
															70
															71
22			- silty												72
															73
			END OF BOREHOLE AT 22.6m												74
23															75
															76
															77
															78
24															79
															80
															81
															82
25															83
															84
															85
26															86
															87
															88
															89
27															90
															91
															92
28															93
															94
															95
29															96
															97
															98
30															
DRILL RIG - FA 1500 DRILL SHIP - CANMAR SUPPLIER V WATER DEPTH - 4.6m ORIGINAL BOREHOLE NUMBER - CH1						SAMPLE TYPE THIN W. TUBE NO RECOV. SPLIT SPOON HEAVY W. TUBE CORE GRAB				EBA ENGINEERING CONSULTANTS LTD. EDMONTON ALBERTA DRAWING NUMBER				BOREHOLE NUMBER 79THCH1 PAGE 3 OF 3	
BOREHOLE LOG AND LABORATORY TEST RESULTS															

1979 SOIL INVESTIGATION - TUK BASE CANADIAN MARINE DRILLING LTD.				EBA # 101-2622 N7712395 E342759 Z8		Bulk Density Mg/m ³ ▲ 1.4 1.6 1.8 2				SPECIAL TESTS	UNIT	DEPTH (ft)
SAMPLE			SOIL DESCRIPTION	GROUND ICE DESCRIPTION	TEMP C	PLASTIC LIMIT	WATER CONTENT (%)	LIQUID LIMIT				
TYP	NO.	Q										
0			SAND (sp) - fine to medium, grey	UNFROZEN								0
			- gravel seam at 0.5m									1
			- clay seam at 0.9m									2
			- trace gravel, 0.9 - 2.4m									3
												4
												5
												6
												7
												8
												9
			- clayey silt layer at 3.0m									10
												11
												12
			- scattered silt pockets at 3.8m									13
												14
												15
												16
												17
												18
												19
												20
				FROZEN Nbn								21
												22
												23
												24
												25
												26
												27
												28
												29
												30
												31
												32
10			- gravel, 8.2 - 11.1m									

DRILL RIG - FA 1500
 DRILL SHIP - CANMAR SUPPLIER V
 WATER DEPTH - 3.4m
 ORIGINAL BOREHOLE NUMBER - TUK

SAMPLE TYPE

☐ THIN W. TUBE	☐ HEAVY W. TUBE
☐ NO RECOV.	☐ CORE
☐ SPLIT SPOON	☐ GRAB

EBA ENGINEERING CONSULTANTS LTD.
 EDMONTON ALBERTA
 DRAWING NUMBER

BOREHOLE NUMBER
 TUK-1
 PAGE 1 OF 4

BOREHOLE LOG AND LABORATORY TEST RESULTS

1979 SOIL INVESTIGATION - TUK BASE CANADIAN MARINE DRILLING LTD.				EBA # 101-2622 N7712395 E342759 Z8		Bulk Density Mg/m ³ ▲ 1.4 1.6 1.8 2				SPECIAL TESTS	UNIT	DEPTH (ft)
SAMPLE			SOIL DESCRIPTION	GROUND ICE DESCRIPTION	TEMP C	PLASTIC LIMIT	WATER CONTENT (%)	LIQUID LIMIT				
TYP	NO.	Q										
10			SAND (sp) - (cont'd)									33
			- fine sand, 10.4 - 11.1m	FROZEN Nbe								34
												35
11												36
												37
												38
12				Nf								39
												40
												41
13			- silty sand and gravel, 12.8-13.4m	Nbn								42
												43
												44
												45
14			- gravel, 14.0 - 16.8m									46
												47
												48
15												49
												50
												51
												52
16												53
												54
												55
17												56
												57
												58
18												59
												60
												61
19												62
												63
												64
20												65

DRILL RIG - FA 1500
 DRILL SHIP - CANMAR SUPPLIER V
 WATER DEPTH - 3.4m
 ORIGINAL BOREHOLE NUMBER - TUK

SAMPLE TYPE

THIN W. TUBE	HEAVY W. TUBE
NO RECOV.	CORE
SPLIT SPOON	GRAB

EBA ENGINEERING CONSULTANTS LTD.
 EDMONTON ALBERTA

DRAWING NUMBER

BOREHOLE NUMBER
 TUK-1

PAGE 2 OF 4

BOREHOLE LOG AND LABORATORY TEST RESULTS

1979 SOIL INVESTIGATION - TUK BASE CANADIAN MARINE DRILLING LTD.				EBA # 101-2622 N7712395 E342759 Z8		Bulk Density Mg/m ³ ▲ 1.4 1.6 1.8 2					SPECIAL TESTS	UNIT	
SAMPLE			SOIL DESCRIPTION	GROUND ICE DESCRIPTION	TEMP C	PLASTIC LIMIT WATER CONTENT (%) LIQUID LIMIT							
TYP	NO.	Q				20	40	60	80				
30			SAND (sp) - (cont'd)	FROZEN									99
													100
													101
													102
													103
													104
													105
													106
													107
													108
													109
													110
													111
													112
													113
													114
													115
													116
													117
													118
													119
													120
													121
													122
													123
													124
													125
													126
													127
													128
													129
													130
													131
31			- coarse gravel, 31.1 - 31.5m										100
32			- silty sand seam at 32.0m										101
33													102
34													103
35			- clayey silt layer below 34.9m END OF BOREHOLE at 35.1m										104
36													105
37													106
38													107
39													108
40													109

DRILL RIG - FA 1500
 DRILL SHIP - CANMAR SUPPLIER V
 WATER DEPTH - 3.4m
 ORIGINAL BOREHOLE NUMBER - TUK

SAMPLE TYPE

	THIN W. TUBE		HEAVY W. TUBE
	NO RECOV.		CORE
	SPLIT SPOON		GRAB

EBA ENGINEERING CONSULTANTS LTD.
 EDMONTON ALBERTA
 DRAWING NUMBER

BOREHOLE NUMBER
 TUK-1
 PAGE 4 OF 4

BOREHOLE LOG AND LABORATORY TEST RESULTS

1979 SOIL INVESTIGATION - TUK BASE CANADIAN MARINE DRILLING LTD.				EBA # 101-2622 N7712395 E342759 ZB		Bulk Density Mg/m ³ ▲ 1.4 1.6 1.8 2				SPECIAL TESTS	UNIT		
SAMPLE			SOIL DESCRIPTION	GROUND ICE DESCRIPTION	TEMP C	PLASTIC LIMIT	WATER CONTENT (%)	LIQUID LIMIT					
TYP	NO.	Q											
0			SAND (sp) - fine to medium grained, - gray to brown, with scattered gravel to 0.6m	UNFROZEN							0		
1													1
2													2
3													3
4													4
5													5
6													6
7													7
8													8
9													9
10													10
													11
													12
													13
													14
													15
													16
										17			
										18			
										19			
										20			
										21			
										22			
										23			
										24			
										25			
										26			
										27			
										28			
										29			
										30			
										31			
										32			

DEPTH (m)

0

1

2

3

4

5

6

7

8

9

10

END OF BOREHOLE AT 5.2m

DEPTH (ft)

0

1

2

3

4

5

6

7

8

9

10

11

12

13

14

15

16

17

18

19

20

21

22

23

24

25

26

27

28

29

30

31

32

DRILL RIG - FA 1500

DRILL SHIP - CANMAR SUPPLIER V

WATER DEPTH - 3.0m

ORIGINAL BOREHOLE NUMBER - TUK-A

SAMPLE TYPE

☐ THIN W. TUBE

☐ NO RECOV.

☐ SPLIT SPOON

☐ HEAVY W. TUBE

☐ CORE

☐ GRAB

EBA ENGINEERING CONSULTANTS LTD.

EDMONTON ALBERTA

DRAWING NUMBER

BOREHOLE NUMBER

TUK-1A

BOREHOLE LOG AND LABORATORY TEST RESULTS

1979 SOIL INVS., ADMIRALS FINGER PINGO CANADIAN MARINE DRILLING LTD.				EBA # 101-2622 N7843964 E587375 ZB				Bulk Density Mg/m ³ ▲ 1.4 1.6 1.8 2				SPECIAL TESTS		UNIT	
SAMPLE			SOIL DESCRIPTION	GROUND ICE DESCRIPTION	TEMP C	PLASTIC LIMIT WATER CONTENT(%) LIQUID LIMIT									
TYP	NO.	Q				20	40	60	80						
DEPTH (m)			CLAY (cl) – dark grey, organic odour	UNFROZEN Vx 20 – 45%										0	
														1	
														2	
														3	
														4	
														5	
														6	
														7	
														8	
														9	
DEPTH (ft)			– clayey silt with sand, 1.8 – 2.4m	Vx 20 – 25% FROZEN Vx 10 – 15%										10	
														11	
														12	
														13	
														14	
														15	
														16	
														17	
														18	
														19	
DEPTH (m)			– sandy silt with clay, 2.4 – 3.4m											20	
														21	
														22	
														23	
														24	
														25	
														26	
														27	
														28	
														29	
DEPTH (m)			– silty clay, 4.6 – 7.9m	Vx 25 – 30%										30	
														31	
														32	
														33	
														34	
														35	
														36	
														37	
														38	
														39	
DRILL RIG – FA 1500 DRILL SHIP – CANMAR SUPPLIER V WATER DEPTH – 16.2m ORIGINAL BOREHOLE NUMBER – 7			SAMPLE TYPE ☐ THIN W. TUBE ☐ NO RECOV. ☐ SPLIT SPOON ☐ HEAVY W. TUBE ☐ CORE ☐ GRAB				EBA ENGINEERING CONSULTANTS LTD. EDMONTON ALBERTA DRAWING NUMBER				BOREHOLE NUMBER AFP-7 PAGE 1 OF 4				

BOREHOLE LOG AND LABORATORY TEST RESULTS

1979 SOIL INVES., ADMIRALS FINGER PINGO CANADIAN MARINE DRILLING LTD.					EBA # 101-2622 N7843984 E587375 ZB					Bulk Density Mg/m ³ ▲ 1.4 1.6 1.8 2				SPECIAL TESTS		UNIT		
SAMPLE			SOIL DESCRIPTION		GROUND ICE DESCRIPTION		TEMP C		PLASTIC LIMIT WATER CONTENT(%) LIQUID LIMIT 20 40 60 80									
TYP	NO.	Q																
20			CLAY (cl) - (cont'd)		FROZEN													
21			- with trace of sand and silt, 20.7 - 22.9m		Vx 30 - 35%													
22			- fine gravel and sand pockets, 23.7 - 33.8m		Vx 30 - 40%													
23																		
24																		
25			- slightly silty, 25.3 - 33.8m		Vx 30%													
26																		
27																		
28																		
29																		
30																		

DRILL RIG - FA 1500
 DRILL SHIP - CANMAR SUPPLIER V
 WATER DEPTH - 16.2m
 ORIGINAL BOREHOLE NUMBER - 7

SAMPLE TYPE			
THIN W. TUBE	NO RECOV.	SPLIT SPOON	HEAVY W. TUBE
CORE	GRAB		

EBA ENGINEERING CONSULTANTS LTD.
 EDMONTON ALBERTA
 DRAWING NUMBER

BOREHOLE
 NUMBER
 AFP-7
 PAGE 3 OF 4

BOREHOLE LOG AND LABORATORY TEST RESULTS

1979 SOIL INVS., ADMIRALS FINGER PINGO CANADIAN MARINE DRILLING LTD.				EBA / 101-2622 N7843964 E587375 Z8		Bulk Density Mg/m ³ ▲ 1.4 1.6 1.8 2						SPECIAL TESTS		UNIT					
SAMPLE		SOIL DESCRIPTION				GROUND ICE DESCRIPTION		TEMP C		PLASTIC LIMIT WATER CONTENT(%) LIQUID LIMIT									
TYP NO. Q										20 40 60 80									
30		CLAY (cl) - (cont'd)				FROZEN												99	
																		100	
																		101	
																		102	
																		103	
																		104	
																		105	
																		106	
																		107	
																		108	
																		109	
																		110	
																		111	
																		112	
																		113	
																		114	
																		115	
																		116	
																		117	
																		118	
																		119	
																		120	
																		121	
																		122	
																		123	
																		124	
																		125	
																		126	
																		127	
																		128	
																		129	
																		130	
																		131	
39		END OF BOREHOLE AT 39.3				FROZEN Vx 10 - 20%													
40																			
DRILL RIG - FA 1500 DRILL SHIP - CANMAR SUPPLIER V WATER DEPTH - 16.2m ORIGINAL BOREHOLE NUMBER - 7						SAMPLE TYPE THIN W. TUBE NO RECOV. SPLIT SPOON HEAVY W. TUBE CORE GRAB						EBA ENGINEERING CONSULTANTS LTD. EDMONTON ALBERTA DRAWING NUMBER						BOREHOLE NUMBER AFP-7 PAGE 4 OF 4	
BOREHOLE LOG AND LABORATORY TEST RESULTS																			

1979 SOIL INVESTIGATION - MCKINLEY BAY CANADIAN MARINE DRILLING LTD.				EBA # 101-2622 N7762811 E417016 Z9		Bulk Density Mg/m ³ ▲ 1.4 1.6 1.8 2.0 PLASTIC LIMIT WATER CONTENT (%) LIQUID LIMIT 20 40 60 80				SPECIAL TESTS	UNIT	DEPTH (ft)					
SAMPLE		SOIL DESCRIPTION	GROUND ICE DESCRIPTION	TEMP C													
TYP	NO.				Q												
0			CLAY (cl) - very soft, olive grey and dark grey, organic deposit	UNFROZEN												0	
			SAND (SP-SM) - brownish grey, fine to medium														1
1																	2
																	3
2																	4
																	5
3																	6
																	7
4			- fine to coarse (SP), scattered gravel and clay pockets														8
																	9
5																	10
																	11
6			END OF BOREHOLE at 5.8m	UNFROZEN													12
7																	14
																	15
8																	16
																	17
9																	18
																	19
10																	20
																	21
																	22
																	23
																	24
																	25
																	26
																	27
																	28
																	29
																	30
																	31
																	32

DRILL RIG - FA 1500
 DRILL SHIP - CANMAR SUPPLIER V
 WATER DEPTH - 7.3m
 ORIGINAL BOREHOLE NUMBER - MB-A

SAMPLE TYPE	
THIN W. TUBE	HEAVY W. TUBE
NO RECOV.	CORE
SPLIT SPOON	GRAB

EBA ENGINEERING CONSULTANTS LTD.
 EDMONTON ALBERTA
 DRAWING NUMBER

BOREHOLE NUMBER
 MB-A

BOREHOLE LOG AND LABORATORY TEST RESULTS

1979 SOIL INVESTIGATION - MCKINLEY BAY CANADIAN MARINE DRILLING LTD.				EBA # 101-2622 N7762630 E416837 Z9		Bulk Density Mg/m ³ ▲ 1.4 1.6 1.8 2				SPECIAL TESTS	UNIT
SAMPLE		SOIL DESCRIPTION	GROUND ICE DESCRIPTION	TEMP C	PLASTIC LIMIT	WATER CONTENT (%)	LIQUID LIMIT				
TYP	NO. Q										
0		CLAY (cl) - very soft, olive grey and dark grey, organic deposits	UNFROZEN								0
											1
											2
1		SAND (SP-SM) - brownish grey, fine to medium, organics and wood deposits	UNFROZEN								3
											4
		END OF BOREHOLE at 1.5m									5
2											6
											7
											8
											9
3											10
											11
											12
											13
4											14
											15
											16
5											17
											18
											19
6											20
											21
											22
											23
7											24
											25
											26
8											27
											28
											29
9											30
											31
											32

DRILL RIG - FA 1500
 DRILL SHIP - CANMAR SUPPLIER V
 WATER DEPTH - 7.3m
 ORIGINAL BOREHOLE NUMBER - MB-B

SAMPLE TYPE

THIN W. TUBE	HEAVY W. TUBE
NO RECOV.	CORE
SPLIT SPOON	GRAB

EBA ENGINEERING CONSULTANTS LTD.
 EDMONTON ALBERTA
 DRAWING NUMBER

BOREHOLE NUMBER
 MB-B

BOREHOLE LOG AND LABORATORY TEST RESULTS

1979 SOIL INVESTIGATION - MCKINLEY BAY CANADIAN MARINE DRILLING LTD.				EBA # 101-2622 N7763045 E416268 Z9												
SAMPLE		SOIL DESCRIPTION				GROUND ICE DESCRIPTION	TEMP C	Bulk Density Mg/m³ ▲ 1.4 1.6 1.8 2 PLASTIC LIMIT WATER CONTENT (%) LIQUID LIMIT 20 40 60 80				SPECIAL TESTS	UNIT			
DEPTH (m)	TYP	NO.	Q													
	0			CLAY (cl) - very soft, olive grey and dark grey				UNFROZEN								0
	1														1	
	2			SAND (SP-SM) - brownish grey, fine to medium				UNFROZEN							2	
	3														3	
	4							UNFROZEN							4	
	5														5	
	6							UNFROZEN							6	
	7														7	
	8							UNFROZEN							8	
	9														9	
	10							UNFROZEN							10	
	11														11	
12							UNFROZEN							12		
13														13		
14							UNFROZEN							14		
15														15		
16							UNFROZEN							16		
17														17		
18							UNFROZEN							18		
19														19		
20							UNFROZEN							20		
21														21		
22							UNFROZEN							22		
23														23		
24							UNFROZEN							24		
25														25		
26							UNFROZEN							26		
27														27		
28							UNFROZEN							28		
29														29		
30							UNFROZEN							30		
31														31		
32							UNFROZEN							32		
33														33		

DRILL RIG - FA 1500
 DRILL SHIP - CANMAR SUPPLIER V
 WATER DEPTH - 6.7m
 ORIGINAL BOREHOLE NUMBER - MB-C

THIN W. TUBE	HEAVY W. TUBE
NO RECOV.	CORE
SPLIT SPOON	GRAB

EBA ENGINEERING CONSULTANTS LTD.
 EDMONTON ALBERTA
 DRAWING NUMBER

BOREHOLE NUMBER
 MB-C

BOREHOLE LOG AND LABORATORY TEST RESULTS

1979 SOIL INVESTIGATION - MCKINLEY BAY CANADIAN MARINE DRILLING LTD.				EBA # 101-2622 N7762797 E416135 Z9		Bulk Density Mg/m ³ ▲ 1.4 1.6 1.8 2				SPECIAL TESTS	UNIT
SAMPLE		SOIL DESCRIPTION	GROUND ICE DESCRIPTION	TEMP C	PLASTIC LIMIT WATER CONTENT (%) LIQUID LIMIT						
TYP	NO. Q				20	40	60	80			
0		CLAY (cl) - very soft, olive grey and dark grey	UNFROZEN								0
		SAND (SP) - grey, fine to medium									1
1											2
											3
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DRILL RIG - FA 1500
 DRILL SHIP - CANMAR SUPPLIER V
 WATER DEPTH - 7.0m
 ORIGINAL BOREHOLE NUMBER - MB-D

SAMPLE TYPE

THIN W. TUBE	HEAVY W. TUBE
NO RECOV.	CORE
SPLIT SPOON	GRAB

EBA ENGINEERING CONSULTANTS LTD.
 EDMONTON ALBERTA
 DRAWING NUMBER

BOREHOLE NUMBER
 MB-D

BOREHOLE LOG AND LABORATORY TEST RESULTS

1979 SOIL INVESTIGATION - MCKINLEY BAY					EBA / 101-2622					SPECIAL TESTS		UNIT		
CANADIAN MARINE DRILLING LTD.					N7763904 E416625 Z9									
SAMPLE			SOIL DESCRIPTION	GROUND ICE DESCRIPTION	TEMP C	Bulk Density Mg/m³ ▲								
TYP	NO.	Q				PLASTIC LIMIT	WATER CONTENT (%)	LIQUID LIMIT	20	40	60	80		
			CLAY (cl) - very soft, dark grey sandy at 0.6m	UNFROZEN										0
			END OF BOREHOLE at 0.6m											
														2
														3
														4
														5
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														29
														30
														31
														32

DRILL RIG - FA 1500
 DRILL SHIP - CANMAR SUPPLIER V
 WATER DEPTH - 7.3m
 ORIGINAL BOREHOLE NUMBER - MB-E

SAMPLE TYPE

☐ THIN W. TUBE
☐ NO RECOV.
☐ SPLIT SPOON

☐ HEAVY W.TUBE
☐ CORE
☐ GRAB

EBA ENGINEERING CONSULTANTS LTD.
 EDMONTON ALBERTA
 DRAWING NUMBER

BOREHOLE NUMBER
 MB-E

BOREHOLE LOG AND LABORATORY TEST RESULTS

1979 SOIL INVESTIGATION - MCKINLEY BAY CANADIAN MARINE DRILLING LTD.				EBA # 101-2622 N7765747 E417307 Z9		Bulk Density Mg/m ³ ▲ 1.4 1.6 1.8 2					SPECIAL TESTS	UNIT	
SAMPLE			SOIL DESCRIPTION	GROUND ICE DESCRIPTION	TEMP C	PLASTIC WATER LIQUID LIMIT CONTENT(%) LIMIT							
TYP	NO.	Q				20	40	60	80				
0			CLAY (cl) - very soft dark grey clay	UNFROZEN									0
			END OF BOREHOLE at 0.6m										
													2
													3
													4
													5
													6
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													29
													30
													31
													32

DRILL RIG - FA 1500
 DRILL SHIP - CANMAR SUPPLIER V
 WATER DEPTH - 7.0m
 ORIGINAL BOREHOLE NUMBER - MB-F

SAMPLE TYPE

THIN W. TUBE	HEAVY W. TUBE
/ NO RECOV.	CORE
X SPLIT SPOON	X GRAB

EBA ENGINEERING CONSULTANTS LTD.
 EDMONTON ALBERTA
 DRAWING NUMBER

BOREHOLE NUMBER
 MB-F

BOREHOLE LOG AND LABORATORY TEST RESULTS

1979 SOIL INVESTIGATION - MCKINLEY BAY CANADIAN MARINE DRILLING LTD.				EBA # 101-2622 N7769136 E419075 Z9		Bulk Density Mg/m ³ ▲ 1.4 1.6 1.8 2					SPECIAL TESTS	UNIT	
SAMPLE			SOIL DESCRIPTION	GROUND ICE DESCRIPTION	TEMP C	PLASTIC LIMIT	WATER CONTENT (%)	LIQUID LIMIT					
TYP	NO.	Q											
0			SAND (SM) - grey, fine to medium, clay seams	UNFROZEN									0
			END OF BOREHOLE at 0.6m										
													2
													3
													4
													5
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DRILL RIG - FA 1500
 DRILL SHIP - CANMAR SUPPLIER V
 WATER DEPTH - 6.4m
 ORIGINAL BOREHOLE NUMBER - MB-G

SAMPLE TYPE

THIN W. TUBE	HEAVY W. TUBE
NO RECOV.	CORE
SPLIT SPOON	GRAB

EBA ENGINEERING CONSULTANTS LTD.
 EDMONTON ALBERTA
 DRAWING NUMBER

BOREHOLE NUMBER
MB-G

BOREHOLE LOG AND LABORATORY TEST RESULTS

1979 SOIL INVESTIGATION - MCKINLEY BAY CANADIAN MARINE DRILLING LTD.				EBA # 101-2622 N7851684 E486866 Z9		Bulk Density Mg/m ³ ▲ 1.4 1.6 1.8 2					SPECIAL TESTS	UNIT
SAMPLE		SOIL DESCRIPTION	GROUND ICE DESCRIPTION	TEMP C	PLASTIC WATER LIQUID LIMIT CONTENT(%) LIMIT							
TYP	NO. Q				20	40	60	80				
0		SAND (SP-SM) - dark grey and olive grey, fine, scattered shell fragments	UNFROZEN									0
1												
2		- silty, fine (SM)	UNFROZEN									2
3		END OF BOREHOLE at 2.4m										
4												4
5												5
6												6
7												7
8												8
9												9
10												10
11												11
12												12
13												13
14												14
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20												20
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23												23
24												24
25												25
26												26
27												27
28												28
29												29
30												30
31												31
32												32

DRILL RIG - FA 1500
 DRILL SHIP - CANMAR SUPPLIER V
 WATER DEPTH - 10.4m
 ORIGINAL BOREHOLE NUMBER - MB-H

SAMPLE TYPE

THIN W. TUBE	HEAVY W. TUBE
NO RECOV.	CORE
SPLIT SPOON	GRAB

EBA ENGINEERING CONSULTANTS LTD.
 EDMONTON ALBERTA
 DRAWING NUMBER

BOREHOLE
NUMBER
MB-H

BOREHOLE LOG AND LABORATORY TEST RESULTS

1980 GEOTECH. EVALUATION - MCKINLEY BAY CANADIAN MARINE DRILLING LTD.				EBA # 101-2806.1 N7759000 E418000 Z9		Bulk Density Mg/m ³ ▲ 1.4 1.6 1.8 2				SPECIAL TESTS	UNIT	DEPTH (ft)	
SAMPLE		SOIL DESCRIPTION	GROUND ICE DESCRIPTION	TEMP C	WATER CONTENT (%)								
TYP	NO. Q				PLASTIC LIMIT	LIQUID LIMIT							
0		SAND (SP-SM) - some silt, wet, black organic	UNFROZEN									0	
1		- fine to medium, uniform, some silt											1
2		- trace of silt											2
3		- medium, uniform, moist, greyish brown											3
4													4
5		- medium, uniform, moist, greyish brown											5
6													6
7		- fine to medium, uniform, brownish grey, trace of silt and organics, (SP)											7
8		- black organic silt layer, 0.3m thick slight odour											8
9		- fine, uniform, trace of silt, moist											9
10													10
11				UNFROZEN									11
12													12
13		END OF BOREHOLE at 12.5m											13
14													14
15													15
													16
													17
													18
													19
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												48	
												49	

DRILL RIG - SONIC
DRILLED FROM ICE
WATER DEPTH - 4.0m
ORIGINAL BOREHOLE NUMBER - 1

SAMPLE TYPE

THIN W. TUBE	HEAVY W. TUBE
NO RECOVERY	CORE
SPLIT SPOON	GRAB

EBA ENGINEERING CONSULTANTS LTD.
EDMONTON ALBERTA
DRAWING NUMBER
N/A

BOREHOLE NUMBER
80MK-1

BOREHOLE LOG AND LABORATORY TEST RESULTS

1980 GEOTECH. EVALUATION - MCKINLEY BAY CANADIAN MARINE DRILLING LTD.				EBA # 101-2806.1 N7758750 E415950 Z9		Bulk Density Mg/m ³ ▲ 1.4 1.6 1.8 2					SPECIAL TESTS	UNIT		
SAMPLE			SOIL DESCRIPTION	GROUND ICE DESCRIPTION	TEMP C	PLASTIC LIMIT WATER CONTENT (%) LIQUID LIMIT								
TYP	NO.	Q				20	40	60	80					
0			SAND (SP) - some silt, wet, black organic - trace of silt, uniform, fine to medium brownish grey - trace of silt, medium - trace of silt, uniform, fine to medium, brownish grey - same as above - trace of silt, trace of gravel 15mm - trace of silt and gravel, uniform, greyish brown	UNFROZEN									0	
1														1
2														2
3														3
4														4
5														5
6														6
7														7
8														8
9														9
10														10
11														11
12			END OF BOREHOLE at 12.2m	UNFROZEN									12	
13														13
14														14
15														15
16														16
17														17
18														18
19														19
20														20
21														21
22														22
23														23
24												24		
25												25		
26												26		
27												27		
28												28		
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38												38		
39												39		
40												40		
41												41		
42												42		
43												43		
44												44		
45												45		
46												46		
47												47		
48												48		
49												49		

DRILL RIG - SONIC
 DRILLED FROM ICE
 WATER DEPTH - 3.4m
 ORIGINAL BOREHOLE NUMBER - 1A

SAMPLE TYPE	
THIN W. TUBE	HEAVY W. TUBE
NO RECOVERY	CORE
SPLIT SPOON	GRAB

EBA ENGINEERING CONSULTANTS LTD.
 EDMONTON ALBERTA
 DRAWING NUMBER
 N/A

BOREHOLE
 NUMBER
 80MK-1A

BOREHOLE LOG AND LABORATORY TEST RESULTS

1980 GEOTECH. EVALUATION - MCKINLEY BAY				EBA # 101-2806.1								
CANADIAN MARINE DRILLING LTD.				N7759500 E416100 Z9								
SAMPLE		SOIL DESCRIPTION	GROUND ICE DESCRIPTION	TEMP C	Bulk Density Mg/m ³ ▲				SPECIAL TESTS	UNIT		
TYP	NO. Q				PLASTIC LIMIT	WATER CONTENT (%)	LIQUID LIMIT					
0		SAND (SP-SM) - some silt, fine, wet, black, organic - some silt, uniform, medium, wet, brownish grey	UNFROZEN									
1												
2												
3												
4												
5												
6												
7												
8												
9												
10												
11												
12			UNFROZEN									
13		END OF BOREHOLE at 12.8m										
14												
15												

DRILL RIG - SONIC

DRILLED FROM ICE

WATER DEPTH - 3.4m

ORIGINAL BOREHOLE NUMBER - 1B

SAMPLE TYPE

THIN W. TUBE

NO RECOVERY

SPLIT SPOON

HEAVY W. TUBE

CORE

GRAB

EBA ENGINEERING CONSULTANTS LTD.

