

EBA Engineering Consultants Ltd.

Civil, Geotechnical and Materials Engineers

Volume VII

COMPILATION OF BOREHOLE LOGS FOR THE
BEAUFORT SEA

ESSO Resources Canada Ltd. 1976

0306-34413

May, 1988



D001904



Volume VII

COMPILATION OF BOREHOLE LOGS FOR THE
BEAUFORT SEA

ESSO Resources Canada Ltd. 1976

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ESSO RESOURCES CANADA LTD.

<u>APPENDIX</u>	<u>YEAR OF STUDY</u>	<u>CONSULTANT</u>	<u>CONSULTANT'S JOB NO.</u>
	1976	EBA	1-1330 Part I and Part II

1976 BORROW INVENTORY TUFT POINT IMPERIAL OIL LIMITED				EBA # 1-1330 N7736180 E591460 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) - soft, grey	UNFROZEN								0	
1			SAND (SP-SM) - fine, some to trace of silt										1
2													2
3			- trace of silt (SP)										3
4													4
5													5
6													6
7					UNFROZEN								7
8													8
9			END OF BOREHOLE at 8.4m										9
10												10	
11												11	
12												12	
13												13	
14												14	
15												15	

DRILL RIG - BECKER DRILL
 DRILLED FROM ICE
 WATER DEPTH - 6.7m
 ORIGINAL BOREHOLE NUMBER - 76-19

SAMPLE TYPE

THIN W. TUBE	PISTON
NO RECOVERY	CORE
SPLIT SPOON	GRAB

EBA ENGINEERING CONSULTANTS LTD.
 EDMONTON ALBERTA
 DRAWING NUMBER

BOREHOLE NUMBER
 76-19

BOREHOLE LOG AND LABORATORY TEST RESULTS

1976 BORROW INVENTORY TUFT POINT IMPERIAL OIL LIMITED				EBA # 1-1330 N7736500 E591500 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) - trace gravel, cohesive, grey									0
1			SILT (ml) - trace sand									1
2			No Recovery - offers resistance to drill									2
3			SAND (sm) - some silt, fine, uniform, brown									3
4			- trace silt (sp), fine, uniform, brown									4
5												5
6												6
7												7
8												8
9												9
10												10
11												11
12												12
13												13
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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 - BECKER DRILL
 DRILLED FROM ICE
 WATER DEPTH - 7.1m
 ORIGINAL BOREHOLE NUMBER - 76-171

SAMPLE TYPE

THIN W. TUBE	PISTON
NO RECOVERY	CORE
SPLIT SPOON	GRAB

EBA ENGINEERING CONSULTANTS LTD.
 EDMONTON ALBERTA
 DRAWING NUMBER

BOREHOLE NUMBER
 76-171
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BOREHOLE LOG AND LABORATORY TEST RESULTS

1976 BORROW INVENTORY TUFT POINT IMPERIAL OIL LIMITED				EBA # 1-1330 N7736500 E591500 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										
			SAND (sp) - (cont'd)									50
												51
												52
												53
												54
												55
												56
												57
												58
												59
												60
												61
			- (SP)	UNFROZEN								62
												63
												64
												65
												66
												67
												68
												69
												70
												71
												72
			- trace of gravel									73
												74
												75
												76
												77
												78
												79
												80
												81
												82
												83
												84
												85
												86
												87
												88
												89
			END OF BOREHOLE at 27.3m									90
												91
												92
												93
												94
												95
												96
												97
												98

DRILL RIG -- BECKER DRILL
 DRILLED FROM ICE
 WATER DEPTH -- 7.1m
 ORIGINAL BOREHOLE NUMBER -- 76-171

SAMPLE TYPE

THIN W. TUBE	PISTON
NO RECOVERY	CORE
SPLIT SPOON	GRAB

EBA ENGINEERING CONSULTANTS LTD.
 EDMONTON ALBERTA
 DRAWING NUMBER

BOREHOLE NUMBER
 76-171
 PAGE 2 OF 2

BOREHOLE LOG AND LABORATORY TEST RESULTS

1976 BORROW INVENTORY TUFT POINT IMPERIAL OIL LIMITED				EBA # 1-1330 N7736000 E591500 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-GRAVEL (sm-gm) - trace silt, grey	UNFROZEN									0	
1		SAND (SP) - trace silt, trace gravel, fine, brown											1
2													2
3													3
4													4
5													5
6													6
7													7
8													8
9													9
10													10
11													11
12													12
13		END OF BOREHOLE at 12.8m										13	
14												14	
15												15	

DRILL RIG - BECKER DRILL
 DRILLED FROM ICE
 WATER DEPTH - 6.7m
 ORIGINAL BOREHOLE NUMBER - 76-172

SAMPLE TYPE

THIN W. TUBE	PISTON
NO RECOVERY	CORE
SPLIT SPOON	GRAB

EBA ENGINEERING CONSULTANTS LTD.
 EDMONTON ALBERTA
 DRAWING NUMBER

BOREHOLE NUMBER
 76-172

BOREHOLE LOG AND LABORATORY TEST RESULTS

1976 BORROW INVENTORY TUFT POINT IMPERIAL OIL LIMITED				EBA # 1-1330 N7738500 E592000 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 (sm) - some silt, some gravel, grey brown	UNFROZEN								0
1			SILT-SAND (ml) - some gravel, grey, dense hard drilling									1
2												2
3												3
4			SAND (sm) - some silt, fine uniform, grey brown									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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				46								
				47								
				48								
				49								

DRILL RIG - BECKER DRILL
 DRILLED FROM ICE
 WATER DEPTH - 4.6m
 ORIGINAL BOREHOLE NUMBER - 76-174

SAMPLE TYPE

☐ THIN W. TUBE

☐ NO RECOVERY

☐ SPLIT SPOON

☐ PISTON

☐ CORE

☒ GRAB

EBA ENGINEERING CONSULTANTS LTD.
 EDMONTON ALBERTA
 DRAWING NUMBER

BOREHOLE NUMBER
 76-174
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BOREHOLE LOG AND LABORATORY TEST RESULTS

1976 BORROW INVENTORY TUFT POINT IMPERIAL OIL LIMITED				EBA # 1-1330 N7736500 E592000 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			SAND (SP) - (cont'd)									50
			END OF BOREHOLE at 15.4m									51
16			NOTE: UTM COORDINATES ARE ESTIMATED									52
												53
												54
												55
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												57
												58
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												96
												97
												98

DRILL RIG - BECKER DRILL
 DRILLED FROM ICE
 WATER DEPTH - 4.6m
 ORIGINAL BOREHOLE NUMBER - 76-174

SAMPLE TYPE

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

EBA ENGINEERING CONSULTANTS LTD.
 EDMONTON ALBERTA
 DRAWING NUMBER

BOREHOLE NUMBER
 76-174
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BOREHOLE LOG AND LABORATORY TEST RESULTS

1976 BORROW INVENTORY TUFT POINT IMPERIAL OIL LIMITED				EBA # 1-1330 N7736000 E592000 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												0
		SAND-GRAVEL (SM) - some silt, well graded, grey	UNFROZEN									1
1												2
												3
2		SAND (sp-sm) - trace silt, fine uniform, brown										4
												5
3												6
												7
4												8
												9
5												10
												11
6												12
												13
7												14
												15
8												16
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												47
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												49

DRILL RIG - BECKER DRILL
 DRILLED FROM ICE
 WATER DEPTH - 5.8m
 ORIGINAL BOREHOLE NUMBER - 76-175

SAMPLE TYPE

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

EBA ENGINEERING CONSULTANTS LTD.
 EDMONTON ALBERTA
 DRAWING NUMBER

BOREHOLE NUMBER
 76-175

BOREHOLE LOG AND LABORATORY TEST RESULTS

1976 BORROW INVENTORY TUFT POINT IMPERIAL OIL LIMITED				EBA # 1-1330 N7736500 E592000 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		- thin layer										0
		SAND (SP) - trace silt, fine uniform, brown, fine gravel lens at 1.4m										1
1												2
2												3
3												4
4												5
5												6
6	X		UNFROZEN									7
7												8
8												9
9												10
10												11
11												12
12												13
13												14
14		END OF BOREHOLE at 13.4m										15
15												16
												17
												18
												19
												20
												21
												22
												23
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												41
												42
												43
												44
												45
												46
												47
												48
												49

DRILL RIG - BECKER DRILL
 DRILLED FROM ICE
 WATER DEPTH - 6.6m
 ORIGINAL BOREHOLE NUMBER - 76-176

SAMPLE TYPE

THIN W. TUBE	PISTON
NO RECOVERY	CORE
SPLIT SPOON	GRAB

EBA ENGINEERING CONSULTANTS LTD.
 EDMONTON ALBERTA
 DRAWING NUMBER

BOREHOLE NUMBER
 76-176

BOREHOLE LOG AND LABORATORY TEST RESULTS

1976 BORROW INVENTORY TUFT POINT IMPERIAL OIL LIMITED				EBA # 1-1330 N7736250 E591755 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-SM) - trace silt, trace gravel, brown, fine, uniform									0
1				UNFROZEN								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
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												39
												40
												41
												42
												43
												44
												45
												46
												47
												48
												49

DRILL RIG - BECKER DRILL
 DRILLED FROM ICE
 WATER DEPTH - 6.5m
 ORIGINAL BOREHOLE NUMBER - 76-177

SAMPLE TYPE

THIN W. TUBE

NO RECOVERY

SPLIT SPOON

PISTON

CORE

GRAB

EBA ENGINEERING CONSULTANTS LTD.
 EDMONTON ALBERTA
 DRAWING NUMBER

BOREHOLE NUMBER
 76-177

BOREHOLE LOG AND LABORATORY TEST RESULTS

1976 BORROW INVENTORY TUFT POINT IMPERIAL OIL LIMITED				EBA # 1-1330 N7736250 E592000 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											
			SAND (sp) - trace silt, trace gravel fine, grey brown	UNFROZEN								0	
			SAND and GRAVEL (SP) - trace of silt, fine, gap graded, brown										1
			SAND (SP) - trace silt, fine uniform, brown										2
				UNFROZEN								3	
													4
													5
													6
													7
													8
													9
													10
													11
													12
				UNFROZEN								13	
													14
													15
													16
													17
													18
													19
													20
													21
													22
				UNFROZEN								23	
													24
													25
													26
													27
													28
													29
													30
													31
													32
				UNFROZEN								33	
													34
													35
													36
													37
													38
													39
													40
													41
													42
				UNFROZEN								43	
													44
													45
													46
													47
													48
													49

DEPTH (m)

0

1

2

3

4

5

6

7

8

9

10

11

12

13

14

15

DEPTH (ft)

0

1

2

3

4

5

6

7

8

9

10

11

12

13

14

15

16

17

18

19

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44

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48

49

DRILL RIG - BECKER DRILL

DRILLED FROM ICE

WATER DEPTH - 6.3m

ORIGINAL BOREHOLE NUMBER - 76-182

SAMPLE TYPE

THIN W. TUBE

NO RECOVERY

SPLIT SPOON

PISTON

CORE

GRAB

EBA ENGINEERING CONSULTANTS LTD.

EDMONTON ALBERTA

DRAWING NUMBER

BOREHOLE NUMBER

76-182

BOREHOLE LOG AND LABORATORY TEST RESULTS

1976 BORROW INVENTORY TUFT POINT IMPERIAL OIL LIMITED				EBA # 1-1330 N7736250 E591880 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 (sm) - trace silt, trace gravel, fine, brown, uniform	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
			END OF BOREHOLE at 14.0m									16
												17
												18
												19
												20
												21
												22
												23
												24
												25
												26
												27
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												47
												48
												49

DRILL RIG - BECKER DRILL
 DRILLED FROM ICE
 WATER DEPTH - 6.0m
 ORIGINAL BOREHOLE NUMBER - 76-183

SAMPLE TYPE

THIN W. TUBE
 NO RECOVERY
 SPLIT SPOON

PISTON
 CORE
 GRAB

EBA ENGINEERING CONSULTANTS LTD.
 EDMONTON ALBERTA
 DRAWING NUMBER

BOREHOLE NUMBER
 76-183

BOREHOLE LOG AND LABORATORY TEST RESULTS

1976 BORROW INVENTORY TUFT POINT IMPERIAL OIL LIMITED				EBA # 1-1330 N7736000 E591755 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												0
1		SAND (SP-SM) - some silt and gravel, grey brown										1
2			UNFROZEN									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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												49

DRILL RIG - BECKER DRILL
 DRILLED FROM ICE
 WATER DEPTH - 6.2m
 ORIGINAL BOREHOLE NUMBER - 76-184

SAMPLE TYPE

☐ THIN W. TUBE

☐ NO RECOVERY

☐ SPLIT SPOON

☐ PISTON

☐ CORE

☒ GRAB

EBA ENGINEERING CONSULTANTS LTD.
 EDMONTON ALBERTA
 DRAWING NUMBER

BOREHOLE NUMBER
 76-184

BOREHOLE LOG AND LABORATORY TEST RESULTS

1976 BORROW INVENTORY TUFT POINT IMPERIAL OIL LIMITED				EBA # 1-1330 N7736750 E591760 Z8		Bulk Density Mg/m ³ ▲ 1.4 1.8 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) - some sand, some gravel, grey, clay layers,	UNFROZEN							
1											
2											
3			SILT (ml) - trace fine sand, grey, non cohesive								
4											
5											
6											
7			SAND (sp-sm) - trace silt, fine, uniform								
8											
9											
10											
11			END OF BOREHOLE at 10.5m								
12											
13											
14											
15											

DRILL RIG - BECKER DRILL
 DRILLED FROM ICE
 WATER DEPTH - 7.0m
 ORIGINAL BOREHOLE NUMBER - 76-185

SAMPLE TYPE

THIN W. TUBE

NO RECOVERY

SPLIT SPOON

PISTON

CORE

GRAB

EBA ENGINEERING CONSULTANTS LTD.
 EDMONTON ALBERTA
 DRAWING NUMBER

BOREHOLE NUMBER
 76-185

BOREHOLE LOG AND LABORATORY TEST RESULTS

1976 BORROW INVENTORY TUFT POINT IMPERIAL OIL LIMITED				EBA # 1-1330 N7736500 E591250 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) – trace sand, non cohesive, grey	UNFROZEN								0
1			– hard layer between 0.9 to 1.2m									1
2												2
3												3
4												4
5			SAND (sm) – silty, grey brown									5
6												6
7			– trace silt, fine, uniform, brown									7
8												8
9												9
10												10
11												11
12												12
13												13
14												14
15			NOTE: END OF BORHOLE at 15.1m									15

DRILL RIG – BECKER DRILL
 DRILLED FROM ICE
 WATER DEPTH – 7.1m
 ORIGINAL BOREHOLE NUMBER – 76-186

SAMPLE TYPE

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

EBA ENGINEERING CONSULTANTS LTD.
 EDMONTON ALBERTA
 DRAWING NUMBER

BOREHOLE NUMBER
 76-186

BOREHOLE LOG AND LABORATORY TEST RESULTS

1976 BORROW INVENTORY TUFT POINT IMPERIAL OIL LIMITED				EBA # 1-1330 N7736750 E592500 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									
0			SILT (ml) - and sand, some gravel, brown								0
1											1
2			SAND (sm) - silty, fine, brown								2
3											3
4			- trace silt (SP), uniform								4
5											5
6			- thin gravel beds between 3.7 to 5.8m								6
7											7
8											8
9											9
10											10
11											11
12											12
13											13
14			END OF BOREHOLE at 13.5m								14
15											15

DRILL RIG - BECKER DRILL
 DRILLED FROM ICE
 WATER DEPTH - 6.5m
 ORIGINAL BOREHOLE NUMBER - 76-187

SAMPLE TYPE

THIN W. TUBE

NO RECOVERY

SPLIT SPOON

PISTON

CORE

GRAB

EBA ENGINEERING CONSULTANTS LTD.
 EDMONTON ALBERTA
 DRAWING NUMBER

BOREHOLE NUMBER
 76-187

BOREHOLE LOG AND LABORATORY TEST RESULTS

1976 BORROW INVENTORY TUFT POINT IMPERIAL OIL LIMITED				EBA # 1-1330 N7736750 E592250 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) - some sand and gravel, few grey clay layers,	UNFROZEN								0
1												1
2			SAND (sp-sm) - trace silt, fine uniform, brown									2
3												3
4												4
5			- few thin gravel layers									5
6												6
7												7
8												8
9												9
10												10
11												11
12												12
13												13
14			END OF BOREHOLE at 13.5m									14
15												15

DRILL RIG - BECKER DRILL
 DRILLED FROM ICE
 WATER DEPTH - 6.5m
 ORIGINAL BOREHOLE NUMBER - 76-191

SAMPLE TYPE

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

EBA ENGINEERING CONSULTANTS LTD.
 EDMONTON ALBERTA
 DRAWING NUMBER

BOREHOLE NUMBER
 76-191

BOREHOLE LOG AND LABORATORY TEST RESULTS

1976 BORROW INVENTORY TUFT POINT IMPERIAL OIL LIMITED				EBA # 1-1330 N7736500 E592250 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 (sm) - some silt and gravel, brown	UNFROZEN									0
1		SILT (ml) - some sand and fine gravel, brown										1
2		SAND (sm) - some silt, fine, uniform, brown										2
3		- trace silt (sp-sm)										3
4												4
5												5
6												6
7												7
8												8
9												9
10			UNFROZEN									10
11												11
12												12
13												13
14		END OF BOREHOLE at 14.15m										14
15												15

DRILL RIG - BECKER DRILL
 DRILLED FROM ICE
 WATER DEPTH - 5.9m
 ORIGINAL BOREHOLE NUMBER - 76-192

SAMPLE TYPE

☐ THIN W. TUBE

☐ NO RECOVERY

☐ SPLIT SPOON

☐ PISTON

☐ CORE

☐ GRAB

EBA ENGINEERING CONSULTANTS LTD.
 EDMONTON ALBERTA
 DRAWING NUMBER

BOREHOLE NUMBER
 76-192

BOREHOLE LOG AND LABORATORY TEST RESULTS

1976 BORROW INVENTORY TUFT POINT IMPERIAL OIL LIMITED				EBA # 1-1330 N7736250 E592250 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) - some gravel, trace silt, fine, uniform, 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												12
13												13
14			14									
15			15									
			16									
			17									
			18									
			19									
			20									
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			37									
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			40									
			41									
			42									
			43									
			44									
			45									
			46									
			47									
			48									
			49									

DRILL RIG - BECKER DRILL
 DRILLED FROM ICE
 WATER DEPTH - 5.7m
 ORIGINAL BOREHOLE NUMBER - 76-193

SAMPLE TYPE

THIN W. TUBE

NO RECOVERY

SPLIT SPOON

PISTON

CORE

GRAB

EBA ENGINEERING CONSULTANTS LTD.
 EDMONTON ALBERTA
 DRAWING NUMBER

BOREHOLE NUMBER
76-193

BOREHOLE LOG AND LABORATORY TEST RESULTS

1976 BORROW INVENTORY TUFT POINT IMPERIAL OIL LIMITED				EBA # 1-1330 N7736000 E592250 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 (cl) - black, organic	UNFROZEN								0
			SILT (ml) - trace sand, grey									1
1												2
												3
2			SAND-SILT (sm) - fine, grey									4
												5
3												6
			SAND (sm) - some silt, fine, uniform, brown									7
4												8
												9
5			SILT (ml) - some sand, grey									10
												11
6												12
												13
7			END OF BOREHOLE at 7.1m									14
												15
8												16
												17
9												18
												19
10												20
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11												22
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12												24
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13												26
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14												28
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15												30
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												45
												46
												47
												48
												49

DRILL RIG - BECKER DRILL
 DRILLED FROM ICE
 WATER DEPTH - 5.5m
 ORIGINAL BOREHOLE NUMBER - 76-194

SAMPLE TYPE

THIN W. TUBE	PISTON
NO RECOVERY	CORE
SPLIT SPOON	GRAB

EBA ENGINEERING CONSULTANTS LTD.
 EDMONTON ALBERTA
 DRAWING NUMBER

BOREHOLE NUMBER
 76-194

BOREHOLE LOG AND LABORATORY TEST RESULTS

1976 BORROW INVENTORY TUFT POINT IMPERIAL OIL LIMITED				EBA # 1-1330 N7736750 E592000 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 (sm) some silt and gravel, fine, uniform, brown									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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												44
												45
												46
												47
												48
												49

DRILL RIG — BECKER DRILL
 DRILLED FROM ICE
 WATER DEPTH — 6.5m
 ORIGINAL BOREHOLE NUMBER — 76-195

SAMPLE TYPE

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

EBA ENGINEERING CONSULTANTS LTD.
 EDMONTON ALBERTA
 DRAWING NUMBER

BOREHOLE NUMBER
 76-195

BOREHOLE LOG AND LABORATORY TEST RESULTS

1976 BORROW INVENTORY TUFT POINT IMPERIAL OIL LIMITED				EBA # 1-1330 N7736500 E591760 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) - trace sand, some gravel, non cohesive, grey	UNFROZEN								0	
1			SAND (sm) - some silt, fine, uniform, brown										1
2			SAND (SP) - trace silt, fine uniform, brown										2
3													3
4													4
5													5
6													6
7													7
8													8
9													9
10													10
11													11
12													12
13			END OF BOREHOLE at 13.0m									13	
14												14	
15												15	

DRILL RIG - BECKER DRILL
 DRILLED FROM ICE
 WATER DEPTH - 7.1m
 ORIGINAL BOREHOLE NUMBER - 76-196

SAMPLE TYPE

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

EBA ENGINEERING CONSULTANTS LTD.
 EDMONTON ALBERTA
 DRAWING NUMBER

BOREHOLE NUMBER
 76-196

BOREHOLE LOG AND LABORATORY TEST RESULTS

1976 BORROW INVENTORY TUFT POINT IMPERIAL OIL LIMITED				EBA # 1-1330 N7736370 E592130 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 (sm) – some silt, trace gravel, grey 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												12
13												13
14												14
15												15
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												43
												44
												45
												46
												47
												48
												49

DEPTH (m)

0

1

2

3

4

5

6

7

8

9

10

11

12

13

14

15

SOIL DESCRIPTION

– trace silt (sm), fine, uniform, brown

– silt content decreases at 2.9m

– trace of organics

END OF BOREHOLE at 13.6m

GROUND ICE DESCRIPTION

UNFROZEN

TEMP C

PLASTIC LIMIT

WATER CONTENT(%)

LIQUID LIMIT

SPECIAL TESTS

UNIT

DRILL RIG – BECKER DRILL

DRILLED FROM ICE

WATER DEPTH – 6.4m

ORIGINAL BOREHOLE NUMBER – 76-203

SAMPLE TYPE

THIN W. TUBE

NO RECOVERY

SPLIT SPOON

PISTON

CORE

GRAB

EBA ENGINEERING CONSULTANTS LTD.

EDMONTON ALBERTA

DRAWING NUMBER

BOREHOLE NUMBER

76-203

BOREHOLE LOG AND LABORATORY TEST RESULTS

1976 BORROW INVENTORY TUFT POINT IMPERIAL OIL LIMITED				EBA # 1-1330 N7736630 E592130 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-GRAVEL (GP) - trace silt, fairly well graded, grey brown	UNFROZEN								0	
1	X												1
2			SAND (sp) - trace silt, fine, brown										2
3													3
4													4
5													5
6													6
7													7
8													8
9													9
10													10
11			END OF BOREHOLE at 11.0m									11	
12												12	
13												13	
14												14	
15												15	

DRILL RIG - BECKER DRILL
 DRILLED FROM ICE
 WATER DEPTH - 6.5m
 ORIGINAL BOREHOLE NUMBER - 76-204

SAMPLE TYPE

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

EBA ENGINEERING CONSULTANTS LTD.
 EDMONTON ALBERTA
 DRAWING NUMBER

BOREHOLE NUMBER
 76-204

BOREHOLE LOG AND LABORATORY TEST RESULTS

1976 BORROW INVENTORY TUFT POINT IMPERIAL OIL LIMITED				EBA # 1-1330 N7736630 E591880 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) – some sand and gravel, grey										0
1			– resistance offered to drill										1
2			SAND (SP-SM) – trace silt, fine, uniform, brown										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
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21													21
22													22
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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 – BECKER DRILL
 DRILLED FROM ICE
 WATER DEPTH – 7.1m
 ORIGINAL BOREHOLE NUMBER – 76-208

SAMPLE TYPE

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

EBA ENGINEERING CONSULTANTS LTD.
 EDMONTON ALBERTA
 DRAWING NUMBER

BOREHOLE NUMBER
 76-208
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BOREHOLE LOG AND LABORATORY TEST RESULTS

1976 BORROW INVENTORY TUFT POINT IMPERIAL OIL LIMITED				EBA # 1-1330 N7736630 E591880 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										
			SAND (SP-SM) - (cont'd)									50
												51
												52
												53
												54
												55
												56
												57
												58
												59
												60
												61
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												91
												92
												93
												94
												95
												96
												97
												98
			END OF BOREHOLE at 22.8m									

DRILL RIG - BECKER DRILL
 DRILLED FROM ICE
 WATER DEPTH - 7.1m
 ORIGINAL BOREHOLE NUMBER - 76-208

SAMPLE TYPE

THIN W. TUBE
 NO RECOVERY
 SPLIT SPOON

PISTON
 CORE
 GRAB

EBA ENGINEERING CONSULTANTS LTD.
 EDMONTON ALBERTA
 DRAWING NUMBER

BOREHOLE NUMBER
 76-208
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BOREHOLE LOG AND LABORATORY TEST RESULTS

1976 BORROW INVENTORY TUFT POINT IMPERIAL OIL LIMITED				EBA # 1-1330 N7736370 E591880 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												0
1		SAND (sm) - some silt, gravel, fine, uniform, brown										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
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												40
												41
												42
												43
												44
												45
												46
												47
												48
												49

DRILL RIG - BECKER DRILL
 DRILLED FROM ICE
 WATER DEPTH - 6.5m
 ORIGINAL BOREHOLE NUMBER - 76-209

SAMPLE TYPE

THIN W. TUBE	PISTON
NO RECOVERY	CORE
SPLIT SPOON	GRAB

EBA ENGINEERING CONSULTANTS LTD.
 EDMONTON ALBERTA
 DRAWING NUMBER

BOREHOLE NUMBER
 76-209
 PAGE 1 OF 2

BOREHOLE LOG AND LABORATORY TEST RESULTS

1976 BORROW INVENTORY TUFT POINT IMPERIAL OIL LIMITED				EBA # 1-1330 N7736370 E591880 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		SAND (SP) - (cont'd)										50
16												51
17												52
18	M	- silt content increase slightly, trace silt (SP-SM)	UNFROZEN									53
19												54
20												55
21												56
22												57
23												58
24												59
25												60
26												61
27												62
28												63
29												64
30												65
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												90
												91
												92
												93
												94
												95
												96
												97
												98

DRILL RIG - BECKER DRILL
 DRILLED FROM ICE
 WATER DEPTH - 6.5m
 ORIGINAL BOREHOLE NUMBER - 76-209

SAMPLE TYPE

☐ THIN W. TUBE

☐ NO RECOVERY

☐ SPLIT SPOON

☐ PISTON

☐ CORE

☒ GRAB

EBA ENGINEERING CONSULTANTS LTD.
 EDMONTON ALBERTA
 DRAWING NUMBER

BOREHOLE NUMBER
 76-209
 PAGE 2 OF 2

BOREHOLE LOG AND LABORATORY TEST RESULTS

1976 BORROW INVENTORY TUFT POINT IMPERIAL OIL LIMITED				EBA # 1-1330 N7736630 E591620 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-SAND (ml) - some gravel, grey, non cohesive	UNFROZEN								0
1												1
2			- silty clay beds at 2.2m									2
3			SAND (sm) silty, fine, uniform, grey brown									3
4												4
5			- trace silt (sp-sm), trace organics									5
6												6
7												7
8												8
9												9
10												10
11												11
12												12
13												13
14												14
15												15

DRILL RIG - BECKER DRILL
 DRILLED FROM ICE
 WATER DEPTH - 7.0m
 ORIGINAL BOREHOLE NUMBER - 76-214

SAMPLE TYPE

☐ THIN W. TUBE
☐ NO RECOVERY
☐ SPLIT SPOON

☐ PISTON
☐ CORE
☐ GRAB

EBA ENGINEERING CONSULTANTS LTD.
 EDMONTON ALBERTA
 DRAWING NUMBER

BOREHOLE NUMBER
 76-214
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BOREHOLE LOG AND LABORATORY TEST RESULTS

1976 BORROW INVENTORY TUFT POINT IMPERIAL OIL LIMITED				EBA # 1-1330 N7736630 E591620 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									
15			SAND (sp-sm) - (cont'd)								
16											
17											
18											
19											
20											
21											
22											
23											
24											
25											
26											
27											
28											
29											
30											
NOTE: END OF BOREHOLE at 30.2m											

DRILL RIG - BECKER DRILL
 DRILLED FROM ICE
 WATER DEPTH - 7.0m
 ORIGINAL BOREHOLE NUMBER - 76-214

SAMPLE TYPE

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

EBA ENGINEERING CONSULTANTS LTD.
 EDMONTON ALBERTA
 DRAWING NUMBER

BOREHOLE NUMBER
 76-214
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BOREHOLE LOG AND LABORATORY TEST RESULTS

1976 BORROW INVENTORY TUFT POINT IMPERIAL OIL LIMITED				EBA # 1-1330 N7736370 E591620 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-CLAY (ml) - trace sand, low plastic	UNFROZEN								0	
			SAND (SP) - trace silt, trace gravel, some organics, fine										1
													2
													3
													4
													5
													6
													7
													8
													9
													10
													11
													12
												13	
												14	
												15	
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												25	
												26	
												27	
												28	
												29	
												30	
												31	
												32	
												33	
												34	
												35	
												36	
												37	
												38	
												39	
												40	
												41	
												42	
												43	
												44	
												45	
												46	
												47	
												48	
												49	
END OF BOREHOLE at 13.3m													

DRILL RIG - BECKER DRILL
 DRILLED FROM ICE
 WATER DEPTH - 6.7m
 ORIGINAL BOREHOLE NUMBER - 76-215

SAMPLE TYPE

THIN W. TUBE	PISTON
NO RECOVERY	CORE
SPLIT SPOON	GRAB

EBA ENGINEERING CONSULTANTS LTD.
 EDMONTON ALBERTA
 DRAWING NUMBER

BOREHOLE NUMBER
 76-215

BOREHOLE LOG AND LABORATORY TEST RESULTS

1976 BORROW INVENTORY TUFT POINT IMPERIAL OIL LIMITED				EBA # 1-1330 N7736130 E591820 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-SAND (ml) - trace gravel, non cohesive, grey	UNFROZEN								0	
1			SAND (SM) - silty, fine, grey										1
2													2
3													3
4			- trace of silt (sp-sm), trace of gravel, fine brown										4
5													5
6													6
7													7
8													8
9													9
10													10
11													11
12													12
13			END OF BOREHOLE at 13.2m									13	
14												14	
15												15	

DRILL RIG - BECKER DRILL
 DRILLED FROM ICE
 WATER DEPTH - 6.8m
 ORIGINAL BOREHOLE NUMBER - 76-216

SAMPLE TYPE

☐ THIN W. TUBE

☐ NO RECOVERY

☐ SPLIT SPOON

☐ PISTON

☐ CORE

☒ GRAB

EBA ENGINEERING CONSULTANTS LTD.
 EDMONTON ALBERTA
 DRAWING NUMBER

BOREHOLE NUMBER
 76-216

BOREHOLE LOG AND LABORATORY TEST RESULTS

1976 BORROW INVENTORY TUFT POINT IMPERIAL OIL LIMITED				EBA # 1-1330 N7736370 E591380 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	M		SAND (SM) - silty, trace of gravel, fine grained, trace coarse sand, grey	UNFROZEN								0
1												1
2	M		- resistance offered to drill rig between 2.4 to 3.4m									2
3			- silty, fine, uniform, grey brown									3
4												4
5												5
6												6
7			- trace silt (sp-sm), fine, uniform, brown									7
8												8
9												9
10												10
11												11
12												12
13												13
14												14
15												15

DRILL RIG - BECKER DRILL
 DRILLED FROM ICE
 WATER DEPTH - 6.9m
 ORIGINAL BOREHOLE NUMBER - 76-222

SAMPLE TYPE

☐ THIN W. TUBE
☐ NO RECOVERY
☐ SPLIT SPOON

☐ PISTON
☐ CORE
☒ GRAB

EBA ENGINEERING CONSULTANTS LTD.
 EDMONTON ALBERTA
 DRAWING NUMBER

BOREHOLE NUMBER
 76-222
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BOREHOLE LOG AND LABORATORY TEST RESULTS

1976 BORROW INVENTORY TUFT POINT IMPERIAL OIL LIMITED				EBA # 1-1330 N7736370 E591380 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			SAND (sp-sm) - (cont'd)									50
16												51
17												52
18												53
19												54
20												55
21												56
22												57
23												58
24												59
25												60
26												61
27												62
28												63
29												64
30												65
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												76
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												90
												91
												92
												93
												94
												95
												96
												97
												98

DRILL RIG - BECKER DRILL
 DRILLED FROM ICE
 WATER DEPTH - 6.9m
 ORIGINAL BOREHOLE NUMBER - 76-222

SAMPLE TYPE

☐ THIN W. TUBE

☐ NO RECOVERY

☐ SPLIT SPOON

☐ PISTON

☐ CORE

☐ GRAB

EBA ENGINEERING CONSULTANTS LTD.
 EDMONTON ALBERTA
 DRAWING NUMBER

BOREHOLE NUMBER
 76-222
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BOREHOLE LOG AND LABORATORY TEST RESULTS

1976 BORROW INVENTORY TUFT POINT IMPERIAL OIL LIMITED				EBA # 1-1330 N7736370 E592000 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 (sm) - some silt, trace gravel, fine, brown									0
1												1
2			- trace silt (SP), trace gravel, fine, uniform, brown	UNFRFOZEN								2
3												3
4												4
5												5
6												6
7												7
8												8
9												9
10												10
11												11
12												12
13												13
14			END OF BOREHOLE at 13.7m									14
15												15