EDMONTON ALBERTA

DRAWING NUMBER

N/A

BOREHOLE NUMBER

80MK-1B

BOREHOLE LOG AND LABORATORY TEST RESULTS

1980 GEOTECH. EVALUATION - MCKINLEY BAY
CANADIAN MARINE DRILLING LTD.

EBA # 101-2806.1
N7760500 E416300 Z9

DEPTH (m)	SAMPLE		SOIL DESCRIPTION	GROUND ICE DESCRIPTION	TEMP C	Bulk Density Mg/m ³ ▲			SPECIAL TESTS	UNIT	DEPTH (ft)
	TYP	NO. Q				PLASTIC LIMIT	WATER CONTENT (%)	LIQUID LIMIT			
0			SILT (sm) - some clay, and organics, wet, dark grey	UNFROZEN							0
1			SAND (SP-SM) - trace of silt, uniform, fine, dark grey, moist								1
2			- trace of silt and gravel, uniform, brownish grey								2
3											3
4											4
5			- some silt, trace of gravel, coarse, brownish grey, trace of organics								5
6											6
7											7
8			- some silt (SP), trace of gravel, medium, brownish grey								8
9											9
10				UNFROZEN							10
11			END OF BOREHOLE at 10.7m								11
12											12
13											13
14											14
15											15

DRILL RIG - SONIC
DRILLED FROM ICE
WATER DEPTH - 5.8m
ORIGINAL BOREHOLE NUMBER - 1B

SAMPLE TYPE
☐ THIN W. TUBE ☐ HEAVY W. TUBE
☐ NO RECOVERY ☐ CORE
☐ SPLIT SPOON ☒ GRAB

EBA ENGINEERING CONSULTANTS LTD.
EDMONTON ALBERTA
DRAWING NUMBER
N/A

BOREHOLE
NUMBER
80MK-1C

BOREHOLE LOG AND LABORATORY TEST RESULTS

1980 GEOTECH. EVALUATION - MCKINLEY BAY CANADIAN MARINE DRILLING LTD.				EBA # 101-2806.1 N7761500 E416500 Z9		Bulk Density Mg/m ³ ▲ 1.4 1.6 1.8 2			SPECIAL TESTS	UNIT	DEPTH (ft)	
SAMPLE			SOIL DESCRIPTION	GROUND ICE DESCRIPTION	TEMP C	PLASTIC LIMIT	WATER CONTENT (%)	LIQUID LIMIT				
TYP	NO.	Q										
0			SAND (SP-SM) - silty, trace of clay, fine, wet, light grey	UNFROZEN							0	
1			- organic silt, wet									1
2			- some silt, uniform, fine, wet, brownish grey									2
3			- trace of silt, uniform, fine to medium brownish grey									3
4												4
5			- trace of silt, uniform, medium to coarse, moist, brownish grey									5
6			- trace of gravel									6
7												7
8			- trace of gravel, (SP)									8
9			- 0.2m layer of fine sand									9
10				UNFROZEN							10	
11												11
12												12
13												13
14												14
15												15
16												16
17												17
18												18
19												19
20											20	
21											21	
22											22	
23											23	
24											24	
25											25	
26											26	
27											27	
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31											31	
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43											43	
44											44	
45											45	
46											46	
47											47	
48											48	
49											49	

DRILL RIG - SONIC
 DRILLED FROM ICE
 WATER DEPTH - 5.8m
 ORIGINAL BOREHOLE NUMBER - 1D

SAMPLE TYPE

THIN W. TUBE	HEAVY W. TUBE
NO RECOVERY	CORE
SPLIT SPOON	GRAB

EBA ENGINEERING CONSULTANTS LTD.
 EDMONTON ALBERTA

DRAWING NUMBER
 N/A

BOREHOLE NUMBER
 80MK-1D

BOREHOLE LOG AND LABORATORY TEST RESULTS

1980 GEOTECHNICAL EVALUATION - MCKINLEY CANADIAN MARINE DRILLING LTD.				EBA # 101-2806.1 N7760000 E415000 Z09				Bulk Density Mg/m³ ▲ 1.4 1.6 1.8 2 PLASTIC LIMIT 20 40 60 80				SPECIAL TESTS		UNIT			
SAMPLE		SOIL DESCRIPTION		GROUND ICE DESCRIPTION		TEMP C		WATER CONTENT (%)		LIQUID LIMIT							
TYP	NO. Q																
DEPTH (m)	0			SAND (SP-SM) - some silt, uniform, fine, wet, some organics	UNFROZEN											0	
	1			- trace of silt, uniform, medium to coarse, moist, brownish grey													1
	2																2
	3																3
	4																4
	5																5
	6																6
	7																7
	8																8
	9																9
DEPTH (ft)	10			- trace of silt (SP), uniform, fine	UNFROZEN											10	
	11																11
	12																12
	13																13
	14																14
	15																15
	16																16
	17																17
	18																18
	19																19
	20			- uniform, fine to medium, wet, grey											20		
	21														21		
	22														22		
	23														23		
	24														24		
	25														25		
	26														26		
	27														27		
	28														28		
	29														29		
	30														30		
	31														31		
	32														32		

DRILL RIG - SONIC
 DRILLED FROM ICE
 WATER DEPTH - 3.8m
 ORIGINAL BOREHOLE NUMBER - 2

THIN W. TUBE	HEAVY W. TUBE
NO. RECOV.	VIBRO CORE
SPLIT SPOON	GRAB

EBA ENGINEERING CONSULTANTS LTD.
 EDMONTON ALBERTA
 DRAWING NUMBER
 N/A

BOREHOLE NUMBER
 80MK-2
 PAGE 1 OF 2

BOREHOLE LOG AND LABORATORY TEST RESULTS

1980 GEOTECH. EVALUATION - MCKINLEY BAY CANADIAN MARINE DRILLING LTD.					EBA # 101-2806.1 N7760000 E415000 Z9		Bulk Density Mg/m ³ ▲ 1.4 1.6 1.8 2				SPECIAL TESTS	UNIT	DEPTH (ft)	
SAMPLE		SOIL DESCRIPTION	GROUND ICE DESCRIPTION	TEMP C	PLASTIC LIMIT	WATER CONTENT (%)	LIQUID LIMIT							
TYP	NO. Q													
10		SAND (SP-SM) - (cont'd)											33	
													34	
													35	
													36	
													37	
													38	
													39	
													40	
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16														
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18														
19														
20														

DRILL RIG - SONIC
DRILLED FROM ICE
WATER DEPTH - 3.8m
ORIGINAL BOREHOLE NUMBER - 2

SAMPLE TYPE

☐ THIN W. TUBE	☐ HEAVY W. TUBE
☐ NO. RECOV.	☐ CORE
☐ SPLIT SPOON	☐ GRAB

EBA ENGINEERING CONSULTANTS LTD.
EDMONTON ALBERTA
DRAWING NUMBER
N/A

BOREHOLE NUMBER
80MK-2
PAGE 2 OF 2

BOREHOLE LOG AND LABORATORY TEST RESULTS

1980 GEOTECH. EVALUATION - MCKINLEY BAY CANADIAN MARINE DRILLING LTD.				EBA # 101-2806.1 N7761000 E414000 Z9		Bulk Density Mg/m ³ ▲ 1.4 1.6 1.8 2				SPECIAL TESTS	UNIT	DEPTH (ft)
SAMPLE		SOIL DESCRIPTION	GROUND ICE DESCRIPTION	TEMP C	PLASTIC LIMIT	WATER CONTENT (%)	LIQUID LIMIT					
TYP	NO. Q											
0		SAND (sp) - trace of silt, medium grained,										0
1		- some silt (SM), fine grained, foul smell, dark grey to black, some organics	UNFROZEN									1
2		- some silt, uniform, medium grained, greyish brown										2
3												3
4												4
5		- trace of silt (SP), uniform, medium grained, greyish brown										5
6												6
7												7
8		- silt layer with some organics, dark grey										8
9		- trace of silt, fine to medium grained, grey										9
10		END OF BOREHOLE at 10.1m	UNFROZEN									10
11												11
12												12
13												13
14												14
15												15

DRILL RIG - SONIC
DRILLED FROM ICE
WATER DEPTH - 3.2m
ORIGINAL BOREHOLE NUMBER - 3

SAMPLE TYPE

THIN W. TUBE	HEAVY W. TUBE
NO RECOVERY	CORE
SPLIT SPOON	GRAB

EBA ENGINEERING CONSULTANTS LTD.
EDMONTON ALBERTA
DRAWING NUMBER
N/A

BOREHOLE NUMBER
BOMK-3

BOREHOLE LOG AND LABORATORY TEST RESULTS

1980 GEOTECH. EVALUATION - MCKINLEY BAY CANADIAN MARINE DRILLING LTD.				EBA # 101-2806.1 N7762000 E413000 Z9		Bulk Density Mg/m ³ ▲ 1.4 1.6 1.8 2				SPECIAL TESTS	UNIT	DEPTH (ft)	
SAMPLE			SOIL DESCRIPTION	GROUND ICE DESCRIPTION	TEMP C	PLASTIC LIMIT WATER CONTENT (%) LIQUID LIMIT							
TYP	NO.	Q				20	40	60	80				
0			SAND (SM) - some silt, wet, black organic	UNFROZEN								0	
1			- trace of silt, uniform, fine to medium brownish grey										1
2			- some silt										2
3			- coarse, brownish grey, some organic										3
4			- some silt, fine, moist										4
5			- (SP)										5
6			- some silt, uniform, fine, moist to wet, brownish grey										6
7													7
8													8
9					UNFROZEN								9
10			- silty (SM), trace of pebbles at 10m, fine, wet, brownish grey										10
11													11
12			- some silt, uniform, fine, moist to wet, brownish grey										12
13			END OF BOREHOLE at 12.8m										13
14													14
15													15

DRILL RIG - SONIC DRILLED FROM ICE WATER DEPTH - 3.7m ORIGINAL BOREHOLE NUMBER - 4	SAMPLE TYPE THIN W. TUBE NO RECOVERY SPLIT SPOON HEAVY W. TUBE CORE GRAB	EBA ENGINEERING CONSULTANTS LTD. EDMONTON ALBERTA DRAWING NUMBER N/A	BOREHOLE NUMBER 80MK-4
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BOREHOLE LOG AND LABORATORY TEST RESULTS

1980 GEOTECH. EVALUATION - MCKINLEY BAY				EBA # 101-2806.1									
CANADIAN MARINE DRILLING LTD.				N7762500 E411500 Z9									
SAMPLE			SOIL DESCRIPTION	GROUND ICE DESCRIPTION	TEMP C	Bulk Density Mg/m ³ ▲				SPECIAL TESTS	UNIT	DEPTH (m)	
TYP	NO.	Q				PLASTIC LIMIT	WATER CONTENT (%)	LIQUID LIMIT					
			SAND (sp-sm) - some silt, uniform, fine, no odor, black organic	UNFROZEN								0	
												1	
												2	
												3	
												4	
												5	
												6	
												7	
												8	
												9	
												10	
												11	
												12	
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												43	
												44	
												45	
												46	
												47	
												48	
												49	
END OF BOREHOLE at 12.8m													

DRILL RIG - SONIC
 DRILLED FROM ICE
 WATER DEPTH - 3.7m
 ORIGINAL BOREHOLE NUMBER - 5

SAMPLE TYPE

THIN W. TUBE	HEAVY W. TUBE
NO RECOVERY	CORE
SPLIT SPOON	GRAB

EBA ENGINEERING CONSULTANTS LTD.
 EDMONTON ALBERTA
 DRAWING NUMBER N/A

BOREHOLE NUMBER
 80MK-5

BOREHOLE LOG AND LABORATORY TEST RESULTS

1980 GEOTECH. EVALUATION - MCKINLEY BAY				EBA # 101-2806.1															
CANADIAN MARINE DRILLING LTD.				N7763000 E410000 Z9															
SAMPLE		SOIL DESCRIPTION			GROUND ICE	TEMP	Bulk Density Mg/m³ ▲						SPECIAL	UNIT					
TYP NO. Q					DESCRIPTION	C	PLASTIC WATER LIQUID						TESTS						
							LIMIT CONTENT (%) LIMIT												
							20 40 60 80												
0		SILT (ml) - clayey, wet, dark grey													0				
1		SAND (SP) - some silt, fine, wet, dark grey													1				
		- trace of silt, uniform, medium, moist, brownish grey			UNFROZEN										2				
2															3				
3		- as above													4				
4															5				
		- trace of silt and gravel, uniform, brownish grey													6				
5															7				
6															8				
7		- trace of silt, uniform, medium to coarse, brownish grey													9				
8															10				
9		- trace of silt, uniform, medium													11				
10															12				
11		- silt layer, non-plastic, moist, dark grey													13				
		- uniform, fine, greyish brown													14				
12					UNFROZEN										15				
13		END OF BOREHOLE at 12.8m													16				
14															17				
15															18				
															19				
															20				
															21				
															22				
															23				
															24				
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															47				
															48				
															49				
DRILL RIG - SONIC DRILLED FROM ICE WATER DEPTH - 3.7m ORIGINAL BOREHOLE NUMBER - 6				SAMPLE TYPE THIN W. TUBE NO RECOVERY SPLIT SPOON HEAVY W. TUBE CORE GRAB				EBA ENGINEERING CONSULTANTS LTD. EDMONTON ALBERTA DRAWING NUMBER N/A				BOREHOLE NUMBER 80MK-6							
BOREHOLE LOG AND LABORATORY TEST RESULTS																			

1980 GEOTECH. EVALUATION - MCKINLEY BAY CANADIAN MARINE DRILLING LTD.				EBA # 101-2806.1 N7763300 E412000 Z9		Bulk Density Mg/m ³ ▲ 1.4 1.6 1.8 2			SPECIAL TESTS	UNIT	DEPTH (ft)
SAMPLE		SOIL DESCRIPTION	GROUND ICE DESCRIPTION	TEMP C	PLASTIC LIMIT	WATER CONTENT (%)	LIQUID LIMIT				
TYP	NO. Q										
0		SILT (ML) - clayey, medium plastic, foul odor dark grey	UNFROZEN								0
1		- some organics									1
2		- sandy, foul odour, dark grey									2
3		SAND (SM) - some silt, uniform, fine, wet									3
4		- silty, fine to medium, moist, dark grey									4
5		- some silt, uniform, fine, moist to grey									5
6		- trace of silt, uniform, medium									6
7		- some silt, uniform, medium, brownish brown									7
8		- trace of silt and pebbles (SP-SM)									8
9		- trace of silt and clayey silt lumps									9
10											10
11											11
12			UNFROZEN								12
13											13
14		END OF BOREHOLE at 13.7m									14
15											15

DRILL RIG - SONIC DRILLED FROM ICE WATER DEPTH - 5.8m ORIGINAL BOREHOLE NUMBER - 7	SAMPLE TYPE THIN W. TUBE NO RECOVERY SPLIT SPOON HEAVY W. TUBE CORE GRAB	EBA ENGINEERING CONSULTANTS LTD. EDMONTON ALBERTA DRAWING NUMBER N/A	BOREHOLE NUMBER 80MK-7
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BOREHOLE LOG AND LABORATORY TEST RESULTS

1980 GEOTECH. EVALUATION - MCKINLEY BAY				EBA # 101-2806.1											
CANADIAN MARINE DRILLING LTD.				N7763300 E413000 Z9											
SAMPLE			SOIL DESCRIPTION	GROUND ICE DESCRIPTION	TEMP C	Bulk Density Mg/m ³ ▲				SPECIAL TESTS	UNIT	DEPTH (ft)			
TYP	NO.	Q				PLASTIC LIMIT	WATER CONTENT (%)	LIQUID LIMIT							
0			SILT (ml) - clayey, wet, dark grey	UNFROZEN								0			
1			SAND (sm) - some silt, uniform, fine, moist - some silt, some odour, organic										1		
2			- uniform, medium, moist, greyish brown										2		
3													3		
4			- same as above										4		
5													5		
6			- silty, lamination of clay at 5.5m uniform, fine, wet, brownish grey										6		
7			- silt layer 0.3m thick, non-plastic - some silt, medium, greyish brown										7		
8			- some organics from 8.0 to 9.0m										8		
9			- silty, uniform, fine, moist, brown										9		
10				UNFROZEN								10			
11													11		
12													12		
13			- some silt, uniform, fine, brownish grey										13		
14			- trace of silt										14		
15			- black organic, 0.3m thick										15		
			END OF BOREHOLE at 14.2m										16		
													17		
													18		
													19		
												20			
												21			
												22			
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												49			

DRILL RIG - SONIC
 DRILLED FROM ICE
 WATER DEPTH - 5.0m
 ORIGINAL BOREHOLE NUMBER - 8

SAMPLE TYPE

THIN W. TUBE	HEAVY W. TUBE
NO RECOVERY	CORE
SPLIT SPOON	GRAB

EBA ENGINEERING CONSULTANTS LTD.
 EDMONTON ALBERTA
 DRAWING NUMBER
 N/A

BOREHOLE
 NUMBER
 80MK-8

BOREHOLE LOG AND LABORATORY TEST RESULTS

1980 GEOTECH. EVALUATION - MCKINLEY BAY CANADIAN MARINE DRILLING LTD.				EBA # 101-2806.1 N7763300 E414000 Z9		Bulk Density Mg/m ³ ▲ 1.4 1.6 1.8 2				SPECIAL TESTS	UNIT	DEPTH (ft)
SAMPLE		SOIL DESCRIPTION	GROUND ICE DESCRIPTION	TEMP C	PLASTIC LIMIT	WATER CONTENT (%)	LIQUID LIMIT					
TYP	NO.								Q			
0												0
												1
												2
												3
												4
												5
												6
												7
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												10
												11
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												46
												47
												48
												49

DRILL RIG - SONIC
 DRILLED FROM ICE
 WATER DEPTH - 5.2m
 ORIGINAL BOREHOLE NUMBER - 9

SAMPLE TYPE

☐ THIN W. TUBE	☐ HEAVY W. TUBE
☐ NO RECOVERY	☐ CORE
☐ SPLIT SPOON	☐ GRAB

EBA ENGINEERING CONSULTANTS LTD.
 EDMONTON ALBERTA
 DRAWING NUMBER
 N/A

BOREHOLE NUMBER
 80MK-9

BOREHOLE LOG AND LABORATORY TEST RESULTS

1980 GEOTECH. EVALUATION - MCKINLEY BAY CANADIAN MARINE DRILLING LTD.				EBA # 101-2806.1 N7763300 E415000 Z9		Bulk Density Mg/m ³ ▲ 1.4 1.6 1.8 2				SPECIAL TESTS	UNIT	DEPTH (ft)
SAMPLE		SOIL DESCRIPTION	GROUND ICE DESCRIPTION	TEMP C	PLASTIC LIMIT	WATER CONTENT (%)	LIQUID LIMIT					
TYP	NO. Q											
0		SILT (ml) - some clay, low plastic, wet, dark grey, trace of organics	UNFROZEN									0
1		SAND (sp-sm) some silt, uniform, fine, moist, some organics - some silt, fine to medium, moist, yellowish brown										1
2												2
3		- same as above										3
4												4
5		- trace of silt, medium to coarse, moist, brownish grey										5
6		- trace of gravel										6
7												7
8												8
9		- trace of gravel, 20mm										9
10			UNFROZEN									10
11		END OF BOREHOLE at 11.0m										11
12												12
13												13
14												14
15												15

DRILL RIG - SONIC
DRILLED FROM ICE
WATER DEPTH - 5.5m
ORIGINAL BOREHOLE NUMBER - 10

SAMPLE TYPE

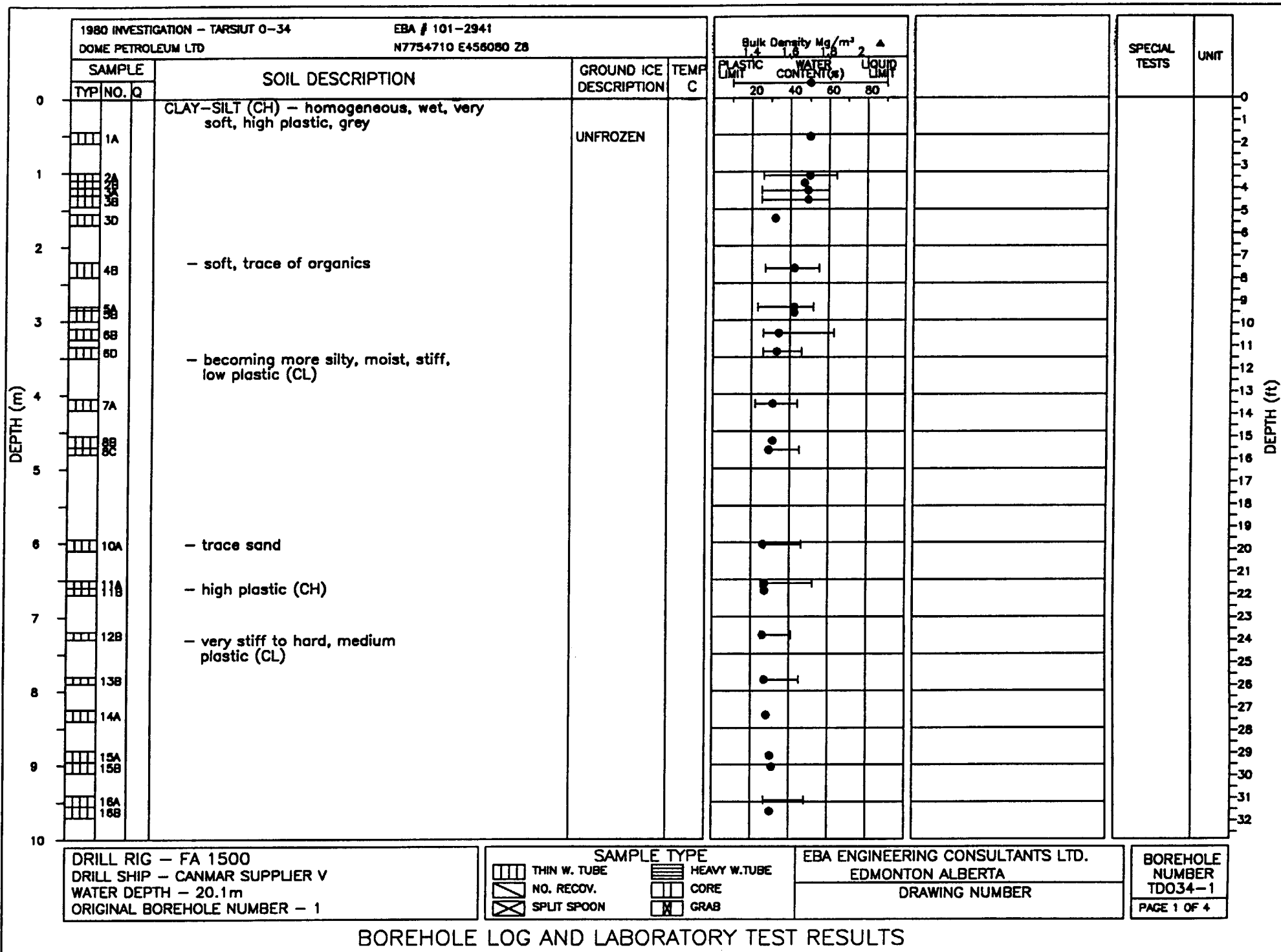
THIN W. TUBE	HEAVY W. TUBE
NO RECOVERY	CORE
SPLIT SPOON	GRAB

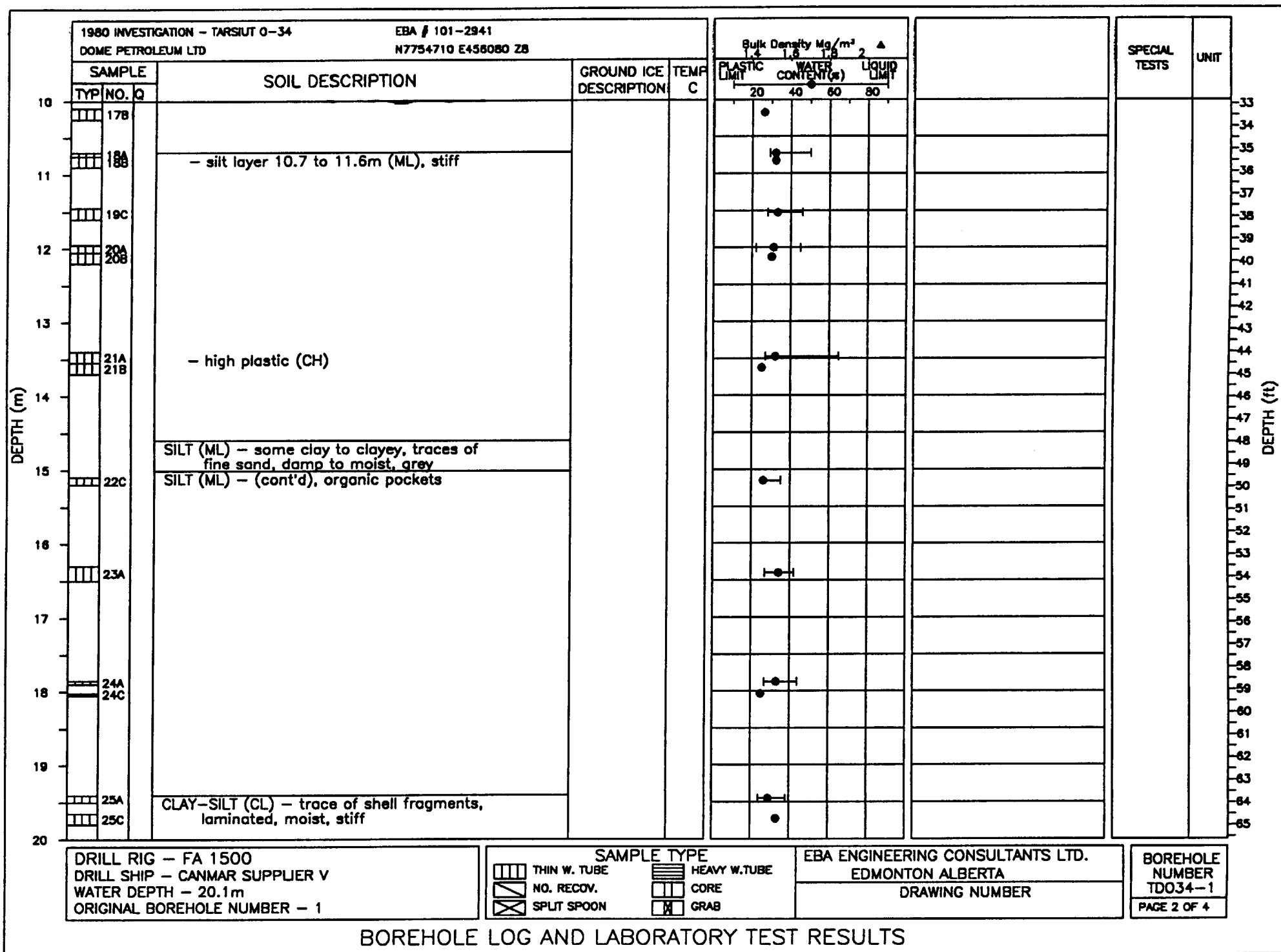
EBA ENGINEERING CONSULTANTS LTD.
EDMONTON ALBERTA
DRAWING NUMBER
N/A

BOREHOLE NUMBER
80MK-10

BOREHOLE LOG AND LABORATORY TEST RESULTS

1980 GEOTECH. EVALUATION - MCKINLEY BAY CANADIAN MARINE DRILLING LTD.				EBA # 101-2808.1 N7763300 E416000 Z9		Bulk Density Mg/m ³ ▲ 1.4 1.6 1.8 2				PLASTIC LIMIT WATER CONTENT (%) LIQUID LIMIT		SPECIAL TESTS		UNIT																																																																																							
SAMPLE			SOIL DESCRIPTION			GROUND ICE DESCRIPTION		TEMP C																																																																																													
TYP	NO.	Q																																																																																																			
0			SILT (ml) - trace of clay, medium plastic,			UNFROZEN																																																																																															
1			- black organics			UNFROZEN																																																																																															
2			SAND (sp-sm) - trace to some silt, wet, dark at 1.5m																																																																																																		
3			- some silt, uniform, fine to medium, light brownish grey																																																																																																		
4																																																																																																					
5																																												- some silt, uniform, medium, wet, light brownish grey																																																									
6																																																																																																					
7																																																																			- some silt and gravel (SP), medium to coarse light brownish grey																																		
8																																																																			- uniform, fine, moist, dark grey																																		
9																																																																			END OF BOREHOLE at 8.5m																																		
10																																																																																																					
11																																																																																																					
12																																																																																																					
13																																																																																																					
14																																																																																																					
15																																																																																																					





1980 INVESTIGATION - TARSUUT 0-34				EBA # 101-2941								
DOME PETROLEUM LTD				N7754710 E456080 Z8								
SAMPLE		SOIL DESCRIPTION	GROUND ICE DESCRIPTION	TEMP C	Bulk Density Mg/m ³ ▲				SPECIAL TESTS	UNIT	DEPTH (ft)	
TYP	NO. Q				PLASTIC LIMIT	WATER CONTENT (%)	LIQUID LIMIT					
												86
												87
												88
												89
												90
												91
												92
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21												
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25												
26												
27												
28												
29												
30												

DRILL RIG - FA 1500

DRILL SHIP - CANMAR SUPPLIER V

WATER DEPTH - 20.1m

ORIGINAL BOREHOLE NUMBER - 1

SAMPLE TYPE

THIN W. TUBE

NO. RECOV.

SPLIT SPOON

HEAVY W. TUBE

CORE

GRAB

EBA ENGINEERING CONSULTANTS LTD.

EDMONTON ALBERTA

DRAWING NUMBER

BOREHOLE NUMBER

TDO34-1

PAGE 3 OF 4

BOREHOLE LOG AND LABORATORY TEST RESULTS

1980 INVESTIGATION - TARSUUT 0-34				EBA # 101-2941					
DOME PETROLEUM LTD				N7754710 E458080 Z8					
SAMPLE		SOIL DESCRIPTION	GROUND ICE DESCRIPTION	TEMP C	Bulk Density Mg/m ³ ▲ PLASTIC LIMIT WATER CONTENT(w) LIQUID LIMIT 20 40 60 80		SPECIAL TESTS	UNIT	DEPTH (ft)
TYP	NO. Q								
30	29A	END OF BOREHOLE at 30.5m	UNFROZEN						99
31									100
32									101
33									102
34									103
35									104
36									105
37									106
38									107
39									108
40									109
									110
									111
									112
									113
									114
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									128
									129
									130
									131

DRILL RIG - FA 1500
DRILL SHIP - CANMAR SUPPLIER V
WATER DEPTH - 20.1m
ORIGINAL BOREHOLE NUMBER - 1

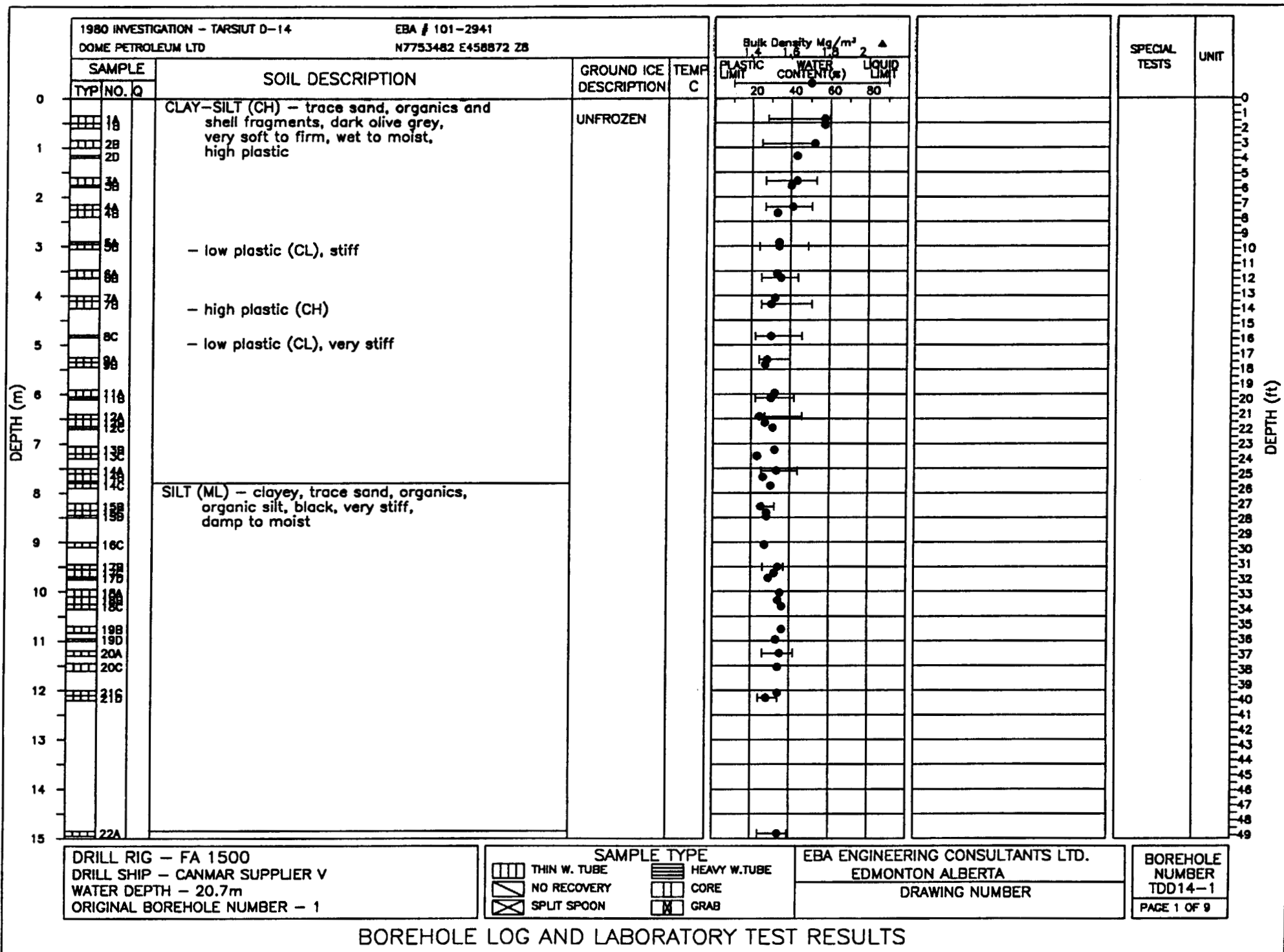
THIN W. TUBE
NO. RECOV.
SPLIT SPOON

HEAVY W. TUBE
CORE
GRAB

EBA ENGINEERING CONSULTANTS LTD.
EDMONTON ALBERTA
DRAWING NUMBER

BOREHOLE NUMBER
TDO34-1
PAGE 4 OF 4

BOREHOLE LOG AND LABORATORY TEST RESULTS



BOREHOLE LOG AND LABORATORY TEST RESULTS

1980 INVESTIGATION - TARSUUT D-14			EBA # 101-2941		N7753482 E458872 Z8		Bulk Density Mg/m ³ ▲		SPECIAL TESTS	UNIT	DEPTH (ft)
DOME PETROLEUM LTD							PLASTIC LIMIT WATER CONTENT (%) LIQUID LIMIT				
DEPTH (m)	SAMPLE		SOIL DESCRIPTION	GROUND ICE DESCRIPTION	TEMP C						
	TYP	NO. Q									
15	THIN W. TUBE	225	CLAY-SILT (CL) - trace sand, organics, shell fragments, grey, stiff, moist								50
16											51
17											52
18	THIN W. TUBE	230	- some sand, to sandy, trace to some clay, trace organics, high plastic (CH)	FROZEN, Nbn							53
19				PARTIALLY FROZEN (Nbn in sandy lenses)							54
20											55
21	THIN W. TUBE	240	SILT (ml) - some clay, olive grey, some organics, trace sand, moist, dark	UNFROZEN ?							56
22											57
23											58
24	THIN W. TUBE	250		FROZEN, Nbn							59
25											60
26											61
27											62
28				Nbn							63
29											64
30											65

DRILL RIG - FA 1500 DRILL SHIP - CANMAR SUPPLIER V WATER DEPTH - 20.7m ORIGINAL BOREHOLE NUMBER - 1	SAMPLE TYPE THIN W. TUBE NO RECOVERY SPLIT SPOON HEAVY W. TUBE CORE GRAB	EBA ENGINEERING CONSULTANTS LTD. EDMONTON ALBERTA DRAWING NUMBER	BOREHOLE NUMBER TDD14-1 PAGE 2 OF 9
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BOREHOLE LOG AND LABORATORY TEST RESULTS