DRILL RIG - BECKER DRILL
 DRILLED FROM ICE
 WATER DEPTH - 6.3m
 ORIGINAL BOREHOLE NUMBER - 76-238

SAMPLE TYPE

THIN W. TUBE

NO RECOVERY

SPLIT SPOON

PISTON

CORE

GRAB

EBA ENGINEERING CONSULTANTS LTD.
 EDMONTON ALBERTA
 DRAWING NUMBER

BOREHOLE NUMBER
 76-238

BOREHOLE LOG AND LABORATORY TEST RESULTS

1976 BORROW INVENTORY TUFT POINT IMPERIAL OIL LIMITED				EBA # 1-1330 N7736370 E591760 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 (sm) - some silt and gravel, grey brown	UNFROZEN								0
1			- trace silt (sm), fine, uniform, brown									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
END OF BOREHOLE at 13.0m												16
												17
												18
												19
												20
												21
												22
												23
												24
												25
												26
												27
												28
												29
												30
												31
												32
												33
												34
												35
												36
												37
												38
												39
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												41
												42
												43
												44
												45
												46
												47
												48
												49

DRILL RIG - BECKER DRILL
 DRILLED FROM ICE
 WATER DEPTH - 7.0m
 ORIGINAL BOREHOLE NUMBER - 76-239

SAMPLE TYPE

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

EBA ENGINEERING CONSULTANTS LTD.
 EDMONTON ALBERTA
 DRAWING NUMBER

BOREHOLE NUMBER
 76-239

BOREHOLE LOG AND LABORATORY TEST RESULTS

1976 BORROW INVENTORY TUFT POINT IMPERIAL OIL LIMITED				EBA # 1-1330 N7736250 E591620 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-SAND (ml) - some gravel, non cohesive	UNFROZEN								0	
1			SAND (SP) - trace silt and gravel, fine, uniform, brown										1
2													2
3													3
4													4
5													5
6													6
7													7
8													8
9													9
10													10
11													11
12													12
13			END OF BOREHOLE at 13.0m									13	
14												14	
15												15	

DRILL RIG - BECKER DRILL
 DRILLED FROM ICE
 WATER DEPTH - 7.0m
 ORIGINAL BOREHOLE NUMBER - 76-240

SAMPLE TYPE

THIN W. TUBE	PISTON
NO RECOVERY	CORE
SPLIT SPOON	GRAB

EBA ENGINEERING CONSULTANTS LTD.
 EDMONTON ALBERTA
 DRAWING NUMBER

BOREHOLE NUMBER
 76-240

BOREHOLE LOG AND LABORATORY TEST RESULTS

1976 BORROW INVENTORY TUFT POINT IMPERIAL OIL LIMITED				EBA # 1-1330 N7738130 E591500 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) - trace silt, fine, uniform, brown									0
1	M			UNFROZEN								1
2												2
3												3
4												4
5			- trace of organics									5
6												6
7	M			UNFROZEN								7
8												8
9												9
10												10
11												11
12												12
13			END OF BOREHOLE at 13.1m									13
14												14
15												15

DRILL RIG - BECKER DRILL
 DRILLED FROM ICE
 WATER DEPTH - 6.9m
 ORIGINAL BOREHOLE NUMBER - 76-241

SAMPLE TYPE

THIN W. TUBE

NO RECOVERY

SPLIT SPOON

PISTON

CORE

GRAB

EBA ENGINEERING CONSULTANTS LTD.
 EDMONTON ALBERTA
 DRAWING NUMBER

BOREHOLE NUMBER
 76-241

BOREHOLE LOG AND LABORATORY TEST RESULTS

1976 BORROW INVENTORY TUFT POINT IMPERIAL OIL LIMITED				EBA # 1-1330 N7736630 E591380 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) – some sand, trace gravel, non cohesive, grey	UNFROZEN								0	
1			– material offers resistance to drill at 1.4m										1
2			SAND (SM) – some silt, fine, uniform, brown										2
3	M												3
4													4
5													5
6													6
7													7
8			– trace silt (sm), organics, fine, uniform, brown										8
9													9
10													10
11													11
12													12
13													13
14													14
15												15	

DRILL RIG – BECKER DRILL
 DRILLED FROM ICE
 WATER DEPTH – 7.5m
 ORIGINAL BOREHOLE NUMBER – 76-242

SAMPLE TYPE

THIN W. TUBE
 NO RECOVERY
 SPLIT SPOON

PISTON
 CORE
 GRAB

EBA ENGINEERING CONSULTANTS LTD.
 EDMONTON ALBERTA
 DRAWING NUMBER

BOREHOLE NUMBER
 76-242
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BOREHOLE LOG AND LABORATORY TEST RESULTS

1976 BORROW INVENTORY TUFT POINT IMPERIAL OIL LIMITED				EBA # 1-1330 N7736630 E591380 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			SAND (sp-sm) - (cont'd)									50
16												51
17												52
18												53
19												54
20												55
21												56
22												57
23												58
24												59
25												60
26												61
27												62
28												63
29												64
30												65
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												82
												83
												84
												85
												86
												87
												88
												89
												90
												91
												92
												93
												94
												95
												96
												97
												98
END OF BOREHOLE at 20.8m												
DRILL RIG - BECKER DRILL DRILLED FROM ICE WATER DEPTH - 7.5m ORIGINAL BOREHOLE NUMBER - 76-242				SAMPLE TYPE ☐ THIN W. TUBE ☐ PISTON ☐ NO RECOVERY ☐ CORE ☐ SPLIT SPOON ☐ GRAB				EBA ENGINEERING CONSULTANTS LTD. EDMONTON ALBERTA DRAWING NUMBER		BOREHOLE NUMBER 76-242 PAGE 2 OF 2		

BOREHOLE LOG AND LABORATORY TEST RESULTS

1976 BORROW INVENTORY TUFT POINT IMPERIAL OIL LIMITED				EBA # 1-1330 N7736570 E591440 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 (SM) - some silt, fine, uniform, grey - brown, material offer resistance to drill	UNFROZEN								0
1												1
2												2
3			END OF BOREHOLE at 3.7m	UNFROZEN								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

DRILL RIG - BECKER DRILL
 DRILLED FROM ICE
 WATER DEPTH - 7.4m
 ORIGINAL BOREHOLE NUMBER - 76-250

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

EBA ENGINEERING CONSULTANTS LTD.
 EDMONTON ALBERTA
 DRAWING NUMBER

BOREHOLE NUMBER
 76-250

BOREHOLE LOG AND LABORATORY TEST RESULTS

1976 BORROW INVENTORY DRIFT POINT IMPERIAL OIL LIMITED				EBA # 1-1330 N7749010 E386840 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-CLAY (ml) - trace sand, very soft	UNFROZEN								0	
1			SILT-SAND (ml) - black, organic										1
2			SAND-SILT (sm) - dark brown, fine										2
3												3	
4												4	
5												5	
6			END OF BOREHOLE at 6.2m									6	
7												7	
8												8	
9												9	
10												10	
11												11	
12												12	
13												13	
14												14	
15												15	

DRILL RIG - BECKER DRILL
 DRILLED FROM ICE
 WATER DEPTH - 8.8m
 ORIGINAL BOREHOLE NUMBER - 76-50

SAMPLE TYPE

THIN W. TUBE	PISTON
NO RECOVERY	CORE
SPLIT SPOON	GRAB

EBA ENGINEERING CONSULTANTS LTD.
 EDMONTON ALBERTA
 DRAWING NUMBER

BOREHOLE NUMBER
 76-50

BOREHOLE LOG AND LABORATORY TEST RESULTS

1976 BORROW INVENTORY DRIFT POINT IMPERIAL OIL LIMITED				EBA # 1-1330 N7749650 E390890 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 silt, fine									0
1				UNFROZEN								1
2			No Recovery									2
3												3
4												4
5												5
6												6
7			- trace silt (SP), trace gravel, fine to medium	UNFROZEN								7
8												8
9												9
10												10
11												11
12			END OF BOREHOLE at 11.5m									12
13												13
14												14
15												15

DRILL RIG - BECKER DRILL
 DRILLED FROM ICE
 WATER DEPTH - 5.9m
 ORIGINAL BOREHOLE NUMBER - 76-51

SAMPLE TYPE

THIN W. TUBE	PISTON
NO RECOVERY	CORE
SPLIT SPOON	GRAB

EBA ENGINEERING CONSULTANTS LTD.
 EDMONTON ALBERTA
 DRAWING NUMBER

BOREHOLE NUMBER
 76-51

BOREHOLE LOG AND LABORATORY TEST RESULTS

1976 BORROW INVENTORY DRIFT POINT IMPERIAL OIL LIMITED				EBA # 1-1330 N7748330 E390420 Z9		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												
0			SAND (SP) - fine, trace silt, brown	UNFROZEN								0		
1													1	
2			- trace silt (SP), trace gravel, fine to medium										2	
3													3	
4													4	
5			- fine, trace to some silt										5	
6			SAND-SILT (sm) - brown, fine										6	
7			SAND (SP) - gravel layers, fine to medium, some gravel		UNFROZEN								7	
8														8
9														9
10													10	
11													11	
12													12	
13			SAND-SILT (sm)										13	
14			END OF BOREHOLE at 13.4m										14	
15													15	

DRILL RIG - BECKER DRILL
 DRILLED FROM ICE
 WATER DEPTH - 6.4m
 ORIGINAL BOREHOLE NUMBER - 76-52

SAMPLE TYPE

THIN W. TUBE	PISTON
NO RECOVERY	CORE
SPLIT SPOON	GRAB

EBA ENGINEERING CONSULTANTS LTD.
 EDMONTON ALBERTA
 DRAWING NUMBER

BOREHOLE NUMBER
 76-52

BOREHOLE LOG AND LABORATORY TEST RESULTS

1976 BORROW INVENTORY DRIFT POINT IMPERIAL OIL LIMITED				EBA # 1-1330 N7750050 E391150 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 silt, fine, brown, uniform									0
1												1
2												2
3												3
4												4
5			- trace gravel, trace silt (SP)									5
6												6
7												7
8												8
9												9
10												10
11												11
12												12
13												13
14												14
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												43
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												46
												47
												48
												49

DRILL RIG - BECKER DRILL
 DRILLED FROM ICE
 WATER DEPTH - 7.7m
 ORIGINAL BOREHOLE NUMBER - 76-53

SAMPLE TYPE

THIN W. TUBE	PISTON
NO RECOVERY	CORE
SPUT SPOON	GRAB

EBA ENGINEERING CONSULTANTS LTD.
 EDMONTON ALBERTA
 DRAWING NUMBER

BOREHOLE NUMBER
 76-53
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BOREHOLE LOG AND LABORATORY TEST RESULTS

1976 BORROW INVENTORY DRIFT POINT IMPERIAL OIL LIMITED				EBA # 1-1330 N7750050 E391150 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										
15			SAND (SP) - (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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												90
												91
												92
												93
												94
												95
												96
												97
												98

DRILL RIG - BECKER DRILL
 DRILLED FROM ICE
 WATER DEPTH - 7.7m
 ORIGINAL BOREHOLE NUMBER - 76-53

SAMPLE TYPE

THIN W. TUBE

NO RECOVERY

SPLIT SPOON

PISTON

CORE

GRAB

EBA ENGINEERING CONSULTANTS LTD.
 EDMONTON ALBERTA

DRAWING NUMBER

BOREHOLE NUMBER
 76-53

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BOREHOLE LOG AND LABORATORY TEST RESULTS

1976 BORROW INVENTORY DRIFT POINT IMPERIAL OIL LIMITED				EBA # 1-1330 N7750730 E391330 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, fine, uniform	UNFROZEN								0	
1													1
2													2
3			- trace silt, trace gravel										3
4													4
5													5
6			- (SP-SM)										6
7													7
8			- fine to medium, trace gravel, trace silt (SP)										8
9													9
10													10
11													11
12													12
13													13
14			- fine, trace silt										14
15												15	
												16	
												17	
												18	
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												20	
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												47	
												48	
												49	

DRILL RIG - BECKER DRILL
 DRILLED FROM ICE
 WATER DEPTH - 8.1m
 ORIGINAL BOREHOLE NUMBER - 76-54

SAMPLE TYPE

THIN W. TUBE	PISTON
NO RECOVERY	CORE
SPLIT SPOON	GRAB

EBA ENGINEERING CONSULTANTS LTD.
 EDMONTON ALBERTA
 DRAWING NUMBER

BOREHOLE NUMBER
 76-54
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BOREHOLE LOG AND LABORATORY TEST RESULTS

1978 BORROW INVENTORY DRIFT POINT IMPERIAL OIL LIMITED				EBA # 1-1330 N7750730 E391330 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										
15			SAND (SP) - (cont'd)									50
16												51
17												52
18												53
19												54
20			- trace silt, fine, uniform									55
21				UNFROZEN								56
22			END OF BOREHOLE at 21.5m									57
23												58
24												59
25												60
26												61
27												62
28												63
29												64
30												65
												66
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												92
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												94
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												96
												97
												98

DRILL RIG - BECKER DRILL
 DRILLED FROM ICE
 WATER DEPTH - 8.1m
 ORIGINAL BOREHOLE NUMBER - 76-54

SAMPLE TYPE

THIN W. TUBE	PISTON
NO RECOVERY	CORE
SPLIT SPOON	GRAB

EBA ENGINEERING CONSULTANTS LTD.
 EDMONTON ALBERTA
 DRAWING NUMBER

BOREHOLE NUMBER
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BOREHOLE LOG AND LABORATORY TEST RESULTS

1976 BORROW INVENTORY DRIFT POINT IMPERIAL OIL LIMITED				EBA # 1-1330 N7749340 E388940 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 (sm) – fine brown, some silt	UNFROZEN								0								
1																				1
2			SILT (ml) – organic, sandy																	2
3			SAND-SILT (sm)																	3
4			SAND (SP) – trace silt, trace gravel, some wood chips																	4
5			– some silt																	5
6			– some silt to trace silt																	6
7																				7
8																				8
9			– trace silt, trace gravel																	9
10			END OF BOREHOLE at 9.9									10								
11												11								
12												12								
13												13								
14												14								
15												15								

DRILL RIG – BECKER DRILL
 DRILLED FROM ICE
 WATER DEPTH – 7.5m
 ORIGINAL BOREHOLE NUMBER – 76-55

SAMPLE TYPE

☐ THIN W. TUBE

☐ NO RECOVERY

☐ SPLIT SPOON

☐ PISTON

☐ CORE

☐ GRAB

EBA ENGINEERING CONSULTANTS LTD.
 EDMONTON ALBERTA
 DRAWING NUMBER

BOREHOLE NUMBER
 76-55

BOREHOLE LOG AND LABORATORY TEST RESULTS

1976 BORROW INVENTORY DRIFT POINT IMPERIAL OIL LIMITED				EBA # 1-1330 N7750850 E390750 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 silt, fine uniform, grey brown									0
1				UNFROZEN								1
2												2
3												3
4												4
5												5
6												6
7												7
8												8
9												9
10												10
11				UNFROZEN								11
12												12
13												13
14												14
15												15

DRILL RIG - BECKER DRILL
 DRILLED FROM ICE
 WATER DEPTH - 7.9m
 ORIGINAL BOREHOLE NUMBER - 76-56

SAMPLE TYPE

THIN W. TUBE

NO RECOVERY

SPLIT SPOON

PISTON

CORE

GRAB

EBA ENGINEERING CONSULTANTS LTD.
 EDMONTON ALBERTA

DRAWING NUMBER

BOREHOLE NUMBER
 76-56

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BOREHOLE LOG AND LABORATORY TEST RESULTS

1976 BORROW INVENTORY DRIFT POINT IMPERIAL OIL LIMITED				EBA # 1-1330 N7750650 E390750 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										
15			SAND (SP) - (cont'd)									50
16												51
17												52
18			END OF BOREHOLE at 17.4m									53
19												54
20												55
21												56
22												57
23												58
24												59
25												60
26												61
27												62
28												63
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												96
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												98

DRILL RIG - BECKER DRILL
 DRILLED FROM ICE
 WATER DEPTH - 7.9m
 ORIGINAL BOREHOLE NUMBER - 76-56

SAMPLE TYPE

THIN W. TUBE	PISTON
NO RECOVERY	CORE
SPLIT SPOON	GRAB

EBA ENGINEERING CONSULTANTS LTD.
 EDMONTON ALBERTA
 DRAWING NUMBER

BOREHOLE NUMBER
 76-56
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BOREHOLE LOG AND LABORATORY TEST RESULTS

1976 BORROW INVENTORY DRIFT POINT IMPERIAL OIL LIMITED				EBA # 1-1330 N7753680 E393810 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) -some to trace silt, uniform, fine	UNFROZEN								0
1												1
2												2
3												3
4												4
5				- trace gravel	UNFROZEN							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 - BECKER DRILL
 DRILLED FROM ICE
 WATER DEPTH - 8.2m
 ORIGINAL BOREHOLE NUMBER - 76-57

SAMPLE TYPE

THIN W. TUBE	PISTON
NO RECOVERY	CORE
SPLIT SPOON	GRAB

EBA ENGINEERING CONSULTANTS LTD.
 EDMONTON ALBERTA
 DRAWING NUMBER

BOREHOLE NUMBER
 76-57
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BOREHOLE LOG AND LABORATORY TEST RESULTS

1976 BORROW INVENTORY DRIFT POINT IMPERIAL OIL LIMITED				EBA # 1-1330 N7753880 E393810 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										
15			SAND (SP) - (cont'd)									50
16												51
												52
												53
												54
17			END OF BOREHOLE at 16.5m									55
												56
												57
												58
												59
												60
												61
												62
												63
												64
												65
												66
												67
												68
												69
												70
												71
												72
												73
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												76
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												93
												94
												95
												96
												97
												98

DRILL RIG - BECKER DRILL
 DRILLED FROM ICE
 WATER DEPTH - 8.2m
 ORIGINAL BOREHOLE NUMBER - 76-57

SAMPLE TYPE

☐ THIN W. TUBE

☐ NO RECOVERY

☐ SPLIT SPOON

☐ PISTON

☐ CORE

☐ GRAB

EBA ENGINEERING CONSULTANTS LTD.
 EDMONTON ALBERTA
 DRAWING NUMBER

BOREHOLE NUMBER
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BOREHOLE LOG AND LABORATORY TEST RESULTS

1976 BORROW INVENTORY DRIFT POINT IMPERIAL OIL LIMITED				EBA # 1-1330 N7754980 E394270 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 fine sand, dark brown, non plastic	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	
			SAND (sp) - trace silt, fine to medium, uniform, medium brown									16	
												17	
												18	
												19	
												20	
												21	
												22	
												23	
												24	
												25	
												26	
												27	
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												32	
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												34	
												35	
												36	
												37	
												38	
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												42	
												43	
												44	
												45	
												46	
												47	
												48	
												49	
			END OF BOREHOLE at 11.1m										

DRILL RIG - BECKER DRILL
 DRILLED FROM ICE
 WATER DEPTH - 9.3m
 ORIGINAL BOREHOLE NUMBER 76-58

SAMPLE TYPE

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

EBA ENGINEERING CONSULTANTS LTD.
 EDMONTON ALBERTA
 DRAWING NUMBER

BOREHOLE NUMBER
 76-58

BOREHOLE LOG AND LABORATORY TEST RESULTS

1976 BORROW INVENTORY DRIFT POINT IMPERIAL OIL LIMITED				EBA # 1-1330 N7756030 E397000 Z9		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										
0			SILT (ml) - dark grey brown, trace fine sand									0
1												1
2												2
3												3
4												4
5			SAND (SP) - trace silt, fine, uniform, brown									5
6				UNFROZEN								6
7												7
8												8
9												9
10				UNFROZEN								10
11												11
12			SILT-CLAY (mh) - medium to dark grey, high plastic, firm to stiff									12
13												13
14			END OF BOREHOLE at 14.0m									14
15												15

DRILL RIG - BECKER DRILL
 DRILLED FROM ICE
 WATER DEPTH - 8.3m
 ORIGINAL BOREHOLE NUMBER - 76-59

SAMPLE TYPE

THIN W. TUBE

NO RECOVERY

SPLIT SPOON

PISTON

CORE

GRAB

EBA ENGINEERING CONSULTANTS LTD.
 EDMONTON ALBERTA
 DRAWING NUMBER

BOREHOLE NUMBER
 76-59

BOREHOLE LOG AND LABORATORY TEST RESULTS

1976 BORROW INVENTORY DRIFT POINT IMPERIAL OIL LIMITED					EBA # 1-1330 N7750690 E391390 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 (sm) - some silt, fine, uniform, dark grey brown										0	
1												1	
2		- trace silt (SP-SM)	UNFROZEN									2	
3												3	
4		- some to trace silt										4	
5												5	
6												6	
7												7	
8												8	
9		- trace gravel, trace silt (SP)	UNFROZEN									9	
10												10	
11												11	
12												12	
13		END OF BOREHOLE at 12.8m										13	
14												14	
15												15	

DRILL RIG - BECKER DRILL
 DRILLED FROM ICE
 WATER DEPTH - 7.0m
 ORIGINAL BOREHOLE NUMBER - 76-115

SAMPLE TYPE

THIN W. TUBE

NO RECOVERY

SPLIT SPOON

PISTON

CORE

GRAB

EBA ENGINEERING CONSULTANTS LTD.
 EDMONTON ALBERTA
 DRAWING NUMBER

BOREHOLE NUMBER
 76-115

BOREHOLE LOG AND LABORATORY TEST RESULTS

1978 BORROW INVENTORY DRIFT POINT IMPERIAL OIL LIMITED				EBA # 1-1330 N7750520 E391860 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 silt, fine uniform, medium brown									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
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14												14
15												15
16												16
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19												19
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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 - BECKER DRILL
 DRILLED FROM ICE
 WATER DEPTH - 7.0m
 ORIGINAL BOREHOLE NUMBER - 76-116

SAMPLE TYPE

☐ THIN W. TUBE

☐ NO RECOVERY

☐ SPLIT SPOON

☐ PISTON

☐ CORE

☐ GRAB

EBA ENGINEERING CONSULTANTS LTD.
 EDMONTON ALBERTA
 DRAWING NUMBER

BOREHOLE NUMBER
 76-116

BOREHOLE LOG AND LABORATORY TEST RESULTS

1976 BORROW INVENTORY DRIFT POINT IMPERIAL OIL LIMITED				EBA # 1-1330 N7750300 E392250 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 to some silt, fine, uniform									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 - BECKER DRILL
 DRILLED FROM ICE
 WATER DEPTH - 4.3m
 ORIGINAL BOREHOLE NUMBER - 76-117

SAMPLE TYPE

THIN W. TUBE

NO RECOVERY

SPLIT SPOON

PISTON

CORE

GRAB

EBA ENGINEERING CONSULTANTS LTD.
 EDMONTON ALBERTA
 DRAWING NUMBER

BOREHOLE NUMBER
 76-117

NOTE: END OF BOREHOLE at 15.5m

BOREHOLE LOG AND LABORATORY TEST RESULTS

1976 BORROW INVENTORY DRIFT POINT IMPERIAL OIL LIMITED				EBA # 1-1330 N7749860 E391910 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-SILT (sm) - organic rich, dark grey	UNFROZEN								0
1												1
2			SILT (ml) - some sand, organic rich, black									2
3												3
4			SAND-SILT (sm) - organic rich, dark grey									4
5			SAND (SP) - trace silt, fine, uniform, trace gravel									5
6												6
7												7
8												8
9												9
10												10
11												11
12			END OF BOREHOLE at 11.3m	12								
13				13								
14				14								
15				15								

DRILL RIG - BECKER DRILL
 DRILLED FROM ICE
 WATER DEPTH - 3.7m
 ORIGINAL BOREHOLE NUMBER - 76-118

SAMPLE TYPE

THIN W. TUBE	PISTON
NO RECOVERY	CORE
SPLIT SPOON	GRAB

EBA ENGINEERING CONSULTANTS LTD.
 EDMONTON ALBERTA
 DRAWING NUMBER

BOREHOLE NUMBER
 76-118

BOREHOLE LOG AND LABORATORY TEST RESULTS

1976 BORROW INVENTORY DRIFT POINT IMPERIAL OIL LIMITED				EBA # 1-1330 N7749350 E391390 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-SILT (sm) - organic rich, black										0
1												1
2												2
3		SAND (sm) - some silt, fine, uniform - trace silt (SP)										3
4			UNFROZEN									4
5												5
6		- trace gravel, trace to some silt										6
7												7
8												8
9												9
10												10
11												11
12												12
13		- some silt (SP-SM)										13
14			UNFROZEN									14
15		NOTE: END OF BOREHOLE at 15.1m										15

DRILL RIG - BECKER DRILL
 DRILLED FROM ICE
 WATER DEPTH - 4.7m
 ORIGINAL BOREHOLE NUMBER - 76-119

SAMPLE TYPE

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

EBA ENGINEERING CONSULTANTS LTD.
 EDMONTON ALBERTA
 DRAWING NUMBER

BOREHOLE NUMBER
 76-119

BOREHOLE LOG AND LABORATORY TEST RESULTS

1976 BORROW INVENTORY DRIFT POINT IMPERIAL OIL LIMITED				EBA # 1-1330 N7748890 E390940 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 (sm) - some silt, fine organic	UNFROZEN								0	
1			- trace silt (SP)										1
2													2
3			- some silt (SP-SM), trace gravel										3
4				UNFROZEN								4	
5			SAND (SP) - fine, trace silt, uniform, trace gravel										5
6													6
7			- some 25mm gravel										7
8													8
9													9
10			END OF BOREHOLE at 9.4m									10	
11												11	
12												12	
13												13	
14												14	
15												15	

DRILL RIG - BECKER DRILL
 DRILLED FROM ICE
 WATER DEPTH - 5.5m
 ORIGINAL BOREHOLE NUMBER - 76-120

SAMPLE TYPE

THIN W. TUBE

NO RECOVERY

SPLIT SPOON

PISTON

CORE

GRAB

EBA ENGINEERING CONSULTANTS LTD.
 EDMONTON ALBERTA
 DRAWING NUMBER

BOREHOLE NUMBER
 76-120

BOREHOLE LOG AND LABORATORY TEST RESULTS

1976 BORROW INVENTORY DRIFT POINT IMPERIAL OIL LIMITED				EBA # 1-1330 N7748150 E390500 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) - clean to trace silt, uniform	UNFROZEN									0
1												1
2		- some to trace silt, and some silt sand layers										2
3												3
4												4
5												5
6												6
7		- trace silt (SP-SM), trace gravel	UNFROZEN									7
8												8
9												9
10												10
11		END OF BOREHOLE at 11.0m										11
12												12
13												13
14												14
15												15

DRILL RIG - BECKER DRILL
 DRILLED FROM ICE
 WATER DEPTH - 6.4m
 ORIGINAL BOREHOLE NUMBER - 76-121

SAMPLE TYPE

THIN W. TUBE	PISTON
NO RECOVERY	CORE
SPLIT SPOON	GRAB

EBA ENGINEERING CONSULTANTS LTD.
 EDMONTON ALBERTA
 DRAWING NUMBER

BOREHOLE NUMBER
 76-121

BOREHOLE LOG AND LABORATORY TEST RESULTS

1976 BORROW INVENTORY DRIFT POINT IMPERIAL OIL LIMITED				EBA # 1-1330 N7750000 E390390 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 silt to clean	UNFROZEN									0
1												1
2		- trace to some silt (SP-SM), fine organic										2
3												3
4		- trace gravel, organic odour										4
5												5
6												6
7		- trace silt (SP)	UNFROZEN									7
8												8
9												9
10												10
11		END OF BOREHOLE at 10.7m										11
12												12
13												13
14												14
15												15

DRILL RIG - BECKER DRILL
 DRILLED FROM ICE
 WATER DEPTH - 6.7m
 ORIGINAL BOREHOLE NUMBER - 76-122

SAMPLE TYPE

THIN W. TUBE	PISTON
NO RECOVERY	CORE
SPLIT SPOON	GRAB

EBA ENGINEERING CONSULTANTS LTD.
 EDMONTON ALBERTA
 DRAWING NUMBER

BOREHOLE
 NUMBER
 76-122

BOREHOLE LOG AND LABORATORY TEST RESULTS

1976 BORROW INVENTORY DRIFT POINT IMPERIAL OIL LIMITED				EBA # 1-1330 N7750260 E389840 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 silt, fine, uniform	UNFROZEN								0	
1													1
2													2
3													3
4													4
5													5
6			- some silt (SM), fine, uniform										6
7													7
8			- some to trace silt										8
9													9
10													10
11			- trace silt (SP), trace gravel		UNFROZEN								11
12													12
13			END OF BOREHOLE at 12.5m										13
14													14
15													15
													16
													17
													18
													19
													20
													21
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												48	
												49	

DRILL RIG - BECKER DRILL
 DRILLED FROM ICE
 WATER DEPTH - 7.3m
 ORIGINAL BOREHOLE NUMBER - 76-123

SAMPLE TYPE

THIN W. TUBE

NO RECOVERY

SPLIT SPOON

PISTON

CORE

GRAB

EBA ENGINEERING CONSULTANTS LTD.
 EDMONTON ALBERTA

DRAWING NUMBER

BOREHOLE NUMBER
 76-123

BOREHOLE LOG AND LABORATORY TEST RESULTS

1976 BORROW INVENTORY DRIFT POINT IMPERIAL OIL LIMITED				EBA # 1-1330 N7750910 E390190 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) - some silt, fine uniform	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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												41
												42
												43
												44
												45
												46
												47
												48
												49

DRILL RIG - BECKER DRILL
 DRILLED FROM ICE
 WATER DEPTH - 7.9m
 ORIGINAL BOREHOLE NUMBER - 76-124

SAMPLE TYPE

☐ THIN W. TUBE

☐ NO RECOVERY

☐ SPLIT SPOON

☐ PISTON

☐ CORE

☒ GRAB

EBA ENGINEERING CONSULTANTS LTD.
 EDMONTON ALBERTA
 DRAWING NUMBER

BOREHOLE NUMBER
 76-124

BOREHOLE LOG AND LABORATORY TEST RESULTS

1978 BORROW INVENTORY DRIFT POINT IMPERIAL OIL LIMITED				EBA # 1-1330 N7751400 E390600 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 to some silt, dark grey, organic									0
1												1
2			- trace silt (SP-SM), fine uniform	UNFROZEN								2
3												3
4												4
5			- trace gravel, wood chips	UNFROZEN								5
6												6
7			- trace to some silt									7
8												8
9			END OF BOREHOLE at 9.1m									9
10												10
11												11
12												12
13												13
14												14
15												15

DRILL RIG - BECKER DRILL
 DRILLED FROM ICE
 WATER DEPTH - 8.2m
 ORIGINAL BOREHOLE NUMBER - 76-125

SAMPLE TYPE

THIN W. TUBE	PISTON
NO RECOVERY	CORE
SPLIT SPOON	GRAB

EBA ENGINEERING CONSULTANTS LTD.
 EDMONTON ALBERTA
 DRAWING NUMBER

BOREHOLE NUMBER
 76-125

BOREHOLE LOG AND LABORATORY TEST RESULTS

1976 BORROW INVENTORY DRIFT POINT IMPERIAL OIL LIMITED				EBA # 1-1330 N7751960 E391060 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 (SM) - some silt, black, organic rich, fine	UNFROZEN									0	
1													1
2		CLAY (cl) - silty, black organic, medium plastic											2
3		SAND (SP) - trace to some silt fine, uniform											3
4													4
5													5
6													6
7													7
8		- trace silt											8
9		END OF BOREHOLE at 8.8m											9
10												10	
11												11	
12												12	
13												13	
14												14	
15												15	

DRILL RIG - BECKER DRILL
 DRILLED FROM ICE
 WATER DEPTH - 8.5m
 ORIGINAL BOREHOLE NUMBER - 76-126

SAMPLE TYPE

THIN W. TUBE

NO RECOVERY

SPLIT SPOON

PISTON

CORE

GRAB

EBA ENGINEERING CONSULTANTS LTD.
 EDMONTON ALBERTA
 DRAWING NUMBER

BOREHOLE NUMBER
 76-126

BOREHOLE LOG AND LABORATORY TEST RESULTS

1976 BORROW INVENTORY DRIFT POINT IMPERIAL OIL LIMITED				EBA # 1-1330 N7751270 E391080 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 silt to clean, some shells									0
1												1
2												2
3			- fine, trace gravel									3
4				UNFROZEN								4
5												5
6				UNFROZEN								6
7												7
8												8
9												9
10												10
11												11
12			END OF BOREHOLE at 12.2m									12
13												13
14												14
15												15

DRILL RIG - BECKER DRILL
 DRILLED FROM ICE
 WATER DEPTH - 7.6m
 ORIGINAL BOREHOLE NUMBER - 76-127

SAMPLE TYPE

THIN W. TUBE	PISTON
NO RECOVERY	CORE
SPLIT SPOON	GRAB

EBA ENGINEERING CONSULTANTS LTD.
 EDMONTON ALBERTA
 DRAWING NUMBER

BOREHOLE NUMBER
 76-127

BOREHOLE LOG AND LABORATORY TEST RESULTS

1976 BORROW INVENTORY DRIFT POINT IMPERIAL OIL LIMITED				EBA # 1-1330 N7751650 E391450 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 (sm) - silty, fine sand, very organic									0
1												1
2												2
3			- trace silt (SP), fine									3
4				UNFROZEN								4
5												5
6			- clean to trace silt (SP)									6
7				UNFROZEN								7
8												8
9												9
10												10
11												11
12			END OF BOREHOLE at 12.2m									12
13												13
14												14
15												15