1980 INVESTIGATION - TARSUUT D-14 DOME PETROLEUM LTD				EBA # 101-2941 N7753482 E458872 Z8						Bulk Density Mg/m ³ ▲		SPECIAL TESTS	UNIT	
SAMPLE		SOIL DESCRIPTION	GROUND ICE DESCRIPTION	TEMP C	PLASTIC LIMIT WATER CONTENT (%) LIQUID LIMIT									
TYP	NO. Q				1.4	1.6	1.8	2						
30	27D 27C	SILT (ml) - (cont'd)	Nbn		20	40	60	80					99	
31														100
32														101
33														102
34														103
35														104
36														105
37														106
38														107
39														108
33	28A 28B	CLAY-SILT (CL) - trace sand and organics, shell fragments, dark olive grey, stiff, moist, low plastic	PARTIALLY FROZEN (Nbn in sandy lenses)		20	40	60	80					109	
34														110
35														111
36														112
37														113
38														114
39														115
40														116
41														117
42														118
36	29A 29C	UNFROZEN ?	UNFROZEN ?		20	40	60	80					119	
37														120
38														121
39														122
40														123
41														124
42														125
43														126
44														127
45														128
39	30A 30B 30C	PARTIALLY FROZEN (Nbn in silt)	PARTIALLY FROZEN (Nbn in silt)		20	40	60	80					129	
40														130
41														131
42														132
43														133
44														134
45														135
46														136
47														137
48														138
42	31A 31B				20	40	60	80					139	
43														140
44														141
45														142
46														143
47														144
48														145
49														146
50														147
51														148

DRILL RIG - FA 1500
 DRILL SHIP - CANMAR SUPPLIER V
 WATER DEPTH - 20.7m
 ORIGINAL BOREHOLE NUMBER - 1

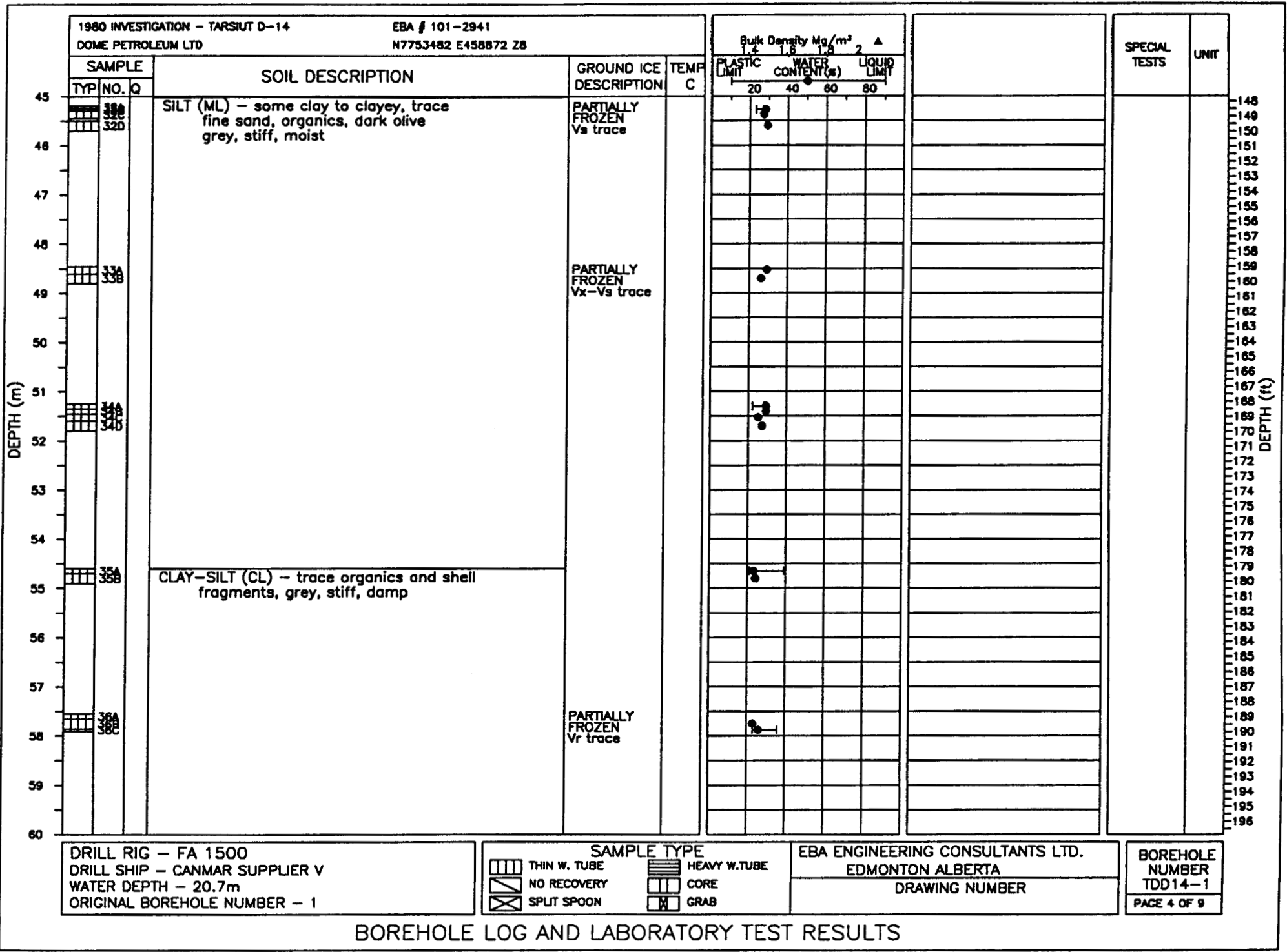
SAMPLE TYPE

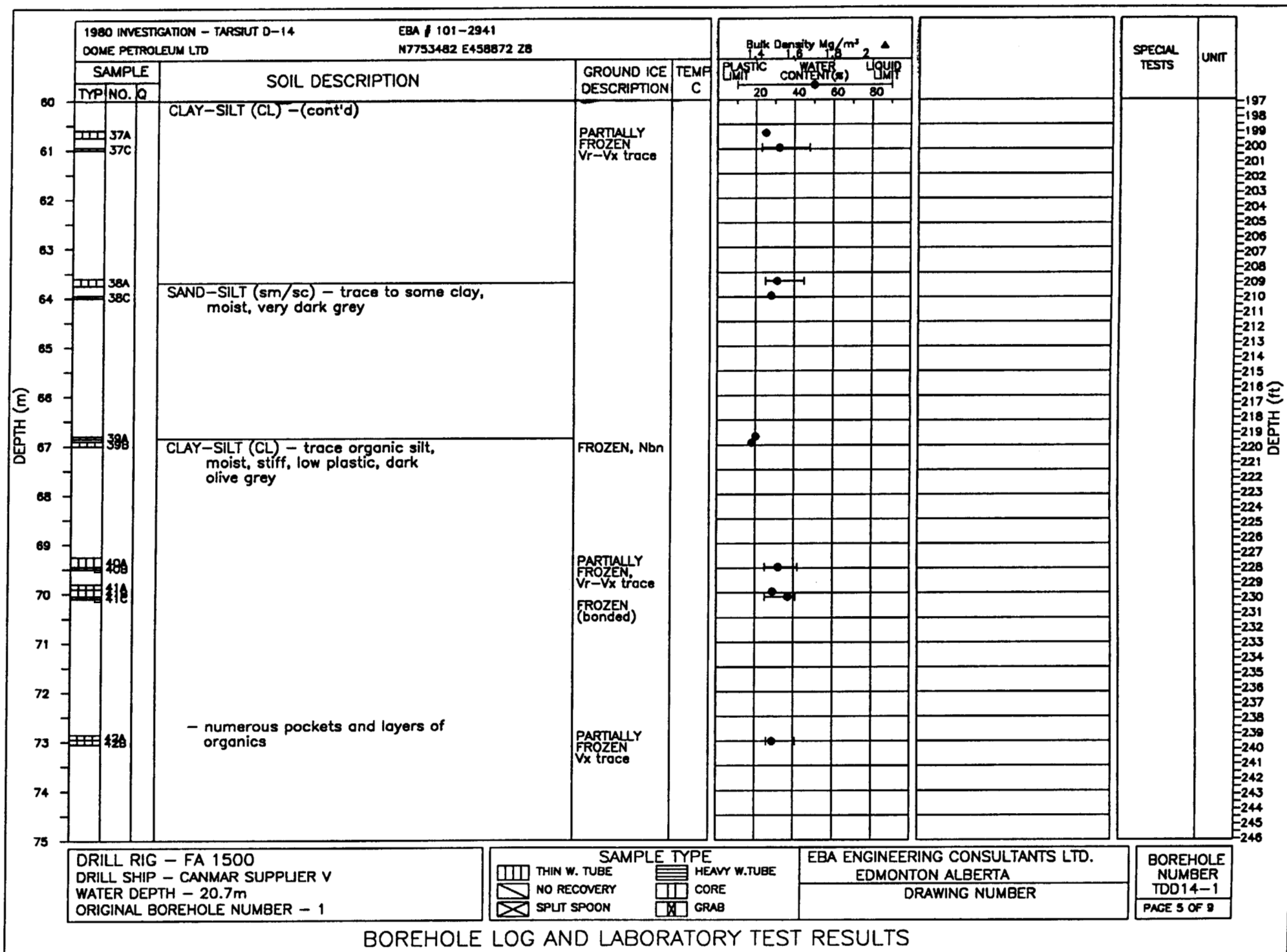
THIN W. TUBE	HEAVY W. TUBE
NO RECOVERY	CORE
SPLIT SPOON	GRAB

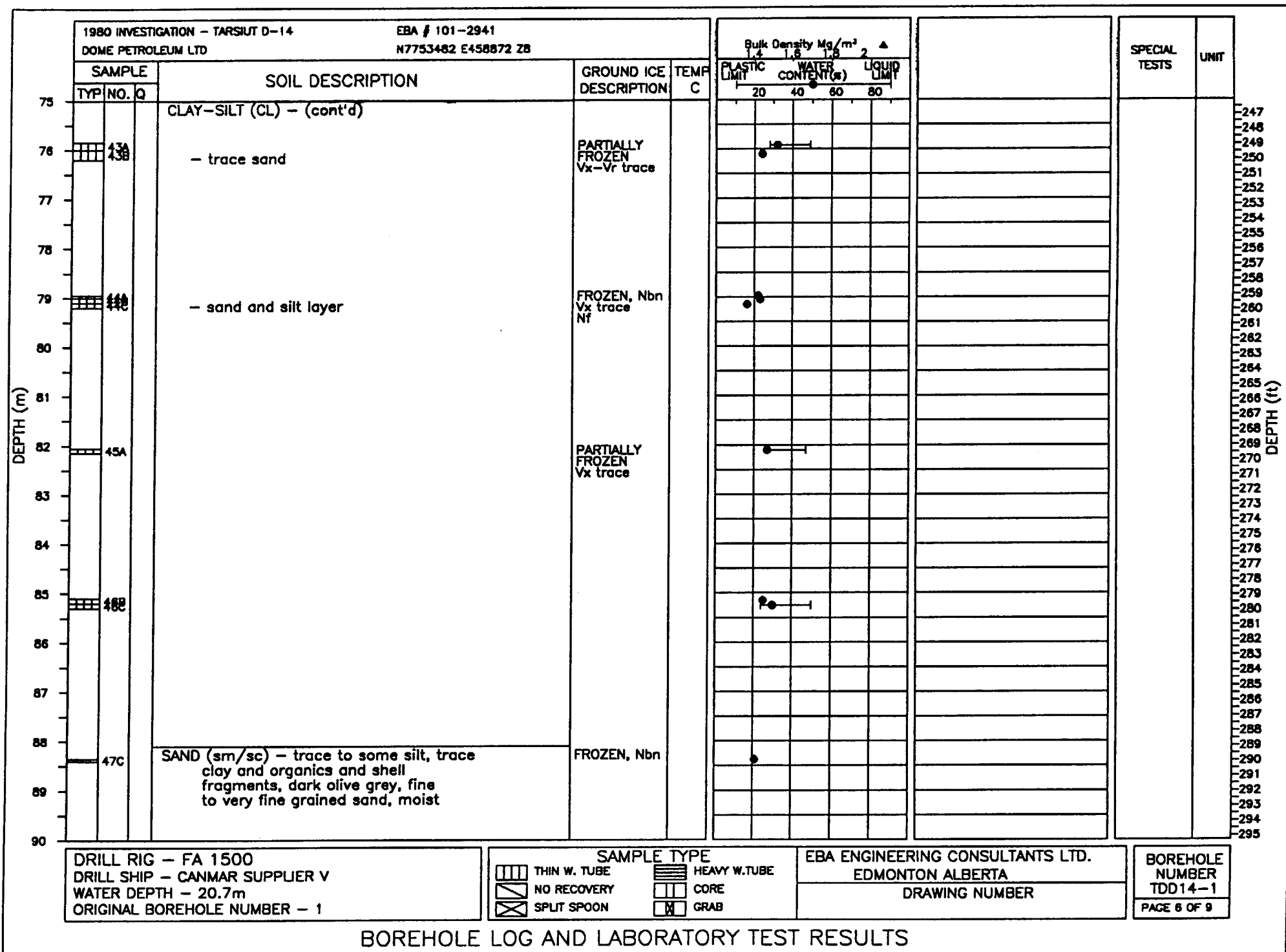
EBA ENGINEERING CONSULTANTS LTD.
 EDMONTON ALBERTA
 DRAWING NUMBER

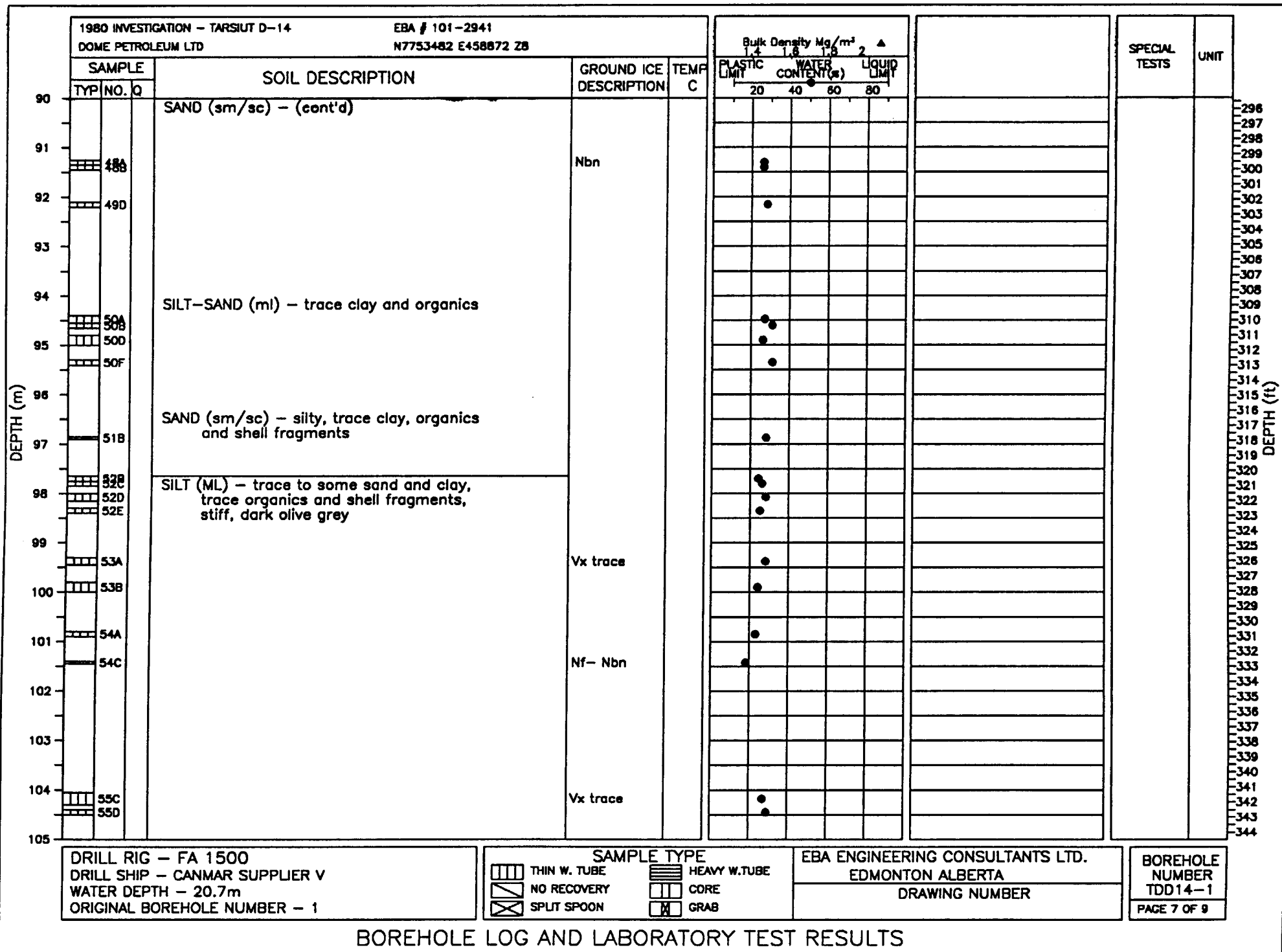
BOREHOLE NUMBER
 TDD14-1
 PAGE 3 OF 9

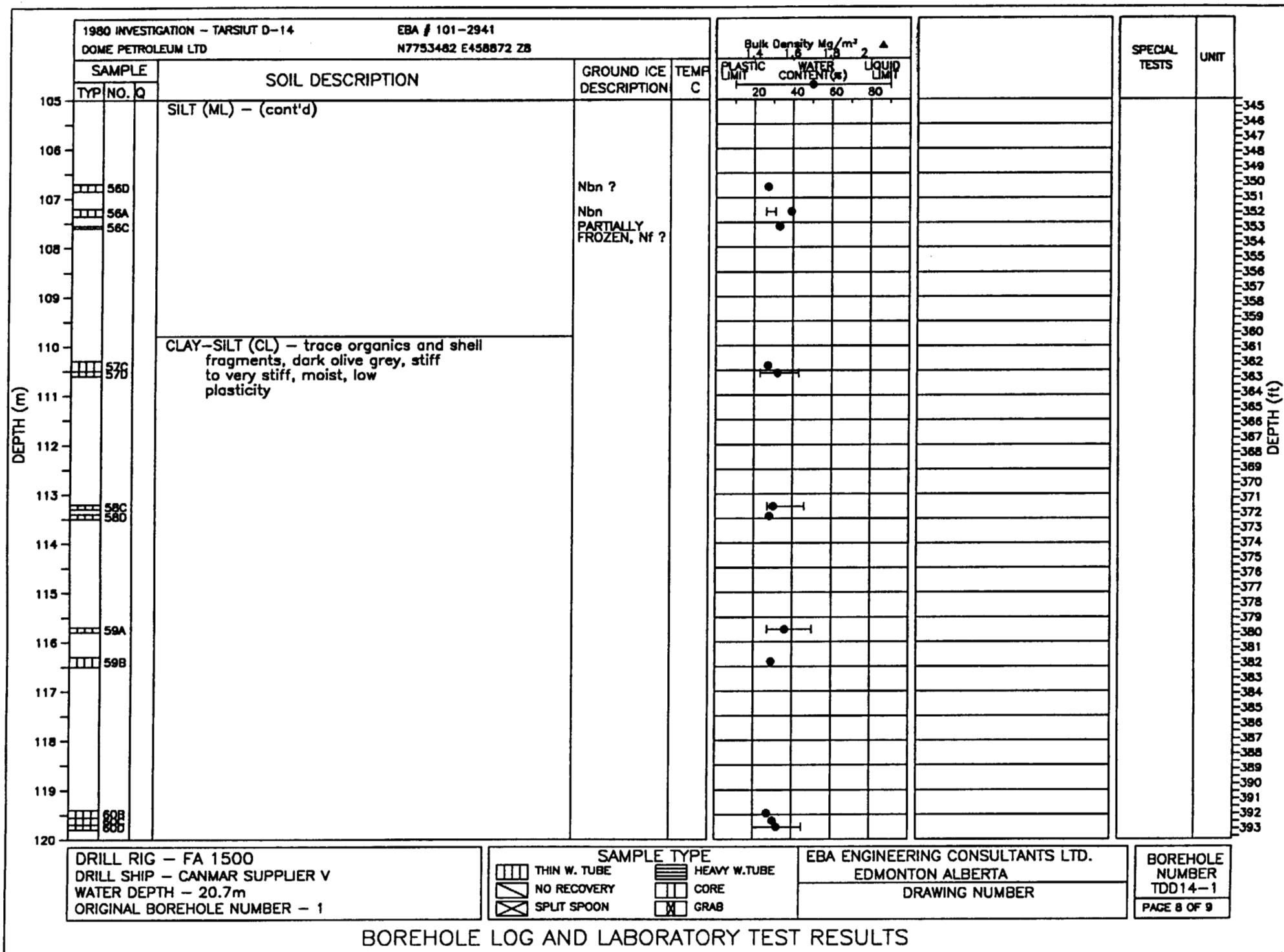
BOREHOLE LOG AND LABORATORY TEST RESULTS











1980 INVESTIGATION - TARSUUT D-14 DOME PETROLEUM LTD				EBA # 101-2941 N7753482 E458872 Z8										
SAMPLE			SOIL DESCRIPTION		GROUND ICE DESCRIPTION	TEMP C	Bulk Density Mg/m ³ ▲ 1.4 1.6 1.8 2		PLASTIC LIMIT WATER CONTENT (%) LIQUID LIMIT		20 40 60 80		SPECIAL TESTS	UNIT
DEPTH (m)	120			CLAY (CL) - (cont'd)										
	121													
	122													
	123	618		- high plastic (CH) END OF BOREHOLE at 122.8m	PARTIALLY FROZEN									
	124													
	125													
	126													
	127													
	128													
	129													
	130													
	131													
	132													
	133													
	134													
	135													

DRILL RIG - FA 1500
 DRILL SHIP - CANMAR SUPPLIER V
 WATER DEPTH - 20.7m
 ORIGINAL BOREHOLE NUMBER - 1

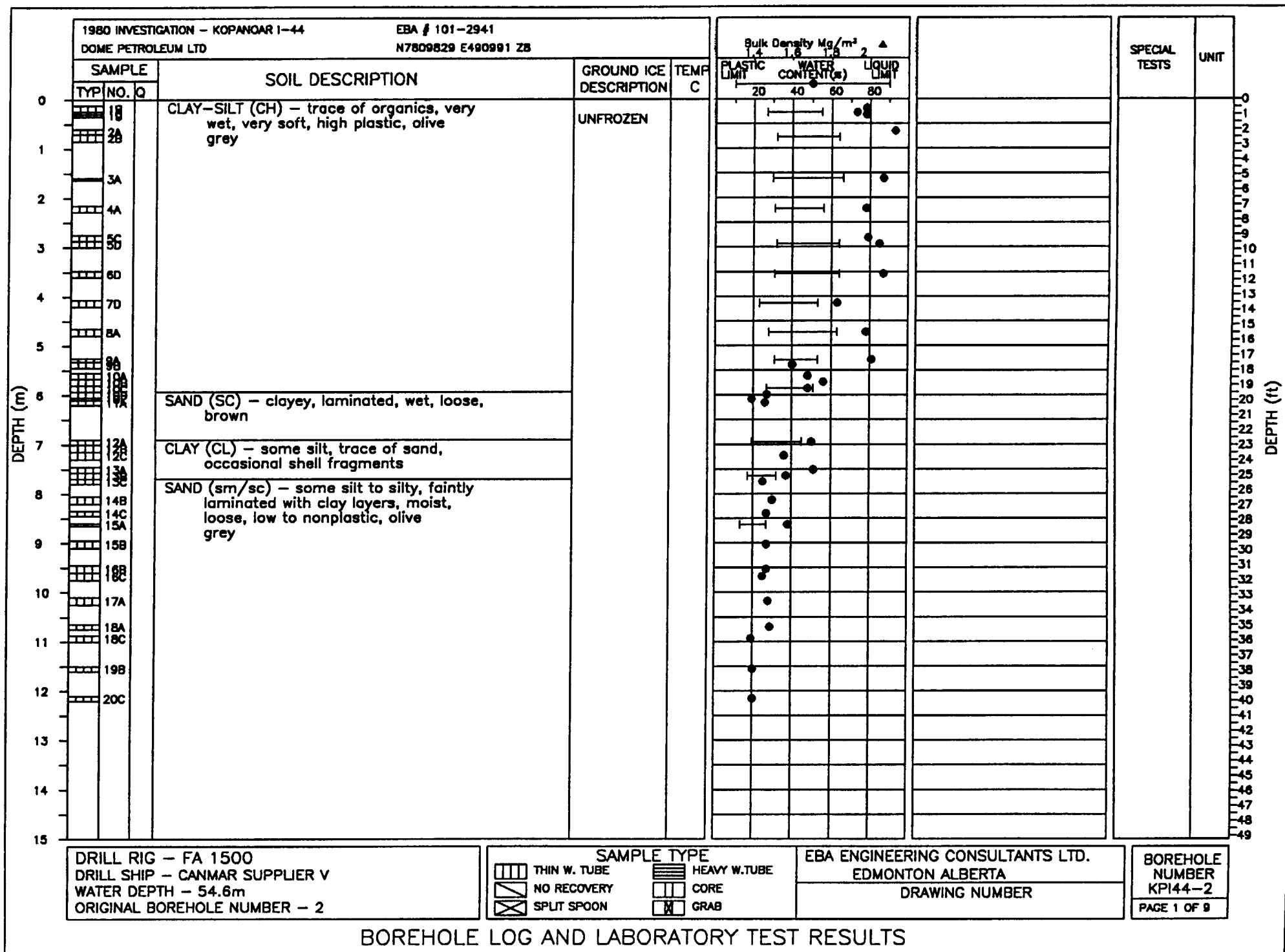
SAMPLE TYPE

THIN W. TUBE	HEAVY W. TUBE
NO RECOVERY	CORE
SPLIT SPOON	GRAB

EBA ENGINEERING CONSULTANTS LTD.
 EDMONTON ALBERTA
 DRAWING NUMBER

BOREHOLE NUMBER
 TDD14-1
 PAGE 9 OF 9

BOREHOLE LOG AND LABORATORY TEST RESULTS



1980 INVESTIGATION - KOPANQAR I-44 DOME PETROLEUM LTD				EBA # 101-2941 N7809829 E490991 Z8		Bulk Density Mg/m ³ ▲ 1.4 1.6 1.8 2				SPECIAL TESTS	UNIT	DEPTH (ft)
SAMPLE		SOIL DESCRIPTION	GROUND ICE DESCRIPTION	TEMP C	PLASTIC LIMIT	WATER CONTENT (%)	LIQUID LIMIT					
15	218				SAND (sm/sc) - (cont'd)			20	40	60	80	
16												51
17												52
18	22A 236	CLAY-SILT (CL) - trace of sand, clay pockets and clay laminations, moist, stiff, low plastic, olive grey										53
19												54
20												55
21	24A 248											56
22												57
23												58
24	25A 258											59
25												60
26												61
27	26A 268 26C											62
28												63
29												64
30												65
												66
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												96
												97
												98

DRILL RIG - FA 1500
 DRILL SHIP - CANMAR SUPPLIER V
 WATER DEPTH - 54.6m
 ORIGINAL BOREHOLE NUMBER - 2

SAMPLE TYPE

THIN W. TUBE	HEAVY W. TUBE
NO RECOVERY	CORE
SPLIT SPOON	GRAB

EBA ENGINEERING CONSULTANTS LTD.
 EDMONTON ALBERTA
 DRAWING NUMBER

BOREHOLE NUMBER
 KP144-2
 PAGE 2 OF 9

BOREHOLE LOG AND LABORATORY TEST RESULTS

1980 INVESTIGATION - KOPANOAR I-44 DOME PETROLEUM LTD				EBA # 101-2941 N7809829 E490991 Z8		Bulk Density Mg/m ³ ▲ 1.4 1.6 1.8 2				SPECIAL TESTS UNIT		
SAMPLE TYP NO. Q		SOIL DESCRIPTION		GROUND ICE DESCRIPTION TEMP C		PLASTIC LIMIT WATER CONTENT (%) LIQUID LIMIT 20 40 60 80						
30				CLAY-SILT (CL) - (cont'd)								
		27A										
		27B										
31												
32												
33												
		28A										
		28B										
34												
35												
36												
		29C										
		29E										
37												
38												
39												
		30A										
		30B										
40												
41												
42												
		31B										
		31D										
43												
44												
45												

DRILL RIG - FA 1500
 DRILL SHIP - CANMAR SUPPLIER V
 WATER DEPTH - 54.6m
 ORIGINAL BOREHOLE NUMBER - 2

SAMPLE TYPE
 [] THIN W. TUBE [] HEAVY W. TUBE
 [] NO RECOVERY [] CORE
 [] SPLIT SPOON [] GRAB

EBA ENGINEERING CONSULTANTS LTD.
 EDMONTON ALBERTA
 DRAWING NUMBER

BOREHOLE NUMBER
 KP144-2
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BOREHOLE LOG AND LABORATORY TEST RESULTS

1980 INVESTIGATION - KOPANOAR I-44				EBA # 101-2941											
DOME PETROLEUM LTD				N7809829 E480991 Z8											
SAMPLE		SOIL DESCRIPTION		GROUND ICE DESCRIPTION		TEMP C		BULK DENSITY Mg/m ³ ▲		PLASTIC LIMIT		WATER CONTENT (%)		LIQUID LIMIT	
TYP	NO. Q														
45	32A	CLAY-SILT (CL) - (cont'd)													
	32B														
46															
47															
48															
49	33C														
50															
51															
52	34B														
53															
54	35A														
55	35D														
56															
57															
58	36B														
59															
60															

DRILL RIG - FA 1500
 DRILL SHIP - CANMAR SUPPLIER V
 WATER DEPTH - 54.6m
 ORIGINAL BOREHOLE NUMBER - 2

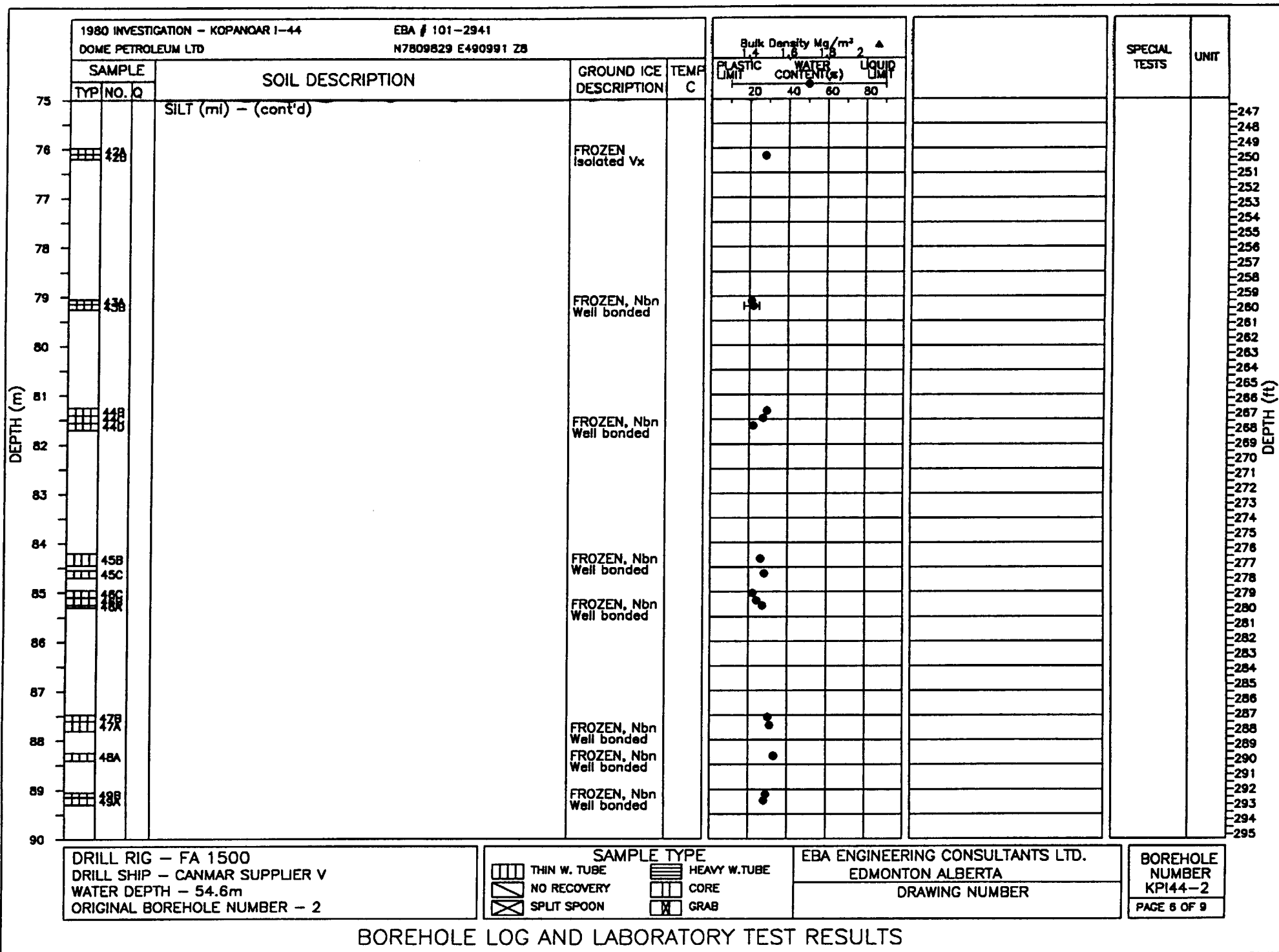
SAMPLE TYPE

THIN W. TUBE	HEAVY W. TUBE
NO RECOVERY	CORE
SPLIT SPOON	GRAB

EBA ENGINEERING CONSULTANTS LTD.
 EDMONTON ALBERTA
 DRAWING NUMBER

BOREHOLE NUMBER
 KPI44-2
 PAGE 4 OF 9

BOREHOLE LOG AND LABORATORY TEST RESULTS



1980 INVESTIGATION - KOPANOAR I-44			EBA # 101-2941		Bulk Density Mg/m ³ ▲		SPECIAL TESTS	UNIT	DEPTH (ft)	
DOME PETROLEUM LTD			N7809829 E490991 Z8		PLASTIC LIMIT WATER CONTENT (%) LIQUID LIMIT 20 40 60 80					
SAMPLE			SOIL DESCRIPTION	GROUND ICE DESCRIPTION	TEMP C					
TYP	NO.	Q								
	500		SILT (ml) - (cont'd)	FROZEN, Nbn Bonded					296	
	50C									297
	50A									298
									299	
									300	
	51C		FROZEN, Nbn Bonded						301	
	51A									302
									303	
									304	
	52C		FROZEN, Nbn Bonded						305	
	52B									306
	52A								307	
									308	
									309	
									310	
	53C		FROZEN, Nbn Bonded						311	
	53A									312
									313	
									314	
									315	
	54C		FROZEN, Nbn Bonded						316	
	54A									317
	55C		FROZEN Trace Vx FROZEN, Nbn Bonded						318	
	55A									319
									320	
									321	
									322	
									323	
	56B		FROZEN, Nbn Bonded						324	
	56A									325
									326	
									327	
									328	
	57B		FROZEN, Nbn Bonded						329	
										330
									331	
									332	
									333	
									334	
									335	
									336	
									337	
									338	
									339	
									340	
	58D		FROZEN, Nbn Bonded						341	
	58B									342
									343	
									344	