DRILL RIG - BECKER DRILL
 DRILLED FROM ICE
 WATER DEPTH - 7.6m
 ORIGINAL BOREHOLE NUMBER - 76-128

SAMPLE TYPE

☐ THIN W. TUBE

☐ NO RECOVERY

☐ SPLIT SPOON

☐ PISTON

☐ CORE

☐ GRAB

EBA ENGINEERING CONSULTANTS LTD.
 EDMONTON ALBERTA
 DRAWING NUMBER

BOREHOLE NUMBER
 76-128

BOREHOLE LOG AND LABORATORY TEST RESULTS

1976 BORROW INVENTORY DRIFT POINT IMPERIAL OIL LIMITED				EBA # 1-1330 N7751260 E391810 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 (sm) - silty, grey to black, organic, thin layer of clay									0
1												1
2												2
3			- trace silt (SP), fine, uniform									3
4				UNFROZEN								4
5												5
6			- trace silt to clean									6
7												7
8			- trace silt to clean (SP)									8
9				UNFROZEN								9
10												10
11												11
12			END OF BOREHOLE at 12.2m									12
13												13
14												14
15												15

DRILL RIG - BECKER DRILL
 DRILLED FROM ICE
 WATER DEPTH - 7.6m
 ORIGINAL BOREHOLE NUMBER - 76-129

SAMPLE TYPE

THIN W. TUBE

NO RECOVERY

SPLIT SPOON

PISTON

CORE

GRAB

EBA ENGINEERING CONSULTANTS LTD.
 EDMONTON ALBERTA

DRAWING NUMBER

BOREHOLE NUMBER
 76-129

BOREHOLE LOG AND LABORATORY TEST RESULTS

1976 BORROW INVENTORY DRIFT POINT IMPERIAL OIL LIMITED				EBA # 1-1330 N7751180 E392300 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 silt, fine, uniform	UNFROZEN								0	
1													1
2			SILT (ml) - clayey										2
3			SAND (SP) - some fine sand, uniform	UNFROZEN								3	
4			- trace silt (SP), fine, uniform										4
5													5
6													6
7													7
8													8
9			- trace silt, trace gravel										9
10													10
11			END OF BOREHOLE at 11.0m										11
12													12
13												13	
14												14	
15												15	

DRILL RIG - BECKER DRILL
 DRILLED FROM ICE
 WATER DEPTH - 6.4m
 ORIGINAL BOREHOLE NUMBER - 76-130

SAMPLE TYPE

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

EBA ENGINEERING CONSULTANTS LTD.
 EDMONTON ALBERTA
 DRAWING NUMBER

BOREHOLE NUMBER
 76-130

BOREHOLE LOG AND LABORATORY TEST RESULTS

1976 BORROW INVENTORY DRIFT POINT IMPERIAL OIL LIMITED				EBA # 1-1330 N7750820 E392750 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) - silty, black, organic rich	UNFROZEN									0	
1		SAND (sm) - silty, fine, organic odour, black											1
2													2
3													3
4													4
5													5
6													6
7													7
8													8
9													9
10		END OF BOREHOLE at 9.8m										10	
11												11	
12												12	
13												13	
14												14	
15												15	

DRILL RIG - BECKER DRILL
 DRILLED FROM ICE
 WATER DEPTH - 5.2m
 ORIGINAL BOREHOLE NUMBER - 76-131

SAMPLE TYPE

☐ THIN W. TUBE

☐ NO RECOVERY

☐ SPLIT SPOON

☐ PISTON

☐ CORE

☐ GRAB

EBA ENGINEERING CONSULTANTS LTD.
 EDMONTON ALBERTA
 DRAWING NUMBER

BOREHOLE NUMBER
 76-131

BOREHOLE LOG AND LABORATORY TEST RESULTS

1976 BORROW INVENTORY DRIFT POINT IMPERIAL OIL LIMITED				EBA # 1-1330 N7750770 E391670 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) - trace to some silt, fine uniform									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
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37												37
38												38
39												39
40												40
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42												42
43												43
44												44
45												45
46												46
47												47
48												48
49												49

DRILL RIG - BECKER DRILL DRILLED FROM ICE WATER DEPTH - 7.3m ORIGINAL BOREHOLE NUMBER - 76-132	SAMPLE TYPE THIN W. TUBE NO RECOVERY SPLIT SPOON PISTON CORE GRAB	EBA ENGINEERING CONSULTANTS LTD. EDMONTON ALBERTA DRAWING NUMBER	BOREHOLE NUMBER 76-132
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BOREHOLE LOG AND LABORATORY TEST RESULTS

1976 BORROW INVENTORY DRIFT POINT IMPERIAL OIL LIMITED				EBA # 1-1330 N7750770 E392010.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) - trace to some silt, trace gravel, fine, uniform	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
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												48
												49

DRILL RIG - BECKER DRILL
 DRILLED FROM ICE
 WATER DEPTH - 6.7m
 ORIGINAL BOREHOLE NUMBER - 76-133

SAMPLE TYPE

THIN W. TUBE	PISTON
NO RECOVERY	CORE
SPLIT SPOON	GRAB

EBA ENGINEERING CONSULTANTS LTD.
 EDMONTON ALBERTA
 DRAWING NUMBER

BOREHOLE NUMBER
 76-133

BOREHOLE LOG AND LABORATORY TEST RESULTS

1976 BORROW INVENTORY DRIFT POINT IMPERIAL OIL LIMITED				EBA # 1-1330 N7751880 E395800 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 (sm) - silty, black, organic									0
1												1
2												2
3												3
4												4
5												5
6												6
7												7
8												8
9												9
10												10
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42												42
43												43
44												44
45												45
46												46
47												47
48												48
49												49

DRILL RIG - BECKER DRILL
 DRILLED FROM ICE
 WATER DEPTH - 1.7m
 ORIGINAL BOREHOLE NUMBER - 76-134

SAMPLE TYPE

THIN W. TUBE

NO RECOVERY

SPLIT SPOON

PISTON

CORE

GRAB

EBA ENGINEERING CONSULTANTS LTD.
 EDMONTON ALBERTA

DRAWING NUMBER

BOREHOLE NUMBER
 76-134

BOREHOLE LOG AND LABORATORY TEST RESULTS

1976 BORROW INVENTORY DRIFT POINT IMPERIAL OIL LIMITED				EBA # 1-1330 N7752600 E397130 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-SILT (sm) - organic, very fine sand	UNFROZEN								0				
1			SAND (sm) - fine, uniform, some silt, trace gravel - trace of silt (SP) to 6.7m											1		
2														2		
3														3		
4														4		
5														5		
6														6		
7			- very fine, silty (SM)			UNFROZEN								7		
8			SILT-SAND (ml) - fine, some clay silt, layers													8
9			SAND (sm) - fine, silty, brown													9
10														10		
11			END OF BOREHOLE at 10.7m											11		
12														12		
13														13		
14														14		
15														15		

DRILL RIG - BECKER DRILL
 DRILLED FROM ICE
 WATER DEPTH - 4.2m
 ORIGINAL BOREHOLE NUMBER - 76-135

SAMPLE TYPE

THIN W. TUBE	PISTON
NO RECOVERY	CORE
SPLIT SPOON	GRAB

EBA ENGINEERING CONSULTANTS LTD.
 EDMONTON ALBERTA
 DRAWING NUMBER

BOREHOLE NUMBER
 76-135

BOREHOLE LOG AND LABORATORY TEST RESULTS

1976 BORROW INVENTORY DRIFT POINT IMPERIAL OIL LIMITED				EBA # 1-1330 N7752290 E395700 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) – organic, some sand, very soft										0
1												1
2												2
3		SAND (SM) – silty, very fine, trace gravel										3
4												4
5												5
6			UNFROZEN									6
7		– trace silt (SP), uniform	UNFROZEN									7
8		– very fine, silty (SM)										8
9												9
10												10
11												11
12												12
13												13
14		END OF BOREHOLE at 14.5m										14
15												15

DRILL RIG – BECKER DRILL
 DRILLED FROM ICE
 WATER DEPTH – 2.9m
 ORIGINAL BOREHOLE NUMBER – 76-136

SAMPLE TYPE

THIN W. TUBE	PISTON
NO RECOVERY	CORE
SPLIT SPOON	GRAB

EBA ENGINEERING CONSULTANTS LTD.
 EDMONTON ALBERTA
 DRAWING NUMBER

BOREHOLE NUMBER
 76-136

BOREHOLE LOG AND LABORATORY TEST RESULTS

1976 BORROW INVENTORY DRIFT POINT IMPERIAL OIL LIMITED				EBA # 1-1330 N7745150 E389150 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 (sm) - silty, fine, uniform, organic	UNFROZEN								0	
1													1
2			- some silt to silty, trace gravel										2
3													3
4													4
5													5
6			- trace silt, well graded										6
7			END OF BOREHOLE at 6.9m										7
8													8
9													9
10													10
11													11
12													12
13													13
14													14
15													15
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												49	

DRILL RIG - BECKER DRILL
 DRILLED FROM ICE
 WATER DEPTH - 3.2m
 ORIGINAL BOREHOLE NUMBER - 76-138

SAMPLE TYPE

THIN W. TUBE	PISTON
NO RECOVERY	CORE
SPLIT SPOON	GRAB

EBA ENGINEERING CONSULTANTS LTD.
 EDMONTON ALBERTA
 DRAWING NUMBER

BOREHOLE NUMBER
 76-138

BOREHOLE LOG AND LABORATORY TEST RESULTS

1976 BORROW INVENTORY DRIFT POINT IMPERIAL OIL LIMITED				EBA # 1-1330 N7744290 E389740 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) – black, organic rich, trace gravel and sand	UNFROZEN								0	
1			SILT-SAND (ml) – fine sand, grey, organic layers										1
2													2
3			SAND (sm) – very fine, silty, – clean to trace silt, uniform										3
4													4
5													5
6													6
7													7
8													8
9													9
10													10
11			CLAY (cl) – stiff, medium plastic									11	
12			SAND (sm) – very fine, some silt									12	
13			END OF BOREHOLE at 11.3m									13	
14												14	
15												15	

DRILL RIG – BECKER DRILL
 DRILLED FROM ICE
 WATER DEPTH – 3.6m
 ORIGINAL BOREHOLE NUMBER – 76-139

SAMPLE TYPE

☐ THIN W. TUBE

☐ NO RECOVERY

☐ SPLIT SPOON

☐ PISTON

☐ CORE

☐ GRAB

EBA ENGINEERING CONSULTANTS LTD.
 EDMONTON ALBERTA
 DRAWING NUMBER

BOREHOLE NUMBER
 76-139

BOREHOLE LOG AND LABORATORY TEST RESULTS

1976 BORROW INVENTORY DRIFT POINT IMPERIAL OIL LIMITED				EBA # 1-1330 N7751000 E390880 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) - fine, trace silt									0
1												1
2			- very fine, black, some silt to silty (SM)									2
3												3
4			- trace silt (SP), uniform									4
5												5
6												6
7				UNFROZEN								7
8												8
9			- trace gravel									9
10												10
11												11
12												12
13												13
14												14
15												15

DRILL RIG -- BECKER DRILL
 DRILLED FROM ICE
 WATER DEPTH -- 8.1m
 ORIGINAL BOREHOLE NUMBER -- 76-K-9

SAMPLE TYPE

☐ THIN W. TUBE

☐ NO RECOVERY

☐ SPLIT SPOON

☐ PISTON

☐ CORE

☐ GRAB

EBA ENGINEERING CONSULTANTS LTD.
 EDMONTON ALBERTA

DRAWING NUMBER

BOREHOLE NUMBER
 76K-9

PAGE 1 OF 2

BOREHOLE LOG AND LABORATORY TEST RESULTS

1978 BORROW INVENTORY DRIFT POINT IMPERIAL OIL LIMITED				EBA / 1-1330 N7751000 E390880 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											
15		SAND (SP) - (cont'd) - trace silt (SP)	UNFROZEN									50
16												
		END OF BOREHOLE at 16.6m										52
17												
18												54
19												55
20												56
21												57
22												58
23												59
24												60
25												61
26												62
27												63
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												98

DRILL RIG - BECKER DRILL
 DRILLED FROM ICE
 WATER DEPTH - 8.1m
 ORIGINAL BOREHOLE NUMBER - 76-K-9

SAMPLE TYPE

THIN W. TUBE	PISTON
NO RECOVERY	CORE
SPLIT SPOON	GRAB

EBA ENGINEERING CONSULTANTS LTD.
 EDMONTON ALBERTA
 DRAWING NUMBER

BOREHOLE NUMBER
 76K-9
 PAGE 2 OF 2

BOREHOLE LOG AND LABORATORY TEST RESULTS

1976 BORROW INVENTORY DRIFT POINT IMPERIAL OIL LIMITED				EBA # 1-1330 N7750500 E391000 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 (sm) - some silt, black									0
1			- trace silt, fine, uniform, trace gravel									1
2												2
3												3
4												4
5			- trace to some silt, very fine, wood fragments									5
6												6
7												7
8												8
9			- clean to trace silt (SP)	UNFROZEN								9
10												10
11			END OF BOREHOLE at 11.2m									11
12												12
13												13
14												14
15												15

DRILL RIG - BECKER DRILL
 DRILLED FROM ICE
 WATER DEPTH - 8.0m
 ORIGINAL BOREHOLE NUMBER - 76-L-13

SAMPLE TYPE

☐ THIN W. TUBE

☐ NO RECOVERY

☐ SPLIT SPOON

☐ PISTON

☐ CORE

☐ GRAB

EBA ENGINEERING CONSULTANTS LTD.
 EDMONTON ALBERTA
 DRAWING NUMBER

BOREHOLE NUMBER
 76L-13

BOREHOLE LOG AND LABORATORY TEST RESULTS

1976 BORROW INVENTORY DRIFT POINT IMPERIAL OIL LIMITED				EBA # 1-1330 N7750250 E391000 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 silt, trace gravel									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
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42												42
43												43
44												44
45												45
46												46
47												47
48												48
49												49

DRILL RIG - BECKER DRILL
 DRILLED FROM ICE
 WATER DEPTH - 7.9m
 ORIGINAL BOREHOLE NUMBER - 76-L-15

SAMPLE TYPE

☐ THIN W. TUBE

☐ NO RECOVERY

☐ SPLIT SPOON

☐ PISTON

☐ CORE

☐ GRAB

EBA ENGINEERING CONSULTANTS LTD.
 EDMONTON ALBERTA
 DRAWING NUMBER

BOREHOLE NUMBER
 76L-15

BOREHOLE LOG AND LABORATORY TEST RESULTS

1976 BORROW INVENTORY DRIFT POINT IMPERIAL OIL LIMITED				EBA / 1-1330 N7750750 E391130 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) - trace to some silt, trace gravel, brown, fine	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
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45												45
46												46
47												47
48												48
49												49

DRILL RIG - BECKER DRILL
 DRILLED FROM ICE
 WATER DEPTH - 8.0m
 ORIGINAL BOREHOLE NUMBER - 76-M-11

SAMPLE TYPE

☐ THIN W. TUBE
☐ NO RECOVERY
☐ SPLIT SPOON

☐ PISTON
☐ CORE
☐ GRAB

EBA ENGINEERING CONSULTANTS LTD.
 EDMONTON ALBERTA
 DRAWING NUMBER

BOREHOLE NUMBER
 76M-11
 PAGE 1 OF 2

BOREHOLE LOG AND LABORATORY TEST RESULTS

1976 BORROW INVENTORY DRIFT POINT IMPERIAL OIL LIMITED				EBA # 1-1330 N7750750 E391130 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										
15			SAND (sp-sm) - (cont'd)									50
16												51
17			- uniform, clean to trace silt									52
18												53
19												54
20												55
21			- fine, uniform, clean to trace silt, numerous coal chips									56
22			END OF BOREHOLE at 21.9m									57
23												58
24												59
25												60
26												61
27												62
28												63
29												64
30												65
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												96
												97
												98

DRILL RIG - BECKER DRILL
 DRILLED FROM ICE
 WATER DEPTH - 8.0m
 ORIGINAL BOREHOLE NUMBER - 76-M-11

SAMPLE TYPE

THIN W. TUBE	PISTON
NO RECOVERY	CORE
SPLIT SPOON	GRAB

EBA ENGINEERING CONSULTANTS LTD.
 EDMONTON ALBERTA
 DRAWING NUMBER

BOREHOLE NUMBER
 76M-11
 PAGE 2 OF 2

BOREHOLE LOG AND LABORATORY TEST RESULTS

1976 BORROW INVENTORY DRIFT POINT IMPERIAL OIL LIMITED				EBA # 1-1330 N7750380 E391130 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 (sm) - some silt, brown, fine, uniform									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
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40												40
41												41
42												42
43												43
44												44
45												45
46												46
47												47
48												48
49												49

DRILL RIG - BECKER DRILL
 DRILLED FROM ICE
 WATER DEPTH - 7.9m
 ORIGINAL BOREHOLE NUMBER - 76-M-14

SAMPLE TYPE

☐ THIN W. TUBE
☐ NO RECOVERY
☐ SPLIT SPOON

☐ PISTON
☐ CORE
☐ GRAB

EBA ENGINEERING CONSULTANTS LTD.
 EDMONTON ALBERTA
 DRAWING NUMBER

BOREHOLE NUMBER
 76M-14

BOREHOLE LOG AND LABORATORY TEST RESULTS

1976 BORROW INVENTORY DRIFT POINT IMPERIAL OIL LIMITED				EBA # 1-1330 N7751000 E391250 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		SILT (ml) - some clay, some sand, low plastic									0
1											1
2		SAND (SP) - some silt	UNFROZEN								2
3		- some to trace silt (SP-SM), fine uniform									3
4											4
5		- trace silt (SP), some clay layers, wood chips									5
6			UNFROZEN								6
7											7
8											8
9											9
10		END OF BOREHOLE at 9.8m									10
11											11
12											12
13											13
14											14
15											15

DRILL RIG - BECKER DRILL
 DRILLED FROM ICE
 WATER DEPTH - 7.7m
 ORIGINAL BOREHOLE NUMBER - 76-N-9

SAMPLE TYPE

THIN W. TUBE

NO RECOVERY

SPLIT SPOON

PISTON

CORE

GRAB

EBA ENGINEERING CONSULTANTS LTD.
 EDMONTON ALBERTA
 DRAWING NUMBER

BOREHOLE NUMBER
 76N-9

BOREHOLE LOG AND LABORATORY TEST RESULTS

1976 BORROW INVENTORY DRIFT POINT IMPERIAL OIL LIMITED				EBA # 1-1330 N7750750 E391250 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 silt, uniform, brown	UNFROZEN								0
1												1
2												2
3												3
4												4
5												5
6												6
7												7
8												8
9												9
10												10
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												48
												49

DRILL RIG - BECKER DRILL
 DRILLED FROM ICE
 WATER DEPTH - 7.6m
 ORIGINAL BOREHOLE NUMBER - 76-N-11

SAMPLE TYPE

THIN W. TUBE

NO RECOVERY

SPLIT SPOON

PISTON

CORE

GRAB

EBA ENGINEERING CONSULTANTS LTD.
 EDMONTON ALBERTA
 DRAWING NUMBER

BOREHOLE NUMBER
 76N-11

BOREHOLE LOG AND LABORATORY TEST RESULTS

1978 BORROW INVENTORY DRIFT POINT IMPERIAL OIL LIMITED				EBA # 1-1330 N7750630 E391250 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 silt, fine, uniform									0
1												1
2												2
3												3
4												4
5												5
6												6
7												7
8												8
9												9
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												47
												48
												49

DRILL RIG - BECKER DRILL DRILLED FROM ICE WATER DEPTH - 7.7m ORIGINAL BOREHOLE NUMBER - 76-N-12	SAMPLE TYPE THIN W. TUBE NO RECOVERY SPLIT SPOON PISTON CORE GRAB	EBA ENGINEERING CONSULTANTS LTD. EDMONTON ALBERTA DRAWING NUMBER	BOREHOLE NUMBER 76N-12
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BOREHOLE LOG AND LABORATORY TEST RESULTS

1976 BORROW INVENTORY DRIFT POINT IMPERIAL OIL LIMITED				EBA # 1-1330 N7750500 E391250 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 (SP) - trace silt, fine, uniform	UNFROZEN							0	
1												1
2												2
3												3
4			- trace silt (SP), trace gravel									4
5			SILT (ml) - clayey									5
6			SAND (SP) - trace silt, trace gravel, fine to medium									6
7												7
8												8
9												9
10												10
11			- trace silt									11
12												12
13												13
14												14
15											15	
											16	
											17	
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											19	
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											44	
											45	
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											47	
											48	
											49	

DRILL RIG - BECKER DRILL
 DRILLED FROM ICE
 WATER DEPTH - 7.3m
 ORIGINAL BOREHOLE NUMBER - 76-N-13

SAMPLE TYPE

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

EBA ENGINEERING CONSULTANTS LTD.
 EDMONTON ALBERTA
 DRAWING NUMBER

BOREHOLE NUMBER
 76N-13
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BOREHOLE LOG AND LABORATORY TEST RESULTS

1976 BORROW INVENTORY DRIFT POINT IMPERIAL OIL LIMITED				EBA # 1-1330 N7750500 E391250 Z9		Bulk Density Mg/m ³ ▲ 1.4 1.5 1.6 1.7 1.8 1.9 2.0				SPECIAL TESTS	UNIT	DEPTH (ft)
SAMPLE		SOIL DESCRIPTION	GROUND ICE DESCRIPTION	TEMP C	PLASTIC LIMIT	WATER CONTENT (%)	LIQUID LIMIT					
TYP	NO. Q											
15		SAND (SP) - (cont'd)										50
16												51
17												52
18												53
19												54
20												55
21												56
22												57
23												58
24												59
25												60
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												95
												96
												97
												98

DRILL RIG - BECKER DRILL
 DRILLED FROM ICE
 WATER DEPTH - 7.3m
 ORIGINAL BOREHOLE NUMBER - 76-N-13

SAMPLE TYPE

THIN W. TUBE

NO RECOVERY

SPLIT SPOON

PISTON

CORE

GRAB

EBA ENGINEERING CONSULTANTS LTD.
 EDMONTON ALBERTA
 DRAWING NUMBER

BOREHOLE NUMBER
 76N-13
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BOREHOLE LOG AND LABORATORY TEST RESULTS

1976 BORROW INVENTORY DRIFT POINT IMPERIAL OIL LIMITED				EBA # 1-1330 N7750250 E391250 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 silt, fine, uniform									0
1												1
2												2
3												3
4												4
5												5
6												6
7												7
8												8
9												9
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												47
												48
												49

DRILL RIG - BECKER DRILL DRILLED FROM ICE WATER DEPTH - 7.0m ORIGINAL BOREHOLE NUMBER - 76-N-15	SAMPLE TYPE ☐ THIN W. TUBE ☐ PISTON ☐ NO RECOVERY ☐ CORE ☐ SPLIT SPOON ☐ GRAB	EBA ENGINEERING CONSULTANTS LTD. EDMONTON ALBERTA DRAWING NUMBER	BOREHOLE NUMBER 76N-15
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BOREHOLE LOG AND LABORATORY TEST RESULTS

1978 BORROW INVENTORY DRIFT POINT IMPERIAL OIL LIMITED				EBA # 1-1330 N7751250 E391380 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) - trace silt, fine, shell fragments									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
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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 - BECKER DRILL DRILLED FROM ICE WATER DEPTH - 7.7m ORIGINAL BOREHOLE NUMBER - 76-0-7	SAMPLE TYPE ☐ THIN W. TUBE ☐ PISTON ☐ NO RECOVERY ☐ CORE ☐ SPLIT SPOON ☐ GRAB	EBA ENGINEERING CONSULTANTS LTD. EDMONTON ALBERTA DRAWING NUMBER	BOREHOLE NUMBER 760-7 PAGE 1 OF 2
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BOREHOLE LOG AND LABORATORY TEST RESULTS

1976 BORROW INVENTORY DRIFT POINT IMPERIAL OIL LIMITED				EBA # 1-1330 N7751250 E391380 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										
15			SAND (SP-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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												96
												97
												98

DRILL RIG - BECKER DRILL
 DRILLED FROM ICE
 WATER DEPTH - 7.7m
 ORIGINAL BOREHOLE NUMBER - 76-0-7

SAMPLE TYPE

☐ THIN W. TUBE
☐ NO RECOVERY
☐ SPLIT SPOON

☐ PISTON
☐ CORE
☐ GRAB

EBA ENGINEERING CONSULTANTS LTD.
 EDMONTON ALBERTA
 DRAWING NUMBER

BOREHOLE NUMBER
 760-7
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BOREHOLE LOG AND LABORATORY TEST RESULTS

1976 BORROW INVENTORY DRIFT POINT IMPERIAL OIL LIMITED				EBA / 1-1330 N7750500 E391380 Z9		Bulk Density Mg/m ³ ▲ 1.4 1.6 1.8 2				SPECIAL TESTS	UNIT	DEPTH (m) 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 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49
SAMPLE		SOIL DESCRIPTION	GROUND ICE DESCRIPTION	TEMP C	PLASTIC LIMIT	WATER CONTENT (%)	LIQUID LIMIT					
TYP	NO. Q											
0			SAND (sm) - some silt, brown, very fine black organic	UNFROZEN								
1												
2			- trace silt, trace gravel									
3												
4												
5												
6												
7			- clean to trace silt									
8												
9												
10			END OF BOREHOLE at 9.7m									
11												
12												
13												
14												
15												

DRILL RIG - BECKER DRILL
 DRILLED FROM ICE
 WATER DEPTH - 7.7m
 ORIGINAL BOREHOLE NUMBER - 76-0-13

SAMPLE TYPE

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

EBA ENGINEERING CONSULTANTS LTD.
 EDMONTON ALBERTA
 DRAWING NUMBER

BOREHOLE
 NUMBER
 760-13

BOREHOLE LOG AND LABORATORY TEST RESULTS

1976 BORROW INVENTORY DRIFT POINT IMPERIAL OIL LIMITED				EBA / 1-1330 N7750380 E391380 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 silt, brown, fine, uniform	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
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38												38
39												39
40												40
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42												42
43												43
44												44
45												45
46												46
47												47
48												48
49												49

DRILL RIG - BECKER DRILL DRILLED FROM ICE WATER DEPTH - 7.9m ORIGINAL BOREHOLE NUMBER - 76-O-14	SAMPLE TYPE THIN W. TUBE NO RECOVERY SPLIT SPOON PISTON CORE GRAB	EBA ENGINEERING CONSULTANTS LTD. EDMONTON ALBERTA DRAWING NUMBER	BOREHOLE NUMBER 760-14
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BOREHOLE LOG AND LABORATORY TEST RESULTS

1976 BORROW INVENTORY DRIFT POINT IMPERIAL OIL LIMITED				EBA # 1-1330 N7750130 E391380 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 silt, uniform, fine	UNFROZEN									0
1												1
2												2
3												3
4		- some silt, soupy										4
5		- trace silt, trace gravel										5
6												6
7												7
8												8
9												9
10		END OF BOREHOLE at 9.9m										10
11												11
12												12
13												13
14												14
15												15

DRILL RIG - BECKER DRILL
 DRILLED FROM ICE
 WATER DEPTH - 7.7m
 ORIGINAL BOREHOLE NUMBER - 76-0-16

SAMPLE TYPE

☐ THIN W. TUBE

☐ NO RECOVERY

☐ SPLIT SPOON

☐ PISTON

☐ CORE

☐ GRAB

EBA ENGINEERING CONSULTANTS LTD.
 EDMONTON ALBERTA
 DRAWING NUMBER

BOREHOLE NUMBER
 760-16

BOREHOLE LOG AND LABORATORY TEST RESULTS

1976 BORROW INVENTORY DRIFT POINT IMPERIAL OIL LIMITED				EBA # 1-1330 N7750750 E391500 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										
DEPTH (m) 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	     		SAND (SP) - trace silt, fine, uniform	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 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49
			- trace gravel									
			- clean to trace silt (SP), some gravel, fine to medium sand									
			- some silt, fine uniform									
			END OF BOREHOLE at 12.2m									

DRILL RIG - BECKER DRILL
 DRILLED FROM ICE
 WATER DEPTH - 7.6m
 ORIGINAL BOREHOLE NUMBER - 76-P-11

SAMPLE TYPE

 THIN W. TUBE
 NO RECOVERY
 SPLIT SPOON

 PISTON
 CORE
 GRAB

EBA ENGINEERING CONSULTANTS LTD.
 EDMONTON ALBERTA
 DRAWING NUMBER

BOREHOLE NUMBER
 76P-11

BOREHOLE LOG AND LABORATORY TEST RESULTS

1976 BORROW INVENTORY DRIFT POINT IMPERIAL OIL LIMITED				EBA # 1-1330 N7750630 E391500 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 silt, fine, uniform									0
1			- some silt to silty									1
2			- some silt									2
3												3
4			- clean to trace silt (SP), fine, uniform									4
5				UNFROZEN								5
6												6
7												7
8												8
9				UNFROZEN								9
10			- some silt									10
11												11
12												12
13			END OF BOREHOLE at 13.1m									13
14												14
15												15

DRILL RIG - BECKER DRILL
 DRILLED FROM ICE
 WATER DEPTH - 6.7m
 ORIGINAL BOREHOLE NUMBER - 76-P-12

SAMPLE TYPE

THIN W. TUBE	PISTON
NO RECOVERY	CORE
SPLIT SPOON	GRAB

EBA ENGINEERING CONSULTANTS LTD.
 EDMONTON ALBERTA
 DRAWING NUMBER

BOREHOLE NUMBER
 76P-12

BOREHOLE LOG AND LABORATORY TEST RESULTS

1976 BORROW INVENTORY DRIFT POINT IMPERIAL OIL LIMITED				EBA # 1-1330 N7750500 E391500 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 silt, fine, uniform									0
1				UNFROZEN								1
2												2
3												3
4												4
5			- clean to trace silt, some gravel									5
6												6
7												7
8												8
9												9
10			- some silt (SP-SM)									10
11				UNFROZEN								11
12			END OF BOREHOLE at 12.2m									12
13												13
14												14
15												15

DRILL RIG - BECKER DRILL
 DRILLED FROM ICE
 WATER DEPTH - 7.6m
 ORIGINAL BOREHOLE NUMBER - 76-P-13

SAMPLE TYPE

☐ THIN W. TUBE

☐ NO RECOVERY

☐ SPLIT SPOON

☐ PISTON

☐ CORE

☐ GRAB

EBA ENGINEERING CONSULTANTS LTD.
 EDMONTON ALBERTA
 DRAWING NUMBER

BOREHOLE NUMBER
 76P-13

BOREHOLE LOG AND LABORATORY TEST RESULTS

1976 BORROW INVENTORY DRIFT POINT IMPERIAL OIL LIMITED				EBA # 1-1330 N7750250 E391500 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 silt, fine, uniform	UNFROZEN								0	
1													1
2													2
3													3
4			- trace silt, cleaner										4
5													5
6													6
7													7
8													8
9													9
10													10
11			- trace to some silt (SP-SM)		UNFROZEN								11
12			- 150mm silty clay layers										12
13			END OF BOREHOLE at 12.5m										13
14													14
15													15
													16
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													18
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												49	

DRILL RIG - BECKER DRILL
 DRILLED FROM ICE
 WATER DEPTH - 7.3m
 ORIGINAL BOREHOLE NUMBER - 76-P-15

SAMPLE TYPE

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

EBA ENGINEERING CONSULTANTS LTD.
 EDMONTON ALBERTA
 DRAWING NUMBER

BOREHOLE NUMBER
 76P-15

BOREHOLE LOG AND LABORATORY TEST RESULTS

1976 BORROW INVENTORY DRIFT POINT IMPERIAL OIL LIMITED				EBA # 1-1330 N7750630 E391630 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 silt, trace gravel, fine uniform									0
1												1
2												2
3												3
4												4
5												5
6												6
7												7
8												8
9												9
10												10
11												11
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DRILL RIG - BECKER DRILL DRILLED FROM ICE WATER DEPTH - 7.6m ORIGINAL BOREHOLE NUMBER - 76-Q-12	SAMPLE TYPE THIN W. TUBE NO RECOVERY SPLIT SPOON PISTON CORE GRAB	EBA ENGINEERING CONSULTANTS LTD. EDMONTON ALBERTA DRAWING NUMBER	BOREHOLE NUMBER 76Q-12
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BOREHOLE LOG AND LABORATORY TEST RESULTS

1976 BORROW INVENTORY DRIFT POINT IMPERIAL OIL LIMITED				EBA # 1-1330 N7750380 E391630 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) - brown, uniform, fine, trace silt to clean, trace gravel									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
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45												45
46												46
47												47
48												48
49												49

DRILL RIG - BECKER DRILL DRILLED FROM ICE WATER DEPTH - 7.7m ORIGINAL BOREHOLE NUMBER - 76-Q-14	SAMPLE TYPE THIN W. TUBE NO RECOVERY SPLIT SPOON PISTON CORE GRAB	EBA ENGINEERING CONSULTANTS LTD. EDMONTON ALBERTA DRAWING NUMBER	BOREHOLE NUMBER 76Q-14
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BOREHOLE LOG AND LABORATORY TEST RESULTS

1976 BORROW INVENTORY TININERK BAY IMPERIAL OIL LIMITED				EBA # 1-1330 N7723820 E578050 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-SM) - trace to some gravel, trace of silt, medium to fine, brown	UNFROZEN								0
1												1
2			- trace of silt (SP)									2
3												3
4												4
5												5
6												6
7				possible thin ice lens								7
8												8
9												9
10			- some trace of silt (SP), coal flecks	UNFROZEN								10
11												11
12			END OF BOREHOLE at 11.6m									12
13												13
14												14
15												15

DRILL RIG - BECKER DRILL
 DRILLED FROM ICE
 WATER DEPTH - 5.8m
 ORIGINAL BOREHOLE NUMBER - 76-1

SAMPLE TYPE

THIN W. TUBE	PISTON
NO RECOVERY	CORE
SPLIT SPOON	GRAB

EBA ENGINEERING CONSULTANTS LTD.
 EDMONTON ALBERTA
 DRAWING NUMBER

BOREHOLE
 NUMBER
 76-1

BOREHOLE LOG AND LABORATORY TEST RESULTS

1976 BORROW INVENTORY TININERK BAY IMPERIAL OIL LIMITED				EBA # 1-1330 N7723970 E575840 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			No Recovery, very soft bottom									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
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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 - BECKER DRILL DRILLED FROM ICE WATER DEPTH - 6.4m ORIGINAL BOREHOLE NUMBER - 76-2	SAMPLE TYPE THIN W. TUBE NO RECOVERY SPLIT SPOON PISTON CORE GRAB	EBA ENGINEERING CONSULTANTS LTD. EDMONTON ALBERTA DRAWING NUMBER	BOREHOLE NUMBER 76-2
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BOREHOLE LOG AND LABORATORY TEST RESULTS

1976 BORROW INVENTORY TININERK BAY IMPERIAL OIL LIMITED				EBA # 1-1330 N7725810 E578580 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										
0			SILT-CLAY (ml)									0
1			SAND-SILT (SP-SM)	UNFROZEN								1
2			GRAVEL-SAND (gm) - silty, clay silt layers	FROZEN								2
3				UNFROZEN								3
4												4
5			SAND (SP) - fine to medium, trace to some gravel, trace of silt									5
6												6
7			END OF BOREHOLE at 6.4m									7
8												8
9												9
10												10
11												11
12												12
13												13
14												14
15												15

DRILL RIG - BECKER DRILL
 DRILLED FROM ICE
 WATER DEPTH - 6.1m
 ORIGINAL BOREHOLE NUMBER - 76-3

SAMPLE TYPE

THIN W. TUBE

NO RECOVERY

SPLIT SPOON

PISTON

CORE

GRAB

EBA ENGINEERING CONSULTANTS LTD.
 EDMONTON ALBERTA
 DRAWING NUMBER

BOREHOLE NUMBER
 76-3

BOREHOLE LOG AND LABORATORY TEST RESULTS

1978 BORROW INVENTORY TININERK BAY IMPERIAL OIL LIMITED				EBA # 1-1330 N7727010 E579320 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) - trace of sand, grey	UNFROZEN								0	
1													1
2													2
3			SAND SILT (SM) - to silty sand, trace clay										3
4			SAND (SP) - fine to medium, trace of silt, trace of organics										4
5													5
6													6
7			- trace of gravel										7
8													8
9													9
10			- organic	UNFROZEN								10	
11													11
12			END OF BOREHOLE at 11.3m										12
13													13
14													14
15													15
													16
													17
													18
													19
												20	
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												47	
												48	
												49	

DRILL RIG - BECKER DRILL
 DRILLED FROM ICE
 WATER DEPTH - 6.0m
 ORIGINAL BOREHOLE NUMBER - 76-4

SAMPLE TYPE

THIN W. TUBE	PISTON
NO RECOVERY	CORE
SPLIT SPOON	GRAB

EBA ENGINEERING CONSULTANTS LTD.
 EDMONTON ALBERTA
 DRAWING NUMBER

BOREHOLE NUMBER
 76-4

BOREHOLE LOG AND LABORATORY TEST RESULTS

1976 BORROW INVENTORY TOKER POINT IMPERIAL OIL LIMITED				EBA # 1-1330 N7727010 E579320 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) - trace of sand, dark grey	UNFROZEN									0
1												1
2												2
3		- stiff, to hard	POSSIBLY FROZEN									3
4		SAND (SM) - fine, some silt, trace of gravel, some clay silt layers	UNFROZEN									4
5		SAND-SILT (sm) - very fine, some clay silt layers	POSSIBLY FROZEN									5
6			UNFROZEN									6
7		END OF BOREHOLE at 6.6m										7
8												8
9												9
10												10
11												11
12												12
13												13
14												14
15												15

DRILL RIG - BECKER DRILL
 DRILLED FROM ICE
 WATER DEPTH - 6.0m
 ORIGINAL BOREHOLE NUMBER - 76-5

SAMPLE TYPE

THIN W. TUBE

NO RECOVERY

SPLIT SPOON

PISTON

CORE

GRAB

EBA ENGINEERING CONSULTANTS LTD.
 EDMONTON ALBERTA
 DRAWING NUMBER

BOREHOLE NUMBER
 76-5

BOREHOLE LOG AND LABORATORY TEST RESULTS

1976 BORROW INVENTORY TININERK BAY IMPERIAL OIL LIMITED				EBA 1-1330 N7727220 E579480 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											
0		SILT-CLAY (ml) - grey, stiff layer										0
1		SAND (SP) - fine, brown, trace to some gravel	UNFROZEN									1
2												2
3												3
4												4
5												5
6												6
7												7
8												8
9												9
10												10
11			UNFROZEN									11
12		END OF BOREHOLE at 11.6m										12
13												13
14												14
15												15
												16
												17
												18
												19
												20
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												49

DRILL RIG - BECKER DRILL
 DRILLED FROM ICE
 WATER DEPTH - 5.8m
 ORIGINAL BOREHOLE NUMBER - 76-6

SAMPLE TYPE

THIN W. TUBE	PISTON
NO RECOVERY	CORE
SPLIT SPOON	GRAB

EBA ENGINEERING CONSULTANTS LTD.
 EDMONTON ALBERTA
 DRAWING NUMBER

BOREHOLE NUMBER
 76-6

BOREHOLE LOG AND LABORATORY TEST RESULTS

1976 BORROW INVENTORY TOKER POINT IMPERIAL OIL LIMITED				EBA #1-1330 N7730590 E581890 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-GRAVEL (SP) - to trace of gravel, trace of silt	UNFROZEN									0
1		GRAVEL (gm)										1
2		SAND (SM) - fine to medium, some silt, trace of gravel										2
3		- trace silt (SP), trace gravel, finer	UNFROZEN									3
4		SILT-CLAY (ml) - grey, medium plastic										4
5		SAND SILT (sm) - very fine, medium brown										5
6		SILT-CLAY (ml) - stiff to hard										6
7		END OF BOREHOLE at 6.7m										7
8												8
9												9
10												10
11												11
12												12
13												13
14												14
15												15

DRILL RIG - BECKER DRILL
 DRILLED FROM ICE
 WATER DEPTH - 5.8m
 ORIGINAL BOREHOLE NUMBER - 76-7

SAMPLE TYPE

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

EBA ENGINEERING CONSULTANTS LTD.
 EDMONTON ALBERTA
 DRAWING NUMBER

BOREHOLE NUMBER
 76-7

BOREHOLE LOG AND LABORATORY TEST RESULTS

1976 BORROW INVENTORY TUFT POINT IMPERIAL OIL LIMITED				EBA #1-1330 N7736850 E589780 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) - soft, grey	UNFROZEN								0
1			SILT-CLAY (ml) - grey, trace sand, very stiff to hard									1
2			SAND (sm) - fine, silty									2
3			SILT (ml) - stiff to hard									3
4			SAND-SILT (sm) - fine, silt content decreasing									4
5			SAND (sm) - fine, silty, trace gravel									5
6			END OF BOREHOLE at 8.0m									6
7												7
8												8
9												9
10												10
11												11
12												12
13												13
14												14
15												15

DRILL RIG - BECKER DRILL
 DRILLED FROM ICE
 WATER DEPTH - 6.9m
 ORIGINAL BOREHOLE NUMBER - 76-10

SAMPLE TYPE

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

EBA ENGINEERING CONSULTANTS LTD.
 EDMONTON ALBERTA
 DRAWING NUMBER

BOREHOLE NUMBER
 76-10

BOREHOLE LOG AND LABORATORY TEST RESULTS

1978 BORROW INVENTORY TUFT POINT IMPERIAL OIL LIMITED				EBA #1-1330 N7738060 E589710 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-SAND (ml) - soft, grey	UNFROZEN								0	
1													1
2			SAND (SP-SM) - silty to trace of silt										2
3			SILT-CLAY (ml) - hard										3
4			SAND (SM) - some silt, trace gravel, fine grained	UNFROZEN								4	
5													5
6													6
7													7
8			SILT-CLAY (ml) - grey	UNFROZEN								8	
9													9
10			SAND (SP-SM) - fine to medium, some fine silt clay layers										10
11			END OF BOREHOLE at 10.2m										11
12												12	
13												13	
14												14	
15												15	

DRILL RIG - BECKER DRILL
 DRILLED FROM ICE
 WATER DEPTH - 7.2m
 ORIGINAL BOREHOLE NUMBER - 76-11

SAMPLE TYPE

☐ THIN W. TUBE

☐ NO RECOVERY

☐ SPLIT SPOON

☐ PISTON

☐ CORE

☐ GRAB

EBA ENGINEERING CONSULTANTS LTD.
 EDMONTON ALBERTA

DRAWING NUMBER

BOREHOLE NUMBER
 76-11

BOREHOLE LOG AND LABORATORY TEST RESULTS

1976 BORROW INVENTORY TUFT POINT IMPERIAL OIL LIMITED				EBA # 1-1330 N7732220 E589610 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			SAND-SILT (sm) - fine, dark grey to brown	UNFROZEN								0
1												1
2												2
3			SILT-SAND (ml) - fine brown	POSSIBLY FROZEN								3
4												4
5			SAND (sp-sm) - fine to medium, trace gravel, trace silt, medium brown	UNFROZEN								5
6												6
7			END OF BOREHOLE at 7.0m									7
8												8
9												9
10												10
11												11
12												12
13												13
14												14
15												15

DRILL RIG - BECKER DRILL
 DRILLED FROM ICE
 WATER DEPTH - 5.5m
 ORIGINAL BOREHOLE NUMBER - 76-12

SAMPLE TYPE

☐ THIN W. TUBE

☐ NO RECOVERY

☐ SPLIT SPOON

☐ PISTON

☐ CORE

☐ GRAB

EBA ENGINEERING CONSULTANTS LTD.
 EDMONTON ALBERTA
 DRAWING NUMBER

BOREHOLE NUMBER
 76-12

BOREHOLE LOG AND LABORATORY TEST RESULTS

1976 BORROW INVENTORY TUFT POINT IMPERIAL OIL LIMITED				EBA # 1-1330 N7734290 E589540 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) - soft	UNFROZEN								0
1												1
2			- stiff to hard	POSSIBLY FROZEN								2
3			- trace sand	UNFROZEN								3
4			SAND-SILT (sm) - fine	UNFROZEN								4
5												5
6			END OF BOREHOLE at 5.6m									6
7												7
8												8
9												9
10												10
11												11
12												12
13												13
14												14
15												15

DRILL RIG - BECKER DRILL
 DRILLED FROM ICE
 WATER DEPTH - 6.9m
 ORIGINAL BOREHOLE NUMBER - 76-13

SAMPLE TYPE

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

EBA ENGINEERING CONSULTANTS LTD.
 EDMONTON ALBERTA
 DRAWING NUMBER

BOREHOLE NUMBER
 76-13

BOREHOLE LOG AND LABORATORY TEST RESULTS

1976 BORROW INVENTORY TUFT POINT IMPERIAL OIL LIMITED				EBA # 1-1330 N7741180 E592070 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) - dark grey, soft	UNFROZEN								0	
1													1
2													2
3													3
4													4
5													5
6			SILT-SAND (ml) - medium brown										6
7			END OF BOREHOLE at 7.2m										7
8													8
9													9
10													10
11													11
12													12
13													13
14													14
15													15
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												46	
												47	
												48	
												49	

DRILL RIG - BECKER DRILL
 DRILLED FROM ICE
 WATER DEPTH - 7.8m
 ORIGINAL BOREHOLE NUMBER - 76-15

SAMPLE TYPE

THIN W. TUBE

NO RECOVERY

SPLIT SPOON

PISTON

CORE

GRAB

EBA ENGINEERING CONSULTANTS LTD.
 EDMONTON ALBERTA
 DRAWING NUMBER

BOREHOLE NUMBER
 76-15

BOREHOLE LOG AND LABORATORY TEST RESULTS

1976 BORROW INVENTORY TUFT POINT IMPERIAL OIL LIMITED				EBA # 1-1330 N7739540 E592850 Z8		Bulk Density Mg/m ³ ▲ 1.4 1.6 1.8 2				SPECIAL TESTS	UNIT	DEPTH (ft)
SAMPLE TYP NO. Q	SOIL DESCRIPTION	GROUND ICE DESCRIPTION	TEMP C	PLASTIC LIMIT	WATER CONTENT (%)	LIQUID LIMIT						
									20			
0												0
1		SILT-CLAY (mi) - dark grey, trace of fine gravel	UNFROZEN									1
2												2
3		SAND-SILT (sm) - fine, grey	POSSIBLY FROZEN									3
4												4
5		SAND (SP-SM) - fine, silty to trace of silt, medium brown	UNFROZEN									5
6			UNFROZEN									6
7		END OF BOREHOLE at 7.3m										7
8												8
9												9
10												10
11												11
12												12
13												13
14												14
15												15

DRILL RIG - BECKER DRILL
 DRILLED FROM ICE
 WATER DEPTH - 7.7m
 ORIGINAL BOREHOLE NUMBER - 76-16

SAMPLE TYPE

THIN W. TUBE	PISTON
NO RECOVERY	CORE
SPLIT SPOON	GRAB

EBA ENGINEERING CONSULTANTS LTD.
 EDMONTON ALBERTA

DRAWING NUMBER

BOREHOLE
 NUMBER
 76-16

BOREHOLE LOG AND LABORATORY TEST RESULTS

1976 BORROW INVENTORY TUFT POINT IMPERIAL OIL LIMITED				EBA # 1-1330 N7738240 E593330 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) - dark grey	UNFROZEN								0
1			SILT-SAND (ml) - brown, fine									1
2			SAND-SILT (sm) - organic gas escaping									2
3			SAND (sp) - fine, trace of silt, trace of gravel									3
4			SAND-SILT (sm) - fine, light brown									4
5												5
6			END OF BOREHOLE at 5.9m									6
7												7
8												8
9												9
10												10
11												11
12												12
13												13
14												14
15												15

DRILL RIG - BECKER DRILL
 DRILLED FROM ICE
 WATER DEPTH - 6.6m
 ORIGINAL BOREHOLE NUMBER - 76-17

SAMPLE TYPE

THIN W. TUBE

NO RECOVERY

SPLIT SPOON

PISTON

CORE

GRAB

EBA ENGINEERING CONSULTANTS LTD.
 EDMONTON ALBERTA
 DRAWING NUMBER

BOREHOLE NUMBER
 76-17

BOREHOLE LOG AND LABORATORY TEST RESULTS

1976 BORROW INVENTORY TUFT POINT IMPERIAL OIL LIMITED				EBA # 1-1330 N7737540 E593260 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-GRAVEL (sm) - thin layers	UNFROZEN									0	
		SILT-CLAY (ml) - organic, some fine sand											1
1		SAND-SILT (sm) - fine, trace of gravel											2
													3
2													4
													5
3													6
													7
4													8
													9
5		- no gravel											10
													11
6		END OF BOREHOLE at 5.9m											12
													13
7													14
												15	
8												16	
												17	
9												18	
												19	
10												20	
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11												22	
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												45	
												46	
												47	
												48	
												49	

DRILL RIG - BECKER DRILL
 DRILLED FROM ICE
 WATER DEPTH - 6.7m
 ORIGINAL BOREHOLE NUMBER - 76-18

SAMPLE TYPE

THIN W. TUBE

NO RECOVERY

SPLIT SPOON

PISTON

CORE

GRAB

EBA ENGINEERING CONSULTANTS LTD.
 EDMONTON ALBERTA
 DRAWING NUMBER

BOREHOLE NUMBER
 76-18

BOREHOLE LOG AND LABORATORY TEST RESULTS

1976 BORROW INVENTORY TUFT POINT IMPERIAL OIL LIMITED				EBA # 1-1330 N7733880 E588640 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			No Recovery	UNFROZEN								0
1			SILT-CLAY (ml) - dark grey, stiff to hard	POSSIBLY FROZEN								1
2												2
3												3
4				UNFROZEN								4
5			SAND (SP-SM) - trace silt to silty									5
6			- fine to medium, trace silt (SP), brown trace gravel	UNFROZEN								6
7			END OF BOREHOLE at 6.1m									7
8												8
9												9
10												10
11												11
12												12
13												13
14												14
15												15

DRILL RIG - BECKER DRILL
 DRILLED FROM ICE
 WATER DEPTH - 6.4m
 ORIGINAL BOREHOLE NUMBER - 76-20

SAMPLE TYPE

THIN W. TUBE	PISTON
NO RECOVERY	CORE
SPLIT SPOON	GRAB

EBA ENGINEERING CONSULTANTS LTD.
 EDMONTON ALBERTA
 DRAWING NUMBER

BOREHOLE NUMBER
 76-20

BOREHOLE LOG AND LABORATORY TEST RESULTS

1976 BORROW INVENTORY TUFT POINT IMPERIAL OIL LIMITED				EBA # 1-1330 N7734480 E588280 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			No Recovery	UNFROZEN								0		
1			SILT-SAND (ml) - fine, some silt clay layers										1	
2				POSSIBLY FROZEN								2		
3			- stiff to hard										3	
4			SILT-SAND (ml) - fine	UNFROZEN								4		
5			SAND (SP) - fine to medium, trace of gravel, trace silt	UNFROZEN								5		
6													6	
7													7	
8													8	
9													9	
10													10	
11			END OF BOREHOLE at 11.0m											11
12														12
13														13
14														14
15												15		

DRILL RIG - BECKER DRILL
 DRILLED FROM ICE
 WATER DEPTH - 6.4m
 ORIGINAL BOREHOLE NUMBER - 76-21

SAMPLE TYPE

THIN W. TUBE

NO RECOVERY

SPLIT SPOON

PISTON

CORE

GRAB

EBA ENGINEERING CONSULTANTS LTD.
 EDMONTON ALBERTA
 DRAWING NUMBER

BOREHOLE NUMBER
 76-21

BOREHOLE LOG AND LABORATORY TEST RESULTS

1976 BORROW INVENTORY TUFT POINT IMPERIAL OIL LIMITED				EBA # 1-1330 N7735380 E587720 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) - grey, soft	UNFROZEN								0	
1													1
2													2
3													3
4			- trace of sand										4
5													5
6			SILT-SAND (ml) - dark grey, trace silt, trace gravel										6
7			END OF BOREHOLE at 6.4m										7
8													8
9													9
10													10
11													11
12													12
13													13
14													14
15													15
													16
													17
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												40	
												41	
												42	
												43	
												44	
												45	
												46	
												47	
												48	
												49	

DRILL RIG - BECKER DRILL
 DRILLED FROM ICE
 WATER DEPTH - 6.1m
 ORIGINAL BOREHOLE NUMBER - 76-22

SAMPLE TYPE

☐ THIN W. TUBE

☐ NO RECOVERY

☐ SPLIT SPOON

☐ PISTON

☐ CORE

☐ GRAB

EBA ENGINEERING CONSULTANTS LTD.
 EDMONTON ALBERTA
 DRAWING NUMBER

BOREHOLE NUMBER
 76-22

BOREHOLE LOG AND LABORATORY TEST RESULTS

1978 BORROW INVENTORY TININERK BAY IMPERIAL OIL LIMITED				EBA # 1-1330 N7723100 E577500 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) - some clay, grey	UNFROZEN								0	
1													1
2			GRAVEL (gm) - sandy, silty, grey										2
3			SAND (sp-sm) - trace silt, fine, trace medium coarse, brown										3
4													4
5													5
6			- trace silt										6
7			SILT (ml) - sandy, some clay, grey brown										7
8			SAND (sm) - trace to some silt, fine, brown										8
9													9
10													10
11													11
12													12
13												13	
14			END OF BOREHOLE at 13.6m									14	
15												15	

DRILL RIG - BECKER DRILL
 DRILLED FROM ICE
 WATER DEPTH - 6.2m
 ORIGINAL BOREHOLE NUMBER - HH-12

SAMPLE TYPE

☐ THIN W. TUBE
☐ NO RECOVERY
☐ SPLIT SPOON

☐ PISTON
☐ CORE
☐ GRAB

EBA ENGINEERING CONSULTANTS LTD.
 EDMONTON ALBERTA
 DRAWING NUMBER

BOREHOLE NUMBER
 HH-12

BOREHOLE LOG AND LABORATORY TEST RESULTS

1976 BORROW INVENTORY TININERK BAY IMPERIAL OIL LIMITED				EBA # 1-1330 N7723300 E577500 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) - some sand, trace clay, grey	UNFROZEN								0	
1													1
2													2
3			SAND (sp-sm) - trace gravel, trace silt, fine, uniform, brown										3
4													4
5													5
6													6
7			- trace of organics										7
8													8
9													9
10													10
11													11
12													12
13													13
14			END OF BOREHOLE at 13.6m									14	
15												15	

DRILL RIG - BECKER DRILL
 DRILLED FROM ICE
 WATER DEPTH - 6.2m
 ORIGINAL BOREHOLE NUMBER - HH-14

SAMPLE TYPE

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

EBA ENGINEERING CONSULTANTS LTD.
 EDMONTON ALBERTA
 DRAWING NUMBER

BOREHOLE NUMBER
 HH-14

BOREHOLE LOG AND LABORATORY TEST RESULTS

1976 BORROW INVENTORY TININERK BAY IMPERIAL OIL LIMITED				EBA # 1-1330 N7723500 E577500 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) - grey	UNFROZEN									0
1		SILT (ml) - trace sand, grey	POSSIBLY FROZEN									1
2		SAND (sm) - some silt, fine, brown	UNFROZEN									2
3		- trace silt (sp-sm), fine, uniform, brown	UNFROZEN									3
4												4
5												5
6												6
7												7
8												8
9												9
10												10
11		END OF BOREHOLE at 11.0m	UNFROZEN									11
12												12
13												13
14												14
15												15

DRILL RIG - BECKER DRILL
 DRILLED FROM ICE
 WATER DEPTH - 6.4m
 ORIGINAL BOREHOLE NUMBER - HH-16

SAMPLE TYPE

THIN W. TUBE	PISTON
NO RECOVERY	CORE
SPLIT SPOON	GRAB

EBA ENGINEERING CONSULTANTS LTD.
 EDMONTON ALBERTA
 DRAWING NUMBER

BOREHOLE NUMBER
 HH-16

BOREHOLE LOG AND LABORATORY TEST RESULTS

1976 BORROW INVENTORY TININERK BAY IMPERIAL OIL LIMITED				EBA # 1-1330 N7723700 E577500 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 (cl) - silty grey	UNFROZEN POSSIBLY FROZEN								0	
1			SILT (ml) - some sand, trace gravel, grey										1
2													2
3				UNFROZEN								3	
4			SILT-CLAY (ml) - some sand, grey										4
5													5
6			GRAVEL (gp) - sandy, coarse	UNFROZEN								6	
7			SAND (sm) - some silt, fine, uniform, brown										7
8													8
9			END OF BOREHOLE at 8.5m									9	
10												10	
11												11	
12												12	
13												13	
14												14	
15												15	

DRILL RIG - BECKER DRILL
 DRILLED FROM ICE
 WATER DEPTH - 6.4m
 ORIGINAL BOREHOLE NUMBER - HH-18

SAMPLE TYPE

THIN W. TUBE

NO RECOVERY

SPLIT SPOON

PISTON

CORE

GRAB

EBA ENGINEERING CONSULTANTS LTD.
 EDMONTON ALBERTA
 DRAWING NUMBER

BOREHOLE NUMBER
 HH-18

BOREHOLE LOG AND LABORATORY TEST RESULTS

1976 BORROW INVENTORY TININERK BAY IMPERIAL OIL LIMITED				EBA # 1-1330 N7722900 E577800 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) - trace sand, grey	UNFROZEN								0	
1													1
2			SAND (sm) - some gravel, medium grained										2
3			SILT-CLAY (mh) - medium to high plastic cohesive, trace sand, grey										3
4													4
5			END OF BOREHOLE at 4.5m									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 - BECKER DRILL
 DRILLED FROM ICE
 WATER DEPTH - 5.5m
 ORIGINAL BOREHOLE NUMBER - KK-10

SAMPLE TYPE

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

EBA ENGINEERING CONSULTANTS LTD.
 EDMONTON ALBERTA
 DRAWING NUMBER

BOREHOLE NUMBER
 KK-10

BOREHOLE LOG AND LABORATORY TEST RESULTS

1976 BORROW INVENTORY TININERK BAY IMPERIAL OIL LIMITED				EBA # 1-1330 N7723100 E577800 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.												
0		SILT (ml) - sandy, some gravel, grey	UNFROZEN									0	
1		SAND (sm) - some silt, fine, brown											1
2		- trace silt (SP), some gravel, medium grained											2
3													3
4													4
5													5
6		SILT (ml) - sandy, grey brown											6
7		SAND (sp-sm) - trace silt, fine grained, brown											7
8													8
9													9
10												10	
11		END OF BOREHOLE at 13.7m										11	
12												12	
13												13	
14												14	
15												15	

DRILL RIG - BECKER DRILL
 DRILLED FROM ICE
 WATER DEPTH - 6.1m
 ORIGINAL BOREHOLE NUMBER - KK-12

SAMPLE TYPE

THIN W. TUBE	PISTON
NO RECOVERY	CORE
SPLIT SPOON	GRAB

EBA ENGINEERING CONSULTANTS LTD.
 EDMONTON ALBERTA
 DRAWING NUMBER

BOREHOLE NUMBER
 KK-12

BOREHOLE LOG AND LABORATORY TEST RESULTS

1976 BORROW INVENTORY TININERK BAY IMPERIAL OIL LIMITED				EBA # 1-1330 N7723300 E577800 Z8		Bulk Density Mg/m ³ ▲ 1.4 1.6 1.8 2				SPECIAL TESTS	UNIT	DEPTH (ft)	
SAMPLE TYP/NO. Q	SOIL DESCRIPTION	GROUND ICE DESCRIPTION	TEMP C	PLASTIC LIMIT	WATER CONTENT(%)	LIQUID LIMIT							
									20				40
0	SILT-SAND (ml-sm) - some gravel, brown, fine grained	UNFROZEN										0	
1													1
2													2
3	SAND (SM) - some silt, fine, brown												3
4	- trace silt and gravel, fairly well graded, brown												4
5													5
6	SILT-SAND (ml) - fine, brown												6
7	SAND (sp-sm) - trace silt, fine, uniform, brown												7
8													8
9													9
10													10
11													11
12													12
13											13		
14	END OF BOREHOLE at 13.6m										14		
15											15		
											16		
											17		
											18		
											19		
											20		
											21		
											22		
											23		
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											42		
											43		
											44		
											45		
											46		
											47		
											48		
											49		

DRILL RIG - BECKER DRILL
 DRILLED FROM ICE
 WATER DEPTH - 6.3m
 ORIGINAL BOREHOLE NUMBER - KK-14

SAMPLE TYPE

THIN W. TUBE

NO RECOVERY

SPLIT SPOON

PISTON

CORE

GRAB

EBA ENGINEERING CONSULTANTS LTD.
 EDMONTON ALBERTA
 DRAWING NUMBER

BOREHOLE
 NUMBER
 KK-14

BOREHOLE LOG AND LABORATORY TEST RESULTS

1976 BORROW INVENTORY TININERK BAY IMPERIAL OIL LIMITED				EBA # 1-1330 N7723500 E577800 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												0
1		SILT (ml) - sandy, some gravel, grey										1
2		SAND (sm) - some silt, fine, brown										2
3		SAND (SP) - trace silt, fine medium, brown										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

DRILL RIG - BECKER DRILL DRILLED FROM ICE WATER DEPTH - 6.2m ORIGINAL BOREHOLE NUMBER - KK-16	SAMPLE TYPE THIN W. TUBE NO RECOVERY SPLIT SPOON PISTON CORE GRAB	EBA ENGINEERING CONSULTANTS LTD. EDMONTON ALBERTA DRAWING NUMBER	BOREHOLE NUMBER KK-16
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BOREHOLE LOG AND LABORATORY TEST RESULTS

1976 BORROW INVENTORY TININERK BAY IMPERIAL OIL LIMITED				EBA # 1-1330 N7723800 E577800 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) - sandy, some gravel, grey	UNFROZEN								0	
1			SAND (sm) - silty, fine, grey brown										1
2			- trace silt, fine, uniform, brown										2
3													3
4													4
5													5
6			SILT (ml) - sandy, grey										6
7													7
8			SAND (sm) - some silt, fine, uniform, trace organics, brown										8
9													9
10													10
11													11
12													12
13			END OF BOREHOLE at 13.5m									13	
14												14	
15												15	

DRILL RIG - BECKER DRILL
 DRILLED FROM ICE
 WATER DEPTH - 6.3m
 ORIGINAL BOREHOLE NUMBER - KK-19

SAMPLE TYPE

THIN W. TUBE

NO RECOVERY

SPLIT SPOON

PISTON

CORE

GRAB

EBA ENGINEERING CONSULTANTS LTD.
 EDMONTON ALBERTA
 DRAWING NUMBER

BOREHOLE
 NUMBER
 KK-19

BOREHOLE LOG AND LABORATORY TEST RESULTS

1976 BORROW INVENTORY TININERK BAY IMPERIAL OIL LIMITED				EBA # 1-1330 N7723100 E578000 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) - black, organic	UNFROZEN									0	
1													1
2													2
3													3
4		SILT (ml) - sandy, some gravel, grey											4
5													5
6													6
7													7
8													8
9													9
10													10
11													11
12													12
13													13
14		SAND (sp-sm) - trace silt, trace fine gravel, fine, uniform, brown											14
15												15	
												16	
												17	
												18	
												19	
												20	
												21	
												22	
												23	
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												41	
												42	
												43	
												44	
												45	
												46	
												47	
												48	
												49	
		END OF BOREHOLE at 14.3m											

DRILL RIG - BECKER DRILL
 DRILLED FROM ICE
 WATER DEPTH - 5.5m
 ORIGINAL BOREHOLE NUMBER - MM-12

SAMPLE TYPE

THIN W. TUBE	PISTON
NO RECOVERY	CORE
SPLIT SPOON	GRAB

EBA ENGINEERING CONSULTANTS LTD.
 EDMONTON ALBERTA
 DRAWING NUMBER

BOREHOLE NUMBER
 MM-12

BOREHOLE LOG AND LABORATORY TEST RESULTS

1978 BORROW INVENTORY TININERK BAY IMPERIAL OIL LIMITED				EBA # 1-1330 N7723300 E578000 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) - trace sand, grey	UNFROZEN								0	
1													1
2			SAND (sm) - silty, fine, medium brown										2
3			- some clay layers										3
4			- trace silt (sp-sm), fine, uniform, brown										4
5													5
6													6
7													7
8													8
9			END OF BOREHOLE at 9.2m										9
10													10
11													11
12													12
13													13
14													14
15												15	

DRILL RIG - BECKER DRILL
 DRILLED FROM ICE
 WATER DEPTH - 5.7m
 ORIGINAL BOREHOLE NUMBER - MM-14

SAMPLE TYPE

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

EBA ENGINEERING CONSULTANTS LTD.
 EDMONTON ALBERTA
 DRAWING NUMBER

BOREHOLE NUMBER
 MM-14

BOREHOLE LOG AND LABORATORY TEST RESULTS

1976 BORROW INVENTORY TININERK BAY IMPERIAL OIL LIMITED				EBA # 1-1330 N7723900 E578000 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) - trace sand and gravel, grey	UNFROZEN								0	
1													1
2			SAND (sp-sm) - trace silt, fine uniform, brown										2
3													3
4													4
5													5
6			- some silt (sm), fine, grey brown										6
7			SILT (ml) - trace sand and clay, grey brown										7
8													8
9													9
10			SAND (sm) - some silt, fine, brown, trace coal										10
11													11
12													12
13			- trace silt (sp-sm)										13
14			END OF BOREHOLE at 13.9m										14
15												15	

DRILL RIG - BECKER DRILL
 DRILLED FROM ICE
 WATER DEPTH - 5.9m
 ORIGINAL BOREHOLE NUMBER - MM-20

SAMPLE TYPE

THIN W. TUBE	PISTON
NO RECOVERY	CORE
SPLIT SPOON	GRAB

EBA ENGINEERING CONSULTANTS LTD.
 EDMONTON ALBERTA
 DRAWING NUMBER

BOREHOLE NUMBER
 MM-20

BOREHOLE LOG AND LABORATORY TEST RESULTS

1976 BORROW INVENTORY TININERK BAY IMPERIAL OIL LIMITED				EBA # 1-1330 N7723400 E578100 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) - some sand and gravel	UNFROZEN								0	
1													1
2													2
3			SAND (SP) - trace silt, some gravel, brown										3
4													4
5													5
6													6
7			- trace gravel										7
8													8
9													9
10													10
11													11
12			- silty, very fine, brown										12
13			- trace silt, fine, uniform, brown										13
14													14
15			END OF BOREHOLE at 14.3m									15	

DRILL RIG - BECKER DRILL
 DRILLED FROM ICE
 WATER DEPTH - 5.5m
 ORIGINAL BOREHOLE NUMBER - NN-15

SAMPLE TYPE

THIN W. TUBE	PISTON
NO RECOVERY	CORE
SPLIT SPOON	GRAB

EBA ENGINEERING CONSULTANTS LTD.
 EDMONTON ALBERTA
 DRAWING NUMBER

BOREHOLE NUMBER
 NN-15

BOREHOLE LOG AND LABORATORY TEST RESULTS

1976 BORROW INVENTORY TININERK BAY IMPERIAL OIL LIMITED				EBA # 1-1330 N7723500 E578300 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 (sm) - silty, some clay, fine, dark grey, organic	UNFROZEN								0
1												1
2				POSSIBLY FROZEN								2
3			SILT (ml) - sandy grey	UNFROZEN								3
4												4
5												5
6			SAND (sp-sm) - trace silt, fine, brown									6
7			END OF BOREHOLE at 6.6m	UNFROZEN								7
8												8
9												9
10												10
11												11
12												12
13												13
14												14
15												15