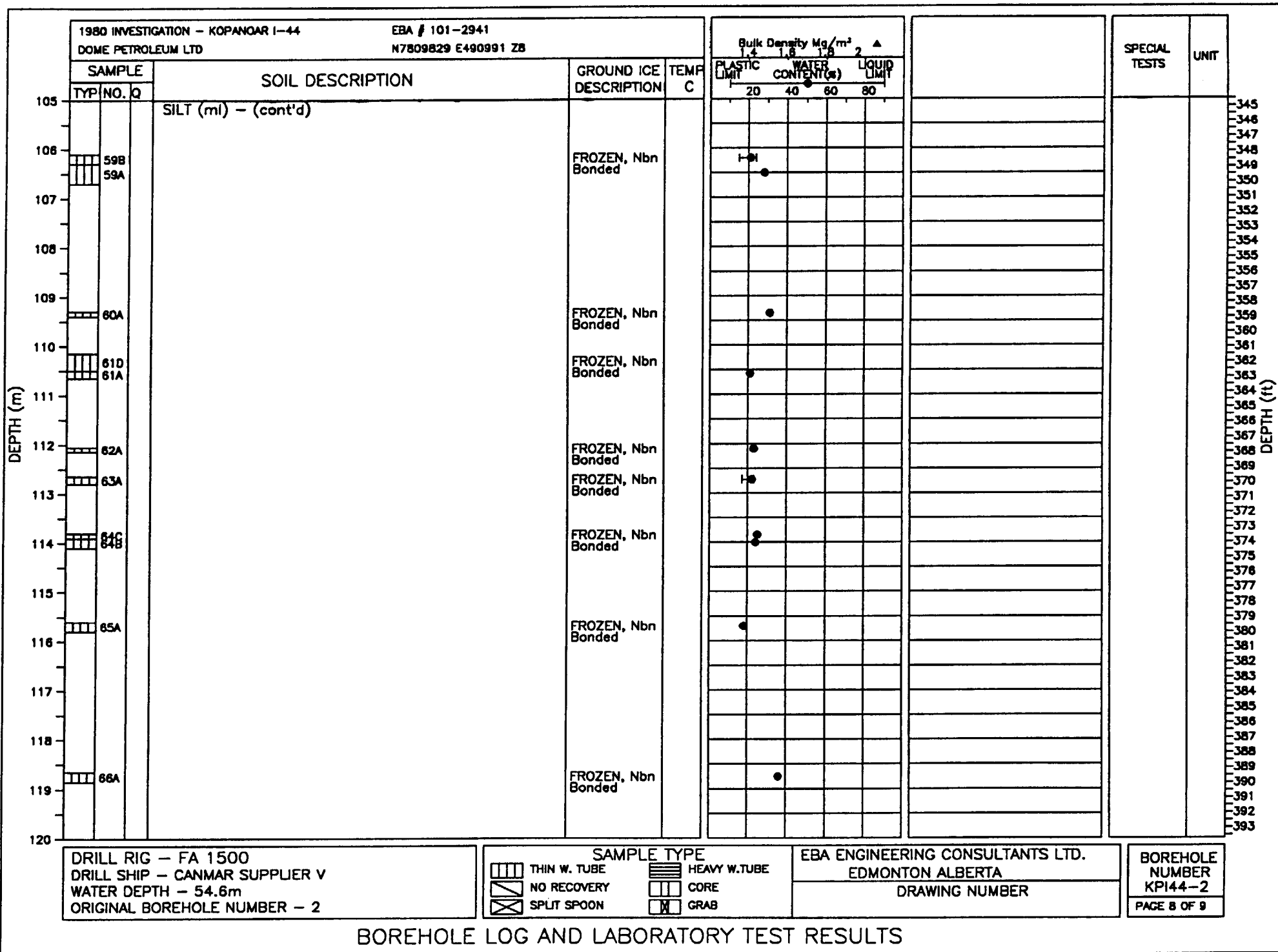
DRILL RIG - FA 1500
 DRILL SHIP - CANMAR SUPPLIER V
 WATER DEPTH - 54.6m
 ORIGINAL BOREHOLE NUMBER - 2

SAMPLE TYPE	
THIN W. TUBE	HEAVY W. TUBE
NO RECOVERY	CORE
SPLIT SPOON	GRAB

EBA ENGINEERING CONSULTANTS LTD.
 EDMONTON ALBERTA
 DRAWING NUMBER

BOREHOLE NUMBER
 KP144-2
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BOREHOLE LOG AND LABORATORY TEST RESULTS



1980 INVESTIGATION - KOPANOAR I-44 DOME PETROLEUM LTD				EBA # 101-2941 N7809829 E490991 ZB		Bulk Density Mg/m ³ ▲ 1.4 1.6 1.8 2				SPECIAL TESTS	UNIT	DEPTH (ft)
SAMPLE		SOIL DESCRIPTION	GROUND ICE DESCRIPTION	TEMP C	PLASTIC LIMIT	WATER CONTENT (%)	LIQUID LIMIT					
TYP	NO. Q											
120		SILT (ml) - (cont'd)										394
121												395
122	67G 67H	END OF BOREHOLE at 121.9m	FROZEN, Nbn Bonded									396
123												397
124												398
125												399
126												400
127												401
128												402
129												403
130												404
131												405
132												406
133												407
134												408
135												409
												410
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												439
												440
												441
												442

DRILL RIG - FA 1500
 DRILL SHIP - CANMAR SUPPLIER V
 WATER DEPTH - 54.6m
 ORIGINAL BOREHOLE NUMBER - 2

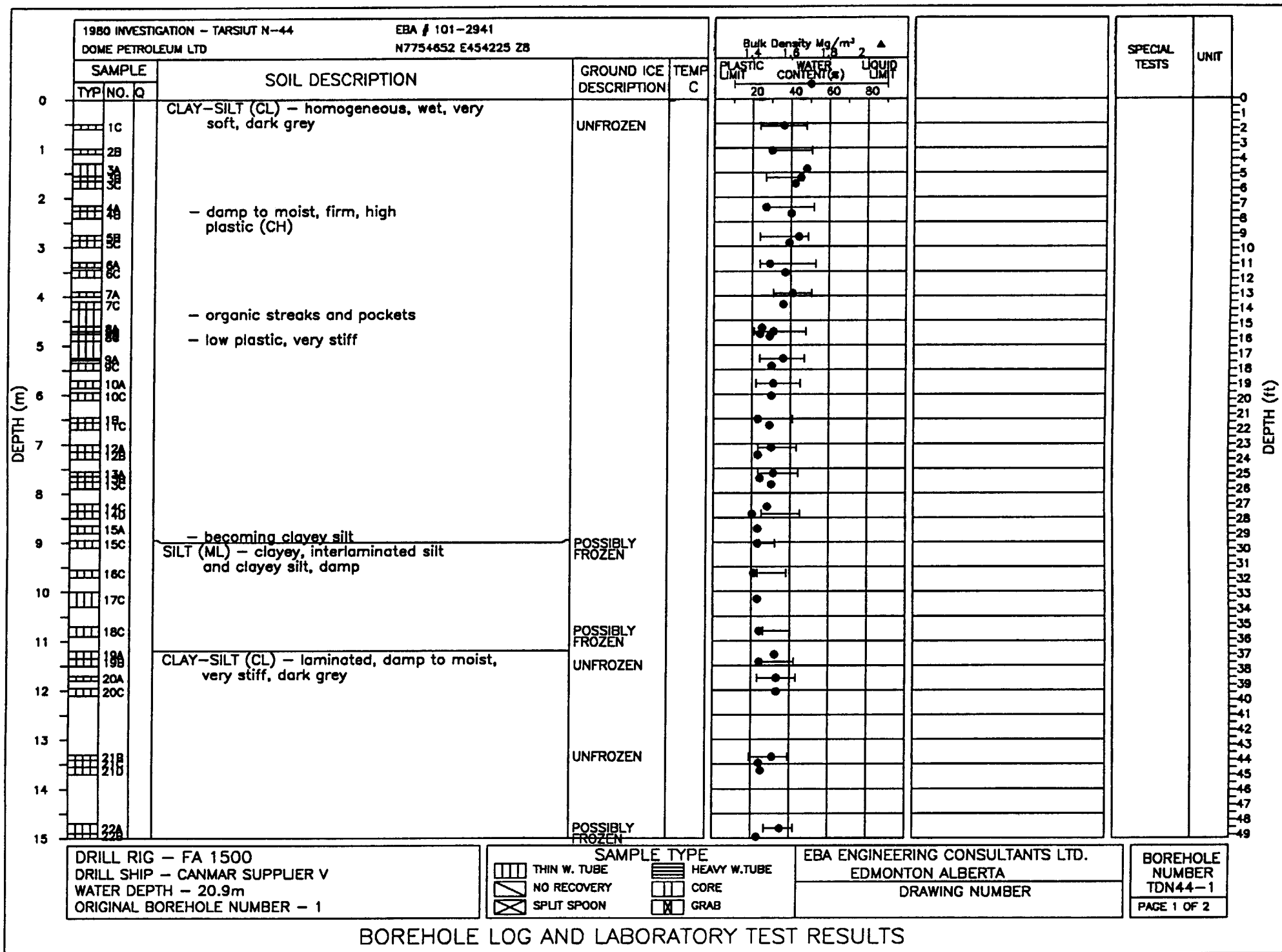
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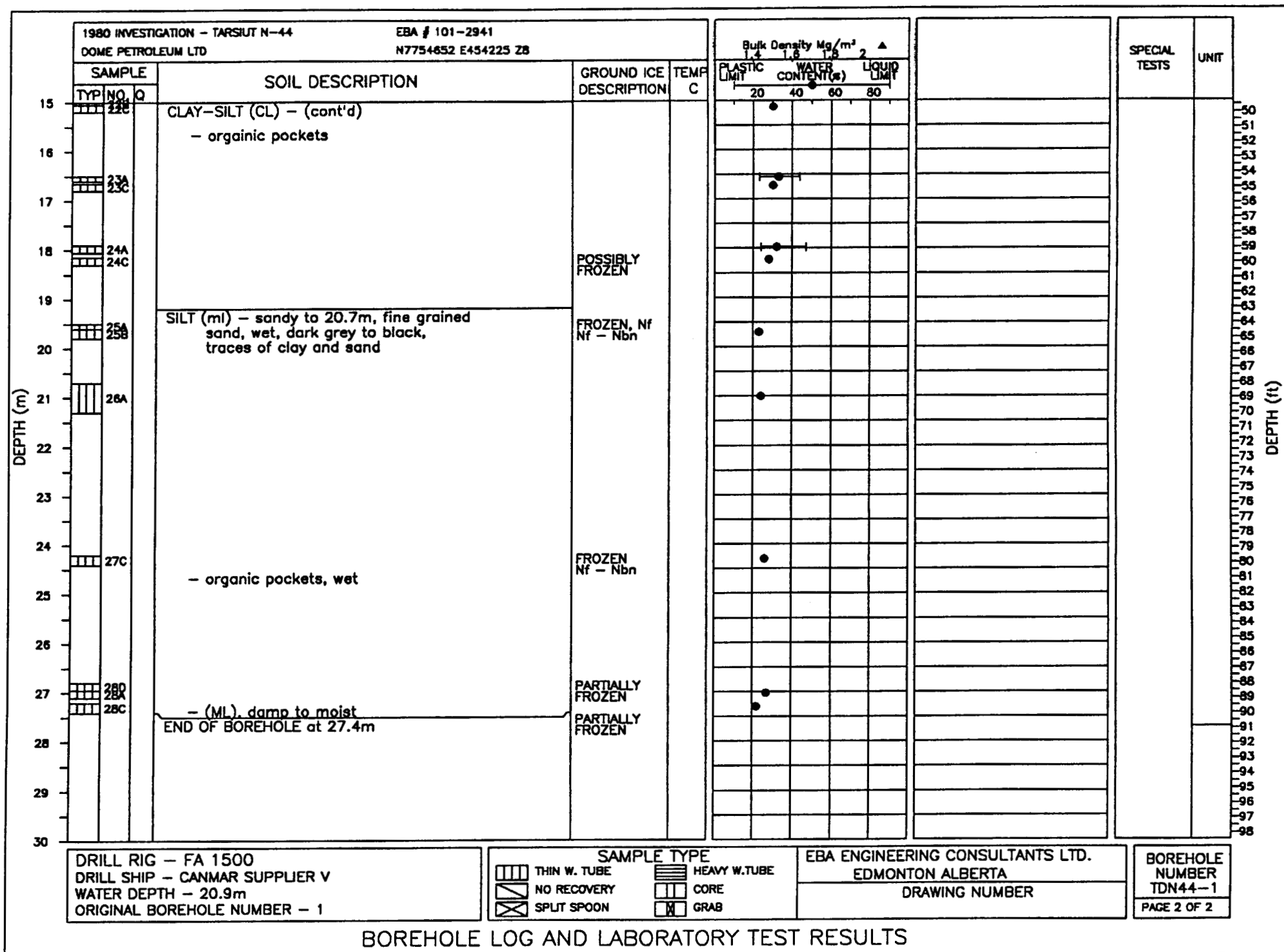
THIN W. TUBE	HEAVY W. TUBE
NO RECOVERY	CORE
SPLIT SPOON	GRAB

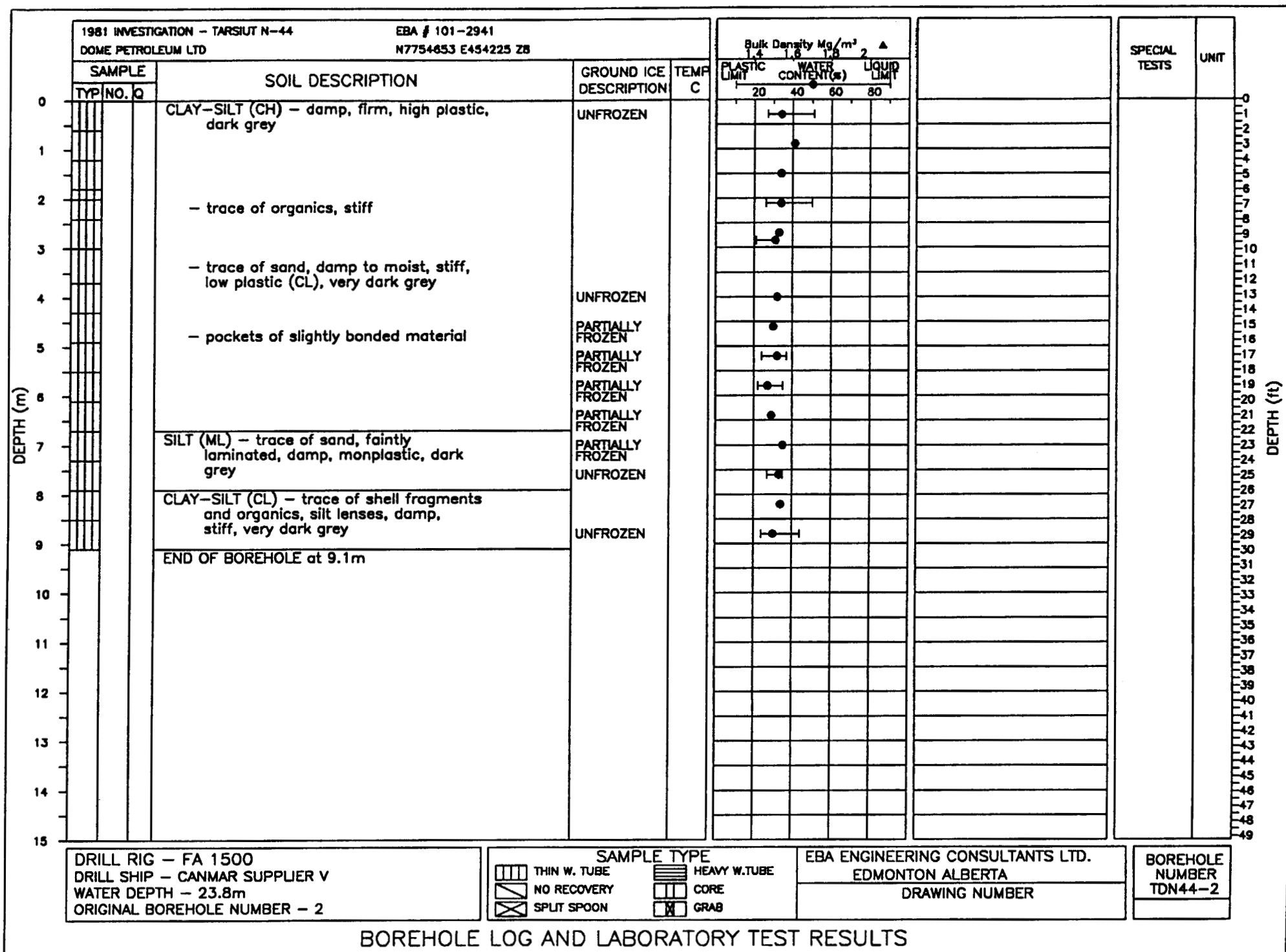
EBA ENGINEERING CONSULTANTS LTD.
 EDMONTON ALBERTA
 DRAWING NUMBER

BOREHOLE NUMBER
 KPI44-2
 PAGE 9 OF 9

BOREHOLE LOG AND LABORATORY TEST RESULTS



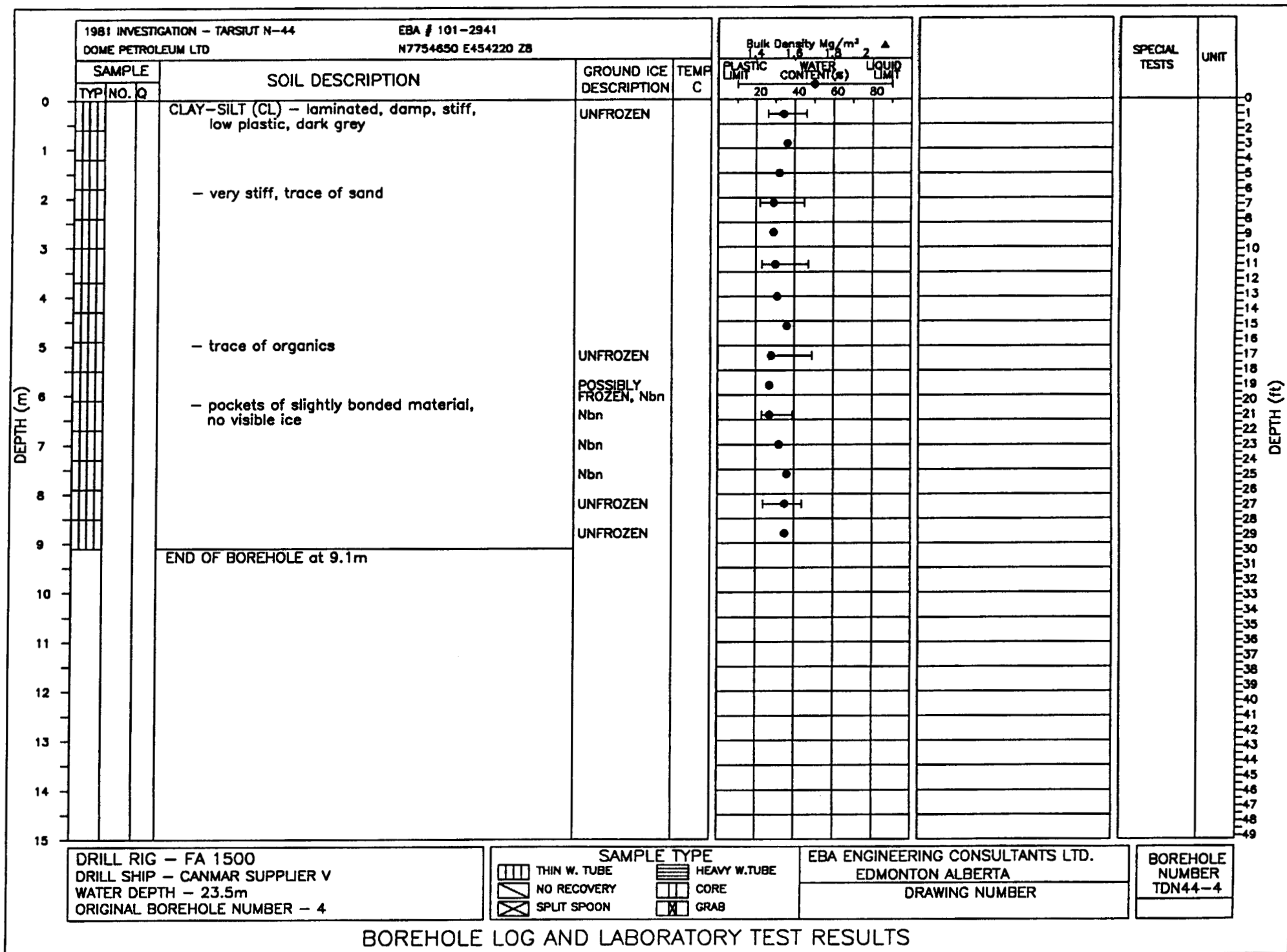


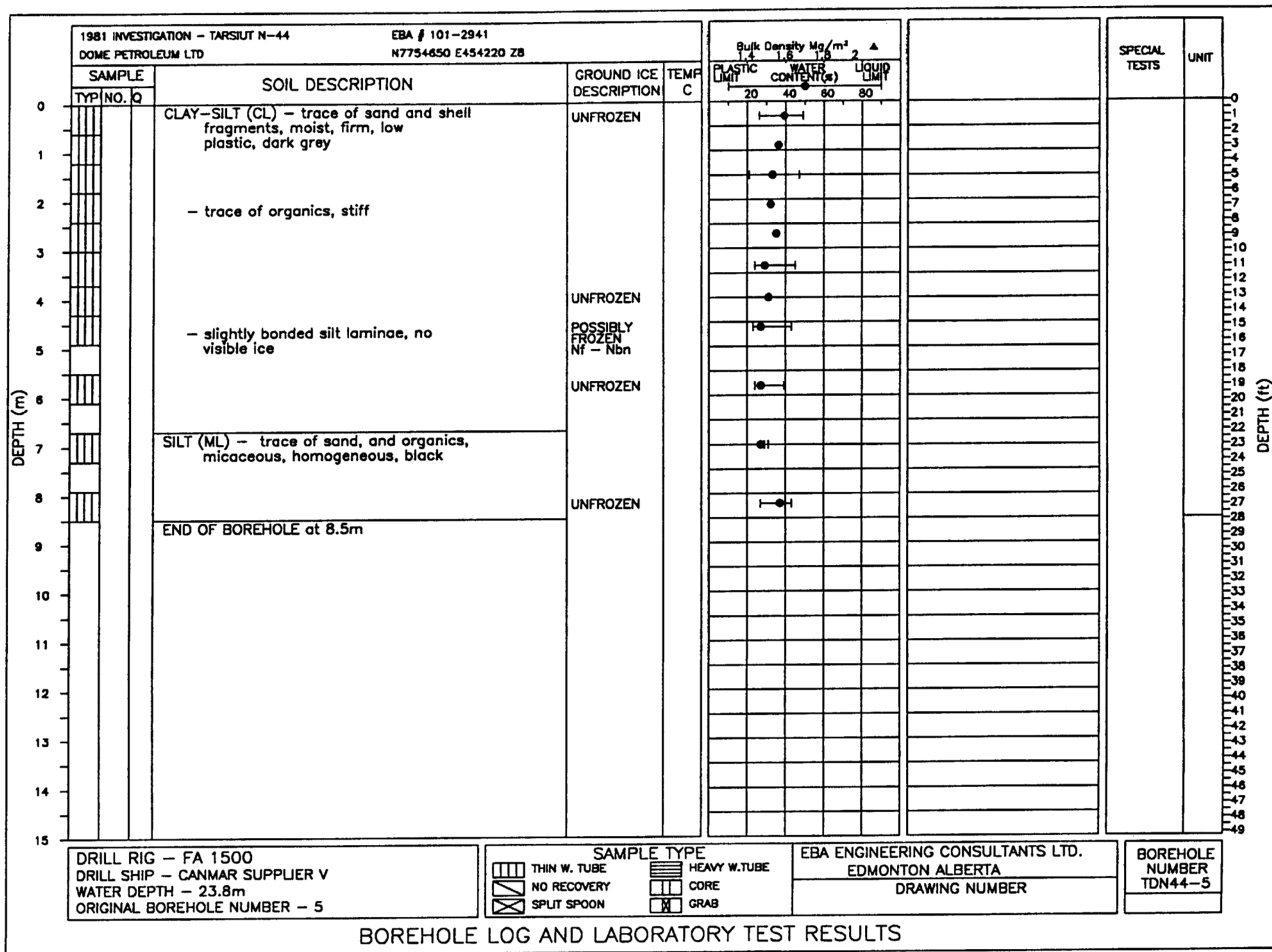


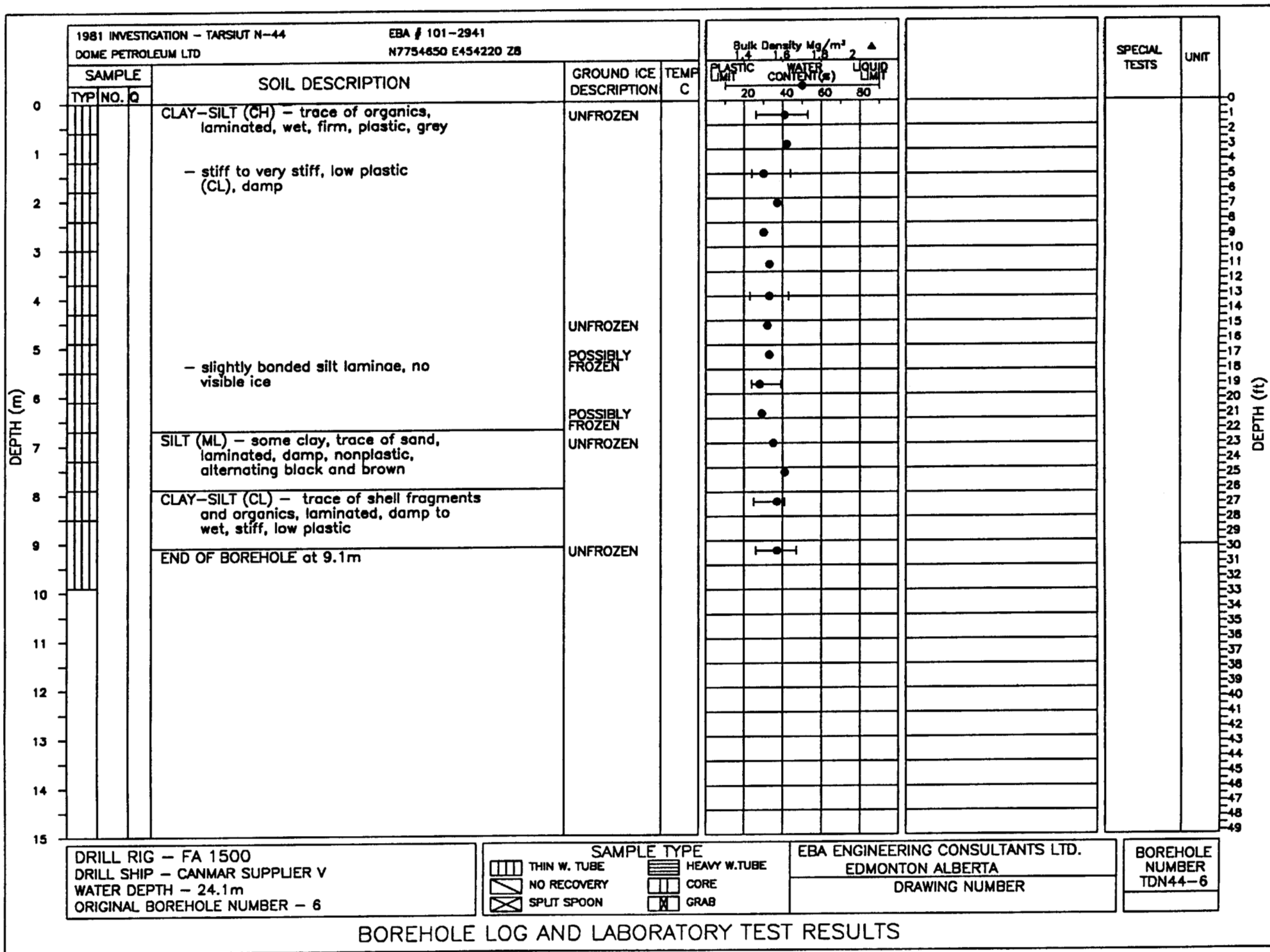
1981 INVESTIGATION - TARSUUT N-44 DOME PETROLEUM LTD				EBA / 101-2941 N7754650 E454220 Z8		Bulk Density Mg/m ³ ▲ 1.4 1.6 1.8 2				SPECIAL TESTS	UNIT	DEPTH (ft)
SAMPLE			SOIL DESCRIPTION	GROUND ICE DESCRIPTION	TEMP C	PLASTIC LIMIT	WATER CONTENT (%)	LIQUID LIMIT				
TYP	NO.	Q										
0			CLAY-SILT (CL) - trace of sand, shell fragments, organics, moist, firm to stiff, low plastic, dark grey	UNFROZEN			40					0
1												1
2												2
3												3
4												4
5												5
6												6
7												7
8												8
9												9
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												30
												31
												32

DRILL RIG - FA 1500 DRILL SHIP - CANMAR SUPPLIER V WATER DEPTH - 23.8m ORIGINAL BOREHOLE NUMBER - 3	SAMPLE TYPE THIN W. TUBE NO. RECOV. SPLIT SPOON HEAVY W. TUBE CORE GRAB	EBA ENGINEERING CONSULTANTS LTD. EDMONTON ALBERTA DRAWING NUMBER	BOREHOLE NUMBER TDN44-3
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BOREHOLE LOG AND LABORATORY TEST RESULTS







1980 INVESTIGATION - KOPANQAR M-13 DOME PETROLEUM LTD				EBA # 101-2941 N7807016 E497875 Z8		Bulk Density Mg/m ³ ▲ 1.4 1.6 1.8 2			SPECIAL TESTS	UNIT	DEPTH (ft)			
SAMPLE			SOIL DESCRIPTION	GROUND ICE DESCRIPTION	TEMP C	PLASTIC LIMIT	WATER CONTENT (%)	LIQUID LIMIT						
TYP	NO.	Q												
30			SAND (SM/SC) - (cont'd)	FROZEN	-4.3						99			
31													100	
32														101
33														102
34														103
35														104
36														105
37														106
38														107
39														108
40														109
41														110
42														111
43														112
44														113
45														114
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											145			
											146			
											147			

DRILL RIG - FA 1500
 DRILL SHIP - CANMAR SUPPLIER V
 WATER DEPTH - 54.6m
 ORIGINAL BOREHOLE NUMBER - BORING 1

SAMPLE TYPE

THIN W. TUBE	HEAVY W. TUBE
NO RECOVERY	CORE
SPLIT SPOON	GRAB

EBA ENGINEERING CONSULTANTS LTD.
 EDMONTON ALBERTA
 DRAWING NUMBER

BOREHOLE NUMBER
 KPM13-1
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BOREHOLE LOG AND LABORATORY TEST RESULTS

1980 INVESTIGATION - KOPANOAR M-13				EBA / 101-2941									
DOME PETROLEUM LTD				N7807016 E487875 Z8									
SAMPLE			SOIL DESCRIPTION	GROUND ICE DESCRIPTION	TEMP C	Bulk Density Mg/m ³ ▲					SPECIAL TESTS	UNIT	DEPTH (ft)
TYP	NO.	Q				PLASTIC LIMIT	WATER CONTENT (%)	LIQUID LIMIT					
			SAND (SM/SC) - (cont'd)	FROZEN	-2.9								148
			END OF BOREHOLE at 46.0m										
													150
													151
													152
													153
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													155
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													192
													193
													194
													195
													196

DRILL RIG - FA 1500
 DRILL SHIP - CANMAR SUPPLIER V
 WATER DEPTH - 54.6m
 ORIGINAL BOREHOLE NUMBER - BORING 1

SAMPLE TYPE

THIN W. TUBE
 NO RECOVERY
 SPLIT SPOON

HEAVY W. TUBE
 CORE
 GRAB

EBA ENGINEERING CONSULTANTS LTD.
 EDMONTON ALBERTA
 DRAWING NUMBER

BOREHOLE NUMBER
 KPM13-1
 PAGE 4 OF 4

BOREHOLE LOG AND LABORATORY TEST RESULTS

1980 INVESTIGATION - KAGULUIK P-74
DOME PETROLEUM LTD

EBA # 101-2941
N7829675 E430869 Z9

DEPTH (m)	SAMPLE		SOIL DESCRIPTION	GROUND ICE DESCRIPTION	TEMP C	Bulk Density Mg/m ³ ▲			SPECIAL TESTS	UNIT	DEPTH (ft)
	TYP	NO. Q				PLASTIC LIMIT	WATER CONTENT (%)	LIQUID LIMIT			
0		2A	SAND (SC) - silty, some clay, trace organics and shell fragments, moist, very dark grey	UNFROZEN							0
1		3B									1
		4B									2
2		5B									3
		6B									4
3		7A									5
		7C									6
4		8A									7
		9B									8
		9D									9
5		9G									10
		10A	SILT (ml) - sandy, some clay, mottled, moist, very dark greyish brown								11
		10C									12
6		11C									13
		12A									14
		12B									15
7		13A									16
		13C									17
8		14B									18
		15A									19
		15C									20
9		16B	SAND (SM) - some silt, trace to some clay, fine grained, moist, dark greyish brown								21
		17A									22
		17C									23
10		18B									24
		19C									25
11		20C									26
		21C									27
12											28
13											29
14											30
15											31

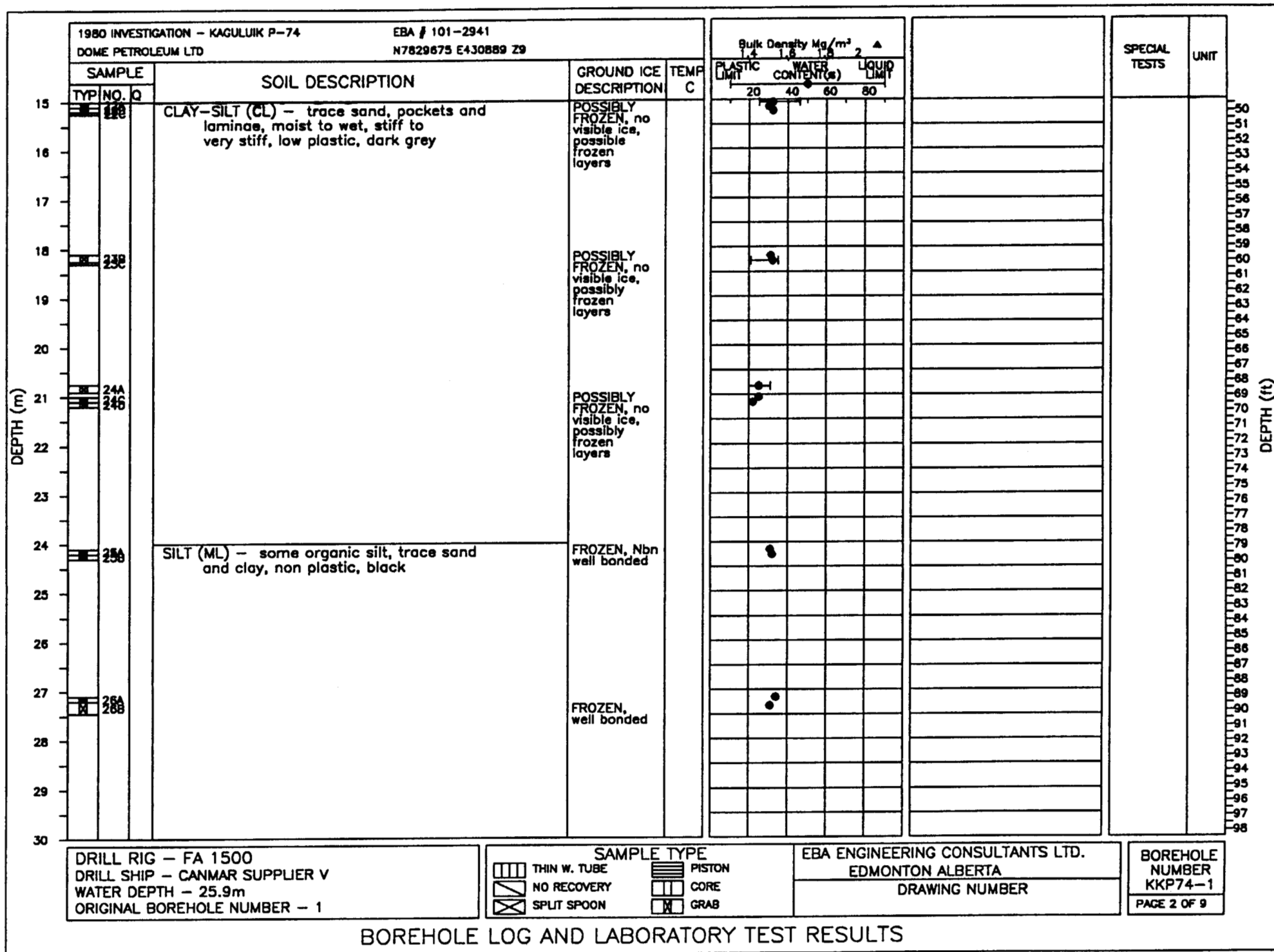
DRILL RIG - FA 1500
DRILL SHIP - CANMAR SUPPLIER V
WATER DEPTH - 25.9m
ORIGINAL BOREHOLE NUMBER - 1

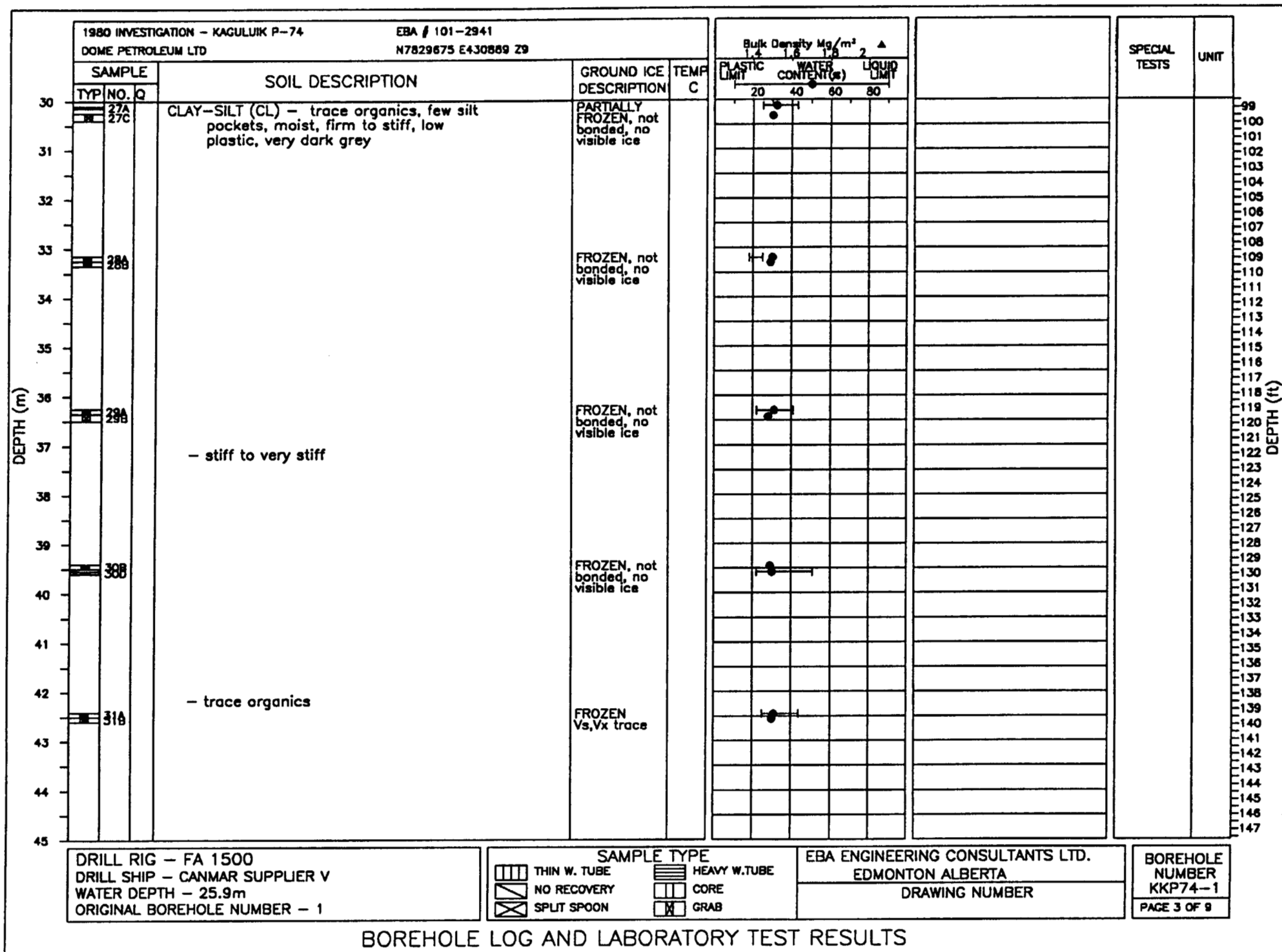
SAMPLE TYPE
THIN W. TUBE
NO RECOVERY
SPLIT SPOON
PISTON
CORE
GRAB

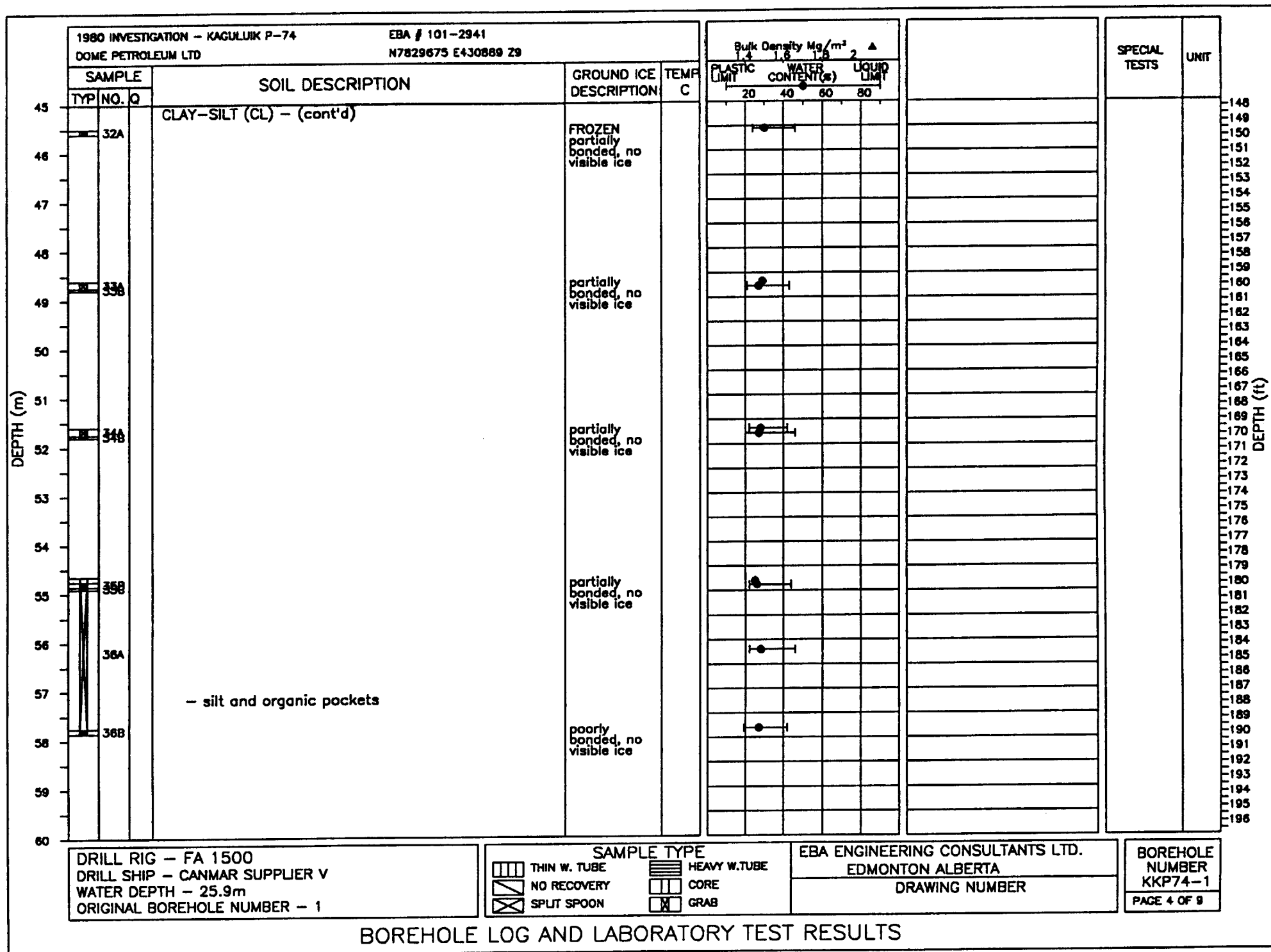
EBA ENGINEERING CONSULTANTS LTD.
EDMONTON ALBERTA
DRAWING NUMBER

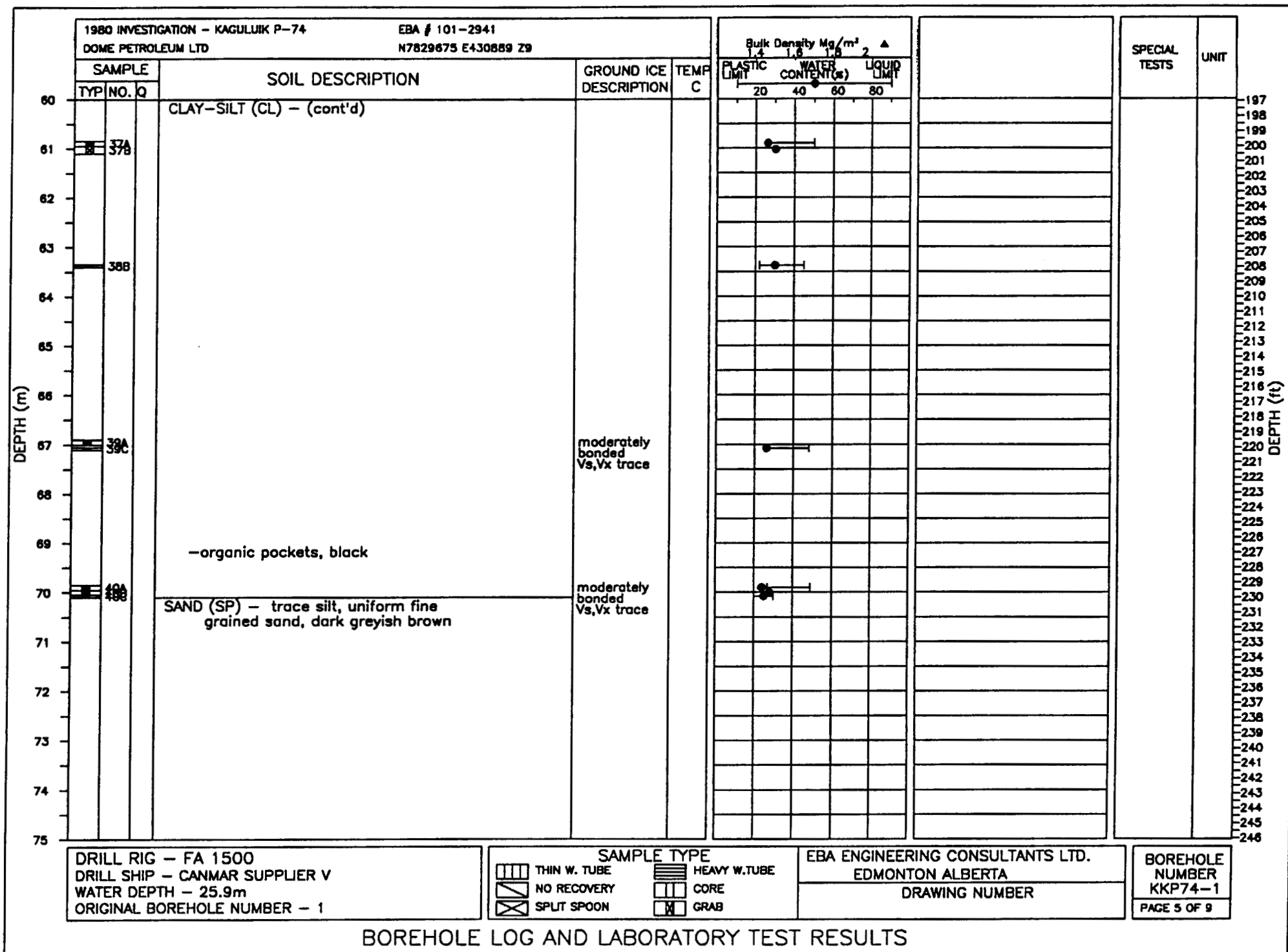
BOREHOLE NUMBER
KKP74-1
PAGE 1 OF 9

BOREHOLE LOG AND LABORATORY TEST RESULTS









1980 INVESTIGATION - KAGULUIK P-74 DOME PETROLEUM LTD				EBA # 101-2941 N7829675 E430889 Z9		Bulk Density Mg/m ³ ▲ 1.4 1.6 1.8 2.0				SPECIAL TESTS	UNIT
SAMPLE		SOIL DESCRIPTION	GROUND ICE DESCRIPTION	TEMP C	PLASTIC LIMIT	WATER CONTENT (%)	LIQUID LIMIT				
TYP	NO. Q										
75		SAND (SP) - (cont'd)									247
76	41A		FROZEN well bonded								248
77											249
78											250
79	42B	- trace silt (SP-SM)	Nbe								251
80											252
81											253
82	43A	- some silt and clay (SM/SC)	Nbn								254
83											255
84											256
85											257
86											258
87											259
88	45A		Nbn								260
89											261
90											262
											263
											264
											265
											266
											267
											268
											269
											270
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											293
											294
											295

DRILL RIG - FA 1500
 DRILL SHIP - CANMAR SUPPLIER V
 WATER DEPTH - 25.9m
 ORIGINAL BOREHOLE NUMBER - 1

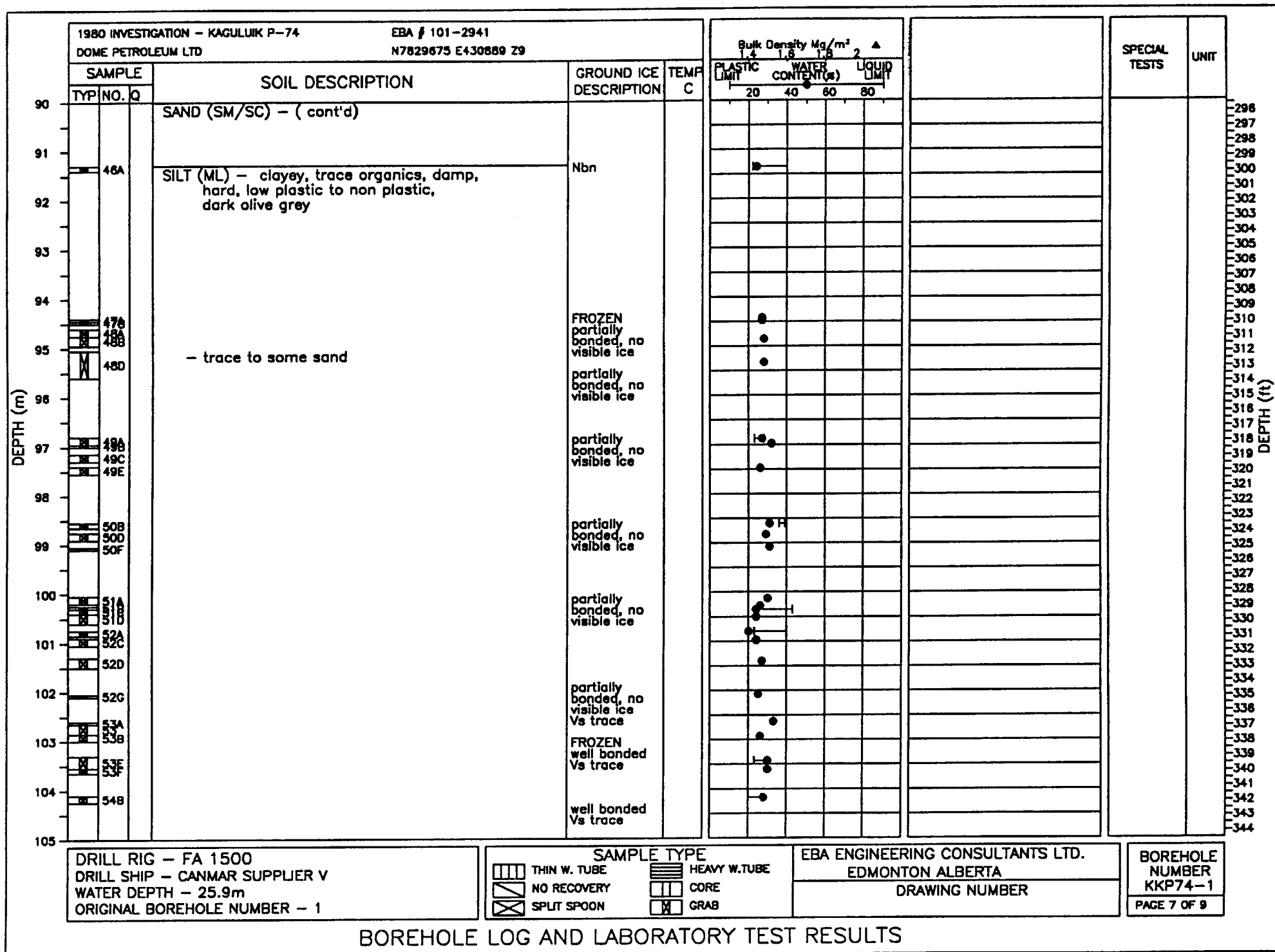
SAMPLE TYPE

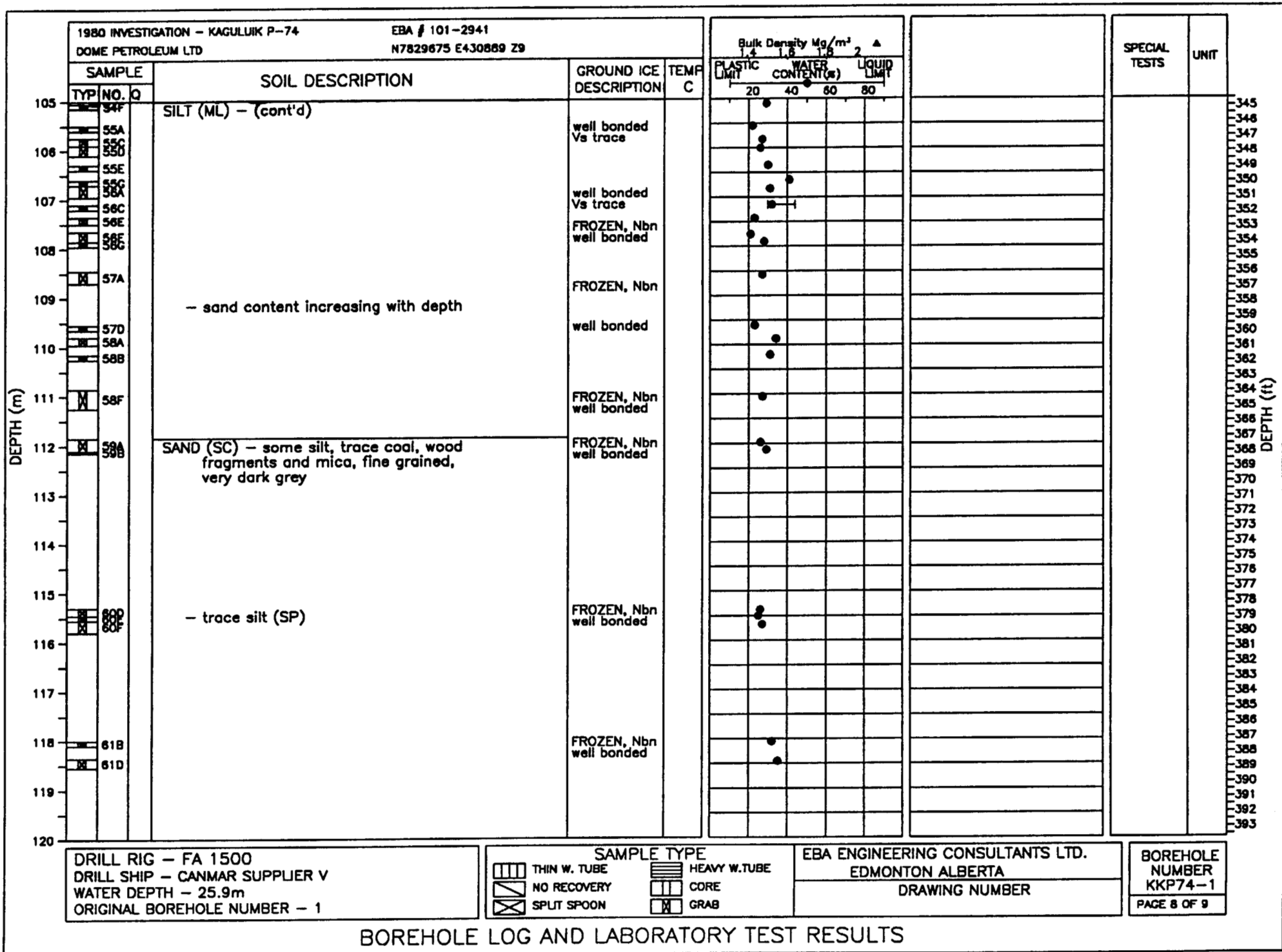
THIN W. TUBE	HEAVY W. TUBE
NO RECOVERY	CORE
SPLIT SPOON	GRAB

EBA ENGINEERING CONSULTANTS LTD.
 EDMONTON ALBERTA
 DRAWING NUMBER

BOREHOLE NUMBER
 KKP74-1
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BOREHOLE LOG AND LABORATORY TEST RESULTS





1980 INVESTIGATION - KAGULUIK P-74 DOME PETROLEUM LTD				EBA # 101-2941 N7829675 E430889 Z9		Bulk Density Mg/m ³ ▲ 1.4 1.6 1.8 2		SPECIAL TESTS	UNIT	DEPTH (ft)
SAMPLE		SOIL DESCRIPTION	GROUND ICE DESCRIPTION	TEMP C	PLASTIC LIMIT	WATER CONTENT (%)	LIQUID LIMIT			
TYP	NO. Q									
120										394
	62A	SAND (SP-SM) - (cont'd)								395
121										396
	62D									397
	62E									398
	62F									399
122		END OF BOREHOLE at 121.9m	FROZEN, Nbn well bonded							400
123										401
124										402
125										403
126										404
127										405
128										406
129										407
130										408
131										409
132										410
133										411
134										412
135										413
										414
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										425
										426
										427
										428
										429
										430
										431
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										438
										439
										440
										441
										442

DRILL RIG - FA 1500
 DRILL SHIP - CANMAR SUPPLIER V
 WATER DEPTH - 25.9m
 ORIGINAL BOREHOLE NUMBER - 1

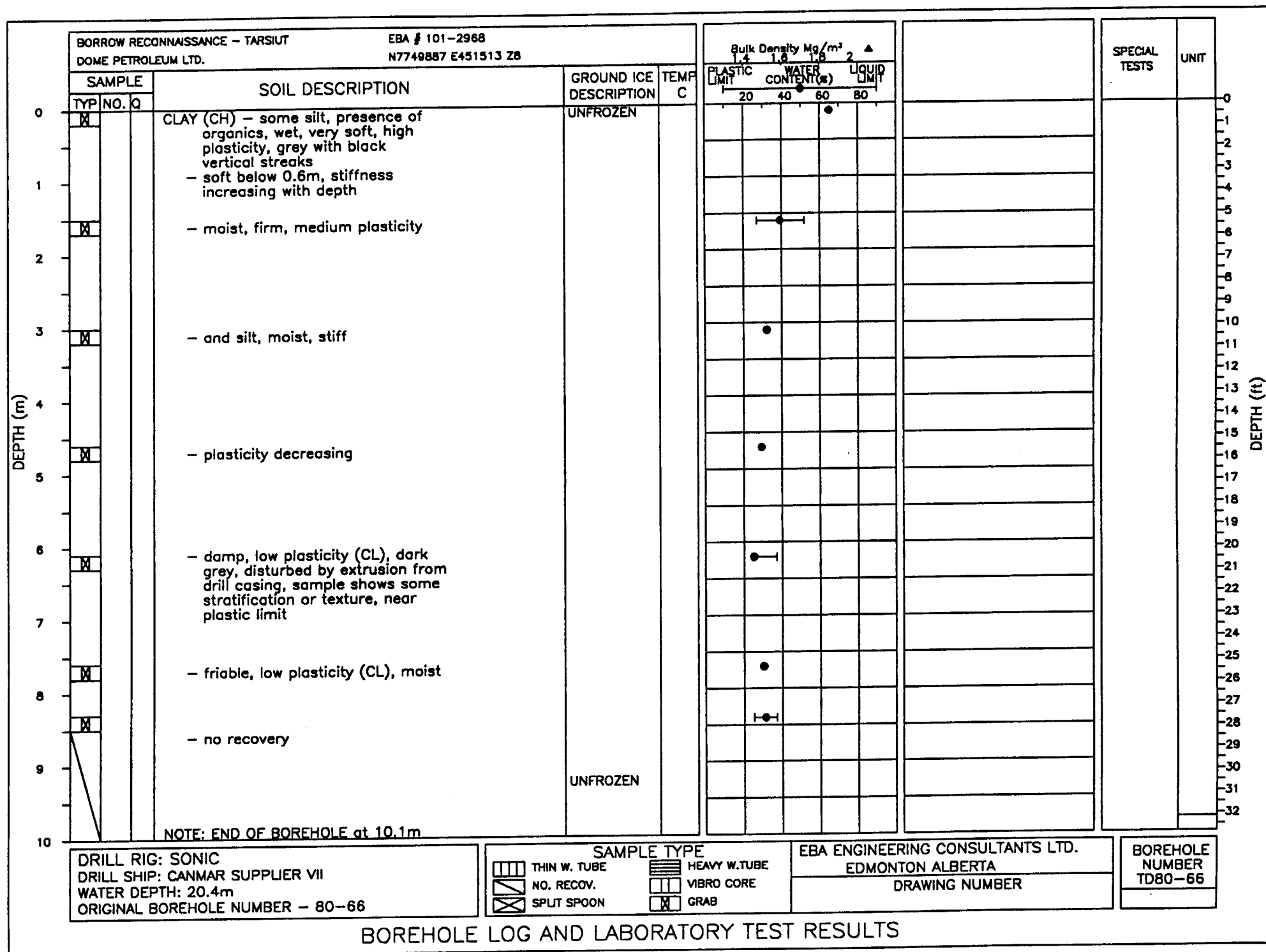
SAMPLE TYPE

THIN W. TUBE	HEAVY W. TUBE
NO RECOVERY	CORE
SPLIT SPOON	GRAB

EBA ENGINEERING CONSULTANTS LTD.
 EDMONTON ALBERTA
 DRAWING NUMBER

BOREHOLE NUMBER
 KKP74-1
 PAGE 9 OF 9

BOREHOLE LOG AND LABORATORY TEST RESULTS



BORROW RECONNAISSANCE - TARSUUT				EBA # 101-2968											
DOME PETROLEUM LTD.				N7745701 E455037 Z8											
SAMPLE			SOIL DESCRIPTION	GROUND ICE DESCRIPTION	TEMP C	Bulk Density Mg/m ³ ▲			SPECIAL TESTS	UNIT					
TYP	NO.	Q				PLASTIC LIMIT	WATER CONTENT (%)	LIQUID LIMIT							
0			CLAY (CH) - trace of some silt, wet, very soft, grey, high plasticity	UNFROZEN							0				
											1				
											2				
											3				
											4				
1			- and silt, moist, firm, medium plasticity								5				
											6				
											7				
2			- moist, stiff								8				
											9				
											10				
3			- damp, very stiff, few local silt lenses								11				
											12				
											13				
											14				
4			- moist, very stiff								15				
											16				
											17				
											18				
											19				
6											20				
											21				
											22				
											23				
7											24				
											25				
											26				
8											27				
											28				
											29				
9			- moist (CL), very stiff								30				
											31				
											32				
10			SILT (ML) - some clay, damp, crumbled when extracted from drill casing, friable or blocky												