DRILL RIG - BECKER DRILL
 DRILLED FROM ICE
 WATER DEPTH - 3.5m
 ORIGINAL BOREHOLE NUMBER - PP-16

SAMPLE TYPE

THIN W. TUBE

NO RECOVERY

SPLIT SPOON

PISTON

CORE

GRAB

EBA ENGINEERING CONSULTANTS LTD.
 EDMONTON ALBERTA
 DRAWING NUMBER

BOREHOLE NUMBER
 PP-16

BOREHOLE LOG AND LABORATORY TEST RESULTS

1976 BORROW INVENTORY TININERK BAY IMPERIAL OIL LIMITED				EBA # 1-1330 N7723800 E578300 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) - some clay, trace gravel, organic, grey	UNFROZEN								0
1		SAND (sm) - silty, fine, uniform, brown	POSSIBLY FROZEN								1
2											2
3		- trace silt (SP), fine, brown	UNFROZEN								3
4											4
5											5
6	M		UNFROZEN								6
7											7
8											8
9											9
10											10
11											11
12											12
13											13
14											14
15		NOTE: END OF BOREHOLE at 15.3m	UNFROZEN								15

DRILL RIG - BECKER DRILL
 DRILLED FROM ICE
 WATER DEPTH - 4.5m
 ORIGINAL BOREHOLE NUMBER - PP-19

SAMPLE TYPE

THIN W. TUBE	PISTON
NO RECOVERY	CORE
SPLIT SPOON	GRAB

EBA ENGINEERING CONSULTANTS LTD.
 EDMONTON ALBERTA
 DRAWING NUMBER

BOREHOLE NUMBER
 PP-19

BOREHOLE LOG AND LABORATORY TEST RESULTS

1976 BORROW INVENTORY WARREN POINT IMPERIAL OIL LTD				EBA # 1-1330 N7739457 E596054 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 (sm) - fine, some silt										0
1												1
2		- trace gravel, trace silt (SP-SM)	UNFROZEN									2
3												3
4		- trace silt (SP), trace gravel										4
5												5
6		- trace silt (SP-SM)										6
7												7
8												8
9		- (SP)										9
10												10
11												11
12												12
13												13
14			UNFROZEN									14
15		NOTE: END OF BOREHOLE at 15.7m										15

DRILL RIG - BECKER DRILL
 DRILLED FROM ICE
 WATER DEPTH - 6.6m
 ORIGINAL BOREHOLE NUMBER - 76-23

SAMPLE TYPE

THIN W. TUBE	PISTON
NO RECOVERY	CORE
SPLIT SPOON	GRAB

EBA ENGINEERING CONSULTANTS LTD.
 EDMONTON ALBERTA
 DRAWING NUMBER

BOREHOLE NUMBER
 76-23

BOREHOLE LOG AND LABORATORY TEST RESULTS

1976 BORROW INVENTORY TUFT POINT IMPERIAL OIL LTD				EBA # 1-1330 N7739500 E595500 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-SAND (ml) - black organic, very fine sand	UNFROZEN								0								
1																				1
2																				2
3			SAND (sm) - some silt, fine, uniform, brown																	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								
			- silt content decreases slightly (SP-SM)									16								
												17								
												18								
												19								
												20								
												21								
												22								
												23								
												24								
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												45								
												46								
												47								
												48								
												49								
DRILL RIG - BECKER DRILL DRILLED FROM ICE WATER DEPTH - 7.0m ORIGINAL BOREHOLE NUMBER - 76-150				SAMPLE TYPE ☐ THIN W. TUBE ☐ PISTON ☐ NO RECOVERY ☐ CORE ☐ SPLIT SPOON ☒ GRAB		EBA ENGINEERING CONSULTANTS LTD. EDMONTON ALBERTA DRAWING NUMBER				BOREHOLE NUMBER 76-150										

BOREHOLE LOG AND LABORATORY TEST RESULTS

1976 BORROW INVENTORY TUFT POINT IMPERIAL OIL LTD				EBA # 1-1330 N7739500 E585755 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) - silty, organic, thin clay silt layers, fine, grey									0
1			SAND (SP-SM) - trace silt, fine, uniform, grey									1
2												2
3												3
4												4
5												5
6			- trace silt (SP-SM)	UNFROZEN								6
7												7
8												8
9												9
10												10
11												11
12												12
13												13
14			END OF BOREHOLE at 13.5m									14
15												15

DRILL RIG - BECKER DRILL
 DRILLED FROM ICE
 WATER DEPTH - 6.7m
 ORIGINAL BOREHOLE NUMBER - 76-151

SAMPLE TYPE

THIN W. TUBE	PISTON
NO RECOVERY	CORE
SPLIT SPOON	GRAB

EBA ENGINEERING CONSULTANTS LTD.
 EDMONTON ALBERTA
 DRAWING NUMBER

BOREHOLE NUMBER
 76-151

BOREHOLE LOG AND LABORATORY TEST RESULTS

1976 BORROW INVENTORY TUFT POINT IMPERIAL OIL LTD				EBA # 1-1330 N7739500 E598500 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) - some sand, dark brown									0																																																																								
1			SAND (SP-SM) - trace silt, fine, uniform, grey brown									1																																																																								
2												SAND (SP-SM) - trace silt, fine, uniform, grey brown									2																																																															
3																					SAND (SP-SM) - trace silt, fine, uniform, grey brown									3																																																						
4																														SAND (SP-SM) - trace silt, fine, uniform, grey brown									4																																													
5																																							SAND (SP-SM) - trace silt, fine, uniform, grey brown									5																																				
6																																																SAND (SP-SM) - trace silt, fine, uniform, grey brown									6																											
7																																																									SAND (SP-SM) - trace silt, fine, uniform, grey brown									7																		
8																																																																		SAND (SP-SM) - trace silt, fine, uniform, grey brown									8									
9																																																																											SAND (SP-SM) - trace silt, fine, uniform, grey brown									9
10																																																																																				SAND (SP-SM) - trace silt, fine, uniform, grey brown
11	M		- trace silt (SP-SM)	UNFROZEN								11																																																																								
12			END OF BOREHOLE at 13.5m									12																																																																								
13												END OF BOREHOLE at 13.5m									13																																																															
14																					END OF BOREHOLE at 13.5m									14																																																						
15																														END OF BOREHOLE at 13.5m									15																																													
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																																																END OF BOREHOLE at 13.5m																																				
																																																									END OF BOREHOLE at 13.5m																											

DRILL RIG - BECKER DRILL
 DRILLED FROM ICE
 WATER DEPTH - 6.4m
 ORIGINAL BOREHOLE NUMBER - 76-152

SAMPLE TYPE

THIN W. TUBE

NO RECOVERY

SPLIT SPOON

PISTON

CORE

GRAB

EBA ENGINEERING CONSULTANTS LTD.
 EDMONTON ALBERTA
 DRAWING NUMBER

BOREHOLE NUMBER
 76-152

BOREHOLE LOG AND LABORATORY TEST RESULTS

1976 BORROW INVENTORY TUFT POINT IMPERIAL OIL LTD				EBA # 1-1330 N7739500 E596747 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) - trace sand, grey	UNFROZEN									0	
1		SAND (sm) - silty, fine, grey brown											1
2	M	SAND (SP-SM) - - - - -											2
3		- trace silt to some silt, fine, uniform, brown											3
4													4
5													5
6		- decreasing silt content at 6.1m											6
7													7
8													8
9													9
10			UNFROZEN									10	
11	M	- trace silt (SP)											11
12													12
13													13
14		END OF BOREHOLE at 13.4m											14
15													15
													16
													17
													18
													19
												20	
												21	
												22	
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												38	
												39	
												40	
												41	
												42	
												43	
												44	
												45	
												46	
												47	
												48	
												49	

DRILL RIG - BECKER DRILL
 DRILLED FROM ICE
 WATER DEPTH - 6.4m
 ORIGINAL BOREHOLE NUMBER - 76-153

SAMPLE TYPE

THIN W. TUBE	PISTON
NO RECOVERY	CORE
SPLIT SPOON	GRAB

EBA ENGINEERING CONSULTANTS LTD.
 EDMONTON ALBERTA
 DRAWING NUMBER

BOREHOLE NUMBER
 76-153

BOREHOLE LOG AND LABORATORY TEST RESULTS

1976 BORROW INVENTORY TUFT POINT IMPERIAL OIL LTD				EBA # 1-1330 N7740000 E596000 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) - sandy, organic, grey soft										0
1												1
2		SAND (sm) - some silt, fine, uniform, grey										2
3												3
4		- trace silt to some silt (SP-SM), fine, uniform, grey brown										4
5												5
6												6
7												7
8												8
9												9
10												10
11												11
12												12
13		END OF BOREHOLE at 13.0m										13
14												14
15												15

DRILL RIG - BECKER DRILL
 DRILLED FROM ICE
 WATER DEPTH - 6.8m
 ORIGINAL BOREHOLE NUMBER - 76-154

SAMPLE TYPE

THIN W. TUBE	PISTON
NO RECOVERY	CORE
SPLIT SPOON	GRAB

EBA ENGINEERING CONSULTANTS LTD.
 EDMONTON ALBERTA

DRAWING NUMBER

BOREHOLE
 NUMBER
 76-154

BOREHOLE LOG AND LABORATORY TEST RESULTS

1976 BORROW INVENTORY TUFT POINT IMPERIAL OIL LTD				EBA # 1-1330 N7739744 E596000 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) – trace sand, organic, grey									0
1												1
2			SAND (sm) – silty, fine, grey brown									2
3												3
4			– trace silt, fine, uniform, grey brown									4
5												5
6												6
7												7
8												8
9												9
10												10
11			– trace to some silt (SP-SM)	UNFROZEN								11
12												12
13			END OF BOREHOLE at 13.2m									13
14												14
15												15

DRILL RIG – BECKER DRILL
 DRILLED FROM ICE
 WATER DEPTH – 6.6m
 ORIGINAL BOREHOLE NUMBER – 76-155

SAMPLE TYPE

THIN W. TUBE	PISTON
NO RECOVERY	CORE
SPLIT SPOON	GRAB

EBA ENGINEERING CONSULTANTS LTD.
 EDMONTON ALBERTA
 DRAWING NUMBER

BOREHOLE NUMBER
 76-155

BOREHOLE LOG AND LABORATORY TEST RESULTS

1976 BORROW INVENTORY TUFT POINT IMPERIAL OIL LTD				EBA # 1-1330 N7739248 E596000 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) - some clay, trace sand, grey	UNFROZEN								0	
1			SAND (SP-SM) - some silt, fine, uniform, brown										1
2	M		- trace silt, fine, uniform, brown										2
3													3
4													4
5													5
6													6
7													7
8													8
9													9
10													10
11													11
12													12
13													13
14			END OF BOREHOLE at 13.7m										14
15												15	

DRILL RIG - BECKER DRILL
 DRILLED FROM ICE
 WATER DEPTH - 6.1m
 ORIGINAL BOREHOLE NUMBER - 76-156

SAMPLE TYPE

THIN W. TUBE	PISTON
NO RECOVERY	CORE
SPLIT SPOON	GRAB

EBA ENGINEERING CONSULTANTS LTD.
 EDMONTON ALBERTA
 DRAWING NUMBER

BOREHOLE NUMBER
 76-156

BOREHOLE LOG AND LABORATORY TEST RESULTS

1976 BORROW INVENTORY TUFT POINT IMPERIAL OIL LTD				EBA # 1-1330 N7739246 E596250 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) - sandy, grey									0
			SAND (sm) - some silt, fine, uniform, grey brown									1
1												2
			- trace silt, fine, uniform, brown									3
2												4
												5
3												6
												7
4												8
												9
5												10
												11
6												12
												13
7												14
												15
8												16
												17
9												18
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10												20
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15												30
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												37
												38
												39
												40
												41
												42
												43
												44
												45
												46
												47
												48
												49
DRILL RIG - BECKER DRILL DRILLED FROM ICE WATER DEPTH - 6.2m ORIGINAL BOREHOLE NUMBER - 76-158				SAMPLE TYPE ☐ THIN W. TUBE ☐ PISTON ☐ NO RECOVERY ☐ CORE ☐ SPLIT SPOON ☒ GRAB		EBA ENGINEERING CONSULTANTS LTD. EDMONTON ALBERTA DRAWING NUMBER				BOREHOLE NUMBER 76-158		

BOREHOLE LOG AND LABORATORY TEST RESULTS

1978 BORROW INVENTORY TUFT POINT IMPERIAL OIL LTD				EBA # 1-1330 N7740000 E596500 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 (sm) - silty, fine, uniform, grey									0
1												1
2												2
3												3
4			- trace to some silt									4
5												5
6			- trace silt									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 - BECKER DRILL
 DRILLED FROM ICE
 WATER DEPTH - 6.8m
 ORIGINAL BOREHOLE NUMBER - 76-161

SAMPLE TYPE

THIN W. TUBE	PISTON
NO RECOVERY	CORE
SPLIT SPOON	GRAB

EBA ENGINEERING CONSULTANTS LTD.
 EDMONTON ALBERTA
 DRAWING NUMBER

BOREHOLE NUMBER
 76-161

BOREHOLE LOG AND LABORATORY TEST RESULTS

1976 BORROW INVENTORY TUFT POINT IMPERIAL OIL LTD				EBA # 1-1330 N7739000 E596250 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-SM) - trace to some silt, trace fine gravel, brown									0
1				UNFROZEN								1
2												2
3												3
4												4
5												5
6			- trace silt (SP), fine, uniform, brown									6
7												7
8				UNFROZEN								8
9												9
10												10
11												11
12												12
13												13
14												14
15			NOTE: END OF BOREHOLE at 15.2m									15

DRILL RIG - BECKER DRILL
 DRILLED FROM ICE
 WATER DEPTH - 4.6m
 ORIGINAL BOREHOLE NUMBER - 76-162

SAMPLE TYPE

THIN W. TUBE

NO RECOVERY

SPLIT SPOON

PISTON

CORE

GRAB

EBA ENGINEERING CONSULTANTS LTD.
 EDMONTON ALBERTA
 DRAWING NUMBER

BOREHOLE NUMBER
 76-162

BOREHOLE LOG AND LABORATORY TEST RESULTS

1976 BORROW INVENTORY TUFT POINT IMPERIAL OIL LTD				EBA # 1-1330 N7739000 E596500 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 (sm) - silty, fine, uniform, trace pebbles, brown									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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												41
												42
												43
												44
												45
												46
												47
												48
												49

DRILL RIG - BECKER DRILL
 DRILLED FROM ICE
 WATER DEPTH - 4.1m
 ORIGINAL BOREHOLE NUMBER - 76-163

SAMPLE TYPE

THIN W. TUBE
 NO RECOVERY
 SPLIT SPOON

PISTON
 CORE
 GRAB

EBA ENGINEERING CONSULTANTS LTD.
 EDMONTON ALBERTA
 DRAWING NUMBER

BOREHOLE NUMBER
 76-163

BOREHOLE LOG AND LABORATORY TEST RESULTS

1976 BORROW INVENTORY WARREN POINT IMPERIAL OIL LTD.				EBA # 1-1330 N7739720 E598148 Z8		Bulk Density Mo/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) - Very organic, black, foul smelling	UNFROZEN									0	
1													1
2													2
3		SILT-SAND (ml) - light grey, some silt clay layers											3
4		SAND (SP) - silty, fine, brown, medium grey, black, organic rich											4
5													5
6													6
7													7
8													8
9													9
10		SILT-SAND (ml) - black, organic											10
11		END OF BOREHOLE at 11.0m										11	
12												12	
13												13	
14												14	
15												15	

DRILL RIG - BECKER DRILL
 DRILLED FROM ICE
 WATER DEPTH - 6.4m
 ORIGINAL BOREHOLE NUMBER - 76-24

SAMPLE TYPE

THIN W. TUBE

NO RECOVERY

SPLIT SPOON

PISTON

CORE

GRAB

EBA ENGINEERING CONSULTANTS LTD.
 EDMONTON ALBERTA
 DRAWING NUMBER

BOREHOLE NUMBER
 76-24

BOREHOLE LOG AND LABORATORY TEST RESULTS

1976 BORROW INVENTORY WARREN POINT IMPERIAL OIL LTD.				EBA # 1-1330 N7742192 E600656 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)										0
1												1
2		SAND (sm) - silty, fine, grey brown										2
3		- fine, some silt (SP-SM), trace gravel										3
4			UNFROZEN									4
5												5
6												6
7		- some silty layers										7
8			UNFROZEN									8
9												9
10		END OF BOREHOLE at 10.1m										10
11												11
12												12
13												13
14												14
15												15

DRILL RIG - BECKER DRILL
 DRILLED FROM ICE
 WATER DEPTH - 7.3m
 ORIGINAL BOREHOLE NUMBER - 76-25

SAMPLE TYPE

THIN W. TUBE

NO RECOVERY

SPLIT SPOON

PISTON

CORE

GRAB

EBA ENGINEERING CONSULTANTS LTD.
 EDMONTON ALBERTA
 DRAWING NUMBER

BOREHOLE NUMBER
 76-25

BOREHOLE LOG AND LABORATORY TEST RESULTS

1976 BORROW INVENTORY WARREN POINT IMPERIAL OIL LTD. N7743201 E602149 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) - organic, foul smelling	UNFROZEN							0						
1			SAND (sm) - silty, organic, fine, some sand silt														1
2			SILT-CLAY (ml) - very stiff														2
3			SAND (SM) - silty, fine, medium brown - trace gravel	UNFROZEN							3						
4																	4
5			- trace silt (SP-SM)														5
6				UNFROZEN							6						
7																	7
8			- trace of organics														8
9											9						
10																	10
11																	11
12			END OF BOREHOLE at 12.3m								12						
13											13						
14											14						
15											15						

DRILL RIG - BECKER DRILL
 DRILLED FROM ICE
 WATER DEPTH - 7.6m
 ORIGINAL BOREHOLE NUMBER - 76-26

SAMPLE TYPE

THIN W. TUBE

NO RECOVERY

SPLIT SPOON

PISTON

CORE

GRAB

EBA ENGINEERING CONSULTANTS LTD.
 EDMONTON ALBERTA
 DRAWING NUMBER

BOREHOLE NUMBER
 76-26

BOREHOLE LOG AND LABORATORY TEST RESULTS

1976 BORROW INVENTORY BELUGA SHOALS IMPERIAL OIL LTD.				EBA # 1-1330 N7741116 E613426 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) - soft, grey	UNFROZEN								0		
1			SAND (sm) - some silt, fine, black, organic - fine, trace silt (SP), trace gravel - some shell fragments, wood and coal										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			END OF BOREHOLE at 8.4m									15		

DRILL RIG - BECKER DRILL
 DRILLED FROM ICE
 WATER DEPTH - 6.6m
 ORIGINAL BOREHOLE NUMBER - 76-30

SAMPLE TYPE

THIN W. TUBE	PISTON
NO RECOVERY	CORE
SPLIT SPOON	GRAB

EBA ENGINEERING CONSULTANTS LTD.
 EDMONTON ALBERTA
 DRAWING NUMBER

BOREHOLE NUMBER
 76-30

BOREHOLE LOG AND LABORATORY TEST RESULTS

1976 BORROW INVENTORY BELUGA SHOALS IMPERIAL OIL LTD.				EBA # 1-1330 N7743722 E612461 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-CLAY (ml) - soft, grey	UNFROZEN								0	
1													1
2			SAND-SILT (sm) - fine, dark grey										2
3													3
4			SAND (SP) - trace silt, grey										4
5													5
6			SILT-CLAY (ml) - dark grey									6	
7			SAND (sm) - trace silt, brown									7	
8												8	
9			END OF BOREHOLE at 8.2m									9	
10												10	
11												11	
12												12	
13												13	
14												14	
15												15	

DRILL RIG - BECKER DRILL
 DRILLED FROM ICE
 WATER DEPTH - 6.7m
 ORIGINAL BOREHOLE NUMBER - 76-31

SAMPLE TYPE

THIN W. TUBE	PISTON
NO RECOVERY	CORE
SPLIT SPOON	GRAB

EBA ENGINEERING CONSULTANTS LTD.
 EDMONTON ALBERTA
 DRAWING NUMBER

BOREHOLE NUMBER
 76-31

BOREHOLE LOG AND LABORATORY TEST RESULTS

1976 BORROW INVENTORY BELUGA SHOALS IMPERIAL OIL LTD.				EBA # 1-1330 N7748481 E611381 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) - grey	UNFROZEN								0																																																																
1												UNFROZEN								1																																																								
2			SAND-SILT (sm) - some clay silt layers																	UNFROZEN								2																																																
3			SILT-CLAY (ml) - stiff to hard																									UNFROZEN								3																																								
4			SAND (SP-SM) - fine, some silt																																	UNFROZEN								4																																
5			- trace silt, wood pieces																																									UNFROZEN								5																								
6																																																				UNFROZEN								6																
7																																																												UNFROZEN								7								
8																																																																				UNFROZEN								8
9			- trace gravel																																																																									UNFROZEN
10				UNFROZEN									10																																																															
11			END OF BOREHOLE at 10.5m										11																																																															
12													12																																																															
13													13																																																															
14													14																																																															
15													15																																																															

DRILL RIG - BECKER DRILL
 DRILLED FROM ICE
 WATER DEPTH - 6.8m
 ORIGINAL BOREHOLE NUMBER - 76-32

SAMPLE TYPE

☐ THIN W. TUBE

☐ NO RECOVERY

☐ SPLIT SPOON

☐ PISTON

☐ CORE

☐ GRAB

EBA ENGINEERING CONSULTANTS LTD.
 EDMONTON ALBERTA
 DRAWING NUMBER

BOREHOLE NUMBER
 76-32

BOREHOLE LOG AND LABORATORY TEST RESULTS

1976 BORROW INVENTORY BELUGA SHOALS IMPERIAL OIL LTD.				EBA # 1-1330 N7743170 E605033 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-CLAY (ml) - dark grey, hard	UNFROZEN						DEPTH (ft)	
	1											
	2											
	3											
	4											
	5											
	6											
	7											
	8											
	9											
	10											
	11											
	12											
	13											
	14											
15											49	
DRILL RIG - BECKER DRILL DRILLED FROM ICE WATER DEPTH - 5.8m ORIGINAL BOREHOLE NUMBER - 76-33				SAMPLE TYPE THIN W. TUBE NO RECOVERY SPLIT SPOON PISTON CORE GRAB				EBA ENGINEERING CONSULTANTS LTD. EDMONTON ALBERTA DRAWING NUMBER		BOREHOLE NUMBER 76-33		

BOREHOLE LOG AND LABORATORY TEST RESULTS

1976 BORROW INVENTORY BELUGA SHOALS IMPERIAL OIL LTD.				EBA # 1-1330 N7747625 E614317 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) - medium grey, soft	UNFROZEN								0
1												1
2												2
3												3
4												4
5												5
6			SAND (sm) - silty, medium grey									6
7			END OF BOREHOLE at 7.2m									7
8												8
9												9
10												10
11												11
12												12
13												13
14												14
15												15

DRILL RIG - BECKER DRILL
 DRILLED FROM ICE
 WATER DEPTH - 7.7m
 ORIGINAL BOREHOLE NUMBER - 76-34

SAMPLE TYPE

☐ THIN W. TUBE

☐ NO RECOVERY

☐ SPLIT SPOON

☐ PISTON

☐ CORE

☐ GRAB

EBA ENGINEERING CONSULTANTS LTD.
 EDMONTON ALBERTA
 DRAWING NUMBER

BOREHOLE NUMBER
 76-34

BOREHOLE LOG AND LABORATORY TEST RESULTS

1976 BORROW INVENTORY BELUGA SHOALS IMPERIAL OIL LTD.				EBA # 1-1330 N7747788 E608452 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.											
0												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 - BECKER DRILL
 DRILLED FROM ICE
 WATER DEPTH - 7.2m
 ORIGINAL BOREHOLE NUMBER - 76-35

SAMPLE TYPE

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

EBA ENGINEERING CONSULTANTS LTD.
 EDMONTON ALBERTA
 DRAWING NUMBER

BOREHOLE NUMBER
 76-35

BOREHOLE LOG AND LABORATORY TEST RESULTS

1976 BORROW INVENTORY BELUGA SHOALS IMPERIAL OIL LTD.				EBA # 1-1330 N7745455 E808452 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											
0			SAND (SP) - trace silt	UNFROZEN								0	
1			SAND-SILT (sm) - fine, medium grey										1
2			SAND (sm) - fine, medium grey, some silt										2
3			SILT-SAND (ml) - fine, light brown										3
4			SILT-CLAY (ml) - medium brown										4
5			- stiff to hard										5
6			END OF BOREHOLE at 7.4m									6	
7												7	
8												8	
9												9	
10												10	
11												11	
12												12	
13												13	
14												14	
15												15	

DRILL RIG - BECKER DRILL
 DRILLED FROM ICE
 WATER DEPTH - 5.0m
 ORIGINAL BOREHOLE NUMBER - 76-36

SAMPLE TYPE

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

EBA ENGINEERING CONSULTANTS LTD.
 EDMONTON ALBERTA
 DRAWING NUMBER

BOREHOLE NUMBER
 76-36

BOREHOLE LOG AND LABORATORY TEST RESULTS

1976 BORROW INVENTORY BELUGA SHOALS IMPERIAL OIL LTD.				EBA # 1-1330 N7744134 E612178 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) - grey									0
1												1
2			SAND-SILT (sm) - fine, grey brown									2
3												3
4			SAND (SP) - fine, trace silt									4
5				UNFROZEN								5
6												6
7			- some silty clay layers									7
8												8
9												9
10				UNFROZEN								10
11			SILT-CLAY (ml) END OF BOREHOLE at 10.8m									11
12												12
13												13
14												14
15												15

DRILL RIG - BECKER DRILL
 DRILLED FROM ICE
 WATER DEPTH - 6.6m
 ORIGINAL BOREHOLE NUMBER - 76-43

SAMPLE TYPE

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

EBA ENGINEERING CONSULTANTS LTD.
 EDMONTON ALBERTA
 DRAWING NUMBER

BOREHOLE NUMBER
 76-43

BOREHOLE LOG AND LABORATORY TEST RESULTS

1976 BORROW INVENTORY BELUGA SHOALS
IMPERIAL OIL LTD.

EBA # 1-1330
N7744243 E613674 ZB

DEPTH (m)	SAMPLE		SOIL DESCRIPTION	GROUND ICE DESCRIPTION	TEMP C	PLASTIC LIMIT				WATER CONTENT (%)	LIQUID LIMIT	TESTS	UNIT	DEPTH (ft)			
	TYP	NO. Q				20	40	60	80								
0	M		SAND (SP) - fine, medium brown	UNFROZEN										0			
1			SILT-CLAY (ml) - grey													1	
			SAND (sm) - silty, fine, black organic													2	
2			SILT-SAND (ml) - black, some silt clay layers													3	
3			SILT-CLAY (ml) - some fine sand organic													4	
4																5	
5																6	
6							SAND-SILT (sm) - wood chips										7
7							SILT-CLAY (ml)										8
							SILT-SAND (ml) - medium grey brown										9
8							END OF BOREHOLE at 6.9m										10
9																	11
10																	12
11																	13
12																	14
13													15				
14													16				
15													17				
													18				
													19				
													20				
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													25				
													26				
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													28				
													29				
													30				
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													32				
													33				
													34				
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													38				
													39				
													40				
													41				
													42				
													43				
													44				
													45				
													46				
													47				
													48				
													49				

DRILL RIG - BECKER DRILL
DRILLED FROM ICE
WATER DEPTH - 5.6m
ORIGINAL BOREHOLE NUMBER - 76-44

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

EBA ENGINEERING CONSULTANTS LTD.
EDMONTON ALBERTA
DRAWING NUMBER

BOREHOLE NUMBER
76-44

BOREHOLE LOG AND LABORATORY TEST RESULTS

1976 BORROW INVENTORY ATKINSON POINT IMPERIAL OIL LTD.				EBA # 1-1330 N7760060 E403950 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			SAND (SP) - trace silt, fine, uniform	UNFROZEN							
1											
2			- silty								
3											
4											
5											
6											
7			- some to trace silt (SP)	UNFROZEN							
8											
9											
10											
11											
12											
13			- silty, fine, uniform, medium brown								
14			END OF BOREHOLE at 13.6m								
15											

DRILL RIG - BECKER DRILL
 DRILLED FROM ICE
 WATER DEPTH - 6.2m
 ORIGINAL BOREHOLE NUMBER 76-61

SAMPLE TYPE

THIN W. TUBE	PISTON
NO RECOVERY	CORE
SPLIT SPOON	GRAB

EBA ENGINEERING CONSULTANTS LTD.
 EDMONTON ALBERTA
 DRAWING NUMBER

BOREHOLE NUMBER
 76-61

BOREHOLE LOG AND LABORATORY TEST RESULTS

1976 BORROW INVENTORY ATKINSON POINT IMPERIAL OIL LTD.				EBA # 1-1330 N7757550 E401730 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 silt, fine, uniform, medium brown									0
1				UNFROZEN								1
2			- silty									2
3												3
4												4
5												5
6				UNFROZEN								6
7			- trace silt (SP)									7
8			- silty									8
9												9
10												10
11												11
12												12
13			END OF BOREHOLE at 12.5m									13
14												14
15												15

DRILL RIG - BECKER DRILL
 DRILLED FROM ICE
 WATER DEPTH - 7.3m
 ORIGINAL BOREHOLE NUMBER 76-62

SAMPLE TYPE

THIN W. TUBE	PISTON
NO RECOVERY	CORE
SPLIT SPOON	GRAB

EBA ENGINEERING CONSULTANTS LTD.
 EDMONTON ALBERTA
 DRAWING NUMBER

BOREHOLE NUMBER
 76-62

BOREHOLE LOG AND LABORATORY TEST RESULTS

1976 BORROW INVENTORY MCKINLEY BAY IMPERIAL OIL LTD.				EBA # 1-1330 N7780890 E417470 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 (sm) - silty, fine, uniform, dark brown									0
1												1
2												2
3			- trace silt (SP)									3
4			SILT (ml) - clayey, plastic	UNFROZEN								4
5			SAND (SP) - trace silt, trace gravel, fine to medium, uniform, twigs, organics									5
6				UNFROZEN								6
7												7
8			- silty, fine, uniform, medium to dark brown									8
9												9
10												10
11												11
12												12
13			END OF BOREHOLE at 12.4m									13
14												14
15												15

DRILL RIG - BECKER DRILL
 DRILLED FROM ICE
 WATER DEPTH - 5.0m
 ORIGINAL BOREHOLE NUMBER 76-70

SAMPLE TYPE

☐ THIN W. TUBE

☐ NO RECOVERY

☐ SPLIT SPOON

☐ PISTON

☐ CORE

☐ GRAB

EBA ENGINEERING CONSULTANTS LTD.
 EDMONTON ALBERTA
 DRAWING NUMBER

BOREHOLE NUMBER
 76-70

BOREHOLE LOG AND LABORATORY TEST RESULTS

1976 BORROW INVENTORY MCKINLEY BAY IMPERIAL OIL LTD.				EBA # 1-1330 N7761980 E416290 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) - trace sand, medium plastic, dark grey	UNFROZEN								0	
1													1
2			SAND (SP-SM) - some silt, fine										2
3													3
4													4
5			- some gravel, trace silt (SP), well graded										5
6													6
7			- trace silt (SP), trace gravel, fine, uniform, clean										7
8					UNFROZEN								8
9													
10													10
11													11
12													12
13			SILT (ml) - medium plastic										13
14			END OF BOREHOLE at 12.8m										14
15													15
													16
													17
												18	
												19	
												20	
												21	
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												43	
												44	
												45	
												46	
												47	
												48	
												49	

DRILL RIG - BECKER DRILL
 DRILLED FROM ICE
 WATER DEPTH - 6.1m
 ORIGINAL BOREHOLE NUMBER 76-71

SAMPLE TYPE

THIN W. TUBE	PISTON
NO RECOVERY	CORE
SPLIT SPOON	GRAB

EBA ENGINEERING CONSULTANTS LTD.
 EDMONTON ALBERTA
 DRAWING NUMBER

BOREHOLE NUMBER
 76-71

BOREHOLE LOG AND LABORATORY TEST RESULTS

1976 BORROW INVENTORY MCKINLEY BAY IMPERIAL OIL LTD.				EBA # 1-1330 N7761690 E415560 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 fine sand, dark grey	UNFROZEN								0	
1													1
2			SAND (sm) - very fine, silty uniform										2
3													3
4			SILT (ml) - medium plastic, dark grey brown									4	
5												5	
6												6	
7			END OF BOREHOLE at 6.8m									7	
8												8	
9												9	
10												10	
11												11	
12												12	
13												13	
14												14	
15												15	

DRILL RIG - BECKER DRILL
 DRILLED FROM ICE
 WATER DEPTH - 5.7m
 ORIGINAL BOREHOLE NUMBER 76-72

SAMPLE TYPE

☐ THIN W. TUBE
☐ NO RECOVERY
☐ SPLIT SPOON

☐ PISTON
☐ CORE
☐ GRAB

EBA ENGINEERING CONSULTANTS LTD.
 EDMONTON ALBERTA
 DRAWING NUMBER

BOREHOLE NUMBER
 76-72

BOREHOLE LOG AND LABORATORY TEST RESULTS

1976 BORROW INVENTORY MCKINLEY BAY IMPERIAL OIL LTD.				EBA # 1-1330 N7761430 E414540 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-SM) - some silt to silty, very fine, uniform									0
1												1
2			SAND-SILT (sm) - very fine, uniform	UNFROZEN								2
3			SAND (SP-SM) - trace silt, fine uniform									3
4				UNFROZEN								4
5			- silty									5
6												6
7			SILT (ml) - clayey, dark grey brown									7
8			END OF BOREHOLE at 7.9m									8
9												9
10												10
11												11
12												12
13												13
14												14
15												15