DRILL RIG: SONIC
 DRILL SHIP: CANMAR SUPPLIER VII
 WATER DEPTH: 16.5m
 ORIGINAL BOREHOLE NUMBER - 80-67

SAMPLE TYPE
☐ THIN W. TUBE ☐ HEAVY W.TUBE
☐ NO. RECOV. ☐ VIBRO CORE
☐ SPLIT SPOON ☐ GRAB

EBA ENGINEERING CONSULTANTS LTD.
 EDMONTON ALBERTA
 DRAWING NUMBER

BOREHOLE NUMBER
 TD80-67
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BOREHOLE LOG AND LABORATORY TEST RESULTS

BORROW RECONNAISSANCE - TARSUUT DOME PETROLEUM LTD.					EBA # 101-2968 N7745701 E455037 ZB						SPECIAL TESTS	UNIT	DEPTH (ft)	
SAMPLE			SOIL DESCRIPTION	GROUND ICE DESCRIPTION	TEMP C	Bulk Density Mg/m ³ ▲								
TYP	NO.	Q				PLASTIC LIMIT	WATER CONTENT (%)	LIQUID LIMIT	1.4	1.6				1.8
			SILT (ML) - (cont'd)											33
														34
														35
				UNFROZEN										36
			END OF BOREHOLE at 11.0m											37
														38
														39
														40
														41
														42
														43
														44
														45
														46
														47
														48
														49
														50
														51
														52
														53
														54
														55
														56
														57
														58
														59
														60
														61
														62
														63
														64
														65

DRILL RIG: SONIC
 DRILL SHIP: CANMAR SUPPLIER VII
 WATER DEPTH: 16.5m
 ORIGINAL BOREHOLE NUMBER - 80-67

SAMPLE TYPE

THIN W. TUBE	HEAVY W. TUBE
NO. RECOV.	VIBRO CORE
SPLIT SPOON	GRAB

EBA ENGINEERING CONSULTANTS LTD.
 EDMONTON ALBERTA
 DRAWING NUMBER

BOREHOLE NUMBER
 TD80-67
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BOREHOLE LOG AND LABORATORY TEST RESULTS

BORROW RECONNAISSANCE - TARSUUT				EBA # 101-2968												
DOME PETROLEUM LTD.				N7744090 E451162 Z8												
SAMPLE		SOIL DESCRIPTION		GROUND ICE DESCRIPTION		TEMP C		Bulk Density Mg/m^3 ▲								
TYP	NO. Q							PLASTIC LIMIT WATER CONTENT (%) LIQUID LIMIT								
								20 40 60 80								
0				CLAY (CL) - trace to some silt, presence of organics, wet, very soft, grey, medium to low plasticity, top 0.3m has blocky structure	UNFROZEN											0
																1
																2
																3
																4
																5
				- silty, moist, very stiff												6
																7
				- 150mm layer of very soft and wet silt and clay, moist and stiff below 3.4m												8
																9
																10
				- very stiff (CH)												11
																12
				- 10mm ice lens	ice lenses											13
																14
				- 5mm ice lens												15
																16
				- 20mm ice lens												17
				- frequent ice lenses 5mm thick down to 7.6m												18
																19
																20
																21
																22
																23
																24
				- and silt, very stiff	ice lenses UNFROZEN											25
																26
																27
																28
				- damp to dry (CL), disturbed by coring												29
																30
																31
					UNFROZEN											32

DRILL RIG: SONIC
 DRILL SHIP: CANMAR SUPPLIER VII
 WATER DEPTH: 16.5m
 ORIGINAL BOREHOLE NUMBER - 80-68

SAMPLE TYPE

THIN W. TUBE	HEAVY W. TUBE
NO. RECOV.	VIBRO CORE
SPLIT SPOON	GRAB

EBA ENGINEERING CONSULTANTS LTD.
 EDMONTON ALBERTA
 DRAWING NUMBER

BOREHOLE NUMBER
 TD80-68
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BOREHOLE LOG AND LABORATORY TEST RESULTS

BORROW RECONNAISSANCE - TARSUUT DOME PETROLEUM LTD.					EBA # 101-2968 N7744090 E451182 Z8							
SAMPLE TYP NO. Q			SOIL DESCRIPTION			GROUND ICE DESCRIPTION		TEMP C				
DEPTH (m) 10 11 12 13 14 15 16 17 18 19 20	CLAY (CL) - (cont'd)										SPECIAL TESTS	UNIT
	END OF BOREHOLE at 10.4m											

DRILL RIG: SONIC
 DRILL SHIP: CANMAR SUPPLIER VII
 WATER DEPTH: 16.5m
 ORIGINAL BOREHOLE NUMBER - 80-68

SAMPLE TYPE

☐ THIN W. TUBE	☐ HEAVY W. TUBE
☐ NO. RECOV.	☐ VIBRO CORE
☐ SPLIT SPOON	☐ GRAB

EBA ENGINEERING CONSULTANTS LTD.
 EDMONTON ALBERTA
 DRAWING NUMBER

BOREHOLE NUMBER
 TD80-68
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BOREHOLE LOG AND LABORATORY TEST RESULTS

BORROW RECONNAISSANCE - TARSUUT DOME PETROLEUM LTD.			EBA # 101-2968 N7737474 E463839 Z8		Bulk Density Mg/m ³ ▲ 1.4 1.6 1.8 2				SPECIAL TESTS	UNIT
DEPTH (m)	SAMPLE	SOIL DESCRIPTION	GROUND ICE DESCRIPTION	TEMP C	PLASTIC LIMIT	WATER CONTENT (%)	LIQUID LIMIT			
	TYP NO. Q									
0		SAND (SP-SM) - gravelly coarse to medium grained, angular particles, saturated, dark brownish black (carbonate particles)	UNFROZEN							0
1		- trace of gravel and silt, very rounded, medium to fine grained, uniform, moist								1
2		- predominantly fine grained, trace of coarse grained rounded particles								2
3		- pockets of clay and silt, trace of gravel, fine grained, homogeneous, saturated, dark grey								3
4		CLAY (cl) and SILT (ml) - trace of organics, stiff, homogeneous, damp, dark grey								4
5		- trace of gravel, subrounded								5
6		SAND (SM) - and gravel, some silt and clay, subangular to subrounded smooth particles, moist, grey								6
7		CLAY (cl) and SILT (ml) - trace of sand (pebbles to 5mm), occasional shell fragments, stiff, homogeneous, damp, black								7
8		- low plastic - laminated - occasional sand particles, subangular to subrounded - laminated								8
9		- trace of mica flakes along laminations occasional pebble to 10mm, rounded and smooth, low plastic - traces of shell fragments - pebbles to 7mm	FROZEN, vertical ice lenses present but clay not bonded V _x +V _r 3%							9
10		END OF BOREHOLE at 9.1m	FROZEN V _x +V _r 3%							10

DRILL RIG: FA 1500
 DRILL SHIP: CANMAR SUPPLIER V
 WATER DEPTH: 8.2m
 ORIGINAL BOREHOLE NUMBER - 80-70

SAMPLE TYPE
 THIN W. TUBE
 NO. RECOV.
 SPLIT SPOON
 HEAVY W. TUBE
 CORE
 GRAB

EBA ENGINEERING CONSULTANTS LTD.
 EDMONTON ALBERTA
 DRAWING NUMBER

BOREHOLE NUMBER
 TD80-70

BOREHOLE LOG AND LABORATORY TEST RESULTS

BORROW RECONNAISSANCE - TARSUUT DOME PETROLEUM LTD.				EBA # 101-2968 N7725663 E465561 Z8		Bulk Density Mg/m ³ ▲ 1.4 1.6 1.8 2					SPECIAL TESTS	UNIT		
SAMPLE		SOIL DESCRIPTION	GROUND ICE DESCRIPTION	TEMP C	WATER CONTENT (%)									
TYP	NO. Q				PLASTIC LIMIT	20	40	60	80				LIQUID LIMIT	
0		CLAY (CL) and SILT (ML) - trace shell fragments, trace organics, damp to moist, firm, dark grey - trace of mica, faintly laminated, low plastic - cross-laminated (10YR 4/1) - interlaminated with black organics, low plastic, dark grey	UNFROZEN									0		
														1
														2
														3
														4
														5
														6
														7
														8
														9
1												10		
2												11		
3												12		
4												13		
5												14		
6												15		
7												16		
8												17		
9												18		
10												19		
												20		
												21		
												22		
												23		
												24		
												25		
												26		
												27		
												28		
												29		
												30		
												31		
												32		

DRILL RIG: FA 1500
 DRILL SHIP: CANMAR SUPPLIER V
 WATER DEPTH: 6.7m
 ORIGINAL BOREHOLE NUMBER - 80-71

SAMPLE TYPE	
THIN W. TUBE	HEAVY W. TUBE
NO. RECOV.	VIBRO CORE
SPLIT SPOON	GRAB

EBA ENGINEERING CONSULTANTS LTD.
 EDMONTON ALBERTA
 DRAWING NUMBER

BOREHOLE NUMBER
 TD80-71

BOREHOLE LOG AND LABORATORY TEST RESULTS

BORROW RECONNAISSANCE - TARSUUT DOME PETROLEUM LTD.				EBA # 101-2968 N7733860 E467918 Z8											
SAMPLE TYP NO. Q		SOIL DESCRIPTION		GROUND ICE DESCRIPTION		TEMP C		Bulk Density Mg/m³ ▲ 1.4 1.6 1.8 2 PLASTIC LIMIT 20 40 60 80				SPECIAL TESTS		UNIT	
0		CLAY (CL) and silt - medium to low plastic, very soft, saturated, dark grey (5Y 3/1)		UNFROZEN		40						0			
1		- trace shell fragments, occasional organic streaks and pockets				45						1			
2		- occasional sand lens to 5mm, medium to fine grained, wet, grey				50						2			
3		- thin horizontal laminations, soft to firm, moist to wet										3			
4		- firm to stiff										4			
5		- occasional organic streaks and pockets										5			
6		- firm										6			
7		- soft to firm										7			
8		- trace of fine grained sand (lens), stiff										8			
9		- wet, soft										9			
10		- trace of very fine grained sand, wood and shell fragments, very soft										10			
11		- trace of wood fragments and organics										11			
12		- soft, occasional thin peat lenses to 2mm, more silt										12			
13		SILT (ml) - sandy, trace clay and organics, very soft, wet, thin peat lenses										13			
14		SAND (sm) - silty, trace organics, fine grained, occasional laminations of sand, uniform, wet		trace of ice bonded lumps								14			
15		NOTE: END OF BOREHOLE at 10.0m										15			
16												16			
17												17			
18												18			
19												19			
20												20			
21												21			
22												22			
23												23			
24												24			
25												25			
26												26			
27												27			
28												28			
29												29			
30												30			
31												31			
32												32			

DRILL RIG: FA 1500
 DRILL SHIP: CANMAR SUPPLIER V
 WATER DEPTH: 7.2m
 ORIGINAL BOREHOLE NUMBER - 80-72

SAMPLE TYPE

THIN W. TUBE	HEAVY W. TUBE
NO. RECOV.	VIBRO CORE
SPLIT SPOON	GRAB

EBA ENGINEERING CONSULTANTS LTD.
 EDMONTON ALBERTA
 DRAWING NUMBER

BOREHOLE NUMBER
 TD80-72

BOREHOLE LOG AND LABORATORY TEST RESULTS

BORROW RECONNAISSANCE - TARSUUT DOME PETROLEUM LTD.				EBA # 101-2968 N7737648 E463949 Z8														
SAMPLE			SOIL DESCRIPTION		GROUND ICE DESCRIPTION	TEMP C	Bulk Density Mg/m ³ ▲ 1.4 1.6 1.8 2				PLASTIC LIMIT 20 40 60 80		WATER CONTENT (%) 20 40 60 80		LIQUID LIMIT		SPECIAL TESTS	UNIT
TYP NO. Q																		
DEPTH (m)	0			SAND (SP) - gravelly, maximum 20mm subangular to subrounded, coarse to medium grained, saturated														
	1			- maximum 25mm, coarse to fine grained, well graded, subangular, saturated - gravel decreasing														
	2			- some gravel, trace silt (SP-SM), maximum 20mm, medium to fine grained, predominantly fine grained, subangular, smooth, saturated - no recovery														
	3			CLAY (CL) - and silt, trace fine grained sand, low to medium plastic, firm, moist, grey, lens of silt, clayey, some sand - no recovery	UNFROZEN													
	4																	
	5			- gravelly (CL), (maximum 25mm, rounded and smooth), trace organics, very stiff, moist, very dark grey (5Y 3/1)														
	6			- trace small pebbles - horizontal laminations, moist, very dark grey (5Y 3/1) low plastic														
	7			- trace of gravel, horizontal faint laminations, stiff to very stiff, low plastic, moist, very dark grey (5Y 3/1)														
	8				UNFROZEN													
	9				FROZEN Vs trace													
10			END OF BOREHOLE at 9.1m															

DRILL RIG: FA 1500
 DRILL SHIP: CANMAR SUPPLIER V
 WATER DEPTH: 8.2m
 ORIGINAL BOREHOLE NUMBER - 80-73

SAMPLE TYPE

THIN W. TUBE	HEAVY W. TUBE
NO. RECOV.	VIBRO CORE
SPLIT SPOON	GRAB

EBA ENGINEERING CONSULTANTS LTD.
 EDMONTON ALBERTA
 DRAWING NUMBER

BOREHOLE NUMBER
 TD80-73

BOREHOLE LOG AND LABORATORY TEST RESULTS

BORROW RECONNAISSANCE - TARSUUT				EBA # 101-2968													
DOME PETROLEUM LTD.				N7738000 E465000 Z8													
SAMPLE			SOIL DESCRIPTION			GROUND ICE DESCRIPTION		TEMP C		Bulk Density Mg/m ³ ▲				SPECIAL TESTS		UNIT	
TYP NO. Q										PLASTIC LIMIT 1.4 1.6 1.8 2 WATER CONTENT (%) 20 40 60 80 LIQUID LIMIT							
0			GRAVEL (GP) - some sand, maximum 25mm coarse to medium grained, subrounded to subangular, smooth, saturated; particles to to 40mm dia. below 0.6m, angular			UNFROZEN											
1			NO RECOVERY														
2			CLAY (CL) and SILT (ML) - some organics, horizontal laminations, moist, black														
3			- low plasticity (CL) some organic streaks, moist, very stiff, very dark grey (5Y 3/1)														
4			- trace fine grained sand, low plasticity, few organic pockets, horizontal laminations, moist, very dark grey														
5			- traces wood and shell fragments														
6			- increasing plastic (ML), some organic streaks and pockets, medium plasticity laminated, firm, moist to wet														
7			- black organic streaks parallel to laminated dark grey (5Y 3/1)														
8			- becoming lighter grey														
9			- organics, pebbles to 20mm, rounded and smooth, dark grey														
10			- pebbles to 15mm (CL), rounded, organic pockets to 7mm, firm, moist, dark grey			UNFROZEN											
			- stiff, moist, pebbles to 5mm														
			- no recovery			FROZEN trace Vr 3% clay not bonded											
			END OF BOREHOLE at 9.7m														

DRILL RIG: FA 1500
 DRILL SHIP: CANMAR SUPPLIER V
 WATER DEPTH: 7.6M
 ORIGINAL BOREHOLE NUMBER - 80-74

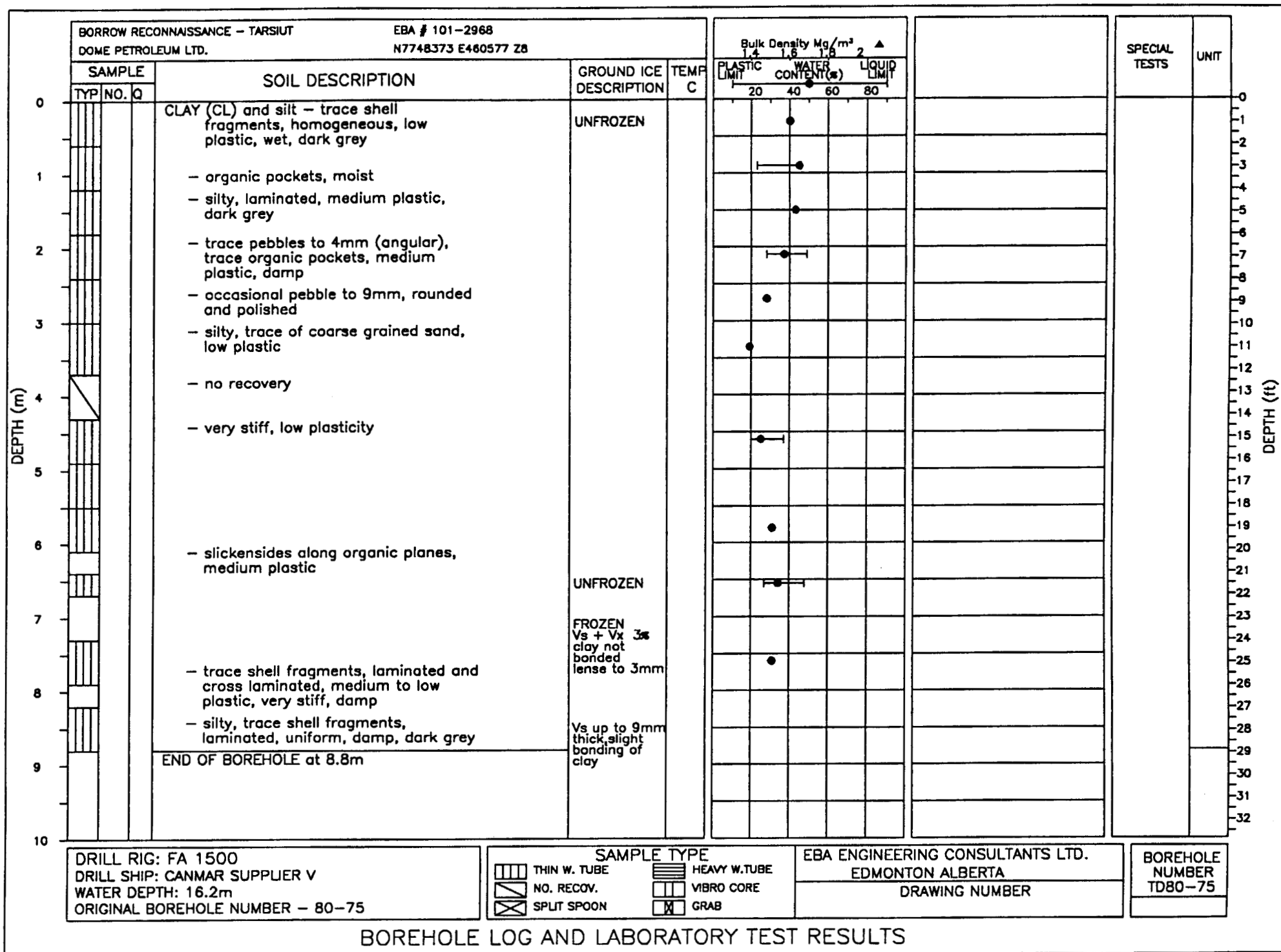
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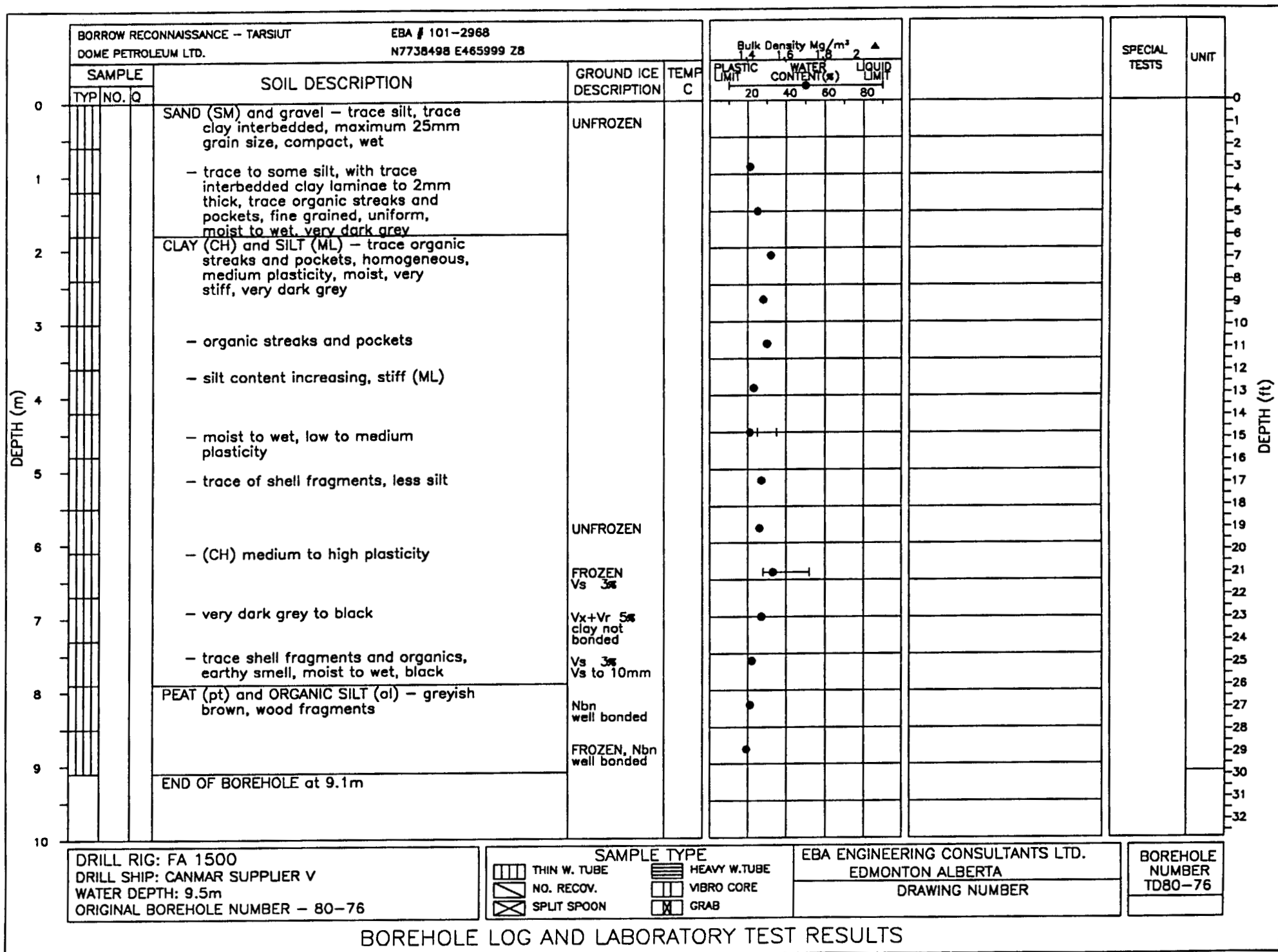
THIN W. TUBE	HEAVY W. TUBE
NO. RECOV.	VIBRO CORE
SPLIT SPOON	GRAB

EBA ENGINEERING CONSULTANTS LTD.
 EDMONTON ALBERTA
 DRAWING NUMBER

BOREHOLE NUMBER
 TD80-74

BOREHOLE LOG AND LABORATORY TEST RESULTS





BORROW RECONNAISSANCE - TARSUUT				EBA # 101-2968													
DOME PETROLEUM LTD.				N7756614 E468383 Z8													
SAMPLE		SOIL DESCRIPTION		GROUND ICE DESCRIPTION		TEMP C		Bulk Density Mg/m ³ ▲				SPECIAL TESTS		UNIT			
TYP	NO. Q							PLASTIC LIMIT	WATER CONTENT (%)	LIQUID LIMIT							
								20	40	60	80						
0		CLAY (cl) - silty, homogeneous, medium plastic, firm, saturated, dark grey		UNFROZEN												0	
1		- some silt														1	
2		- some silt, trace of organic streaks, homogeneous, medium plastic wet, firm, dark grey														2	
3		- no recovery														3	
4		- stiff														4	
5																5	
6		- no recovery														6	
7		- very stiff														7	
8		- some silt, trace of organic streaks and pockets, medium plastic, stiff, moist to wet, dark grey		UNFROZEN												8	
9		END OF BOREHOLE at 8.8m														9	
10																10	

DRILL RIG: FA 1500
 DRILL SHIP: CANMAR SUPPLIER V
 WATER DEPTH: 22.6m
 ORIGINAL BOREHOLE NUMBER - 80-77

SAMPLE TYPE

THIN W. TUBE	HEAVY W. TUBE
NO. RECOV.	VIBRO CORE
SPLIT SPOON	GRAB

EBA ENGINEERING CONSULTANTS LTD.
 EDMONTON ALBERTA
 DRAWING NUMBER

BOREHOLE NUMBER
 TD80-77

BOREHOLE LOG AND LABORATORY TEST RESULTS

BORROW RECONNAISSANCE - TARSUUT DOME PETROLEUM LTD.				EBA # 101-2968 N7737248 E465999 Z8											
SAMPLE			SOIL DESCRIPTION		GROUND ICE DESCRIPTION	TEMP C	Bulk Density Mg/m ³ ▲ 1.4 1.6 1.8 2				PLASTIC LIMIT	WATER CONTENT (%)	LIQUID LIMIT	SPECIAL TESTS	UNIT
TYP INO. Q															
DEPTH (m)	0			SAND (SP-SM) - trace silt and gravel (maximum 20mm) coarse to fine grained, subrounded to subangular, smooth, compact, wet, grey	UNFROZEN										
	1														
	2			CLAY (CL) - and silt, trace organic streaks and pockets, homogeneous, low plasticity, stiff, moist, dark grey											
	3			- very stiff											
	4			- silty, trace organic streaks and pockets, low plastic, moist, very stiff, very dark grey											
	5			SILT (ml) - clayey, trace organic streaks, homogeneous, low plastic, moist to wet, stiff, very dark grey											
	6			CLAY (CL) - and silt, trace organic streaks and pockets, low plasticity, homogeneous, moist to wet, stiff, very dark grey											
	7														
	8			- trace fine grained sand, low plastic, homogeneous, moist to wet, very dark grey											
	9			- gravelly, trace to some fine grained sand with interbedded organics (2mm lenses) maximum grain size to 20mm, smooth, angular	UNFROZEN										
10			END OF BOREHOLE at 8.8m												

DRILL RIG: FA 1500
 DRILL SHIP: CANMAR SUPPLIER V
 WATER DEPTH: 9.1m
 ORIGINAL BOREHOLE NUMBER - 80-78

SAMPLE TYPE

THIN W. TUBE	HEAVY W. TUBE
NO. RECOV.	VIBRO CORE
SPLIT SPOON	GRAB

EBA ENGINEERING CONSULTANTS LTD.
 EDMONTON ALBERTA
 DRAWING NUMBER

BOREHOLE NUMBER
 TD80-78

BOREHOLE LOG AND LABORATORY TEST RESULTS

BORROW RECONNAISSANCE - TARSUUT				EBA # 101-2968											
DOME PETROLEUM LTD.				N7737250 E464999 Z8											
SAMPLE			SOIL DESCRIPTION	GROUND ICE DESCRIPTION	TEMP C	Bulk Density Mg/m ³ ▲				SPECIAL TESTS	UNIT				
TYP	NO.	Q				PLASTIC LIMIT	WATER CONTENT (%)	LIQUID LIMIT							
0			SAND (SP) - and gravel, medium grained, clean, rounded and smooth particles	UNFROZEN											
1			- gravel to 60mm, rounded and rough												
			- gravelly, trace silt, rounded and smoothed medium grained, trace coarse grained, homogeneous, compact, moist												
2			CLAY (CL) - and silt, occasional organic pockets, laminated, stiff, damp, dark grey, trace medium grained sand and gravel in lenses												
			- low plasticity, hard												
3			- sandy, trace gravel particles, horizontally oriented, subrounded to subangular												
			- flat pebble to 100mm												
4			- trace coal chips, trace coarse grained sand and gravel laminated, medium to low plastic, hard, damp												
			- less sand and gravel												
5			- trace sand, no gravel, laminated, medium plastic, very stiff, damp												
			- trace of organic pockets												
6															
7															
			- trace sand, medium plasticity, laminated, very stiff, damp, dark grey												
8															
				UNFROZEN											
9			END OF BOREHOLE at 9.1m												
10															

DRILL RIG: FA 1500
 DRILL SHIP: CANMAR SUPPLIER V
 WATER DEPTH: 8.5m
 ORIGINAL BOREHOLE NUMBER - 80-79

SAMPLE TYPE

THIN W. TUBE	HEAVY W. TUBE
NO. RECOV.	VIBRO CORE
SPLIT SPOON	GRAB

EBA ENGINEERING CONSULTANTS LTD.
 EDMONTON ALBERTA
 DRAWING NUMBER

BOREHOLE NUMBER
 TD80-79

BOREHOLE LOG AND LABORATORY TEST RESULTS

BORROW RECONNAISSANCE - TARSUUT
DOME PETROLEUM LTD.