DRILL RIG - BECKER DRILL
 DRILLED FROM ICE
 WATER DEPTH - 4.6m
 ORIGINAL BOREHOLE NUMBER 76-73

SAMPLE TYPE

☐ THIN W. TUBE

☐ NO RECOVERY

☐ SPLIT SPOON

☐ PISTON

☐ CORE

☐ GRAB

EBA ENGINEERING CONSULTANTS LTD.
 EDMONTON ALBERTA
 DRAWING NUMBER

BOREHOLE NUMBER
 76-73

BOREHOLE LOG AND LABORATORY TEST RESULTS

1976 BORROW INVENTORY MCKINLEY BAY IMPERIAL OIL LTD.				EBA # 1-1330 N7761090 E413530 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) - sandy, fine sand, some clay, low to medium plastic	UNFROZEN								0	
1													1
2													2
3			SAND (SP) - trace silt to clean, fine, uniform										3
4													4
5													5
6													6
7			SILT (sm) - sandy, fine sand										7
8													8
9													9
10			END OF BOREHOLE at 9.4m									10	
11												11	
12												12	
13												13	
14												14	
15												15	

DRILL RIG - BECKER DRILL
 DRILLED FROM ICE
 WATER DEPTH - 3.0m
 ORIGINAL BOREHOLE NUMBER 76-74

SAMPLE TYPE

THIN W. TUBE
 NO RECOVERY
 SPLIT SPOON

PISTON
 CORE
 GRAB

EBA ENGINEERING CONSULTANTS LTD.
 EDMONTON ALBERTA
 DRAWING NUMBER

BOREHOLE NUMBER
 76-74

BOREHOLE LOG AND LABORATORY TEST RESULTS

1976 BORROW INVENTORY MCKINLEY BAY IMPERIAL OIL LTD.				EBA # 1-1330 N7762180 E417890 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-SILT (SM) - to some silt, fine	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	
			CLAY-SILT (cl) - firm, trace of fine sand									16	
												17	
												18	
												19	
												20	
												21	
												22	
												23	
												24	
												25	
												26	
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												44	
												45	
												46	
												47	
												48	
												49	

DRILL RIG - BECKER DRILL
 DRILLED FROM ICE
 WATER DEPTH - 5.2m
 ORIGINAL BOREHOLE NUMBER 76-75

SAMPLE TYPE

THIN W. TUBE

NO RECOVERY

SPLIT SPOON

PISTON

CORE

GRAB

EBA ENGINEERING CONSULTANTS LTD.
 EDMONTON ALBERTA

DRAWING NUMBER

BOREHOLE NUMBER
 76-75

BOREHOLE LOG AND LABORATORY TEST RESULTS

1976 BORROW INVENTORY MCKINLEY BAY IMPERIAL OIL LTD.				EBA # 1-1330 N7762970 E418120 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) - some silt, fine, dark brown	UNFROZEN							0		
1												1	
2												2	
3			- silty, fine, uniform									3	
4												4	
5			SILT (ml) - low plastic, firm, dark grey									5	
6			SAND (SP) - trace silt, medium to fine		UNFROZEN							6	
7													7
8													8
9													9
10												10	
11												11	
12												12	
13												13	
14												14	
15			END OF BOREHOLE at 14.8m									15	

DRILL RIG - BECKER DRILL
 DRILLED FROM ICE
 WATER DEPTH - 5.0m
 ORIGINAL BOREHOLE NUMBER 76-76

SAMPLE TYPE

THIN W. TUBE	PISTON
NO RECOVERY	CORE
SPLIT SPOON	GRAB

EBA ENGINEERING CONSULTANTS LTD.
 EDMONTON ALBERTA
 DRAWING NUMBER

BOREHOLE NUMBER
 76-76

BOREHOLE LOG AND LABORATORY TEST RESULTS

1976 BORROW INVENTORY MCKINLEY BAY IMPERIAL OIL LTD.				EBA # 1-1330 N7763910 E418160 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 silt to clean, fine, uniform									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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												41
												42
												43
												44
												45
												46
												47
												48
												49

DRILL RIG - BECKER DRILL
 DRILLED FROM ICE
 WATER DEPTH - 5.2m
 ORIGINAL BOREHOLE NUMBER 76-77

SAMPLE TYPE

THIN W. TUBE

NO RECOVERY

SPLIT SPOON

PISTON

CORE

GRAB

EBA ENGINEERING CONSULTANTS LTD.
 EDMONTON ALBERTA
 DRAWING NUMBER

BOREHOLE NUMBER
 76-77
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BOREHOLE LOG AND LABORATORY TEST RESULTS

1976 BORROW INVENTORY MCKINLEY BAY IMPERIAL OIL LTD.				EBA # 1-1330 N7763910 E418160 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										
			SAND (SP) - (cont'd)									50
												51
												52
												53
												54
												55
												56
												57
												58
												59
												60
												61
												62
												63
				END OF BOREHOLE at 19.5m								64
												65
												66
												67
												68
												69
												70
												71
												72
												73
												74
												75
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												92
												93
												94
												95
												96
												97
												98

DRILL RIG - BECKER DRILL
 DRILLED FROM ICE
 WATER DEPTH - 5.2m
 ORIGINAL BOREHOLE NUMBER 76-77

SAMPLE TYPE

THIN W. TUBE
 NO RECOVERY
 SPLIT SPOON

PISTON
 CORE
 GRAB

EBA ENGINEERING CONSULTANTS LTD.
 EDMONTON ALBERTA
 DRAWING NUMBER

BOREHOLE NUMBER
 76-77
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BOREHOLE LOG AND LABORATORY TEST RESULTS

1976 BORROW INVENTORY MCKINLEY BAY IMPERIAL OIL LTD.				EBA # 1-1330 N7764950 E418430 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 silt, fine, uniform, dark brown	UNFROZEN								0
1												1
2												2
3												3
4			- some silt (SP-SM), uniform, fine									4
5												5
6												6
7												7
8												8
9			- clean to trace silt (SP), fine									9
10												10
11												11
12				UNFROZEN								12
13												13
14												14
15												15
												16
												17
												18
												19
												20
												21
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												41
												42
												43
												44
												45
												46
												47
												48
												49

DRILL RIG - BECKER DRILL
 DRILLED FROM ICE
 WATER DEPTH - 6.4m
 ORIGINAL BOREHOLE NUMBER 76-78

SAMPLE TYPE

THIN W. TUBE	PISTON
NO RECOVERY	CORE
SPLIT SPOON	GRAB

EBA ENGINEERING CONSULTANTS LTD.
 EDMONTON ALBERTA
 DRAWING NUMBER

BOREHOLE
 NUMBER
 76-78
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BOREHOLE LOG AND LABORATORY TEST RESULTS

1976 BORROW INVENTORY MCKINLEY BAY IMPERIAL OIL LTD.				EBA # 1-1330 N7764950 E418430 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										
15			SAND (SP-SM) - (cont'd)									50
16			- trace to some silt, fine, uniform									51
17												52
18												53
19			END OF BOREHOLE at 18.3m									54
20												55
21												56
22												57
23												58
24												59
25												60
26												61
27												62
28												63
29												64
30												65
												66
												67
												68
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												88
												89
												90
												91
												92
												93
												94
												95
												96
												97
												98

DRILL RIG - BECKER DRILL
 DRILLED FROM ICE
 WATER DEPTH - 6.4m
 ORIGINAL BOREHOLE NUMBER 76-78

SAMPLE TYPE

☐ THIN W. TUBE

☐ NO RECOVERY

☐ SPLIT SPOON

☐ PISTON

☐ CORE

☐ GRAB

EBA ENGINEERING CONSULTANTS LTD.
 EDMONTON ALBERTA
 DRAWING NUMBER

BOREHOLE NUMBER
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BOREHOLE LOG AND LABORATORY TEST RESULTS

1976 BORROW INVENTORY MCKINLEY BAY IMPERIAL OIL LTD.				EBA # 1-1330 N7765710 E418795 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 silt, fine, uniform	UNFROZEN								0
1			- some silt to silty (SM), medium brown, fine	UNFROZEN								1
2												2
3												3
4			- less silt, fine, uniform									4
5												5
6			- some silt									6
7												7
8												8
9			END OF BOREHOLE at 8.5m									9
10												10
11												11
12												12
13												13
14												14
15												15

DRILL RIG - BECKER DRILL
 DRILLED FROM ICE
 WATER DEPTH - 6.4m
 ORIGINAL BOREHOLE NUMBER 76-79

SAMPLE TYPE

☐ THIN W. TUBE

☐ NO RECOVERY

☐ SPLIT SPOON

☐ PISTON

☐ CORE

☐ GRAB

EBA ENGINEERING CONSULTANTS LTD.
 EDMONTON ALBERTA
 DRAWING NUMBER

BOREHOLE NUMBER
 76-79

BOREHOLE LOG AND LABORATORY TEST RESULTS

1976 BORROW INVENTORY MCKINLEY BAY IMPERIAL OIL LTD.				EBA # 1-1330 N7764980 E417450 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) - trace sand, dark grey brown	UNFROZEN								0	
1													1
2													2
3													3
4			SAND (SP-SM) - some silt, trace gravel, fine										4
5													5
6													6
7													7
8			- trace silt										8
9													9
10			END OF BOREHOLE at 9.4m										10
11													11
12													12
13													13
14													14
15												15	

DRILL RIG - BECKER DRILL
 DRILLED FROM ICE
 WATER DEPTH - 7.9m
 ORIGINAL BOREHOLE NUMBER 76-82

SAMPLE TYPE

THIN W. TUBE

NO RECOVERY

SPLIT SPOON

PISTON

CORE

GRAB

EBA ENGINEERING CONSULTANTS LTD.
 EDMONTON ALBERTA
 DRAWING NUMBER

BOREHOLE NUMBER
 76-82

BOREHOLE LOG AND LABORATORY TEST RESULTS

1976 BORROW INVENTORY MCKINLEY BAY IMPERIAL OIL LTD.				EBA # 1-1330 N7765000 E416440 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) - trace sand	UNFROZEN								0
1			SAND (sm) - silty, fine									1
2												2
3												3
4			- less silt									4
5			- trace silt (SP), uniform									5
6												6
7												7
8			- some gravel									8
9			END OF BOREHOLE at 8.5m									9
10												10
11												11
12												12
13												13
14												14
15				15								

DRILL RIG - BECKER DRILL
 DRILLED FROM ICE
 WATER DEPTH - 6.4m
 ORIGINAL BOREHOLE NUMBER 76-86

SAMPLE TYPE

THIN W. TUBE	PISTON
NO RECOVERY	CORE
SPLIT SPOON	GRAB

EBA ENGINEERING CONSULTANTS LTD.
 EDMONTON ALBERTA
 DRAWING NUMBER

BOREHOLE NUMBER
 76-86

BOREHOLE LOG AND LABORATORY TEST RESULTS

1976 BORROW INVENTORY MCKINLEY BAY IMPERIAL OIL LTD.				EBA # 1-1330 N7762560 E420330 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 silt, fine uniform	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

DEPTH (m)

0

1

2

3

4

5

6

7

8

9

10

11

12

13

14

15

DEPTH (ft)

0

1

2

3

4

5

6

7

8

9

10

11

12

13

14

15

16

17

18

19

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DRILL RIG - BECKER DRILL
DRILLED FROM ICE
WATER DEPTH - 2.1m
ORIGINAL BOREHOLE NUMBER 76-90

SAMPLE TYPE

THIN W. TUBE PISTON

NO RECOVERY CORE

SPLIT SPOON GRAB

EBA ENGINEERING CONSULTANTS LTD.
EDMONTON ALBERTA
DRAWING NUMBER

BOREHOLE NUMBER
76-90
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BOREHOLE LOG AND LABORATORY TEST RESULTS

1976 BORROW INVENTORY MCKINLEY BAY IMPERIAL OIL LTD.				EBA # 1-1330 N7762560 E420330 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											
15												50
16												51
17												52
18												53
19												54
20												55
21												56
22												57
23												58
24												59
25												60
26												61
27												62
28												63
29												64
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DRILL RIG - BECKER DRILL
 DRILLED FROM ICE
 WATER DEPTH - 2.1m
 ORIGINAL BOREHOLE NUMBER 76-90

SAMPLE TYPE

THIN W. TUBE	PISTON
NO RECOVERY	CORE
SPLIT SPOON	GRAB

EBA ENGINEERING CONSULTANTS LTD.
 EDMONTON ALBERTA
 DRAWING NUMBER

BOREHOLE NUMBER
 76-90
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NOTE: END OF BOREHOLE at 29.9m

UNFROZEN

SAND (SP) - (cont'd)

- some silt (SP-SM), very fine, some coal specs

BOREHOLE LOG AND LABORATORY TEST RESULTS

1976 BORROW INVENTORY MCKINLEY BAY IMPERIAL OIL LTD.				EBA # 1-1330 N7764990 E420760 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		NO RECOVERY										0
1		SAND (sm) - some silt, fine, uniform, brown, organics										1
2												2
3												3
4		- trace to some silt (SP), wood fragments	UNFROZEN									4
5												5
6		- clean to trace silt (SP-SM)	UNFROZEN									6
7												7
8												8
9												9
10		- trace gravel, some organics										10
11												11
12												12
13												13
14												14
15		- 150mm silt layer										15

DRILL RIG - BECKER DRILL
 DRILLED FROM ICE
 WATER DEPTH - 7.0m
 ORIGINAL BOREHOLE NUMBER 76-91

SAMPLE TYPE

THIN W. TUBE	PISTON
NO RECOVERY	CORE
SPLIT SPOON	GRAB

EBA ENGINEERING CONSULTANTS LTD.
 EDMONTON ALBERTA
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BOREHOLE NUMBER
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BOREHOLE LOG AND LABORATORY TEST RESULTS

1976 BORROW INVENTORY MCKINLEY BAY IMPERIAL OIL LTD.				EBA # 1-1330 N7764990 E420760 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										
15			SAND (SP-SM) - (cont'd)									50
16												51
17												52
18			END OF BOREHOLE at 17.7m									53
19												54
20												55
21												56
22												57
23												58
24												59
25												60
26												61
27												62
28												63
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												98

DRILL RIG - BECKER DRILL
 DRILLED FROM ICE
 WATER DEPTH - 7.0m
 ORIGINAL BOREHOLE NUMBER 76-91

SAMPLE TYPE

THIN W. TUBE	PISTON
NO RECOVERY	CORE
SPLIT SPOON	GRAB

EBA ENGINEERING CONSULTANTS LTD.
 EDMONTON ALBERTA
 DRAWING NUMBER

BOREHOLE NUMBER
 76-91
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BOREHOLE LOG AND LABORATORY TEST RESULTS

1976 BORROW INVENTORY MCKINLEY BAY IMPERIAL OIL LTD.				EBA # 1-1330 N7767420 E421660 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) - some to trace silt, fine, uniform, grey brown									0
1												1
2				UNFROZEN								2
3												3
4												4
5												5
6			- trace silt (SP-SM)									6
7				UNFROZEN								7
8												8
9												9
10												10
11												11
12												12
13												13
14												14
15			NOTE: END OF BOREHOLE at 15.5m									15

DRILL RIG - BECKER DRILL
 DRILLED FROM ICE
 WATER DEPTH - 4.3m
 ORIGINAL BOREHOLE NUMBER 76-92

SAMPLE TYPE

THIN W. TUBE	PISTON
NO RECOVERY	CORE
SPLIT SPOON	GRAB

EBA ENGINEERING CONSULTANTS LTD.
 EDMONTON ALBERTA
 DRAWING NUMBER

BOREHOLE NUMBER
 76-92

BOREHOLE LOG AND LABORATORY TEST RESULTS

1976 BORROW INVENTORY MCKINLEY BAY IMPERIAL OIL LTD.				EBA # 1-1330 N7764870 E418250 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) - clean to trace silt, fine, brown										0
1												1
2		- trace to some silt (SM)	UNFROZEN									2
3												3
4		- trace silt (SP-SM)										4
5												5
6												6
7												7
8												8
9		- clean (SP), trace gravel	UNFROZEN									9
10												10
11												11
12												12
13												13
14												14
15												15

DRILL RIG - BECKER DRILL
 DRILLED FROM ICE
 WATER DEPTH - 5.9m
 ORIGINAL BOREHOLE NUMBER 76-MB-1

SAMPLE TYPE

THIN W. TUBE	PISTON
NO RECOVERY	CORE
SPLIT SPOON	GRAB

EBA ENGINEERING CONSULTANTS LTD.
 EDMONTON ALBERTA
 DRAWING NUMBER

BOREHOLE NUMBER
 76MB1
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BOREHOLE LOG AND LABORATORY TEST RESULTS

1976 BORROW INVENTORY MCKINLEY BAY IMPERIAL OIL LTD.				EBA # 1-1330 N7764870 E418250 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										
15			SAND (SP) - (cont'd)									50
16			END OF BOREHOLE at 16.3m									51
17												52
18												53
19												54
20												55
21												56
22												57
23												58
24												59
25												60
26												61
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DRILL RIG - BECKER DRILL
 DRILLED FROM ICE
 WATER DEPTH - 5.9m
 ORIGINAL BOREHOLE NUMBER 76-MB-1

SAMPLE TYPE

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

EBA ENGINEERING CONSULTANTS LTD.
 EDMONTON ALBERTA
 DRAWING NUMBER

BOREHOLE NUMBER
 76MB1
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BOREHOLE LOG AND LABORATORY TEST RESULTS

1976 BORROW INVENTORY MCKINLEY BAY IMPERIAL OIL LTD.				EBA # 1-1330 N7764870 E418250 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) - some silt, fine, uniform	UNFROZEN								0
1												1
2			- silty									2
3												3
4												4
5			- clean to trace silt (SP), some coal specs	UNFROZEN								5
6												6
7												7
8												8
9												9
10												10
11												11
12												12
13												13
14			END OF BOREHOLE at 14.0m									14
15												15

DRILL RIG - BECKER DRILL
 DRILLED FROM ICE
 WATER DEPTH - 5.8m
 ORIGINAL BOREHOLE NUMBER 76-MB-3

SAMPLE TYPE

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

EBA ENGINEERING CONSULTANTS LTD.
 EDMONTON ALBERTA
 DRAWING NUMBER

BOREHOLE NUMBER
 76MB3

BOREHOLE LOG AND LABORATORY TEST RESULTS

1978 BORROW INVENTORY MCKINLEY BAY IMPERIAL OIL LTD.				EBA # 1-1330 N7784080 E417950 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 (SP) - trace silt, fine, organic, rich, black	UNFROZEN							0	
1												1
2												2
3												3
4												4
5			SILT (ml) - firm, low plastic									5
6			SAND (SP) - trace silt									6
7												7
8												8
9												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	
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36											36	
37											37	
38											38	
39											39	
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41											41	
42											42	
43											43	
44											44	
45											45	
46											46	
47											47	
48											48	
49											49	

DRILL RIG - BECKER DRILL
 DRILLED FROM ICE
 WATER DEPTH - 5.0m
 ORIGINAL BOREHOLE NUMBER 76-MB-5

SAMPLE TYPE

THIN W. TUBE	PISTON
NO RECOVERY	CORE
SPLIT SPOON	GRAB

EBA ENGINEERING CONSULTANTS LTD.
 EDMONTON ALBERTA
 DRAWING NUMBER

BOREHOLE NUMBER
 76MB5
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BOREHOLE LOG AND LABORATORY TEST RESULTS

1976 BORROW INVENTORY MCKINLEY BAY IMPERIAL OIL LTD.				EBA # 1-1330 N7764080 E417950 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										
			SAND (SP) - (cont'd)									50
												51
												52
												53
												54
												55
												56
												57
												58
												59
												60
												61
												62
												63
												64
			END OF BOREHOLE at 19.7m									65
												66
												67
												68
												69
												70
												71
												72
												73
												74
												75
												76
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												98

DRILL RIG - BECKER DRILL
 DRILLED FROM ICE
 WATER DEPTH - 5.0m
 ORIGINAL BOREHOLE NUMBER 76-MB-5

SAMPLE TYPE

☐ THIN W. TUBE

☐ NO RECOVERY

☐ SPLIT SPOON

☐ PISTON

☐ CORE

☐ GRAB

EBA ENGINEERING CONSULTANTS LTD.
 EDMONTON ALBERTA
 DRAWING NUMBER

BOREHOLE NUMBER
 76MB5
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BOREHOLE LOG AND LABORATORY TEST RESULTS

1978 BORROW INVENTORY MCKINLEY BAY IMPERIAL OIL LTD.				EBA # 1-1330 N7764870 E418330 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) - trace silt, fine, uniform, 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													12
13													13
14													14
15												15	
			- trace silt (SP), trace gravel									16	
												17	
												18	
												19	
												20	
												21	
												22	
												23	
												24	
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DRILL RIG - BECKER DRILL
 DRILLED FROM ICE
 WATER DEPTH - 5.9m
 ORIGINAL BOREHOLE NUMBER 76-MB-7

SAMPLE TYPE

☐ THIN W. TUBE
☐ NO RECOVERY
☐ SPLIT SPOON

☐ PISTON
☐ CORE
☐ GRAB

EBA ENGINEERING CONSULTANTS LTD.
 EDMONTON ALBERTA
 DRAWING NUMBER

BOREHOLE NUMBER
 76MB7
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BOREHOLE LOG AND LABORATORY TEST RESULTS

1976 BORROW INVENTORY MCKINLEY BAY IMPERIAL OIL LTD.				EBA # 1-1330 N7764870 E418330 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											
15		SAND (SP) --(cont'd)										50
16		- clean to trace silt (SP)										51
17												52
18												53
19												54
20												55
21												56
22												57
23												58
24		END OF BOREHOLE at 23.6m	UNFROZEN									59
25												60
26												61
27												62
28												63
29												64
30												65
												66
												67
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												98

DRILL RIG - BECKER DRILL
 DRILLED FROM ICE
 WATER DEPTH - 5.9m
 ORIGINAL BOREHOLE NUMBER 76-MB-7

SAMPLE TYPE

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

EBA ENGINEERING CONSULTANTS LTD.
 EDMONTON ALBERTA
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BOREHOLE NUMBER
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BOREHOLE LOG AND LABORATORY TEST RESULTS

1976 BORROW INVENTORY MCKINLEY BAY IMPERIAL OIL LTD.				EBA # 1-1330 N7764600 E418430 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 silt, fine, medium brown	UNFROZEN									0			
1		- silt (SM)											1		
2		CLAY (ch) - stiff, high plastic											2		
3		SAND (SM) - silty	UNFROZEN									3			
4													4		
5													5		
6													6		
7		- clean to trace silt (SP)											7		
8					UNFROZEN									8	
9															9
10															10
11															11
12															12
13		END OF BOREHOLE at 12.8m											13		
14													14		
15													15		
														16	
														17	
												18			
												19			
												20			
												21			
												22			
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												44			
												45			
												46			
												47			
												48			
												49			

DRILL RIG - BECKER DRILL
 DRILLED FROM ICE
 WATER DEPTH - 5.8m
 ORIGINAL BOREHOLE NUMBER 76-MB-11

SAMPLE TYPE

THIN W. TUBE

NO RECOVERY

SPLIT SPOON

PISTON

CORE

GRAB

EBA ENGINEERING CONSULTANTS LTD.
 EDMONTON ALBERTA
 DRAWING NUMBER

BOREHOLE
 NUMBER
 76MB11

BOREHOLE LOG AND LABORATORY TEST RESULTS

1976 BORROW INVENTORY MCKINLEY BAY IMPERIAL OIL LTD.				EBA # 1-1330 N7764200 E418430 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 (SM) - silty to some silt, fine, uniform	UNFROZEN									0
1												1
2		- trace to some silt (SP)										2
3												3
4												4
5		- clean to trace silt (SP)										5
6												6
7												7
8		- trace 18mm gravel										8
9												9
10			UNFROZEN									10
11												11
12												12
13												13
14		END OF BOREHOLE at 14.0m										14
15												15

DRILL RIG - BECKER DRILL
 DRILLED FROM ICE
 WATER DEPTH - 5.8m
 ORIGINAL BOREHOLE NUMBER 76-MB-13

SAMPLE TYPE

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

EBA ENGINEERING CONSULTANTS LTD.
 EDMONTON ALBERTA
 DRAWING NUMBER

BOREHOLE NUMBER
 76MB13

BOREHOLE LOG AND LABORATORY TEST RESULTS

1976 BORROW INVENTORY MCKINLEY BAY IMPERIAL OIL LTD.				EBA # 1-1330 N7764200 E418430 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) - trace to some silt, fine, uniform, medium grey brown										0
1												1
2		CLAY (cl) - dark grey, medium plastic										2
3		SAND (SP-SM) - trace to some silt										3
4		- trace silt										4
5			UNFROZEN									5
6												6
7												7
8												8
9												9
10		- trace gravel										10
11												11
12		- trace silt (SP)										12
13			UNFROZEN									13
14		END OF BOREHOLE at 13.6m NOTE: LOCATION OF BOREHOLE IS AN ESTIMATE										14
15												15

DRILL RIG - BECKER DRILL
 DRILLED FROM ICE
 WATER DEPTH - 6.3m
 ORIGINAL BOREHOLE NUMBER 76-MB-15

SAMPLE TYPE

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

EBA ENGINEERING CONSULTANTS LTD.
 EDMONTON ALBERTA
 DRAWING NUMBER

BOREHOLE NUMBER
 76MB15

BOREHOLE LOG AND LABORATORY TEST RESULTS

1976 BORROW INVENTORY MCKINLEY BAY IMPERIAL OIL LTD.				EBA / 1-1330 N7763870 E418520 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) - some to trace silt	UNFROZEN									0	
1													1
2		CLAY (cl) - medium plastic, dark grey brown											2
3		SAND (SM) - silty to some silt	UNFROZEN									3	
4													4
5		- some to trace silt (SM)											5
6													6
7													7
8													8
9													9
10													10
11													11
12													12
13													13
14		END OF BOREHOLE at 14.0m NOTE: LOCATION OF BOREHOLE IS AN ESTIMATE											14
15												15	

DRILL RIG - BECKER DRILL
 DRILLED FROM ICE
 WATER DEPTH - 5.8m
 ORIGINAL BOREHOLE NUMBER 76-MB-18

SAMPLE TYPE

THIN W. TUBE

NO RECOVERY

SPLIT SPOON

PISTON

CORE

GRAB

EBA ENGINEERING CONSULTANTS LTD.
 EDMONTON ALBERTA
 DRAWING NUMBER

BOREHOLE NUMBER
 76MB18

BOREHOLE LOG AND LABORATORY TEST RESULTS

1976 BORROW INVENTORY MCKINLEY BAY IMPERIAL OIL LTD.				EBA # 1-1330 N7763870 E418520 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 (SM) - some to silty	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
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												48
												49

DRILL RIG - BECKER DRILL
 DRILLED FROM ICE
 WATER DEPTH - 5.2m
 ORIGINAL BOREHOLE NUMBER 76-MB-20

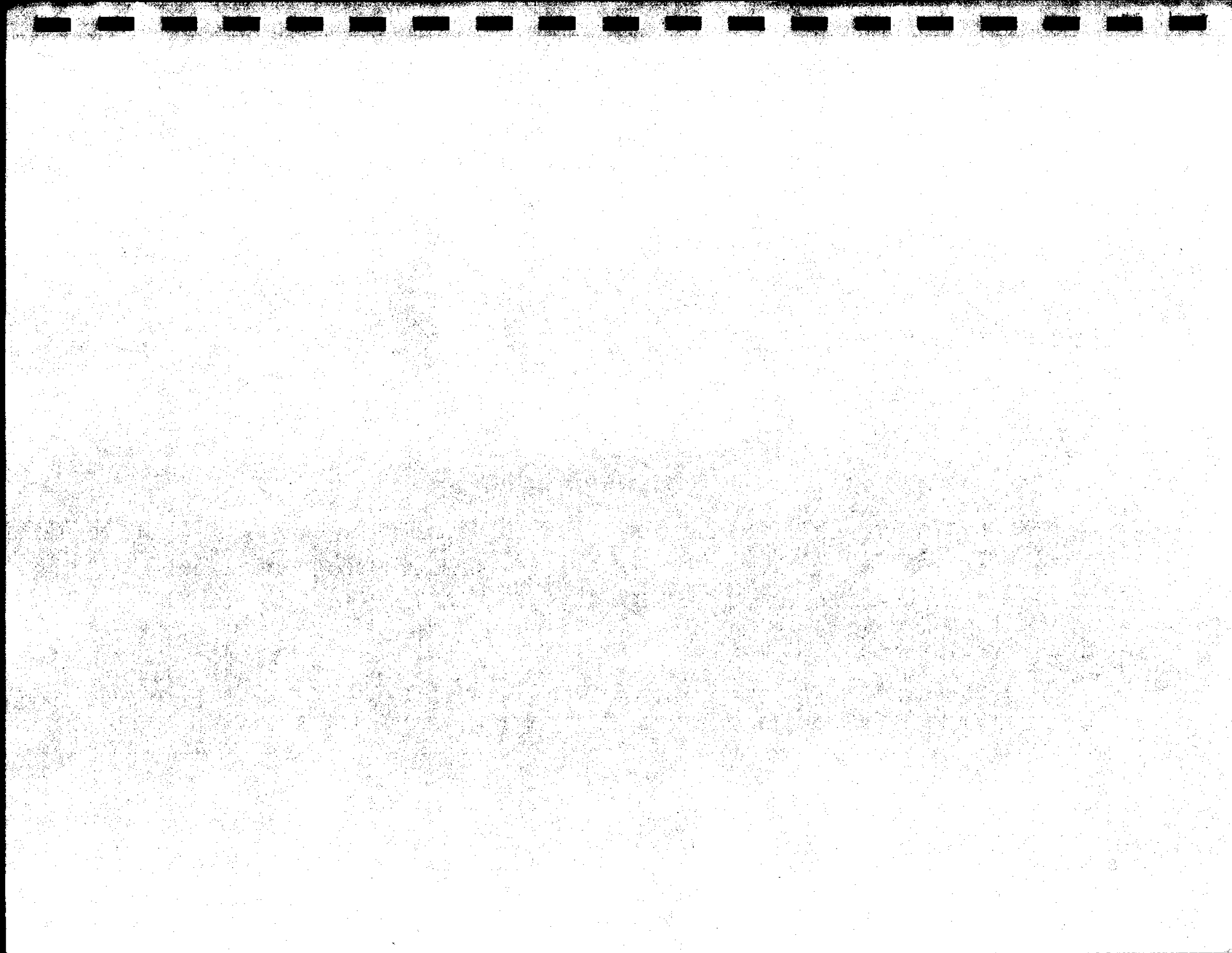
SAMPLE TYPE

THIN W. TUBE	PISTON
NO RECOVERY	CORE
SPLIT SPOON	GRAB

EBA ENGINEERING CONSULTANTS LTD.
 EDMONTON ALBERTA
 DRAWING NUMBER

BOREHOLE NUMBER
 76MB20

BOREHOLE LOG AND LABORATORY TEST RESULTS



1976 ISLAND SITE INVEST. - KUGMALLIT 0-49 IMPERIAL OIL LTD.				EBA / 1-1330 N7725935 E559896 Z8		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 20 40 60 80			SPECIAL TESTS		UNIT	
SAMPLE		SOIL DESCRIPTION		GROUND ICE DESCRIPTION		TEMP C															
TYP	NO.	Q																			
0			CLAY (CL) - grey, silty, low to medium plastic																		
1																					
2																					
3																					
4																					
5																					
6																					
7																					
8			- some silt bands		UNFROZEN																
9																					
10																					
11			- trace of organics																		
12																					
13			SAND (SP-SM) - brown, trace of silt, fine grained																		
14																					
15																					

DRILL RIG - BECKER DRILL
 DRILLED FROM ICE
 WATER DEPTH - 5.4m
 ORIGINAL BOREHOLE NUMBER - 76-D49-1

SAMPLE TYPE

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

EBA ENGINEERING CONSULTANTS LTD.
 EDMONTON ALBERTA
 DRAWING NUMBER

BOREHOLE NUMBER
 D49-1
 PAGE 1 OF 3

BOREHOLE LOG AND LABORATORY TEST RESULTS

1976 ISLAND SITE INVEST. - KUGMALLIT D-49 IMPERIAL OIL LTD.				EBA # 1-1330 N7725935 E559896 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		SAND (SP-SM) - (cont'd)										50
16												51
17												52
18												53
19												54
20												55
21												56
22												57
23												58
24												59
25												60
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												98

DRILL RIG - BECKER DRILL DRILLED FROM ICE WATER DEPTH - 5.4m ORIGINAL BOREHOLE NUMBER - 76-D49-1	SAMPLE TYPE THIN W. TUBE NO RECOVERY SPLIT SPOON HEAVY W. TUBE CORE GRAB	EBA ENGINEERING CONSULTANTS LTD. EDMONTON ALBERTA DRAWING NUMBER	BOREHOLE NUMBER D49-1 PAGE 2 OF 3
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BOREHOLE LOG AND LABORATORY TEST RESULTS

1976 ISLAND SITE INVEST. - KUGMALUT D-49 IMPERIAL OIL LTD.				EBA # 1-1330 N7725935 E559896 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			SILT-SAND (ml/sm) - (cont'd)	UNFROZEN								99
31												100
			END OF BOREHOLE at 31.5m									101
32												102
33												103
34												104
35												105
36												106
37												107
38												108
39												109
40												110
41												111
42												112
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												144
												145
												146
												147