EBA # 101-2968
N7736750 E463999 Z8

DEPTH (m)	SAMPLE		SOIL DESCRIPTION	GROUND ICE DESCRIPTION	TEMP C	Bulk Density Mg/m ³ ▲				SPECIAL TESTS	UNIT	DEPTH (ft)
	TYP	NO. Q				PLASTIC LIMIT	WATER CONTENT (%)	LIQUID LIMIT				
0			SAND (SP) - medium to coarse grained, clean, rounded and smoothed particles, wet, loose, brownish	UNFROZEN								0
1			CLAY (CH) - silty, medium plastic, stiff to firm, moist, grey									1
2			- some organics, some silt, laminated, high plastic, stiff, moist, black									2
3			- traces of peat lenses (brown and spongy) medium to high plastic, stiff to firm									3
4			- trace organics, trace coarse grained sand pebbles to 40mm, subangular and rough, laminated, uniform, damp, light grey, low plastic (CL)									4
5			- very stiff, dark grey									5
6												6
7			- trace of coarse grained sand, subangular to subrounded, very stiff, damp, dark grey	FROZEN Yr+Vs 5% (clay not bonded)								7
8			- silty, trace coarse grained sand, rounded and smooth, very stiff, damp, dark grey low plastic (CL)	Yr+Vs 5% (clay not bonded)								8
9			- homogeneous, damp, dark grey/black	FROZEN								9
10			END OF BOREHOLE at 9.1m									10

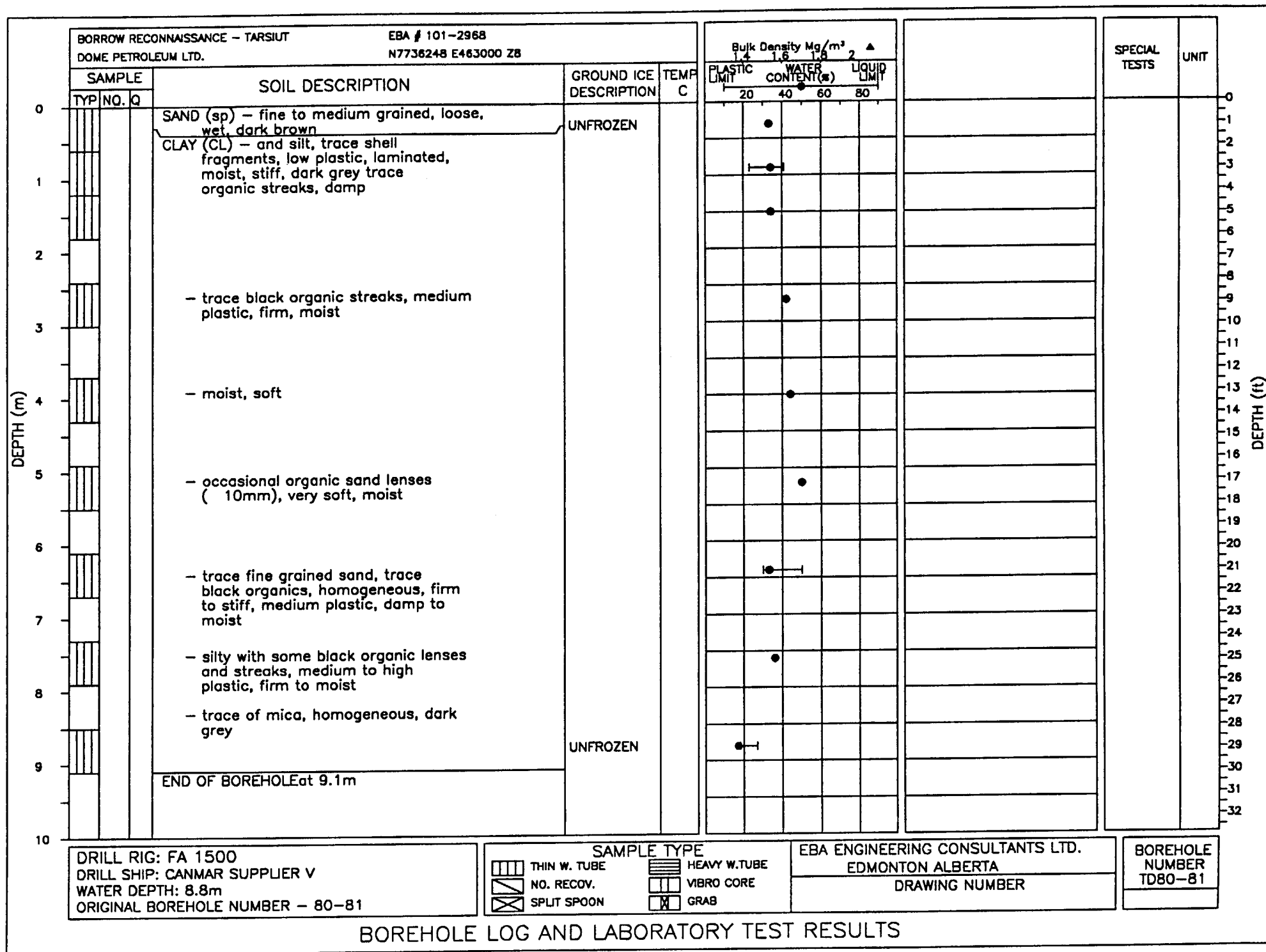
DRILL RIG: FA 1500
DRILL SHIP: CANMAR SUPPLIER V
WATER DEPTH: 9.1m
ORIGINAL BOREHOLE NUMBER - 80-80

SAMPLE TYPE
 THIN W. TUBE
 NO. RECOV.
 SPLIT SPOON
 HEAVY W. TUBE
 VIBRO CORE
 GRAB

EBA ENGINEERING CONSULTANTS LTD.
EDMONTON ALBERTA
DRAWING NUMBER

BOREHOLE NUMBER
TD80-80

BOREHOLE LOG AND LABORATORY TEST RESULTS



BORROW RECONNAISSANCE - TARSUUT				EBA / 101-2968															
DOME PETROLEUM LTD.				N7736749 E462001 Z8															
SAMPLE		SOIL DESCRIPTION				GROUND ICE DESCRIPTION		TEMP C		Bulk Density Mg/m³ ▲ 1.4 1.6 1.8 2 PLASTIC LIMIT WATER CONTENT(%) LIQUID LIMIT 20 40 60 80						SPECIAL TESTS		UNIT	
TYPE NO. Q																			
0		SAND (sp) and GRAVEL (gp) - angular and polished, clean, loose, wet				UNFROZEN												0	
1		- clay lens, some silt, trace shell fragments, low plastic, soft																1	
2		CLAY (cl) - and silt, trace shell fragments, trace organics, medium plastic, moist, soft																2	
3		- sand lens medium grained to fine grained with occasional angular and smooth coarse grained sand, micaceous																3	
4		- some organics, some silt, laminated, high plastic, firm, dark grey																4	
5		- some organics and some silt interlaminated, medium to low plastic, damp, stiff, dark grey																5	
6		- trace of interlaminated sand, with some organics and silt, fine grained and micaceous, lenses undulate, stiff to very stiff																6	
7		- some silt, trace coarse grained sand (subangular to subrounded)				FROZEN, Nbn (clay not bonded but sand lenses) Vx=Vr =10%												7	
8		- medium plastic, dark grey																8	
9		- some silt, homogeneous, uniform, medium plastic, very dark grey				Ys=Vr 30% (clay slightly bonded)												9	
10		END OF BOREHOLE at 9.1m				FROZEN Ys + Vr 30% (clay slightly bonded)												10	
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BORROW RECONNAISSANCE - KOPANOAR				EBA # 101-2968											
DOME PETROLEUM LTD.				N7808856 E497579 Z8											
SAMPLE			SOIL DESCRIPTION	GROUND ICE DESCRIPTION	TEMP C	Bulk Density Mg/m ³ ▲				SPECIAL TESTS	UNIT	DEPTH (ft)			
TYP	NO.	Q				PLASTIC LIMIT	WATER CONTENT (%)	LIQUID LIMIT							
0			CLAY (CH) - and silt, frequent organic streaks, wet, very soft, grey, high plasticity	UNFROZEN								0			
1												1			
2			- 100mm layer of organic clay, frequent shell fragments									2			
3												3			
4			- wet, soft, layer (150mm)									4			
5			SAND (SM) - silty, fine grain, grey, alternating layers of sand and and silty clay (each 150mm thick) to 4.6m									5			
6												6			
7			- some silt (SP-SM), grey									7			
8			- brown									8			
9												9			
10												10			
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DRILL RIG: SONIC DRILL SHIP: CANMAR SUPPLIER VII WATER DEPTH: 56.7m ORIGINAL BOREHOLE NUMBER - 80-61		SAMPLE TYPE THIN W. TUBE NO. RECOV. SPLIT SPOON HEAVY W. TUBE VIBRO CORE GRAB		EBA ENGINEERING CONSULTANTS LTD. EDMONTON ALBERTA DRAWING NUMBER		BOREHOLE NUMBER KP80-61	
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BOREHOLE LOG AND LABORATORY TEST RESULTS

BORROW RECONNAISSANCE - KOPANUAR				EBA # 101-2968													
DOME PETROLEUM LTD.				N7809724 E485371 Z8													
SAMPLE			SOIL DESCRIPTION			GROUND ICE DESCRIPTION		TEMP C		Bulk Density Mg/m ³ ▲			SPECIAL TESTS		UNIT		
TYP NO. Q										PLASTIC LIMIT WATER CONTENT (%) LIQUID LIMIT							
										20 40 60 80 1.4 1.6 1.8 2							
0						CLAY (oh) - some silt, trace of sand, presence of organic (black streaks), very soft, very wet	UNFROZEN										0
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DRILL RIG: SONIC
 DRILL SHIP: CANMAR SUPPLIER VII
 WATER DEPTH: 62.2m
 ORIGINAL BOREHOLE NUMBER - 80-63

SAMPLE TYPE

THIN W. TUBE	HEAVY W. TUBE
NO. RECOV.	VIBRO CORE
SPLIT SPOON	GRAB

EBA ENGINEERING CONSULTANTS LTD.
 EDMONTON ALBERTA
 DRAWING NUMBER

BOREHOLE NUMBER
 KP80-63

BOREHOLE LOG AND LABORATORY TEST RESULTS

BORROW RECONNAISSANCE - KOPANOAR				EBA # 101-2968									
DOME PETROLEUM LTD.				N7809785 E482804 Z8									
SAMPLE			SOIL DESCRIPTION	GROUND ICE DESCRIPTION	TEMP C	Bulk Density Mg/m ³ ▲			SPECIAL TESTS	UNIT	DEPTH (ft)		
TYP	NO.	Q				PLASTIC LIMIT	WATER CONTENT (%)	LIQUID LIMIT					
0			CLAY (cl) - trace of silt, wet, very soft, greyish brown, medium plasticity	UNFROZEN							0		
			- turning to grey, frequent organic streaks								1		
											2		
											3		
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DRILL RIG: SONIC
 DRILL SHIP: CANMAR SUPPLIER VII
 WATER DEPTH: 62.5m
 ORIGINAL BOREHOLE NUMBER - 80-65

SAMPLE TYPE

☐ THIN W. TUBE	☐ HEAVY W. TUBE
☐ NO. RECOV.	☐ VIBRO CORE
☐ SPLIT SPOON	☒ GRAB

EBA ENGINEERING CONSULTANTS LTD.
 EDMONTON ALBERTA
 DRAWING NUMBER

BOREHOLE NUMBER
 KP80-65

BOREHOLE LOG AND LABORATORY TEST RESULTS

BORROW RECONNAISSANCE - KAGLULIK DOME PETROLEUM LTD.				EBA # 101-2968 N7830383 E430417 Z9		Bulk Density Mg/m ³ ▲ 1.4 1.6 1.8 2				SPECIAL TESTS	UNIT
SAMPLE		SOIL DESCRIPTION	GROUND ICE DESCRIPTION	TEMP C	PLASTIC LIMIT	WATER CONTENT (%)	LIQUID LIMIT	DEPTH (m)	DEPTH (ft)		
TYPE	NO. Q										
0	M	CLAY (CL) - and sand, silty, dark grey, low plasticity	UNFROZEN								
1	M	SAND (SP-SM) - trace silt, fine grained, uniform, dark grey									
2	M	- trace silt, light greyish brown									
	M	- 10cm layer fine black sand									
3	M	PEAT (pt) - black									
	M	SAND (SM) - some silt, fine grained, light grey									
4	M	- silty, light greyish brown, uniform									
5	M										
	M	SILT (ml) - trace clay, trace pebbles, medium grey (till-like)									
6	M	- trace fine sand									
	M	SAND (SM) - some silt, fine grained, medium brown, uniform									
7	M	- 15cm silt layer									
	M	- 10cm clay till layer									
8	M	- fine sand, some silt, grey									
	M	CLAY (TILL) - and silt and sand, moist, grey	UNFROZEN								
9	M	END OF BOREHOLE at 9.2m									
10											

DRILL RIG: SONIC
DRILL SHIP: CANMAR SUPPLIER VII
WATER DEPTH: 26.5m
ORIGINAL BOREHOLE NUMBER - 80-1

SAMPLE TYPE

☐ THIN W. TUBE	☐ HEAVY W. TUBE
☐ NO. RECOV.	☐ VIBRO CORE
☐ SPLIT SPOON	☒ GRAB

EBA ENGINEERING CONSULTANTS LTD.
EDMONTON ALBERTA
DRAWING NUMBER

BOREHOLE NUMBER
KK80-1

BOREHOLE LOG AND LABORATORY TEST RESULTS

BORROW RECONNAISSANCE - KAGLULIK DOME PETROLEUM LTD.				EBA # 101-2968 N7830373 E432462 Z9		Bulk Density Mg/m ³ ▲ 1.4 1.6 1.8 2				SPECIAL TESTS	UNIT
SAMPLE		SOIL DESCRIPTION	GROUND ICE DESCRIPTION	TEMP C	PLASTIC LIMIT WATER CONTENT (%) LIQUID LIMIT						
TYP	NO. Q							20	40	60	80
0		CLAY (cl) - silty, trace sand, dark grey	UNFROZEN								0
											1
											2
1		SAND (SP) - silty, fine grained, uniform, dark grey									3
		- clean									4
		- silty									5
2		- (SM) 10cm clay layer, very stiff									6
											7
											8
3											9
											10
											11
											12
4		- silty, fine grained, brown									13
											14
											15
5		- uniform									16
											17
											18
6		SILT (ml) - clayey, trace of sand, very stiff, damp, dark grey									19
											20
											21
7		END OF BOREHOLE at 7.0m	UNFROZEN								22
											23
											24
											25
											26
8											27
											28
											29
9											30
											31
10											32

DRILL RIG: SONIC
DRILL SHIP: CANMAR SUPPLIER VII
WATER DEPTH: 26.3m
ORIGINAL BOREHOLE NUMBER - 80-2

SAMPLE TYPE

☐ THIN W. TUBE	☐ HEAVY W. TUBE
☐ NO. RECOV.	☐ VIBRO CORE
☐ SPLIT SPOON	☐ GRAB

EBA ENGINEERING CONSULTANTS LTD.
EDMONTON ALBERTA
DRAWING NUMBER

BOREHOLE NUMBER
KK80-2

BOREHOLE LOG AND LABORATORY TEST RESULTS

BORROW RECONNAISSANCE - KAGLULIK DOME PETROLEUM LTD.				EBA / 101-2968 N7828792 E431553 Z9																	
SAMPLE		SOIL DESCRIPTION						GROUND ICE DESCRIPTION		TEMP C		Bulk Density Mg/m ³ ▲ 1.4 1.6 1.8 2.0 PLASTIC LIMIT WATER CONTENT (%) LIQUID LIMIT 20 40 60 80				SPECIAL TESTS		UNIT			
TYP NO. Q																					
0		CLAY (cl) - silty, medium plasticity, wet, dark grey						UNFROZEN													
1																					
2		M		- some silt, fine grained, uniform, moist																	
3																				M	
4		M		- moist, medium plasticity, stiff						UNFROZEN											
5																				M	
6		M																			
7																				M	
8																					
9																					
10																					

DRILL RIG: SONIC
 DRILL SHIP: CANMAR SUPPLIER VII
 WATER DEPTH: 27.2m
 ORIGINAL BOREHOLE NUMBER - 80-3

SAMPLE TYPE

	THIN W. TUBE		HEAVY W. TUBE
	NO. RECOV.		VIBRO CORE
	SPOON		GRAB

EBA ENGINEERING CONSULTANTS LTD.
 EDMONTON ALBERTA
 DRAWING NUMBER

BOREHOLE NUMBER
 KK80-3

BOREHOLE LOG AND LABORATORY TEST RESULTS

BORROW RECONNAISSANCE - KAGLULIK DOME PETROLEUM LTD.				EBA # 101-2968 N7828868 E430341 Z9										
SAMPLE			SOIL DESCRIPTION		GROUND ICE DESCRIPTION	TEMP C	Bulk Density Mg/m ³ ▲ 1.4 1.6 1.8 2 PLASTIC LIMIT WATER CONTENT(%) LIQUID LIMIT 20 40 60 80				SPECIAL TESTS		UNIT	DEPTH (ft)
DEPTH (m)	TYP	NO. Q												
0	M		CLAY (ci) - silty, wet, medium plasticity, dark grey		UNFROZEN									0
1	M		SAND (SP-SM) - silty, clayey, fine grained, wet, greyish brown, frequent clay lenses (100mm thick), from 1.4 to 2.5 metres											1
2	M													2
3	M		- trace silt, no clay, moist, brown, fine grained											3
4	M													4
5	M													5
6	M		SILT (mi) - trace caly and fine sand, wet, rapid dilatancy, grey											6
7	M		CLAY (CL) - and SILT, sandy, stiff, low plasticity											7
8			- changing to sand below 7.4m		UNFROZEN									8
9			END OF BOREHOLE at 7.5m											9
10														10
DRILL RIG: SONIC DRILL SHIP: CANMAR SUPPLIER VII WATER DEPTH: 26.6m ORIGINAL BOREHOLE NUMBER - 80-4			SAMPLE TYPE THIN W. TUBE NO. RECOV. SPLIT SPOON HEAVY W. TUBE VIBRO CORE GRAB			EBA ENGINEERING CONSULTANTS LTD. EDMONTON ALBERTA DRAWING NUMBER			BOREHOLE NUMBER KK80-4					
BOREHOLE LOG AND LABORATORY TEST RESULTS														

BORROW RECONNAISSANCE - KAGLULIK DOME PETROLEUM LTD.				EBA # 101-2968 N7831828 E431562 Z9									
SAMPLE			SOIL DESCRIPTION		GROUND ICE DESCRIPTION	TEMP C	Bulk Density Mg/m ³ ▲ 1.4 1.6 1.8 2 PLASTIC LIMIT WATER CONTENT (%) LIQUID LIMIT 20 40 60 80				SPECIAL TESTS	UNIT	
0	M		CLAY (cl) - silty, trace sand, wet, low to medium plasticity		UNFROZEN							0	
1	M		SAND (SP-SM) - trace silt, fine grained, uniform, dark grey									1	
2	M												2
3	M		- (SM) some silt, greyish brown		UNFROZEN							3	
4	M		- uniform, fine grained										4
5	M												5
6	M		- brown, fine grained, more silt										6
7	M		- fine grained, uniform, some silt, brown										7
8	M		- 100mm layer silty fine sand										8
9			END OF BOREHOLE at 8.5m										9
10													10

DRILL RIG: SONIC
 DRILL SHIP: CANMAR SUPPLIER VII
 WATER DEPTH: 27.5m
 ORIGINAL BOREHOLE NUMBER - 80-5

SAMPLE TYPE

THIN W. TUBE
 NO. RECOV.
 SPLIT SPOON

HEAVY W. TUBE
 VIBRO CORE
 GRAB

EBA ENGINEERING CONSULTANTS LTD.
 EDMONTON ALBERTA
 DRAWING NUMBER

BOREHOLE NUMBER
 KK80-5

BOREHOLE LOG AND LABORATORY TEST RESULTS

BORROW RECONNAISSANCE - KAGLULIK DOME PETROLEUM LTD.				EBA # 101-2968 N7828817 E433288 Z9								
SAMPLE		SOIL DESCRIPTION		GROUND ICE DESCRIPTION	TEMP C	Bulk Density Mg/m ³ ▲ PLASTIC LIMIT WATER CONTENT(%) LIQUID LIMIT 20 40 60 80				SPECIAL TESTS	UNIT	
DEPTH (m)	TYP	NO.	Q									DEPTH (ft)
0	M			CLAY (cl) - silty, trace fine sand, medium plasticity, wet, dark grey	UNFROZEN							0
1	M			SAND (SM)- some silt, wet, uniform, fine grained, brown								1
2	M											2
3	M			- silty, fine grained, wet								3
4	M											4
5	M			- wet								5
6	M			- moist								6
7	M				UNFROZEN							7
8				END OF BOREHOLE at 7.8m								8
9												9
10												10
DRILL RIG: SONIC DRILL SHIP: CANMAR SUPPLIER VII WATER DEPTH: 26.9m ORIGINAL BOREHOLE NUMBER - 80-6				SAMPLE TYPE THIN W. TUBE NO. RECOV. SPLIT SPOON HEAVY W. TUBE VIBRO CORE GRAB		EBA ENGINEERING CONSULTANTS LTD. EDMONTON ALBERTA DRAWING NUMBER				BOREHOLE NUMBER KK80-6		
BOREHOLE LOG AND LABORATORY TEST RESULTS												

BORROW RECONNAISSANCE -- KAGLULIK DOME PETROLEUM LTD.				EBA # 101-2968 N7831813 E433286 Z9		Bulk Density Mg/m ³ ▲ 1.4 1.6 1.8 2					SPECIAL TESTS	UNIT	
SAMPLE			SOIL DESCRIPTION	GROUND ICE DESCRIPTION	TEMP C	PLASTIC LIMIT WATER CONTENT(%) LIQUID LIMIT							
TYP	NO.	Q				20	40	60	80				
0	M		SAND (SM) -- and SILT, trace clay, fine grained, dark grey	UNFROZEN								0	
1	M												1
2	M												2
3	M		CLAY (CL) -- silty, some fine sand, hard, damp, very low plasticity	UNFROZEN								3	
4	M												4
5			END OF BOREHOLE at 3.7m									5	
6												6	
7												7	
8												8	
9												9	
10												10	
11												11	
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31												31	
32												32	

DRILL RIG: SONIC
 DRILL SHIP: CANMAR SUPPLIER VII
 WATER DEPTH: 28.4m
 ORIGINAL BOREHOLE NUMBER -- 80-7

SAMPLE TYPE

☐ THIN W. TUBE	☐ HEAVY W. TUBE
☐ NO. RECOV.	☐ VIBRO CORE
☐ SPLIT SPOON	☒ GRAB

EBA ENGINEERING CONSULTANTS LTD.
 EDMONTON ALBERTA
 DRAWING NUMBER

BOREHOLE
 NUMBER
 KK80-7

BOREHOLE LOG AND LABORATORY TEST RESULTS

BORROW RECONNAISSANCE - KAGLULIK DOME PETROLEUM LTD.				EBA # 101-2968 N7831846 E429771 Z9		Bulk Density Mg/m ³ ▲ 1.4 1.6 1.8 2				SPECIAL TESTS	UNIT	DEPTH (ft)
SAMPLE		SOIL DESCRIPTION	GROUND ICE DESCRIPTION	TEMP C	PLASTIC LIMIT	WATER CONTENT (%)	LIQUID LIMIT					
TYP	NO.								Q			
0												0
												1
												2
												3
1												4
												5
												6
2												7
												8
												9
3												10
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												32

DRILL RIG: SONIC
 DRILL SHIP: CANMAR SUPPLIER VII
 WATER DEPTH: 27.5m
 ORIGINAL BOREHOLE NUMBER - 80-8

SAMPLE TYPE

☐ THIN W. TUBE	☐ HEAVY W. TUBE
☐ NO. RECOV.	☐ VIBRO CORE
☐ SPLIT SPOON	☐ GRAB

EBA ENGINEERING CONSULTANTS LTD.
 EDMONTON ALBERTA
 DRAWING NUMBER

BOREHOLE NUMBER
 KK80-8

BOREHOLE LOG AND LABORATORY TEST RESULTS

BORROW RECONNAISSANCE - KAGLULIK DOME PETROLEUM LTD.				EBA # 101-2968 N7824165 E410734 Z9								
SAMPLE		SOIL DESCRIPTION		GROUND ICE DESCRIPTION	TEMP C	Bulk Density Mg/m³ ▲ 1.4 1.6 1.8 2 PLASTIC LIMIT WATER CONTENT (%) LIQUID LIMIT 20 40 60 80				SPECIAL TESTS	UNIT	
0	M		SAND (SM) - some silt and clay, trace of shell fragments, grey, fine grained, silty below 0.6m	UNFROZEN								0
1			- 150mm clay layer, stiff - frequent silt or clay layers, brown, trace of gravel									1
2	M		- 300mm clay layer, stiff									2
3												3
4	M											4
5			- 100mm clay layer, stiff, grey									5
6	M		- 150mm clay layer, stiff, grey									6
7	M		- trace of silt, fine to medium grained, brown, uniform									7
8												8
9	M											9
10	M		- (SM) - some silt, fine grained, brown									10
11												11
12												12
13												13
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29												29
30												30
31												31
32												32

DRILL RIG: SONIC
 DRILL SHIP: CANMAR SUPPLIER VII
 WATER DEPTH: 35.4m
 ORIGINAL BOREHOLE NUMBER - 80-10

SAMPLE TYPE	
THIN W. TUBE	HEAVY W. TUBE
NO. RECOV.	VIBRO CORE
SPLIT SPOON	GRAB

EBA ENGINEERING CONSULTANTS LTD.
 EDMONTON ALBERTA
 DRAWING NUMBER

BOREHOLE NUMBER
 KK80-10
 PAGE 1 OF 2

BOREHOLE LOG AND LABORATORY TEST RESULTS

BORROW RECONNAISSANCE - KAGLULIK DOME PETROLEUM LTD.				EBA / 101-2968 N7824165 E410734 Z9		Bulk Density Mg/m ³ ▲ 1.4 1.6 1.8 2				SPECIAL TESTS	UNIT	DEPTH (ft)
SAMPLE			SOIL DESCRIPTION	GROUND ICE DESCRIPTION	TEMP C	PLASTIC LIMIT	WATER CONTENT (%)	LIQUID LIMIT				
TYP	NO.	Q										
X			SAND (SM) - (cont'd)	UNFROZEN								33
			END OF BOREHOLE at 10.4m									34
												35
												36
												37
												38
												39
												40
												41
												42
												43
												44
												45
												46
												47
												48
												49
												50
												51
												52
												53
												54
												55
												56
												57
												58
												59
												60
												61
												62
												63
												64
												65

DRILL RIG: SONIC
 DRILL SHIP: CANMAR SUPPLIER VII
 WATER DEPTH: 35.4m
 ORIGINAL BOREHOLE NUMBER - 80-10

SAMPLE TYPE

☐ THIN W. TUBE	☐ HEAVY W. TUBE
☐ NO. RECOV.	☐ CORE
☐ SPLIT SPOON	☐ GRAB

EBA ENGINEERING CONSULTANTS LTD.
 EDMONTON ALBERTA
 DRAWING NUMBER

BOREHOLE NUMBER
 KK80-10
 PAGE 2 OF 2

BOREHOLE LOG AND LABORATORY TEST RESULTS

BORROW RECONNAISSANCE - KAGLULIK DOME PETROLEUM LTD.				EBA # 101-2968 N7832794 E421997 Z9										
SAMPLE		SOIL DESCRIPTION		GROUND ICE DESCRIPTION	TEMP C	Bulk Density Mg/m ³ ▲ 1.4 1.6 1.8 2 PLASTIC LIMIT WATER CONTENT (%) LIQUID LIMIT 20 40 60 80						SPECIAL TESTS	UNIT	
0			CLAY (cl) - trace of sand, soft to firm, grey	UNFROZEN										0
1			SAND (SP) - clean, trace of gravel, fine and medium grained											1
2			- trace of silt, gravel particles up to 100mm (locally), coarser grained											2
3			- (SP-SM) - fine to medium grained											3
4														4
5			CLAY (CL) - and silt, low plasticity, firm to stiff, grey											5
6														6
7														7
8			- decreasing plasticity with depth											8
9			- low plasticity - no recovery											9
10			NOTE: END OF BOREHOLE at 10.0m	UNFROZEN										10
DRILL RIG: SONIC DRILL SHIP: CANMAR SUPPLIER VII WATER DEPTH: 44.8m ORIGINAL BOREHOLE NUMBER - 80-11				SAMPLE TYPE THIN W. TUBE NO. RECOV. SPLIT SPOON HEAVY W. TUBE VIBRO CORE GRAB				EBA ENGINEERING CONSULTANTS LTD. EDMONTON ALBERTA DRAWING NUMBER				BOREHOLE NUMBER KK80-11		
BOREHOLE LOG AND LABORATORY TEST RESULTS														

BORROW RECONNAISSANCE - KAGLULIK DOME PETROLEUM LTD.				EBA # 101-2968 N7832751 E422131 Z9		Bulk Density Mg/m ³ ▲ 1.4 1.6 1.8 2				SPECIAL TESTS	UNIT
SAMPLE		SOIL DESCRIPTION	GROUND ICE DESCRIPTION	TEMP C	PLASTIC LIMIT WATER CONTENT (%) LIQUID LIMIT						
TYP	NO. Q							20	40	60	80
0		CLAY (cl) - sandy, wet, grey	UNFROZEN								0
		SAND (SP) - trace of silt, presence of organics, fine grained, uniform, brown									1
1											2
		- clean, trace of gravel for 0.6m, particles up to 75mm subangular, fine and medium grained									3
2											4
											5
3											6
											7
4											8
											9
5		- clean, trace of fine gravel, subrounded									10
											11
6											12
											13
7											14
											15
8		CLAY (CL) - and silt (abrupt change), damp, stiff, low plasticity	UNFROZEN								16
											17
9											18
											19
10		END OF BOREHOLE at 8.2m									20
											21
											22
											23
											24
											25
											26
											27
											28
											29
											30
											31
											32

DRILL RIG: SONIC
DRILL SHIP: CANMAR SUPPLIER VII
WATER DEPTH: 43.3m
ORIGINAL BOREHOLE NUMBER - 80-12

SAMPLE TYPE

☐ THIN W. TUBE	☐ HEAVY W. TUBE
☐ NO. RECOV.	☐ VIBRO CORE
☐ SPLIT SPOON	☐ GRAB

EBA ENGINEERING CONSULTANTS LTD.
EDMONTON ALBERTA
DRAWING NUMBER

BOREHOLE NUMBER
KK80-12

BOREHOLE LOG AND LABORATORY TEST RESULTS

BORROW RECONNAISSANCE - KAGLULIK DOME PETROLEUM LTD.				EBA # 101-2968 N7829518 E415319 Z9		Bulk Density Mg/m ³ ▲ 1.4 1.6 1.8 2				SPECIAL TESTS	UNIT
SAMPLE		SOIL DESCRIPTION	GROUND ICE DESCRIPTION	TEMP C	PLASTIC LIMIT WATER CONTENT (%) LIQUID LIMIT						
TYP	NO. Q				20	40	60	80			
DEPTH (m) 0 1 2 3 4 5 6 7 8 9 10	X	SAND (SM) - some silt and clay, presence of organics, very stiff, dark grey	UNFROZEN								DEPTH (ft) 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32
		- clean (SP), fine grained, grey									
		- fine grained, uniform, grey									
		- trace of silt, grey									
		- 150mm layer of organic sand, silty, black									
		- and silt, presence of organics, grey, damp									
		- 75mm layer of organic sand and silt									
		END OF BOREHOLE at 9.2m									

DRILL RIG: SONIC
DRILL SHIP: CANMAR SUPPLIER VII
WATER DEPTH: 33.6m
ORIGINAL BOREHOLE NUMBER - 80-13

SAMPLE TYPE

THIN W. TUBE	HEAVY W. TUBE
NO. RECOV.	VIBRO CORE
SPLIT SPOON	GRAB

EBA ENGINEERING CONSULTANTS LTD.
EDMONTON ALBERTA
DRAWING NUMBER

BOREHOLE NUMBER
KK80-13

BOREHOLE LOG AND LABORATORY TEST RESULTS

BORROW RECONNAISSANCE - KAGLULIK DOME PETROLEUM LTD.				EBA # 101-2968 N7829104 E421787 Z9		Bulk Density Mg/m ³ ▲ 1.4 1.6 1.8 2				SPECIAL TESTS	UNIT	DEPTH (ft)
SAMPLE		SOIL DESCRIPTION	GROUND ICE DESCRIPTION	TEMP C	WATER CONTENT (%)							
TYP	NO. Q				PLASTIC LIMIT	LIQUID LIMIT	WATER CONTENT (%)					
0		CLAY (cl) - trace silt, very soft, grey, wet	UNFROZEN									0
		SAND (SP) - trace of silt, fine grained, uniform, grey										1
1												2
												3
2		- clean, grey										4
												5
												6
3		- clean, brown										7
		- trace of fine gravel (locally)										8
												9
4		- clean, uniform										10
												11
												12
5												13
												14
												15
6		SILT (ml) - sandy, frequent organic streaks, damp, firm, laminated	UNFROZEN									16
												17
												18
7		- no recovery										19
												20
												21
												22
												23
												24
												25
												26
												27
												28
												29
												30
												31
10		NOTE: END OF BOREHOLE at 10.1m										32

DRILL RIG: SONIC
DRILL SHIP: CANMAR SUPPLIER VII
WATER DEPTH: 41.5m
ORIGINAL BOREHOLE NUMBER - 80-14

SAMPLE TYPE

THIN W. TUBE	HEAVY W. TUBE
NO. RECOV.	VIBRO CORE
SPLIT SPOON	GRAB

EBA ENGINEERING CONSULTANTS LTD.
EDMONTON ALBERTA
DRAWING NUMBER

BOREHOLE NUMBER
KK80-14

BOREHOLE LOG AND LABORATORY TEST RESULTS

BORROW RECONNAISSANCE - KAGLULIK DOME PETROLEUM LTD.				EBA # 101-2968 N7827120 E421584 Z9		Bulk Density Mg/m ³ ▲ 1.4 1.6 1.8 2				SPECIAL TESTS	UNIT
SAMPLE		SOIL DESCRIPTION	GROUND ICE DESCRIPTION	TEMP C	PLASTIC LIMIT WATER CONTENT (%) LIQUID LIMIT						
TYP	NO. Q				20	40	60	80			
0		SAND (SP) - some silt, fine grained, uniform, grey covered by 100mm of soft silty clay at surface	UNFROZEN								0
1											1
2		- trace of silt, brown, uniform, fine grained									2
3		- clean, fine grained, uniform									3
4											4
5		- trace of silt, fine grained, uniform, brown									5
6		- clean, fine grained, uniform, brown									6
7		- grey									7
8											8
9		SILT (ml) - trace clay, firm, grey	UNFROZEN								9
10		END OF BOREHOLE at 9.1m									10

DRILL RIG: SONIC DRILL SHIP: CANMAR SUPPLIER VII WATER DEPTH: 39.6M ORIGINAL BOREHOLE NUMBER - 80-15	SAMPLE TYPE THIN W. TUBE NO. RECOV. SPLIT SPOON HEAVY W. TUBE VIBRO CORE GRAB	EBA ENGINEERING CONSULTANTS LTD. EDMONTON ALBERTA DRAWING NUMBER	BOREHOLE NUMBER KK80-15
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BOREHOLE LOG AND LABORATORY TEST RESULTS