DRILL RIG - BECKER DRILL
 DRILLED FROM ICE
 WATER DEPTH - 5.4m
 ORIGINAL BOREHOLE NUMBER - 76-D49-1

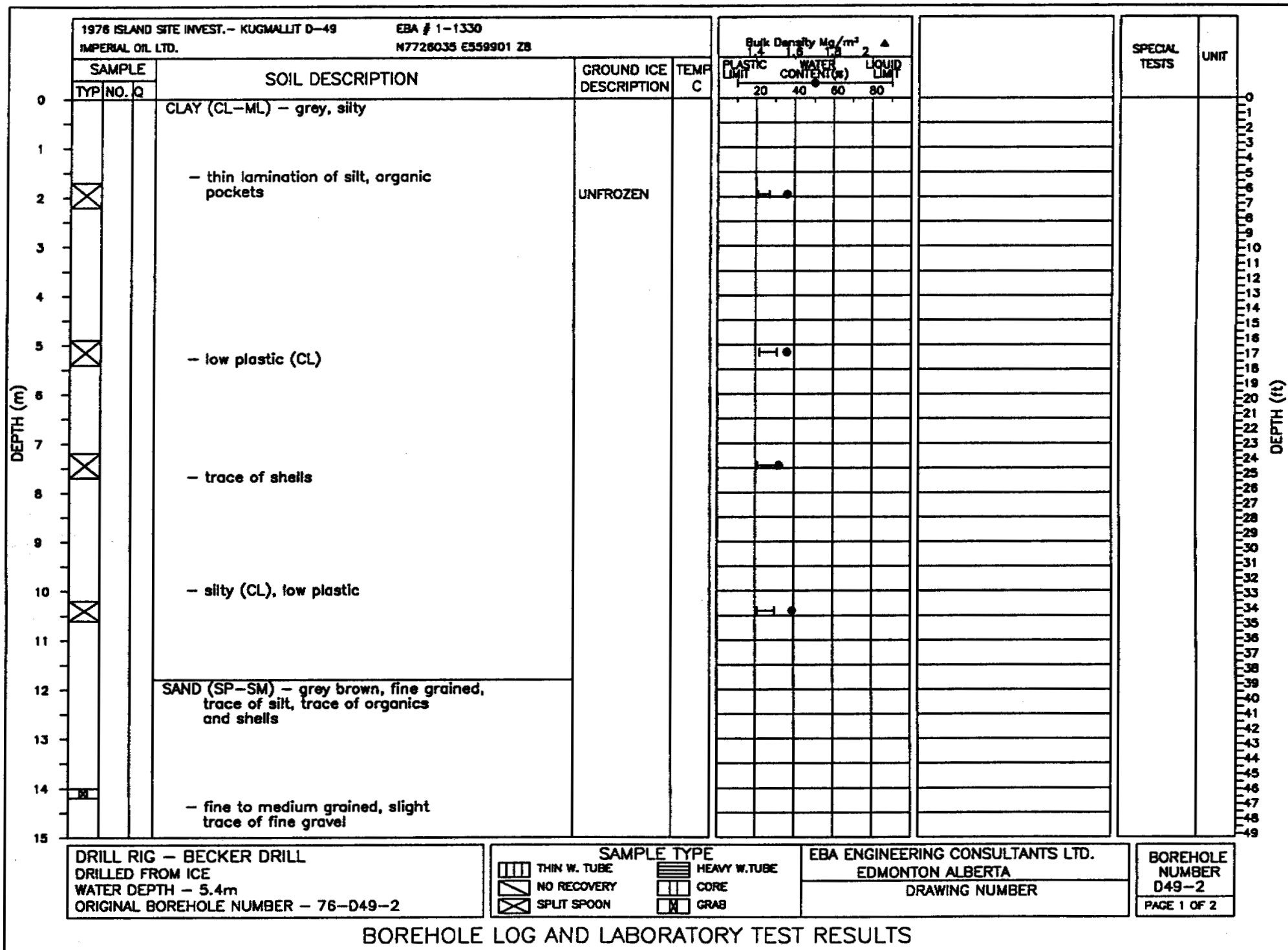
SAMPLE TYPE

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

EBA ENGINEERING CONSULTANTS LTD.
 EDMONTON ALBERTA
 DRAWING NUMBER

BOREHOLE NUMBER
 D49-1
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BOREHOLE LOG AND LABORATORY TEST RESULTS



1976 ISLAND SITE INVEST. - KUGMALLIT D-49 IMPERIAL OIL LTD.				EBA # 1-1330 N7726035 E359901 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.								ID			
												50
												51
												52
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DRILL RIG - BECKER DRILL
 DRILLED FROM ICE
 WATER DEPTH - 5.4m
 ORIGINAL BOREHOLE NUMBER - 76-D49-2

SAMPLE TYPE

☐ THIN W. TUBE

☐ NO RECOVERY

☐ SPLIT SPOON

☐ HEAVY W. TUBE

☐ CORE

☐ GRAB

EBA ENGINEERING CONSULTANTS LTD.
 EDMONTON ALBERTA

DRAWING NUMBER

BOREHOLE NUMBER
 D49-2

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BOREHOLE LOG AND LABORATORY TEST RESULTS

1976 ISLAND SITE INVEST.- KUGMALLIT D-49 IMPERIAL OIL LTD.				EBA # 1-1330 N7725881 E559980 Z8		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 20 40 60 80			SPECIAL TESTS		UNIT	
SAMPLE			SOIL DESCRIPTION		GROUND ICE DESCRIPTION	TEMP C															
TYP NO. Q																					
0			CLAY (CL-ML) - grey, silty, low plastic		UNFROZEN																
1																					
2																					
3			- thick laminations of silt, trace of sand																		
4																					
5																					
6																					
7																					
8			- very silty, trace of organics																		
9																					
10			SAND (sp-sm) - brown, fine grained, some silt, trace of organics																		
11																					
12			- trace of silt (SP)																		
13																					
14																					
15																					

DRILL RIG - BECKER DRILL
 DRILLED FROM ICE
 WATER DEPTH - 5.4m
 ORIGINAL BOREHOLE NUMBER - 76-D49-3

SAMPLE TYPE

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

EBA ENGINEERING CONSULTANTS LTD.
 EDMONTON ALBERTA
 DRAWING NUMBER

BOREHOLE NUMBER
 D49-3
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BOREHOLE LOG AND LABORATORY TEST RESULTS

1976 ISLAND SITE INVEST. - KUGMALLIT D-49 IMPERIAL OIL LTD.				EBA # 1-1330 N7725881 E559980 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			SAND (SP) - (cont'd) - very fine grained, trace of silt (SP), trace of organics and rootlets									50
16												51
17												52
18												53
19												54
20												55
21												56
22												57
23												58
24												59
25												60
26												61
27												62
28												63
29			SAND-SILT (SM) - medium grey, very fine grained									64
30												65
												66
												67
												68
												69
												70
												71
												72
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			96									
			97									
			98									

DRILL RIG - BECKER DRILL
 DRILLED FROM ICE
 WATER DEPTH - 5.4m
 ORIGINAL BOREHOLE NUMBER - 76-D49-3

SAMPLE TYPE

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

EBA ENGINEERING CONSULTANTS LTD.
 EDMONTON ALBERTA
 DRAWING NUMBER

BOREHOLE NUMBER
 D49-3
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BOREHOLE LOG AND LABORATORY TEST RESULTS

1978 ISLAND SITE INVEST. - KUGMALLIT D-49 IMPERIAL OIL LTD.				EBA # 1-1330 N7725881 ES59980 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										
			SAND-SILT (SM) - (cont'd)	UNFROZEN								99
												101
												102
												103
			END OF BOREHOLE at 31.5m									104
												105
												106
												107
												108
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												142
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												145
												146
												147

DRILL RIG - BECKER DRILL
 DRILLED FROM ICE
 WATER DEPTH - 5.4m
 ORIGINAL BOREHOLE NUMBER - 76-D49-3

SAMPLE TYPE

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

EBA ENGINEERING CONSULTANTS LTD.
 EDMONTON ALBERTA
 DRAWING NUMBER

BOREHOLE NUMBER
 D49-3
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BOREHOLE LOG AND LABORATORY TEST RESULTS

1976 ISLAND SITE INVEST. - KUGMALLIT D-49 IMPERIAL OIL LTD.				EBA # 1-1330 N7725889 E559807 ZB		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			
											0
											1
											2
											3
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											49

DRILL RIG - BECKER DRILL
 DRILLED FROM ICE
 WATER DEPTH - 5.4m
 ORIGINAL BOREHOLE NUMBER - 76-D49-4

SAMPLE TYPE

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

EBA ENGINEERING CONSULTANTS LTD.
 EDMONTON ALBERTA
 DRAWING NUMBER

BOREHOLE NUMBER
 D49-4
 PAGE 1 OF 2

BOREHOLE LOG AND LABORATORY TEST RESULTS

1976 ISLAND SITE INVEST.- KUGMALLIT D-49 IMPERIAL OIL LTD.				EBA # 1-1330 N7725889 E559807 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		SAND (SP-SM) - (cont'd)										50
16	M	- brown, very fine grained, trace to some silt (SP-SM)										51
17												52
18												53
19												54
20		- grey brown, some silt to silty (SM)										55
21												56
22	M	END OF BOREHOLE at 21.8m	UNFROZEN									57
23												58
24												59
25												60
26												61
27												62
28												63
29												64
30												65
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												96
												97
												98

DRILL RIG - BECKER DRILL
 DRILLED FROM ICE
 WATER DEPTH - 5.4m
 ORIGINAL BOREHOLE NUMBER - 76-D49-4

SAMPLE TYPE

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

EBA ENGINEERING CONSULTANTS LTD.
 EDMONTON ALBERTA
 DRAWING NUMBER

BOREHOLE NUMBER
 D49-4
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BOREHOLE LOG AND LABORATORY TEST RESULTS

1976 ISLAND SITE INVEST. - KUGMALLIT D-49 IMPERIAL OIL LTD.				EBA # 1-1330 N7727120 E558995 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
0		CLAY (CL) - grey, silty, low to medium plastic									0
1											1
2	X		UNFROZEN								2
3											3
4											4
5	X										5
6											6
7											7
8											8
9											9
10	X		ASSUMED FROZEN								10
11											11
12		SILT (ml) - grey, some fine grained sand									12
13		PEAT (pt) - grey brown, trace of clay, frozen									13
14											14
15	X	- fibrous	FROZEN, Nbn								15

DRILL RIG - BECKER DRILL
 DRILLED FROM ICE
 WATER DEPTH - 5.6m
 ORIGINAL BOREHOLE NUMBER - 76-D49-5

SAMPLE TYPE

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

EBA ENGINEERING CONSULTANTS LTD.
 EDMONTON ALBERTA
 DRAWING NUMBER

BOREHOLE NUMBER
 D49-5
 PAGE 1 OF 3

BOREHOLE LOG AND LABORATORY TEST RESULTS

1978 ISLAND SITE INVEST. - KUGMALLIT D-49 IMPERIAL OIL LTD.					EBA # 1-1330 N7727120 E558995 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			PEAT (pt) - (cont'd)	UNFROZEN								50	
16			SILT (ml) - light grey, sandy, unfrozen										51
17			SAND (SP-SM) - grey, trace of silt, fine grained										52
18			- fine to medium grained, some gravel, trace of silt										53
19													54
20													55
21													56
22													57
23													58
24													59
25													60
26													61
27													62
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												97	
												98	

DRILL RIG - BECKER DRILL
 DRILLED FROM ICE
 WATER DEPTH - 5.6m
 ORIGINAL BOREHOLE NUMBER - 76-D49-5

SAMPLE TYPE

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

EBA ENGINEERING CONSULTANTS LTD.
 EDMONTON ALBERTA
 DRAWING NUMBER

BOREHOLE NUMBER
 D49-5
 PAGE 2 OF 3

BOREHOLE LOG AND LABORATORY TEST RESULTS

1978 ISLAND SITE INVEST. - KUGMALLIT D-49 IMPERIAL OIL LTD.				EBA # 1-1330 N7727120 E558995 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			SILT-SAND (sm/ml) - (cont'd)									99
31			END OF BOREHOLE at 31.3m									100
32												101
33												102
34												103
35												104
36												105
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												147

DRILL RIG - BECKER DRILL
 DRILLED FROM ICE
 WATER DEPTH - 5.6m
 ORIGINAL BOREHOLE NUMBER - 76-D49-5

SAMPLE TYPE

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

EBA ENGINEERING CONSULTANTS LTD.
 EDMONTON ALBERTA
 DRAWING NUMBER

BOREHOLE NUMBER
 D49-5
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BOREHOLE LOG AND LABORATORY TEST RESULTS

1976 ISLAND SITE INVEST. - ARNAK L-30 IMPERIAL OIL LTD				EBA # 1-1330 N7747015 E543380 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) - grey, silty, medium plastic	UNFROZEN								0
											1
											2
											3
											4
											5
											6
											7
											8
											9
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											49
DRILL RIG - BECKER DRILL DRILLED FROM ICE WATER DEPTH - 8.3m ORIGINAL BOREHOLE NUMBER - 76-L30-15		SAMPLE TYPE THIN W. TUBE NO RECOVERY SPLIT SPOON		PISTON CORE GRAB		EBA ENGINEERING CONSULTANTS LTD. EDMONTON ALBERTA DRAWING NUMBER			BOREHOLE NUMBER L30-15 PAGE 1 OF 2		

BOREHOLE LOG AND LABORATORY TEST RESULTS

1976 ISLAND SITE INVEST. - ARNAK L30 IMPERIAL OIL LTD				EBA # 1-1330 N7747015 E543380 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		SAND (SP-SM) - (cont'd)										50
16	X											51
17		- medium brown, some silt, fine grained										52
18												53
19												54
20	W											55
21												56
22		SAND-SILT (sm/ml) - brown, fine grained										57
23												58
24												59
25												60
26		SAND (SP-SM) - medium brown, fine grained, trace to some silt										61
27												62
28	W		UNFROZEN									63
29		END OF BOREHOLE at 28.6m										64
30												65

DRILL RIG - BECKER DRILL
 DRILLED FROM ICE
 WATER DEPTH - 8.3m
 ORIGINAL BOREHOLE NUMBER - 76-L30-15

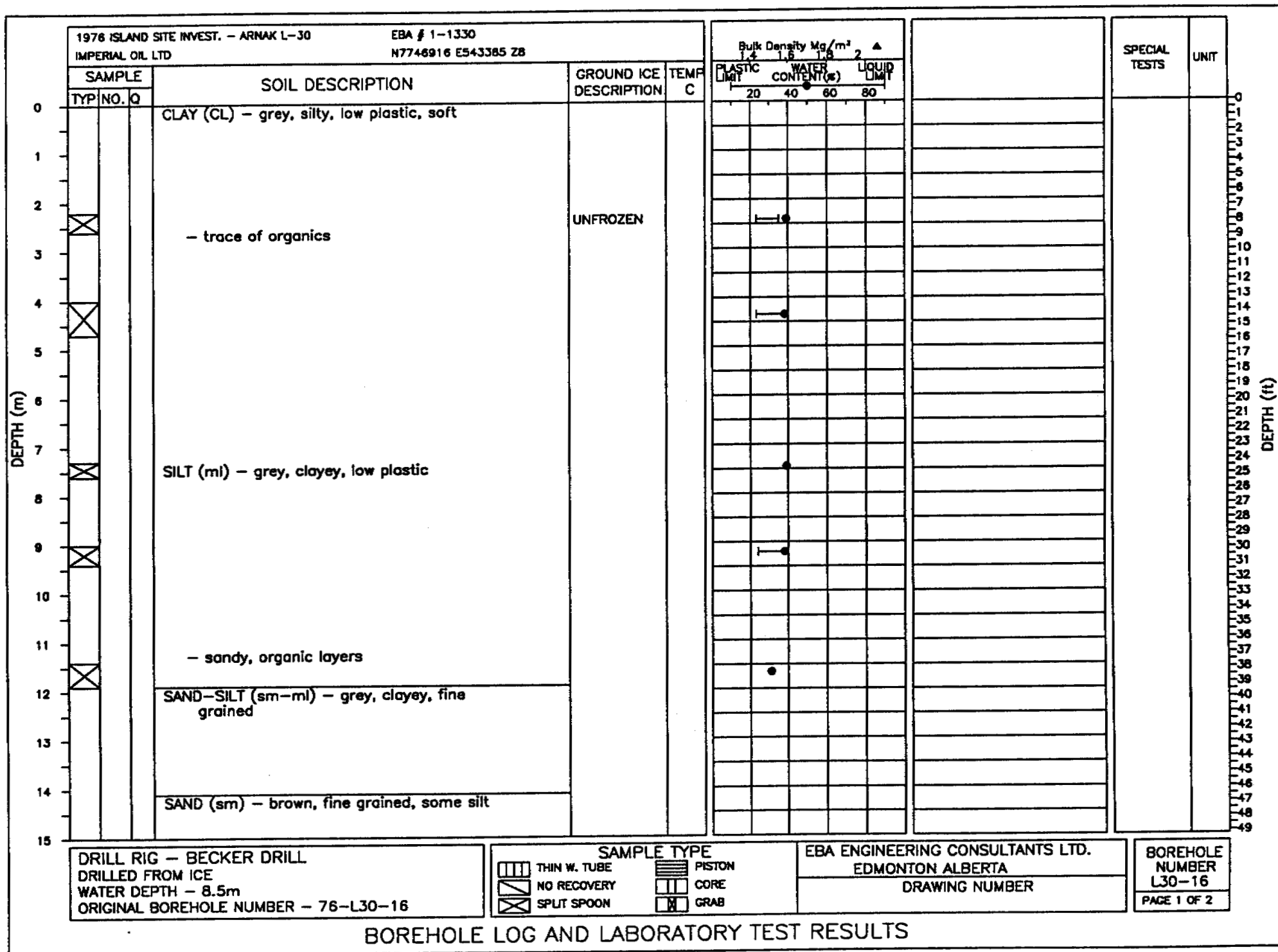
SAMPLE TYPE

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

EBA ENGINEERING CONSULTANTS LTD.
 EDMONTON ALBERTA
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BOREHOLE NUMBER
 L30-15
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BOREHOLE LOG AND LABORATORY TEST RESULTS



1976 ISLAND SITE INVEST. - ARNAK L-30 IMPERIAL OIL LTD				EBA # 1-1330 N7746916 E543385 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			SAND (sm) - (cont'd)									50
16												51
17												52
18												53
19												54
20												55
21												56
22												57
23												58
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												98

DRILL RIG - BECKER DRILL DRILLED FROM ICE WATER DEPTH - 8.5m ORIGINAL BOREHOLE NUMBER - 76-L30-16	SAMPLE TYPE ☐ THIN W. TUBE ☐ PISTON ☐ NO RECOVERY ☐ CORE ☒ SPLIT SPOON ☐ GRAB	EBA ENGINEERING CONSULTANTS LTD. EDMONTON ALBERTA DRAWING NUMBER	BOREHOLE NUMBER L30-16 PAGE 2 OF 2
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BOREHOLE LOG AND LABORATORY TEST RESULTS

1976 ISLAND SITE INVEST. - ARNAK L-30 IMPERIAL OIL LTD				EBA # 1-1330 N7747065 E543295 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 (CL) - dark grey, trace of fine sand, low plastic									0
1											1
2	X		UNFROZEN								2
3											3
4		- firm									4
5	X	- soft, some organics									5
6											6
7	X										7
8											8
9	X	SILT (ml) - grey, clayey, trace sand pockets, trace organics, low plastic									9
10											10
11		SAND-SILT (sm-ml) - grey brown, very fine grained, some organics, dark grey, organic									11
12	X										12
13		SAND (SM) - brown, some silt, fine grained									13
14											14
15											15

DRILL RIG - BECKER DRILL
 DRILLED FROM ICE
 WATER DEPTH - 8.4m
 ORIGINAL BOREHOLE NUMBER - 76-L30-17

SAMPLE TYPE

THIN W. TUBE	PISTON
NO RECOVERY	CORE
SPLIT SPOON	GRAB

EBA ENGINEERING CONSULTANTS LTD.
 EDMONTON ALBERTA
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BOREHOLE LOG AND LABORATORY TEST RESULTS

1978 ISLAND SITE INVEST. - ARNAK L-30 IMPERIAL OIL LTD				EBA # 1-1330 N7747085 E543295 28		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										
15			SAND (SM) - (cont'd)									50
16			- very fine grained, some silt to silty (SM)									51
17			SAND-SILT (sm-mi) - brown, very fine grained									52
18												53
19												54
20												55
21			SAND (SP) - brown, fine grained, trace of silt									56
22												57
23												58
24												59
25				UNFROZEN								60
26			END OF BOREHOLE at 26.1m									61
27												62
28												63
29												64
30												65

DRILL RIG - BECKER DRILL
 DRILLED FROM ICE
 WATER DEPTH - 8.4m
 ORIGINAL BOREHOLE NUMBER - 76-L30-17

SAMPLE TYPE

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

EBA ENGINEERING CONSULTANTS LTD.
 EDMONTON ALBERTA
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BOREHOLE LOG AND LABORATORY TEST RESULTS

1978 ISLAND SITE INVEST. - ARNAK L-30 IMPERIAL OIL LTD				EBA # 1-1330 N7747060 E543470 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) - grey, silty, low to medium plastic									0
											1
											2
											3
											4
											5
											6
											7
											8
											9
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											49

DRILL RIG - BECKER DRILL
 DRILLED FROM ICE
 WATER DEPTH - 8.6m
 ORIGINAL BOREHOLE NUMBER - 76-L30-18

SAMPLE TYPE

THIN W. TUBE	PISTON
NO RECOVERY	CORE
SPLIT SPOON	GRAB

EBA ENGINEERING CONSULTANTS LTD.
 EDMONTON ALBERTA
 DRAWING NUMBER

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BOREHOLE LOG AND LABORATORY TEST RESULTS

1978 ISLAND SITE INVEST. -- ARNAK L-30				EBA # 1-1330																			
IMPERIAL OIL LTD				N7747060 E543470 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												
15		SAND (SP-SM) - (cont'd)																					
		- some silt																					
16																							
17																							
18																							
19																							
20																							
21																							
22		- trace to some silt																					
23		- brown, medium to coarse grained, trace of gravel, trace of silt to clean, trace of organics, layer of fine silty sand		UNFROZEN																			
24																							
25																							
26																							
27																							
28		END OF BOREHOLE at 28.3m																					
29																							
30																							

DRILL RIG -- BECKER DRILL
 DRILLED FROM ICE
 WATER DEPTH -- 8.6m
 ORIGINAL BOREHOLE NUMBER -- 76-L30-18

SAMPLE TYPE

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

EBA ENGINEERING CONSULTANTS LTD.
 EDMONTON ALBERTA
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BOREHOLE
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BOREHOLE LOG AND LABORATORY TEST RESULTS

1976 ISLAND SITE INVEST. - ARNAK L-30 IMPERIAL OIL LTD				EBA # 1-1330 N7746860 E543000 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 (CL) - medium grey, silty, low to medium plastic									0
1											1
2	X	- some thick laminations of medium grey sandy silt	UNFROZEN			40					2
3											3
4											4
5											5
6											6
7	X					40					7
8											8
9		SAND (SP-SM) - medium brownish grey, some silt, trace of fine gravel, trace of silt, fine grained, uniform									9
10											10
11											11
12	M										12
13											13
14	M										14
15		- medium grey, silty (SM), fine to very fine grained									15

DRILL RIG - BECKER DRILL
 DRILLED FROM ICE
 WATER DEPTH - 8.1m
 ORIGINAL BOREHOLE NUMBER - 76-L30-19

SAMPLE TYPE

THIN W. TUBE	PISTON
NO RECOVERY	CORE
SPLIT SPOON	GRAB

EBA ENGINEERING CONSULTANTS LTD.
 EDMONTON ALBERTA
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BOREHOLE LOG AND LABORATORY TEST RESULTS

1978 ISLAND SITE INVEST. - ARNAK L-30 IMPERIAL OIL LTD				EBA # 1-1330 N7746860 E543000 Z8		Bulk Density Mo/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			SAND (SM) - (cont'd)									50
16												51
17			- trace to some silt (SP-SM), uniform, trace of organics									52
18												53
19												54
20												55
21												56
22			- clean (SP)	UNFROZEN								57
23												58
24			END OF BOREHOLE at 23.9m									59
25												60
26												61
27												62
28												63
29												64
30												65
												66
												67
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DRILL RIG - BECKER DRILL
 DRILLED FROM ICE
 WATER DEPTH - 8.1m
 ORIGINAL BOREHOLE NUMBER - 76-L30-19

SAMPLE TYPE

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

EBA ENGINEERING CONSULTANTS LTD.
 EDMONTON ALBERTA
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BOREHOLE LOG AND LABORATORY TEST RESULTS

1978 ISLAND SITE INVEST. - ARNAK L-30 IMPERIAL OIL LTD				EBA # 1-1330 N7748995 E543760 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 (CL) - medium to dark grey, silty, low plastic	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	
			CLAY (CL) - medium to dark grey, silty, low plastic								16	
											17	
											18	
											19	
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											21	
											22	
											23	
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DRILL RIG - BECKER DRILL DRILLED FROM ICE WATER DEPTH - 8.5m ORIGINAL BOREHOLE NUMBER - 76-L30-20	SAMPLE TYPE ☐ THIN W. TUBE ☐ NO RECOVERY ☐ SPLIT SPOON ☐ PISTON ☐ CORE ☐ GRAB	EBA ENGINEERING CONSULTANTS LTD. EDMONTON ALBERTA DRAWING NUMBER	BOREHOLE NUMBER L30-20 PAGE 1 OF 2
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BOREHOLE LOG AND LABORATORY TEST RESULTS

1976 ISLAND SITE INVEST. - ARNAK L-30 IMPERIAL OIL LTD				EBA # 1-1330 N7746995 E543760 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		SAND (sm) - medium grey, fine grained, silty										50
16												51
17		- some silt, fine grained, trace of fine gravel										52
18		- trace of silt (SP)										53
19		END OF BOREHOLE at 18.6m	UNFROZEN									54
20												55
21												56
22												57
23												58
24												59
25												60
26												61
27												62
28												63
29												64
30												65
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DRILL RIG - BECKER DRILL
 DRILLED FROM ICE
 WATER DEPTH - 8.5m
 ORIGINAL BOREHOLE NUMBER - 76-L30-20

SAMPLE TYPE

☐ THIN W. TUBE

☐ NO RECOVERY

☐ SPLIT SPOON

☐ PISTON

☐ CORE

☐ GRAB

EBA ENGINEERING CONSULTANTS LTD.
 EDMONTON ALBERTA
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BOREHOLE LOG AND LABORATORY TEST RESULTS

1976 ISLAND SITE INVEST. - ARNAK L-30 IMPERIAL OIL LTD				EBA # 1-1330 N7747355 E543005 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		CLAY (CL) - medium grey, silty, medium to low plastic									0
1											1
2	X		UNFROZEN								2
3											3
4	X	- thin laminations of silt and silty sand									4
5											5
6		- trace of organics									6
7											7
8		- dark grey, silty, medium to high plastic, trace of shells									8
9	M	- low to medium plastic (CL)									9
10											10
11		SAND-SILT (sm-mi) - dark grey, fine grained, trace of gravel									11
12											12
13		SAND (sm) - medium greyish brown, silty, very fine grained, uniform									13
14	M										14
15		- some silt (SP-SM)									15

DRILL RIG - BECKER DRILL
 DRILLED FROM ICE
 WATER DEPTH - 8.3m
 ORIGINAL BOREHOLE NUMBER - 76-L30-21

SAMPLE TYPE

THIN W. TUBE	PISTON
NO RECOVERY	CORE
SPLIT SPOON	GRAB

EBA ENGINEERING CONSULTANTS LTD.
 EDMONTON ALBERTA
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BOREHOLE LOG AND LABORATORY TEST RESULTS

1976 ISLAND SITE INVEST. - ARNAK L-30 IMPERIAL OIL LTD				EBA # 1-1330 N7747355 E543005 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		SAND (SP-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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												96
												97
												98

DRILL RIG - BECKER DRILL
 DRILLED FROM ICE
 WATER DEPTH - 8.3m
 ORIGINAL BOREHOLE NUMBER - 76-L30-21

SAMPLE TYPE

☐ THIN W. TUBE
☐ NO RECOVERY
☒ SPLIT SPOON

☐ PISTON
☐ CORE
☒ GRAB

EBA ENGINEERING CONSULTANTS LTD.
 EDMONTON ALBERTA
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BOREHOLE NUMBER
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BOREHOLE LOG AND LABORATORY TEST RESULTS

1976 ISLAND SITE INVEST. - ARNAK L-30 IMPERIAL OIL LTD				EBA # 1-1330 N7747430 E543400 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			CLAY (CL) - medium grey, silty, low to medium plastic	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	
			- stiff								16	
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											26	
											27	
											28	
											29	
											30	
											31	
			SILT (ml) - medium grey, clayey, low to non plastic								32	
											33	
											34	
											35	
											36	
											37	
											38	
											39	
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											49	

DRILL RIG - BECKER DRILL
 DRILLED FROM ICE
 WATER DEPTH - 8.7m
 ORIGINAL BOREHOLE NUMBER - 76-L30-23

SAMPLE TYPE

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

EBA ENGINEERING CONSULTANTS LTD.
 EDMONTON ALBERTA
 DRAWING NUMBER

BOREHOLE NUMBER
 L30-23
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BOREHOLE LOG AND LABORATORY TEST RESULTS

1976 ISLAND SITE INVEST. - ARNAK L-30 IMPERIAL OIL LTD				EBA # 1-1330 N7747430 E543400 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			SAND-SILT (sm-mi) - dark grey to black, organic	UNFROZEN								50	
16			SAND (SM) - medium grey, silty, very fine grained, uniform										51
17													52
18													53
19			- trace silt (SP)										54
20			- very silty (SM)										55
21			- some silt (SM)										56
22			END OF BOREHOLE at 20.9m										57
23													58
24													59
25													60
26													61
27													62
28													63
29													64
30												65	
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DRILL RIG - BECKER DRILL
 DRILLED FROM ICE
 WATER DEPTH - 8.7m
 ORIGINAL BOREHOLE NUMBER - 76-L30-23

SAMPLE TYPE

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

EBA ENGINEERING CONSULTANTS LTD.
 EDMONTON ALBERTA
 DRAWING NUMBER

BOREHOLE NUMBER
 L30-23
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BOREHOLE LOG AND LABORATORY TEST RESULTS

1976 ISLAND SITE INVEST. - ARNAK L-30 IMPERIAL OIL LTD				EBA # 1-1330 N7747280 E543705 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 (cl) - grey, silty, firm										0
1												1
2	X	SILT (ML) - grey, clayey, low to medium plasticity	UNFROZEN			45						2
3												3
4	M	- thick interbeds of silty clay, medium plastic (CL)										4
5												5
6												6
7	X	- some organic layers, pockets of fine sand				45						7
8												8
9												9
10												10
11												11
12												12
13												13
14		SILT (ml) - grey brown, sandy										14
15		SAND (SP-SM) - light brown, fine grained, silty										15

DRILL RIG - BECKER DRILL
 DRILLED FROM ICE
 WATER DEPTH - 8.4m
 ORIGINAL BOREHOLE NUMBER - 76-L30-24

SAMPLE TYPE

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

EBA ENGINEERING CONSULTANTS LTD.
 EDMONTON ALBERTA
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BOREHOLE NUMBER
 L30-24
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BOREHOLE LOG AND LABORATORY TEST RESULTS

1976 ISLAND SITE INVEST. - ARNAK L-30 IMPERIAL OIL LTD				EBA # 1-1330 N7747280 E543705 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		SAND (SP-SM) - (cont'd)										50
16	X	- trace to some silt										51
17	X	- thin laminations of grey sandy silty clay (ml-cl)										52
18												53
19												54
20		- siltier										55
21												56
22												57
23		SAND-SILT (sm-ml) - light brown, very fine grained										58
24		SAND (SP) - medium brown, fine to medium grained, trace of organics, trace of silt, some fine gravel	UNFROZEN									59
25	X											60
26												61
27												62
28		END OF BOREHOLE at 28.5m										63
29												64
30												65
												66
												67
												68
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												98

DRILL RIG - BECKER DRILL
 DRILLED FROM ICE
 WATER DEPTH - 8.4m
 ORIGINAL BOREHOLE NUMBER - 76-L30-24

SAMPLE TYPE

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

EBA ENGINEERING CONSULTANTS LTD.
 EDMONTON ALBERTA
 DRAWING NUMBER

BOREHOLE NUMBER
 L30-24
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BOREHOLE LOG AND LABORATORY TEST RESULTS

1978 ISLAND SITE INVEST. - ARNAK L-30 IMPERIAL OIL LTD				EBA # 1-1330 N7746640 E542720 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 (CL) - medium grey, silty, medium plastic									0
1											1
2											2
3		- trace of organics									3
4											4
5											5
6		- trace of fine gravel									6
7											7
8											8
9		SAND (SP-SM) - medium grey, some silt, fine grained									9
10											10
11		SAND-SILT (sm-m) - dark brown									11
12		SAND (SP-SM) - medium to dark grey brown, fine to medium grained, uniform, trace of silt, organics (wood), trace to some fine gravel									12
13											13
14											14
15											15

DRILL RIG - BECKER DRILL
 DRILLED FROM ICE
 WATER DEPTH - 8.1m
 ORIGINAL BOREHOLE NUMBER - 76-L30-26

SAMPLE TYPE

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

EBA ENGINEERING CONSULTANTS LTD.
 EDMONTON ALBERTA
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 L30-26
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BOREHOLE LOG AND LABORATORY TEST RESULTS

1976 ISLAND SITE INVEST. - ARNAK L-30 IMPERIAL OIL LTD				EBA # 1-1330 N7746640 E542720 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		SAND (SP-SM) - (cont'd)										50
16												51
17												52
18												53
19												54
20												55
21												56
22												57
23												58
24												59
25												60
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DRILL RIG - BECKER DRILL DRILLED FROM ICE WATER DEPTH - 8.1m ORIGINAL BOREHOLE NUMBER - 76-L30-26	SAMPLE TYPE THIN W. TUBE NO RECOVERY SPLIT SPOON PISTON CORE GRAB	EBA ENGINEERING CONSULTANTS LTD. EDMONTON ALBERTA DRAWING NUMBER	BOREHOLE NUMBER L30-26 PAGE 2 OF 2
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BOREHOLE LOG AND LABORATORY TEST RESULTS