BORROW RECONNAISSANCE - KAGLULIK DOME PETROLEUM LTD.				EBA # 101-2968 N7833826 E439045 Z9		Bulk Density Mg/m ³ ▲ 1.4 1.6 1.8 2				SPECIAL TESTS	UNIT
SAMPLE		SOIL DESCRIPTION	GROUND ICE DESCRIPTION	TEMP C	WATER CONTENT (%)						
TYP	NO. Q				PLASTIC LIMIT	20	40	60	80		
0											0
											1
											2
											3
1											4
											5
											6
											7
2											8
											9
											10
											11
											12
											13
											14
											15
											16
											17
											18
											19
											20
											21
											22
											23
											24
											25
											26
											27
											28
											29
9											30
											31
											32
10											

DRILL RIG: SONIC
 DRILL SHIP: CANMAR SUPPLIER VII
 WATER DEPTH: 21.0m
 ORIGINAL BOREHOLE NUMBER - 80-16

SAMPLE TYPE

☐ THIN W. TUBE	☐ HEAVY W. TUBE
☐ NO. RECOV.	☐ VIBRO CORE
☐ SPLIT SPOON	☐ GRAB

EBA ENGINEERING CONSULTANTS LTD.
 EDMONTON ALBERTA
 DRAWING NUMBER

BOREHOLE NUMBER
 KK80-16

BOREHOLE LOG AND LABORATORY TEST RESULTS

BORROW RECONNAISSANCE - KAGLULIK DOME PETROLEUM LTD.				EBA # 101-2968 N7833948 E438924 Z9		Bulk Density Mg/m ³ ▲ 1.4 1.6 1.8 2.0 PLASTIC LIMIT WATER CONTENT(%) LIQUID LIMIT 20 40 60 80						SPECIAL TESTS		UNIT		
SAMPLE			SOIL DESCRIPTION	GROUND ICE DESCRIPTION	TEMP C											
TYP	NO.	Q														
0			SAND (SM) - and silt, trace of clay near surface, grey, fine grained, very dense, silty below 0.7m, dense moist, brown	UNFROZEN												0
1																1
2																2
3			- silty, fine grained, uniform, brown, dense, damp													3
4																4
5																5
6			- 75mm clay layer, some sand, firm													6
7			- and silt, trace of clay, damp, brownish grey													7
8			CLAY (cl) - very stiff, damp, grey													8
9			- sand and silt layer, with some clay and trace of organics													9
10			- very stiff clay layer, damp, grey													10
			- sand layer, some silt													11
			- clay, very stiff, grey													12
			END OF BOREHOLE at 9.2m	UNFROZEN												13
																14
																15
																16
																17
																18
																19
																20
																21
																22
																23
																24
																25
																26
																27
																28
																29
																30
																31
																32

DRILL RIG: SONIC
DRILL SHIP: CANMAR SUPPLIER VII
WATER DEPTH: 24.4m
ORIGINAL BOREHOLE NUMBER - 80-17

SAMPLE TYPE

THIN W. TUBE	HEAVY W. TUBE
NO. RECOV.	VIBRO CORE
SPLIT SPOON	GRAB

EBA ENGINEERING CONSULTANTS LTD.
EDMONTON ALBERTA
DRAWING NUMBER

BOREHOLE NUMBER
KK80-17

BOREHOLE LOG AND LABORATORY TEST RESULTS

BORROW RECONNAISSANCE - KAGLULIK DOME PETROLEUM LTD.			EBA # 101-2968 N7832347 E439236 Z9		Bulk Density Mg/m ³ ▲ 1.4 1.6 1.8 2				SPECIAL TESTS	UNIT
SAMPLE		SOIL DESCRIPTION	GROUND ICE DESCRIPTION	TEMP C	PLASTIC LIMIT	WATER CONTENT (%)	LIQUID LIMIT			
TYP	NO. Q							20	40	60
0		SAND (SP-SM) - trace of silt and clay very dense, grey, 300mm sand and clay layer at 0.3m, stiff	UNFROZEN							0
1		- trace of silt and clay below 0.6m, very dense, damp, grey, fine grained								1
		- yellowish brown								2
2										3
		- brownish grey								4
		- some silt, yellowish brown								5
3										6
										7
4		- some silt, fine grained, poorly graded								8
										9
5										10
										11
6			UNFROZEN							12
										13
										14
										15
										16
										17
										18
										19
										20
										21
		END OF BOREHOLE at 6.7m								22
7										23
										24
8										25
										26
										27
										28
										29
										30
										31
10										32

DRILL RIG: SONIC
 DRILL SHIP: CANMAR SUPPLIER VII
 WATER DEPTH: 17.8m
 ORIGINAL BOREHOLE NUMBER - 80-18

SAMPLE TYPE
 THIN W. TUBE HEAVY W. TUBE
 NO. RECOV. VIBRO CORE
 SPLIT SPOON GRAB

EBA ENGINEERING CONSULTANTS LTD.
 EDMONTON ALBERTA
 DRAWING NUMBER

BOREHOLE
 NUMBER
 KK80-18

BOREHOLE LOG AND LABORATORY TEST RESULTS

EBA # 101-2968
N7831502 E439186 Z9

DEPTH (m)

DEPTH (ft)

BOREHOLE
NUMBER
KK80-19

BOREHOLE LOG AND LABORATORY TEST RESULTS

BORROW RECONNAISSANCE - KAGLULIK DOME PETROLEUM LTD.				EBA # 101-2968 N7831655 E438767 Z9		Bulk Density Mg/m ³ ▲ 1.4 1.6 1.8 2					SPECIAL TESTS	UNIT		
SAMPLE		SOIL DESCRIPTION	GROUND ICE DESCRIPTION	TEMP C	PLASTIC LIMIT WATER CONTENT (%) LIQUID LIMIT									
TYP	NO. Q				20	40	60	80						
0	M	SAND (SM) - and silt, grey, dense, presence of organics, black from 0.2 to 0.5m - some silt, moist, dense, yellowish brown	UNFROZEN									0		
1														1
2														2
3														3
4														4
5														5
6														6
7														7
8														8
9														9
10		- silty, dense, yellowish brown - some silt, dense, yellowish brown - trace of silt, dense, yellowish brown	UNFROZEN									10		
11														11
12														12
13														13
14														14
15														15
16														16
17														17
18														18
19														19
		END OF BOREHOLE at 9.2m										20		
														21
														22
														23
														24
														25
														26
														27
														28
														29
												30		
											31			
											32			

DRILL RIG: SONIC
 DRILL SHIP: CANMAR SUPPLIER VII
 WATER DEPTH: 19.5m
 ORIGINAL BOREHOLE NUMBER - 80-20

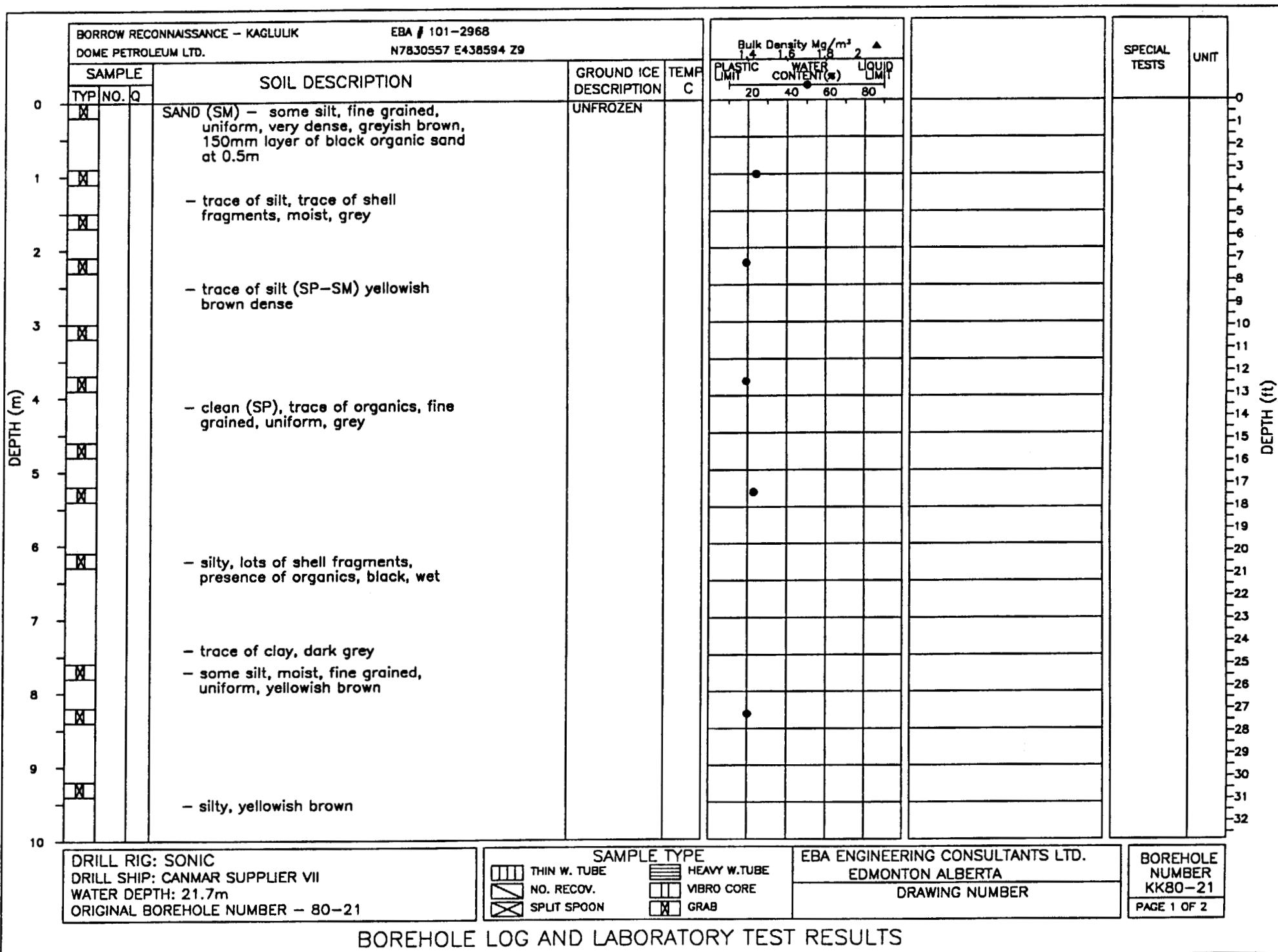
SAMPLE TYPE

THIN W. TUBE	HEAVY W. TUBE
NO. RECOV.	VIBRO CORE
SPLIT SPOON	GRAB

EBA ENGINEERING CONSULTANTS LTD.
 EDMONTON ALBERTA
 DRAWING NUMBER

BOREHOLE NUMBER
 KK80-20

BOREHOLE LOG AND LABORATORY TEST RESULTS



BORROW RECONNAISSANCE - KAGLULIK DOME PETROLEUM LTD.				EBA # 101-2968 N7830557 E438594 Z9						SPECIAL TESTS	UNIT	
SAMPLE		SOIL DESCRIPTION	GROUND ICE DESCRIPTION	TEMP C	Bulk Density Mg/m ³ ▲ PLASTIC LIMIT WATER CONTENT (%) LIQUID LIMIT							
TYP	NO. Q							20	40	60	80	
M		SAND (SM) -(cont'd)			•							33
M												34
												35
												36
												37
M		- trace of clay, damp to moist, yellowish brown			•							38
M												39
		END OF BOREHOLE at 12.2m	UNFROZEN									40
												41
												42
												43
												44
												45
												46
												47
												48
												49
												50
												51
												52
												53
												54
												55
												56
												57
												58
												59
												60
												61
												62
												63
												64
												65

DRILL RIG: SONIC
 DRILL SHIP: CANMAR SUPPLIER VII
 WATER DEPTH: 21.7m
 ORIGINAL BOREHOLE NUMBER - 80-21

SAMPLE TYPE

THIN W. TUBE	HEAVY W. TUBE
NO. RECOV.	CORE
SPLIT SPOON	GRAB

EBA ENGINEERING CONSULTANTS LTD.
 EDMONTON ALBERTA
 DRAWING NUMBER

BOREHOLE
 NUMBER
 KK80-21
 PAGE 2 OF 2

BOREHOLE LOG AND LABORATORY TEST RESULTS

EBA # 101-2968
N7835258 E438573 Z9

SAMPLE	
TYP	NO. 0

GROUND ICE DESCRIPTION	TEMP C
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Figure 1 is a graph showing Bulk Density (Mg/m^3) versus Water Content (%). The x-axis represents Water Content (%) from 20 to 80, with labels for PLASTIC LIMIT, WATER CONTENT (%), and LIQUID LIMIT. The y-axis represents Bulk Density (Mg/m^3) from 1.4 to 2.0. A curve is plotted, and a point is marked on it at approximately 45% water content and 1.7 Mg/m^3 bulk density.

SPECIAL TESTS

UNIT

DEPTH (m)

DEPTH (ft)

DRILL RIG: SONIC
DRILL SHIP: CANMAR SUPPLIER VII
WATER DEPTH: 24.4m
ORIGINAL BOREHOLE NUMBER - 80-23

SAMPLE TYPE			
	THIN W. TUBE		HEAVY W. TUBE
	NO. RECOV.		VIBRO CORE
	SPLIT SPOON		GRAB

EBA ENGINEERING CONSULTANTS LTD.
EDMONTON ALBERTA
DRAWING NUMBER

BOREHOLE
NUMBER
KK80-23

BOREHOLE LOG AND LABORATORY TEST RESULTS

BORROW RECONNAISSANCE - SOUTH KAGLULIK DOME PETROLEUM LTD.					EBA # 101-2968 N7816628 E427805 Z9		Bulk Density Mg/m ³ ▲ 1.4 1.6 1.8 2				SPECIAL TESTS	UNIT
DEPTH (m)	SAMPLE		SOIL DESCRIPTION	GROUND ICE DESCRIPTION	TEMP C	PLASTIC LIMIT	WATER CONTENT (%)	LIQUID LIMIT				
	TYP	NO. Q										
0			CLAY (cl) - and silt, wet soft SAND (SP) - silty, fine grained, uniform grey	UNFROZEN								0
1			- and silt, brownish grey, homogeneous									1
2			- trace of silt, trace of shell fragments and organics, fine grained, dense, grey									2
3			- trace of silt, fine grained, uniform, very dense, yellowish brown									3
4												4
5												5
6												6
7												7
8												8
9												9
10			END OF BOREHOLE at 9.2m	UNFROZEN								10

DRILL RIG: SONIC DRILL SHIP: CANMAR SUPPLIER VII WATER DEPTH: 20.4m ORIGINAL BOREHOLE NUMBER - 80-24	SAMPLE TYPE THIN W. TUBE NO. RECOV. SPLIT SPOON HEAVY W.TUBE VIBRO CORE GRAB	EBA ENGINEERING CONSULTANTS LTD. EDMONTON ALBERTA DRAWING NUMBER	BOREHOLE NUMBER KS80-24
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BOREHOLE LOG AND LABORATORY TEST RESULTS

BORROW RECONNAISSANCE - SOUTH KAGLULIK DOME PETROLEUM LTD.				EBA # 101-2968 N7795394 E405151 Z9									
SAMPLE		SOIL DESCRIPTION		GROUND ICE DESCRIPTION	TEMP C	Bulk Density Mg/m ³ ▲ PLASTIC LIMIT 20 40 60 80 WATER CONTENT (%) LIQUID LIMIT						SPECIAL TESTS	UNIT
TYP NO. Q													
0			CLAY (CL) - and sand silty, very soft, wet, grey, low plastic	UNFROZEN									0
1			SAND (SP-SM) - trace of silt, fine grained, uniform, grey damp										1
2													2
3			- clean (SP), fine grained, uniform, brown										3
4													4
5													5
6			- trace of clay, finer grained										6
7													7
8													8
9													9
10			END OF BOREHOLE at 9.2m	UNFROZEN									10
DRILL RIG: SONIC DRILL SHIP: CANMAR SUPPLIER VII WATER DEPTH: 24.4m ORIGINAL BOREHOLE NUMBER - 80-25				SAMPLE TYPE THIN W. TUBE NO. RECOV. SPLIT SPOON HEAVY W. TUBE VIBRO CORE GRAB				EBA ENGINEERING CONSULTANTS LTD. EDMONTON ALBERTA DRAWING NUMBER				BOREHOLE NUMBER KS80-25	
BOREHOLE LOG AND LABORATORY TEST RESULTS													

BORROW RECONNAISSANCE - SOUTH KAGLULIK DOME PETROLEUM LTD.				EBA # 101-2968 N7789162 E396048 Z9		Bulk Density Mg/m ³ ▲ 1.4 1.6 1.8 2.0				SPECIAL TESTS	UNIT
DEPTH (m)	SAMPLE		SOIL DESCRIPTION	GROUND ICE DESCRIPTION	TEMP C	PLASTIC LIMIT	WATER CONTENT (%)	LIQUID LIMIT			
	TYP	NO. Q									
0			SAND (SP) - clean, fine to medium grained, uniform, brown	UNFROZEN							
1			- coarser grained for 150mm								
2			- trace of silt, brown, fine to medium grained								
3			SILT (ML) - sandy, some clay, presence of organics, damp, stiff, black								
4											
5											
6			- dark brownish grey								
7			SAND (SP-SM) - trace of silt, fine grained, moist, dense, light grey								
8			- trace of gravel								
9			- trace of clay, frequent 15mm clay laminae, brownish grey								
10			- trace of silt, no clay, fine grain, uniform								

DRILL RIG: SONIC DRILL SHIP: CANMAR SUPPLIER VII WATER DEPTH: 19.8m ORIGINAL BOREHOLE NUMBER - 80-27		SAMPLE TYPE THIN W. TUBE NO. RECOV. SPLIT SPOON HEAVY W. TUBE VIBRO CORE GRAB		EBA ENGINEERING CONSULTANTS LTD. EDMONTON ALBERTA DRAWING NUMBER		BOREHOLE NUMBER KS80-27 PAGE 1 OF 2
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BOREHOLE LOG AND LABORATORY TEST RESULTS

BORROW RECONNAISSANCE - SOUTH KAGLULIK DOME PETROLEUM LTD.				EBA # 101-2968 N7782262 E392025 Z9		Bulk Density Mg/m ³ ▲ 1.4 1.6 1.8 2				SPECIAL TESTS	UNIT	DEPTH (ft)
DEPTH (m)	SAMPLE		SOIL DESCRIPTION	GROUND ICE DESCRIPTION	TEMP C	PLASTIC LIMIT	WATER CONTENT (%)	LIQUID LIMIT				
	TYP	NO. Q										
0	☒		SAND (SP) - trace of silt, fine grained uniform, brown - 200mm layer of silty sand, trace organics, grey at 0.2m	UNFROZEN								0
1	☒											1
2	☒		- some silt, trace of clay and organics, grey									2
3	☒											3
4	☒		- trace of silt, grey									4
5	☒		- some silt, dark grey									5
6	☒											6
7	☒		SILT (ml) - some sand, organic laminations, moist									7
8	☒											8
9	☒		SAND (SM) - trace of silt, fine grained, uniform, brown - and silt, dense, grey									9
10	☒		END OF BOREHOLE at 9.2m	UNFROZEN								10

DRILL RIG: SONIC
DRILL SHIP: CANMAR SUPPLIER VII
WATER DEPTH: 18.3m
ORIGINAL BOREHOLE NUMBER - 80-28

SAMPLE TYPE

☐ THIN W. TUBE	☐ HEAVY W. TUBE
☐ NO. RECOV.	☐ VIBRO CORE
☒ SPLIT SPOON	☒ GRAB

EBA ENGINEERING CONSULTANTS LTD.
EDMONTON ALBERTA
DRAWING NUMBER

BOREHOLE
NUMBER
KS80-28

BOREHOLE LOG AND LABORATORY TEST RESULTS

BORROW RECONNAISSANCE - SOUTH KAGLULIK DOME PETROLEUM LTD.				EBA # 101-2968 N7782397 E402370 Z9		Bulk Density Mg/m ³ ▲ 1.4 1.6 1.8 2					SPECIAL TESTS	UNIT	
SAMPLE		SOIL DESCRIPTION	GROUND ICE DESCRIPTION	TEMP C	PLASTIC LIMIT	WATER CONTENT (%)	LIQUID LIMIT	DEPTH (m)					
TYP	NO. Q												
0	X	SAND (SP) - trace of silt, clay seams in top 0.2m, fine grained, brown - clean, trace of fine gravel next 0.3m, fine to medium grained, dense, light, grey, clean below 1.2m	UNFROZEN										0
1	X												
2	X												
3	X	- trace of shells	UNFROZEN										10
4	X	SILT (ml) - sandy, damp, firm, dark grey											
5	X	SAND (SM) - silty, layered with finer sand every 25mm, brown, fine grained											
6	X		UNFROZEN										20
7	X												
8	X												
9													30
10													32

DRILL RIG: SONIC
 DRILL SHIP: CANMAR SUPPLIER VII
 WATER DEPTH: 16.5m
 ORIGINAL BOREHOLE NUMBER - 80-29

SAMPLE TYPE

THIN W. TUBE	HEAVY W. TUBE
NO. RECOV.	VIBRO CORE
SPLIT SPOON	GRAB

EBA ENGINEERING CONSULTANTS LTD.
 EDMONTON ALBERTA
 DRAWING NUMBER

BOREHOLE NUMBER
 KS80-29

BOREHOLE LOG AND LABORATORY TEST RESULTS

BORROW RECONNAISSANCE - SOUTH KAGLULIK DOME PETROLEUM LTD.				EBA # 101-2968 N7788231 E405015 Z9		Bulk Density Mg/m^3 ▲ 1.4 1.6 1.8 2				SPECIAL TESTS	UNIT	DEPTH (ft)
SAMPLE		SOIL DESCRIPTION	GROUND ICE DESCRIPTION	TEMP C	PLASTIC LIMIT	WATER CONTENT (%)	LIQUID LIMIT					
TYP	NO. Q											
0		CLAY (cl) - sandy, very soft, grey	UNFROZEN									0
		SAND (SP) - trace of silt, fine grained, uniform, brownish grey										1
												2
												3
												4
1												5
												6
2		- silty, trace of organics, dark grey										7
												8
												9
3		- some silt, trace of organics, dark grey										10
		- frequent peat laminae to 4.3m										11
												12
4		- some silt, trace of clay, fine grained, uniform										13
												14
5												15
												16
6		- silty, brownish grey, fine grained, uniform										17
												18
												19
												20
												21
												22
7		SILT (ml) - some clay, trace sand, black, stiff										23
		SAND (sm) and SILT (ml) - interbedded in 25mm layers, brownish										24
												25
8		SILT (ml) - and clay, stiff, brownish grey	UNFROZEN									26
		SAND (SM) - some silt, fine to medium grained, uniform, dense, brown										27
												28
9												29
		END OF BOREHOLE at 9.2m										30
												31
10												32

DRILL RIG: SONIC
DRILL SHIP: CANMAR SUPPLIER VII
WATER DEPTH: 19.5m
ORIGINAL BOREHOLE NUMBER - 80-30

SAMPLE TYPE

☐ THIN W. TUBE	☐ HEAVY W. TUBE
☐ NO. RECOV.	☐ VIBRO CORE
☐ SPLIT SPOON	☐ GRAB

EBA ENGINEERING CONSULTANTS LTD.
EDMONTON ALBERTA
DRAWING NUMBER

BOREHOLE NUMBER
KS80-30

BOREHOLE LOG AND LABORATORY TEST RESULTS

EBA # 101-2968
N7812177 E421912 Z9

SOIL DESCRIPTION

GROUND ICE DESCRIPTION	
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TEMP
C

Bulk Density Mg/m³ ▲

1.4 1.6 1.8 2

PLASTIC LIMIT WATER CONTENT(%) LIQUID LIMIT

20 40 60 80

SPECIAL TESTS

UNIT

DEPTH (m)

DEPTH (ft)

DRILL RIG: SONIC
DRILL SHIP: CANMAR SUPPLIER VII
WATER DEPTH: 28.6m
ORIGINAL BOREHOLE NUMBER - 80-32

SAMPLE TYPE

 THIN W. TUBE
 NO. RECOV.
 SPLIT SPOON

	HEAVY W.TUBE
	VIBRO CORE
	GRAB

EBA ENGINEERING CONSULTANTS LTD. EDMONTON ALBERTA
DRAWING NUMBER

BOREHOLE
NUMBER
KS80-32

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BOREHOLE LOG AND LABORATORY TEST RESULTS

BORROW RECONNAISSANCE - SOUTH KAGLULIK DOME PETROLEUM LTD.					EBA # 101-2968 N7812177 E421912 Z9		Bulk Density Mg/m ³ ▲ 1.4 1.6 1.8 2				SPECIAL TESTS	UNIT	DEPTH (ft)
SAMPLE			SOIL DESCRIPTION	GROUND ICE DESCRIPTION	TEMP C	PLASTIC LIMIT	WATER CONTENT (%)	LIQUID LIMIT					
TYP	NO.	Q											
			SILT (ml) - (cont'd)	UNFROZEN									33
			SAND (sm) - trace silt, fine grained, uniform										
			END OF BOREHOLE at 10.7m										35
													36
													37
													38
													39
													40
													41
													42
													43
													44
													45
													46
													47
													48
													49
													50
													51
													52
													53
													54
													55
													56
													57
													58
													59
													60
													61
													62
													63
													64
													65

DRILL RIG: SONIC
 DRILL SHIP: CANMAR SUPPLIER VII
 WATER DEPTH: 28.6m
 ORIGINAL BOREHOLE NUMBER - 80-32

SAMPLE TYPE

☐

 THIN W. TUBE

☐

 NO. RECOV.

☐

 SPLIT SPOON

☐

 HEAVY W.TUBE

☐

 VIBRO CORE

☒

 GRAB

EBA ENGINEERING CONSULTANTS LTD.
 EDMONTON ALBERTA
 DRAWING NUMBER

BOREHOLE NUMBER
 KS80-32
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BOREHOLE LOG AND LABORATORY TEST RESULTS

BORROW RECONNAISSANCE - SOUTH KAGLULIK DOME PETROLEUM LTD.				EBA # 101-2968 N7815043 E428449 Z9		Bulk Density Mg/m ³ ▲ 1.4 1.6 1.8 2				SPECIAL TESTS	UNIT
SAMPLE		SOIL DESCRIPTION	GROUND ICE DESCRIPTION	TEMP C	PLASTIC LIMIT	WATER CONTENT (%)	LIQUID LIMIT	DEPTH (m)	DEPTH (ft)		
TYP	NO. Q									20	40
0		CLAY (cl) - trace of sand and organics, very soft, grey	UNFROZEN								0
		SAND (SP-SM) - trace of silt, fine grained, uniform									1
1											2
											3
											4
2		CLAY (cl) - some organics, stiff, black									5
		- silty, hard, grey, oxide inclusion									6
		SAND (SP-SM) - some silt, fine grained, uniform, dark grey									7
											8
		- trace of silt and clay, fine grained, uniform, brown									9
											10
		- 25mm organic layer									11
		- light grey									12
		SILT (ml) and ORGANICS (ol) - mixture of silt and decaying vegetation, dry, friable									13
											14
		SAND (sm) - some silt, fine grained, uniform, grey									15
											16
		- silty, very fine grained, uniform, brown									17
											18
											19
											20
											21
											22
											23
											24
											25
											26
											27
											28
											29
			UNFROZEN								30
		END OF BOREHOLE at 9.2m									31
											32

DRILL RIG: SONIC DRILL SHIP: CANMAR SUPPLIER VII WATER DEPTH: 23.1m ORIGINAL BOREHOLE NUMBER - 80-33	SAMPLE TYPE THIN W. TUBE NO. RECOV. SPLIT SPOON HEAVY W. TUBE VIBRO CORE GRAB	EBA ENGINEERING CONSULTANTS LTD. EDMONTON ALBERTA DRAWING NUMBER	BOREHOLE NUMBER KS80-33
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BOREHOLE LOG AND LABORATORY TEST RESULTS

BORROW RECONNAISSANCE - SOUTH KAGLULIK DOME PETROLEUM LTD.				EBA # 101-2968 N77B1338 E414561 Z9		Bulk Density Mg/m ³ ▲ 1.4 1.6 1.8 2			SPECIAL TESTS	UNIT	DEPTH (ft)
SAMPLE		SOIL DESCRIPTION	GROUND ICE DESCRIPTION	TEMP C	PLASTIC LIMIT	WATER CONTENT (%)	LIQUID LIMIT				
TYP	NO. Q										
0											0
		CLAY (cl) - silty, low plasticity, dark grey	UNFROZEN								1
											2
											3
1											4
											5
											6
2											7
											8
											9
3											10
											11
											12
		- sandy, silty									13
4		SAND (SP-SM) - trace silt, uniform, fine grained, dark greyish brown									14
		- brown									15
5			UNFROZEN								16
											17
											18
6		END OF BOREHOLE at 5.8m									19
											20
											21
											22
											23
											24
											25
											26
											27
											28
											29
											30
											31
10											32

DRILL RIG: SONIC
 DRILL SHIP: CANMAR SUPPLIER VII
 WATER DEPTH: 16.5m
 ORIGINAL BOREHOLE NUMBER - 80-34

SAMPLE TYPE

☐ THIN W. TUBE	☐ HEAVY W. TUBE
☐ NO. RECOV.	☐ VIBRO CORE
☐ SPLIT SPOON	☐ GRAB

EBA ENGINEERING CONSULTANTS LTD.
 EDMONTON ALBERTA
 DRAWING NUMBER

BOREHOLE NUMBER
 KS80-34

BOREHOLE LOG AND LABORATORY TEST RESULTS

BORROW RECONNAISSANCE - SOUTH KAGLULIK DOME PETROLEUM LTD.				EBA # 101-2968 N7794101 E425837 Z9						SPECIAL TESTS	UNIT	
SAMPLE			SOIL DESCRIPTION	GROUND ICE DESCRIPTION	TEMP C	Bulk Density Mg/m ³ ▲ 1.4 1.6 1.8 2 PLASTIC LIMIT WATER CONTENT (%) LIQUID LIMIT 20 40 60 80						
DEPTH (m)	TYP	NO.	Q									DEPTH (ft)
0	X			CLAY (cl) - silty, low plasticity, dark grey, clayey sand layer (50mm) at 0.5m	UNFROZEN							0
1	X			SAND (SP-SM) - some silt, fine grained, uniform, brown								1
2	X			- grey								2
3	X			- brown, homogeneous								3
4	X											4
5	X			- 5mm clay lense								5
6	X			- 5mm clay lense								6
7	X			- 300mm clay layer	UNFROZEN							7
8				END OF BOREHOLE at 7.5m								8
9												9
10												10

DRILL RIG: SONIC
 DRILL SHIP: CANMAR SUPPLIER VII
 WATER DEPTH: 15.3m
 ORIGINAL BOREHOLE NUMBER - 80-35

SAMPLE TYPE

THIN W. TUBE
 NO. RECOV.
 SPLIT SPOON

HEAVY W. TUBE
 VIBRO CORE
 GRAB

EBA ENGINEERING CONSULTANTS LTD.
 EDMONTON ALBERTA
 DRAWING NUMBER

BOREHOLE NUMBER
 KS80-35

BOREHOLE LOG AND LABORATORY TEST RESULTS

BORROW RECONNAISSANCE - SOUTH KAGLULIK DOME PETROLEUM LTD.				EBA # 101-2968 N7818771 E429700 Z9		Bulk Density Mg/m^3 ▲ 1.4 1.6 1.8 2				SPECIAL TESTS	UNIT
SAMPLE		SOIL DESCRIPTION	GROUND ICE DESCRIPTION	TEMP C	PLASTIC LIMIT	WATER CONTENT (%)	LIQUID LIMIT				
TYP	NO. Q										
0	W	CLAY (cl) - silty, trace fine sand, dark grey	UNFROZEN								0
		SAND (SP) - trace silt, fine grained, uniform, brown									1
1	W										2
											3
2	W										4
		- dark grey									5
3	W										6
		- peat layer (100mm)									7
		- light brown, trace silt									8
4	W										9
		- some silt, dark grey									10
5	W										11
		- light brown, some silt (SM)									12
6	W		UNFROZEN								13
											14
7		END OF BOREHOLE at 6.9m									15
											16
8											17
											18
9											19
											20
10											21
											22
											23
											24
											25
											26
											27
											28
											29
											30
											31
											32

DRILL RIG: SONIC
 DRILL SHIP: CANMAR SUPPLIER VII
 WATER DEPTH: 22.6m
 ORIGINAL BOREHOLE NUMBER - 80-36

SAMPLE TYPE

THIN W. TUBE	HEAVY W. TUBE
NO. RECOV.	VIBRO CORE
SPLIT SPOON	GRAB

EBA ENGINEERING CONSULTANTS LTD.
 EDMONTON ALBERTA
 DRAWING NUMBER

BOREHOLE NUMBER
 KS80-36

BOREHOLE LOG AND LABORATORY TEST RESULTS