1976 ISLAND SITE INVEST. - ARNAK L-30 IMPERIAL OIL LTD				EBA # 1-1330 N7746995 E543655 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			CLAY (CL) - medium grey, silty, low plastic								0
1											1
2			- 0.3m layer of medium brownish grey sand, some silt, some shells	UNFROZEN							2
3			- thin laminations of silt and organics								3
4											4
5											5
6											6
7											7
8			- thick laminations of silt END OF BOREHOLE at 7.6m	UNFROZEN							8
9											9
10											10
11											11
12											12
13											13
14											14
15											15

DRILL RIG - BECKER DRILL DRILLED FROM ICE WATER DEPTH - 8.2m ORIGINAL BOREHOLE NUMBER - 76-L30-31	SAMPLE TYPE ☐ THIN W. TUBE ☐ NO RECOVERY ☐ SPLIT SPOON ☐ PISTON ☐ CORE ☐ GRAB	EBA ENGINEERING CONSULTANTS LTD. EDMONTON ALBERTA DRAWING NUMBER	BOREHOLE NUMBER L30-31
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BOREHOLE LOG AND LABORATORY TEST RESULTS

1976 ISLAND SITE INVEST. - ARNAK L-30 IMPERIAL OIL LTD				EBA # 1-1330 N7747310 E543295 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 (CL) - grey, silty, some shells									0
1											1
2	X	- thick laminations of sandy silt, trace of organics	UNFROZEN								2
3											3
4											4
5											5
6											6
7	X										7
8											8
9											9
10											10
11											11
12											12
13		SAND (sp-sm) - medium brown, trace to some silt, fine grained									13
14	X										14
15											15

DRILL RIG - BECKER DRILL
 DRILLED FROM ICE
 WATER DEPTH - 8.3m
 ORIGINAL BOREHOLE NUMBER - 76-L30-32

SAMPLE TYPE

THIN W. TUBE	PISTON
NO RECOVERY	CORE
SPLIT SPOON	GRAB

EBA ENGINEERING CONSULTANTS LTD.
 EDMONTON ALBERTA
 DRAWING NUMBER

BOREHOLE NUMBER
 L30-32
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BOREHOLE LOG AND LABORATORY TEST RESULTS

1976 ISLAND SITE INVEST. - ARNAK L-30 IMPERIAL OIL LTD				EBA # 1-1330 N7747310 E543295 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			SAMD (SP) - (cont'd)								50
16											51
17											52
18											53
19											54
20											55
21											56
22											57
23											58
24											59
25											60
26											61
27											62
28											63
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											97
											98

DRILL RIG - BECKER DRILL
 DRILLED FROM ICE
 WATER DEPTH - 8.3m
 ORIGINAL BOREHOLE NUMBER - 76-L30-32

SAMPLE TYPE

☐ THIN W. TUBE

☐ NO RECOVERY

☐ SPLIT SPOON

☐ PISTON

☐ CORE

☐ GRAB

EBA ENGINEERING CONSULTANTS LTD.
 EDMONTON ALBERTA
 DRAWING NUMBER

BOREHOLE NUMBER
 L30-32
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BOREHOLE LOG AND LABORATORY TEST RESULTS

1976 ISLAND SITE INVEST. - ARNAK L-30 IMPERIAL OIL LTD				EBA # 1-1330 N7748995 E542900 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 (CL) - medium grey, silty, medium plastic									0
1											1
2		- trace of organics, silt laminations									2
3											3
4											4
5			UNFROZEN								5
6											6
7		- black organic laminations									7
8											8
9		SAND (sp-sm) - medium grey, silty and gravelly, fine grained									9
10		- medium brown, clean to trace of silt (SP), fine to medium grained, trace of medium gravel									10
11											11
12		- fine, some medium grained, trace of silt									12
13											13
14											14
15											15

DRILL RIG - BECKER DRILL
 DRILLED FROM ICE
 WATER DEPTH - 8.0m
 ORIGINAL BOREHOLE NUMBER - 76-L30-33

SAMPLE TYPE

THIN W. TUBE	PISTON
NO RECOVERY	CORE
SPLIT SPOON	GRAB

EBA ENGINEERING CONSULTANTS LTD.
 EDMONTON ALBERTA
 DRAWING NUMBER

BOREHOLE NUMBER
 L30-33
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BOREHOLE LOG AND LABORATORY TEST RESULTS

1976 ISLAND SITE INVEST. - ARNAK L-30 IMPERIAL OIL LTD				EBA # 1-1330 N7746995 E542900 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		SAND (SP) - (cont'd)										50
16												51
17		- some silt to silty (SP-SM)										52
18												53
19												54
20												55
21												56
22		- clean (SP), finer with depth										57
23												58
24												59
25												60
26												61
27												62
28		- medium greyish brown, fine grained, trace to some silt (SP)										63
29		END OF BOREHOLE at 28.9m	UNFROZEN									64
30												65
												66
												67
												68
												69
												70
												71
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												96
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												98

DRILL RIG - BECKER DRILL
 DRILLED FROM ICE
 WATER DEPTH - 8.0m
 ORIGINAL BOREHOLE NUMBER - 76-L30-33

SAMPLE TYPE

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

EBA ENGINEERING CONSULTANTS LTD.
 EDMONTON ALBERTA
 DRAWING NUMBER

BOREHOLE NUMBER
 L30-33
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BOREHOLE LOG AND LABORATORY TEST RESULTS

1976 ISLAND SITE INVEST. - ARNAK L-30 IMPERIAL OIL LTD				EBA # 1-1330 N7746905 E543200 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 (cl) - medium grey, silty, low to medium plastic	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	
DRILL RIG - BECKER DRILL DRILLED FROM ICE WATER DEPTH - 8.4m ORIGINAL BOREHOLE NUMBER - 76-L30-34			SAMPLE TYPE ☐ THIN W. TUBE ☐ PISTON ☐ NO RECOVERY ☐ CORE ☐ SPLIT SPOON ☐ GRAB			EBA ENGINEERING CONSULTANTS LTD. EDMONTON ALBERTA DRAWING NUMBER			BOREHOLE NUMBER L30-34 PAGE 1 OF 2				

BOREHOLE LOG AND LABORATORY TEST RESULTS

1978 ISLAND SITE INVEST. - ARNAK L-30 IMPERIAL OIL LTD				EBA # 1-1330 N7748905 E543200 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			SAND (SP) - dark grey, silty, fine to medium grained									50
16			- medium grey trace of silt									51
17												52
18			- trace of fine gravel									53
19												54
20												55
21												56
22												57
23												58
24												59
25												60
26												61
27												62
28												63
29			END OF BOREHOLE at 28.5m	UNFROZEN								64
30												65
												66
												67
												68
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DRILL RIG - BECKER DRILL
 DRILLED FROM ICE
 WATER DEPTH - 8.4m
 ORIGINAL BOREHOLE NUMBER - 76-L30-34

SAMPLE TYPE

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

EBA ENGINEERING CONSULTANTS LTD.
 EDMONTON ALBERTA
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BOREHOLE NUMBER
 L30-34
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BOREHOLE LOG AND LABORATORY TEST RESULTS

1976 ISLAND SITE INVEST. - ARNAK L-30 IMPERIAL OIL LTD				EBA # 1-1330 N7746805 E542795 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		CLAY (CL) - medium grey, silty, low to medium plastic, some thin laminations of silty sand and silt										0		
1													1	
2													2	
3													3	
4		- trace of organics	UNFROZEN									4		
5													5	
6													6	
7													7	
8													8	
9													9	
10													10	
11													11	
12													12	
13													13	
14													14	
15													15	
		SAND (SP) - medium grey, fine grained, some medium grained, trace of silt, trace of fine gravel in top 0.3m, finer with depth												16
														17
														18
												19		
												20		
												21		
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												48		
												49		

DRILL RIG - BECKER DRILL
 DRILLED FROM ICE
 WATER DEPTH - 8.0m
 ORIGINAL BOREHOLE NUMBER - 76-L30-35

SAMPLE TYPE

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

EBA ENGINEERING CONSULTANTS LTD.
 EDMONTON ALBERTA
 DRAWING NUMBER

BOREHOLE NUMBER
 L30-35
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BOREHOLE LOG AND LABORATORY TEST RESULTS

1976 ISLAND SITE INVEST. - ARNAK L-30 IMPERIAL OIL LTD				EBA # 1-1330 N7746805 E542795 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		SAND (SP) - (cont'd)										50
16												51
17												52
18												53
19		- silty (SM)										54
20												55
21		- medium grey, trace to some silt (SP-SM), fine to very fine										56
22												57
23												58
24												59
25												60
26												61
27												62
28												63
29		END OF BOREHOLE at 28.9m	UNFROZEN									64
30												65
												66
												67
												68
												69
												70
												71
												72
												73
												74
												75
												76
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												96
												97
												98

DRILL RIG - BECKER DRILL
 DRILLED FROM ICE
 WATER DEPTH - 8.0m
 ORIGINAL BOREHOLE NUMBER - 76-L30-35

SAMPLE TYPE

THIN W. TUBE	PISTON
NO RECOVERY	CORE
SPLIT SPOON	GRAB

EBA ENGINEERING CONSULTANTS LTD.
 EDMONTON ALBERTA
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 L30-35
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BOREHOLE LOG AND LABORATORY TEST RESULTS

1978 ISLAND SITE INVEST. - ARNAK L-30 IMPERIAL OIL LTD				EBA # 1-1330 N7746705 E543095 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			CLAY (CL) - medium grey, silty, low to medium plastic, some thin laminations of silt, trace of organics	UNROZEN							
1											
2											
3											
4											
5											
6											
7											
8											
9											
10											
11											
12											
13											
14			SAND (SP-SM) - medium grey, some silt, fine to very fine grained, trace of gravel in top 0.3m								
15											
			CLAY (cl) - medium grey, silty, trace of fine sand								
			SAND (SP) - medium brown, trace of silt, fine to medium grained								

DRILL RIG - BECKER DRILL
 DRILLED FROM ICE
 WATER DEPTH - 8.3m
 ORIGINAL BOREHOLE NUMBER - 76-L30-36

SAMPLE TYPE

THIN W. TUBE	PISTON
NO RECOVERY	CORE
SPLIT SPOON	GRAB

EBA ENGINEERING CONSULTANTS LTD.
 EDMONTON ALBERTA
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 L30-36
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BOREHOLE LOG AND LABORATORY TEST RESULTS

1978 ISLAND SITE INVEST. -- ARNAK L-30 IMPERIAL OIL LTD					EBA / 1-1330 N7746705 E543095 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													50
		SAND (SP) -- (cont'd)											51
16													52
													53
17													54
													55
18													56
													57
19		- trace to some silt (SP-SM)											58
													59
20		- trace of organics											60
													61
21													62
													63
22		- clean to trace of silt (SP)											64
													65
23													66
													67
24													68
													69
25													70
													71
26													72
													73
27													74
													75
28		- trace of fine gravel											76
		END OF BOREHOLE at 28.5m	UNFROZEN										77
29													78
													79
30													80
													81
													82
													83
													84
													85
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													88
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													92
													93
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													95
													96
													97
													98

DRILL RIG -- BECKER DRILL
 DRILLED FROM ICE
 WATER DEPTH -- 8.3m
 ORIGINAL BOREHOLE NUMBER -- 76-L30-36

SAMPLE TYPE

THIN W. TUBE	PISTON
NO RECOVERY	CORE
SPLIT SPOON	GRAB

EBA ENGINEERING CONSULTANTS LTD.
 EDMONTON ALBERTA
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BOREHOLE LOG AND LABORATORY TEST RESULTS

1976 ISLAND SITE INVEST. - ARNAK L-30 IMPERIAL OIL LTD				EBA # 1-1330 N7746580 E542360 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 (CL) - medium grey, medium plastic, silty								0
1											1
2											2
3			- thick laminations, of brownish grey silt	UNFROZEN							3
4											4
5											5
6											6
7											7
8			SAND (SM) - medium brown, some silt, fine to medium grained								8
9											9
10											10
11											11
12											12
13											13
14											14
15											15

DRILL RIG - BECKER DRILL
 DRILLED FROM ICE
 WATER DEPTH - 7.8m
 ORIGINAL BOREHOLE NUMBER - 76-L30-P1A

SAMPLE TYPE

THIN W. TUBE	PISTON
NO RECOVERY	CORE
SPLIT SPOON	GRAB

EBA ENGINEERING CONSULTANTS LTD.
 EDMONTON ALBERTA
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BOREHOLE NUMBER
 L30-P1A
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BOREHOLE LOG AND LABORATORY TEST RESULTS

1976 ISLAND SITE INVEST. - ARNAK L-30 IMPERIAL OIL LTD				EBA # 1-1330 N7746580 E542360 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			SAND (SM) - (cont'd)									50
16												51
17												52
18												53
19												54
20												55
21												56
22												57
23												58
24												59
25												60
26												61
27												62
28												63
29												64
30												65
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												90
												91
												92
												93
												94
												95
												96
												97
												98

DRILL RIG - BECKER DRILL DRILLED FROM ICE WATER DEPTH - 7.8m ORIGINAL BOREHOLE NUMBER - 76-L30-P1A	SAMPLE TYPE THIN W. TUBE NO RECOVERY SPLIT SPOON PISTON CORE GRAB	EBA ENGINEERING CONSULTANTS LTD. EDMONTON ALBERTA DRAWING NUMBER	BOREHOLE NUMBER L30-P1A PAGE 2 OF 2
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BOREHOLE LOG AND LABORATORY TEST RESULTS

1978 ISLAND SITE INVEST. - ARNAK L-30 IMPERIAL OIL LTD				EBA # 1-1330 N7746405 E542520 Z8		Bulk Density Mg/m ³ ▲ 1.4 1.6 1.8 2			PLASTIC WATER LIQUID LIMIT CONTENT (%) LIMIT			SPECIAL TESTS	UNIT	
SAMPLE TYP NO. Q			SOIL DESCRIPTION	GROUND ICE DESCRIPTION	TEMP C									
0			CLAY (CL) - medium grey, silty, medium plastic											0
1														1
2														2
3			- some thick laminations of medium brownish grey silt, dark grey, silty, medium plastic, trace of organics	UNFROZEN										3
4														4
5														5
6														6
7														7
8			SAND (sm) - medium grey brown, fine grained, some silt and gravel, some thin interbeds of silt clay											8
9			CLAY (CL) - dark grey to black, silty, medium plastic, organic											9
10														10
11			SAND (SM) - medium brown, fine to medium some silt											11
12														12
13														13
14														14
15														15

DRILL RIG - BECKER DRILL
 DRILLED FROM ICE
 WATER DEPTH - 8.0m
 ORIGINAL BOREHOLE NUMBER - 76-L30-P18

SAMPLE TYPE

THIN W. TUBE	PISTON
NO RECOVERY	CORE
SPLIT SPOON	GRAB

EBA ENGINEERING CONSULTANTS LTD.
 EDMONTON ALBERTA
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 L30-P18
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BOREHOLE LOG AND LABORATORY TEST RESULTS

1976 ISLAND SITE INVEST. - ARNAK L-30 IMPERIAL OIL LTD				EBA # 1-1330 N7746405 E542520 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			SAND (SM) - (cont'd)									50
16												51
17			- fine to medium sand, trace of silt (SP)									52
18												53
19												54
20												55
21												56
22			- fine grained, trace of silt (SP-SM)									57
23												58
24												59
25			- clean to trace of silt (SP), slight trace of gravel, trace of organics									60
26												61
27												62
28												63
29			END OF BOREHOLE at 28.9m	UNFROZEN								64
30												65
												66
												67
												68
												69
												70
												71
												72
												73
												74
												75
												76
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												90
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												92
												93
												94
												95
												96
												97
												98

DRILL RIG - BECKER DRILL
 DRILLED FROM ICE
 WATER DEPTH - 8.0m
 ORIGINAL BOREHOLE NUMBER - 76-L30-P1B

SAMPLE TYPE

THIN W. TUBE	PISTON
NO RECOVERY	CORE
SPLIT SPOON	GRAB

EBA ENGINEERING CONSULTANTS LTD.
 EDMONTON ALBERTA
 DRAWING NUMBER

BOREHOLE NUMBER
 L30-P1B
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BOREHOLE LOG AND LABORATORY TEST RESULTS

1976 ISLAND SITE INVEST. - ARNAK L-30 IMPERIAL OIL LTD				EBA # 1-1330 N7746180 E542720 Z8		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 20 40 60 80			SPECIAL TESTS		UNIT	
SAMPLE			SOIL DESCRIPTION			GROUND ICE DESCRIPTION			TEMP C												
TYP NO. Q																					
0			CLAY (CL) - medium grey, silty, medium plastic																		
1																					
2																					
3						UNFROZEN															
4																					
5																					
6			- trace of organics																		
7			SILT (ml)																		
8			SAND (sm) - medium brown, trace to some silt, fine to medium grained																		
9																					
10			- trace of silt to clean (SP), trace of fine gravel																		
11																					
12																					
13			- medium grey, silty (SM), very fine grained																		
14																					
15																					

DRILL RIG - BECKER DRILL
 DRILLED FROM ICE
 WATER DEPTH - 7.8m
 ORIGINAL BOREHOLE NUMBER - 76-L30-P1C

SAMPLE TYPE

THIN W. TUBE	PISTON
NO RECOVERY	CORE
SPLIT SPOON	GRAB

EBA ENGINEERING CONSULTANTS LTD.
 EDMONTON ALBERTA
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BOREHOLE NUMBER
 L30-P1C
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BOREHOLE LOG AND LABORATORY TEST RESULTS

1976 ISLAND SITE INVEST. - ARNAK L-30 IMPERIAL OIL LTD				EBA # 1-1330 N7748180 ES42720 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										
			SAND (SM) - (cont'd)									50
												51
												52
												53
												54
												55
												56
												57
												58
												59
												60
												61
												62
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												89
												90
												91
												92
												93
												94
												95
												96
												97
												98
			END OF BOREHOLE at 29.1m	UNFROZEN								

DRILL RIG - BECKER DRILL
 DRILLED FROM ICE
 WATER DEPTH - 7.8m
 ORIGINAL BOREHOLE NUMBER - 76-L30-P1C

SAMPLE TYPE

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

EBA ENGINEERING CONSULTANTS LTD.
 EDMONTON ALBERTA
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 L30-P1C
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BOREHOLE LOG AND LABORATORY TEST RESULTS

1978 ISLAND SITE INVEST. - ARNAK L-30 IMPERIAL OIL LTD				EBA # 1-1330 N7746105 E542180 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 (CL) - medium to dark grey, silty, medium plastic	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	
			SAND (SM) - medium greyish brown, silty, fine grained, uniform, trace of gravel								16	
											17	
											18	
											19	
											20	
											21	
											22	
											23	
											24	
											25	
											26	
											27	
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											45	
											46	
											47	
											48	
											49	

DRILL RIG - BECKER DRILL
 DRILLED FROM ICE
 WATER DEPTH - 7.7m
 ORIGINAL BOREHOLE NUMBER - 76-L30-P1-G

SAMPLE TYPE

THIN W. TUBE	PISTON
NO RECOVERY	CORE
SPLIT SPOON	GRAB

EBA ENGINEERING CONSULTANTS LTD.
 EDMONTON ALBERTA
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BOREHOLE NUMBER
 L30-P1G
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BOREHOLE LOG AND LABORATORY TEST RESULTS

1976 ISLAND SITE INVEST. - ARNAK L-30 IMPERIAL OIL LTD				EBA # 1-1330 N7746105 E542180 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												50
16												51
17			- trace of silt (SP)	UNFROZEN								52
18												53
19												54
20												55
21												56
22			END OF BOREHOLE at 21.9m									57
23												58
24												59
25												60
26												61
27												62
28												63
29												64
30												65
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												95
												96
												97
												98

DRILL RIG - BECKER DRILL
 DRILLED FROM ICE
 WATER DEPTH - 7.7m
 ORIGINAL BOREHOLE NUMBER - 76-L30-P1-G

SAMPLE TYPE

THIN W. TUBE	PISTON
NO RECOVERY	CORE
SPLIT SPOON	GRAB

EBA ENGINEERING CONSULTANTS LTD.
 EDMONTON ALBERTA
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BOREHOLE LOG AND LABORATORY TEST RESULTS

1976 ISLAND SITE INVEST. - ARNAK L-30 IMPERIAL OIL LTD				EBA # 1-1330 N7745805 E541845 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 (cl) - medium to light grey, silty, soft, medium plastic										0
1												1
2												2
3	M	- some thin silt laminations (ML)	UNFROZEN									3
4												4
5												5
6												6
7		SAND-SILT (sm-mi) - medium grey, very fine grained, trace of gravel, thin interbeds of silt clay										7
8												8
9	M	SAND (SM) - medium grey brown, some silt, fine grained										9
10												10
11												11
12												12
13	M	- silty (SM)										13
14												14
15												15

DRILL RIG - BECKER DRILL
 DRILLED FROM ICE
 WATER DEPTH - 7.2m
 ORIGINAL BOREHOLE NUMBER - 76-L30-P1Z

SAMPLE TYPE

THIN W. TUBE	PISTON
NO RECOVERY	CORE
SPLIT SPOON	GRAB

EBA ENGINEERING CONSULTANTS LTD.
 EDMONTON ALBERTA
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BOREHOLE LOG AND LABORATORY TEST RESULTS

1978 ISLAND SITE INVEST. - ARNAK L-30 IMPERIAL OIL LTD				EBA # 1-1330 N7745805 E541845 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			SAND (SM) - (cont'd)									50
16												51
17	M		- trace of silt (SP-SM), fine uniform, trace of fine gravel									52
18												53
19												54
20												55
21			- fine grained, uniform, trace of silt to clean (SP)									56
22												57
23												58
24												59
25			END OF BOREHOLE at 24.7m									60
26												61
27												62
28												63
29												64
30												65
												66
												67
												68
												69
												70
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												92
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												94
												95
												96
												97
												98

DRILL RIG - BECKER DRILL
 DRILLED FROM ICE
 WATER DEPTH - 7.2m
 ORIGINAL BOREHOLE NUMBER - 76-L30-P1Z

SAMPLE TYPE

THIN W. TUBE	PISTON
NO RECOVERY	CORE
SPLIT SPOON	GRAB

EBA ENGINEERING CONSULTANTS LTD.
 EDMONTON ALBERTA
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 L30-P1Z
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BOREHOLE LOG AND LABORATORY TEST RESULTS

1976 ISLAND SITE INVEST. - ARNAK L-30 IMPERIAL OIL LTD				EBA # 1-1330 N7746920 E543880 Z8		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				
SAMPLE		SOIL DESCRIPTION	GROUND ICE DESCRIPTION	TEMP C														
TYP	NO. Q																	
0		CLAY (CL) - medium grey, silty, medium plastic, trace of thin silt laminations	UNFROZEN															
1																		
2																		
3																		
4																		
5																		
6																		
7																		
8																		
9																		
10																		
11		SAND-SILT (sm-mi) - dark grey, very fine uniform sand																
12																		
13																		
14																		
15		SAND (sm) - medium grey, silty, fine grained, uniform																

DRILL RIG - BECKER DRILL
 DRILLED FROM ICE
 WATER DEPTH - 8.8m
 ORIGINAL BOREHOLE NUMBER - 76-L30-P2A

SAMPLE TYPE

THIN W. TUBE	PISTON
NO RECOVERY	CORE
SPLIT SPOON	GRAB

EBA ENGINEERING CONSULTANTS LTD.
 EDMONTON ALBERTA
 DRAWING NUMBER

BOREHOLE NUMBER
 L30-P2A
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BOREHOLE LOG AND LABORATORY TEST RESULTS

1976 ISLAND SITE INVEST. - ARNAK L-30 IMPERIAL OIL LTD				EBA # 1-1330 N7746920 E543880 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			SAND (sm) - (cont'd)									50
16			- some silt (SP-SM)									51
17												52
18												53
19			- (SM)									54
20												55
21			- trace of silt (SP)									56
22												57
23				UNFROZEN								58
24			- trace of organics									59
25												60
26												61
27												62
28			END OF BOREHOLE at 28.0m									63
29												64
30												65
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												96
												97
												98

DRILL RIG - BECKER DRILL
 DRILLED FROM ICE
 WATER DEPTH - 8.8m
 ORIGINAL BOREHOLE NUMBER - 76-L30-P2A

SAMPLE TYPE

THIN W. TUBE	PISTON
NO RECOVERY	CORE
SPLIT SPOON	GRAB

EBA ENGINEERING CONSULTANTS LTD.
 EDMONTON ALBERTA
 DRAWING NUMBER

BOREHOLE NUMBER
 L30-P2A
 PAGE 2 OF 2

BOREHOLE LOG AND LABORATORY TEST RESULTS

1976 ISLAND SITE INVEST. - ARNAK L-30 IMPERIAL OIL LTD				EBA # 1-1330 N7746745 E543880 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			CLAY (CL) - medium grey, silty, medium plastic, thinly bedded with silt, stiff			UNFROZEN															
1	X																				
2	X																				
3																					
4																					
5	X																				
6																					
7	X																				
8																					
9	X																				
10	X																				
11	X		SILT-CLAY (ml-cl) - medium brownish grey, trace of very fine sand																		
12	X		CLAY (cl) - dark grey, silty,																		
13			SILT-SAND (ml-sm) - medium dark grey, very fine, uniform																		
14			SAND (SP-SM) - medium grey, trace to some silt, very fine grained																		
15																					

DRILL RIG - BECKER DRILL
 DRILLED FROM ICE
 WATER DEPTH - 8.7m
 ORIGINAL BOREHOLE NUMBER - 76-L30-P2B

SAMPLE TYPE

THIN W. TUBE	PISTON
NO RECOVERY	CORE
SPLIT SPOON	GRAB

EBA ENGINEERING CONSULTANTS LTD.
 EDMONTON ALBERTA
 DRAWING NUMBER

BOREHOLE NUMBER
 L30-P2B
 PAGE 1 OF 2

BOREHOLE LOG AND LABORATORY TEST RESULTS

1978 ISLAND SITE INVEST. - ARNAK L-30 IMPERIAL OIL LTD				EBA # 1-1330 N7746745 E543880 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	PLASTIC LIMIT	WATER CONTENT(%)	LIQUID LIMIT					
TYP	NO. Q											
15		SAND (SP-SM) - (cont'd)										50
16	M											51
17												52
18												53
19	M	- organic, pieces of wood										54
20												55
21												56
22												57
23	M	- some silt to silty (SM)										58
24												59
25												60
26	M	- some organics										61
27												62
28	M	END OF BOREHOLE at 28.2m	UNFROZEN									63
29												64
30												65
												66
												67
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												98

DRILL RIG - BECKER DRILL
 DRILLED FROM ICE
 WATER DEPTH - 8.7m
 ORIGINAL BOREHOLE NUMBER - 76-L30-P2B

SAMPLE TYPE

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

EBA ENGINEERING CONSULTANTS LTD.
 EDMONTON ALBERTA
 DRAWING NUMBER

BOREHOLE NUMBER
 L30-P2B
 PAGE 2 OF 2

BOREHOLE LOG AND LABORATORY TEST RESULTS

1976 ISLAND SITE INVEST. - ARNAK L-30 IMPERIAL OIL LTD				EBA # 1-1330 N7748600 E543880 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 (CL) - medium grey, silty, low plastic, thin interbeds of silt									0
1											1
2	X		UNFROZEN								2
3											3
4	X										4
5											5
6											6
7	X										7
8											8
9	X										9
10											10
11											11
12											12
13											13
14		- some sand									14
15		SAND-SILT (sm-mi) - black, fine grained, uniform, organic odour									15

DRILL RIG - BECKER DRILL
 DRILLED FROM ICE
 WATER DEPTH - 8.5m
 ORIGINAL BOREHOLE NUMBER - 76-L30-P2C

SAMPLE TYPE

THIN W. TUBE	PISTON
NO RECOVERY	CORE
SPLIT SPOON	GRAB

EBA ENGINEERING CONSULTANTS LTD.
 EDMONTON ALBERTA
 DRAWING NUMBER

BOREHOLE NUMBER
 L30-P2C
 PAGE 1 OF 2

BOREHOLE LOG AND LABORATORY TEST RESULTS

1978 ISLAND SITE INVEST. - ARNAK L-30 IMPERIAL OIL LTD				EBA # 1-1330 N7746600 E543880 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-SAND (ml-sm) - medium grey, very fine, uniform									50
16			SAND (SM) - medium grey, very fine grained, uniform, silty									51
17												52
18												53
19												54
20												55
21												56
22												57
23												58
24												59
25												60
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DRILL RIG - BECKER DRILL
 DRILLED FROM ICE
 WATER DEPTH - 8.5m
 ORIGINAL BOREHOLE NUMBER - 76-L30-P2C

SAMPLE TYPE

☐ THIN W. TUBE

☐ NO RECOVERY

☐ SPLIT SPOON

☐ PISTON

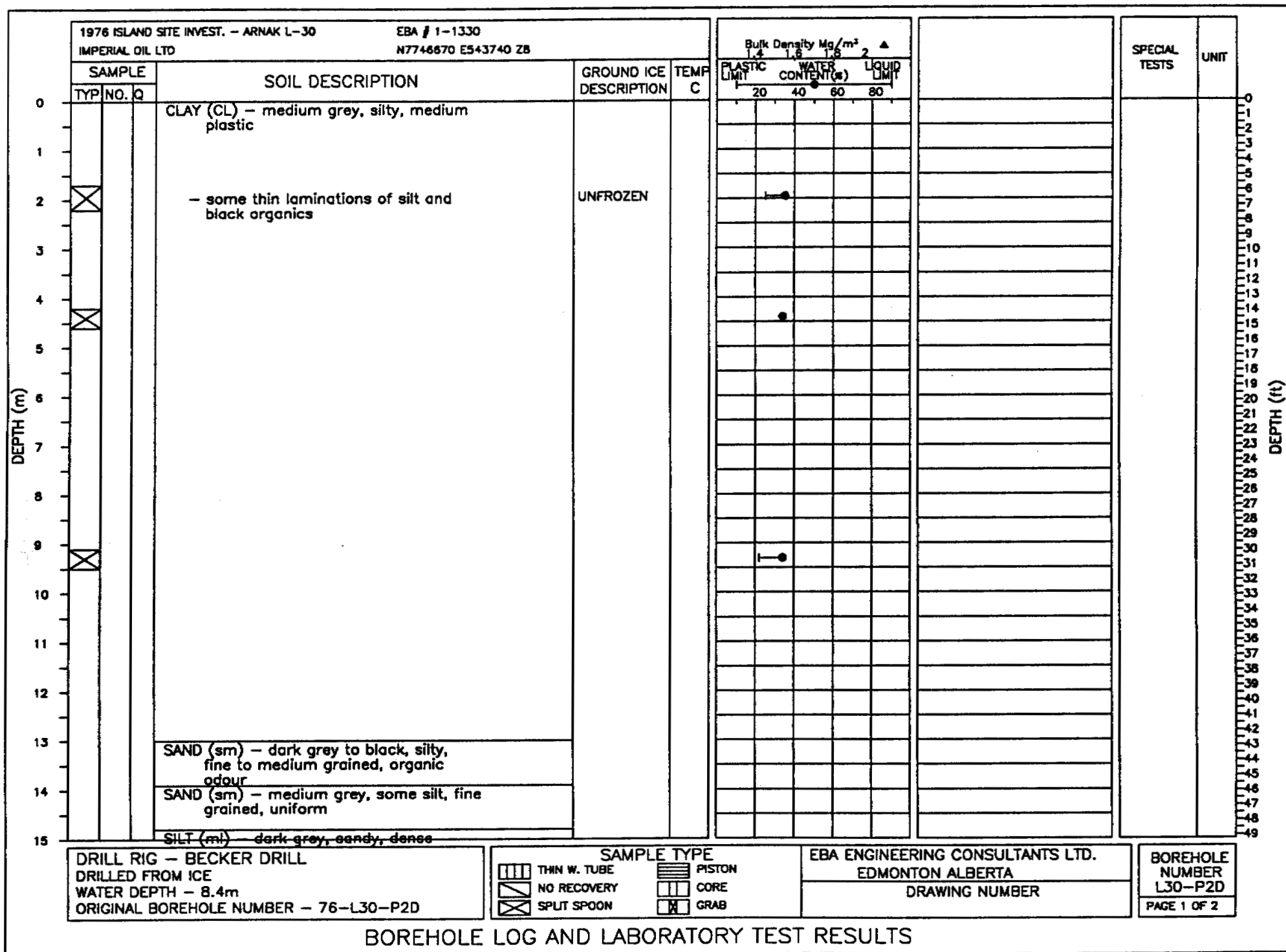
☐ CORE

☐ GRAB

EBA ENGINEERING CONSULTANTS LTD.
 EDMONTON ALBERTA
 DRAWING NUMBER

BOREHOLE NUMBER
 L30-P2C
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BOREHOLE LOG AND LABORATORY TEST RESULTS



1976 ISLAND SITE INVEST. - ARNAK L-30 IMPERIAL OIL LTD				EBA # 1-1330 N7746670 E543740 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			SAND (SM) - medium grey, very silty, fine grained, uniform									50
16												51
17												52
18												53
19												54
20												55
21												56
22												57
23												58
24												59
25												60
26												61
27												62
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												96
												97
												98

DRILL RIG - BECKER DRILL
 DRILLED FROM ICE
 WATER DEPTH - 8.4m
 ORIGINAL BOREHOLE NUMBER - 76-L30-P2D

SAMPLE TYPE

☐ THIN W. TUBE
☐ NO RECOVERY
☐ SPLIT SPOON

☐ PISTON
☐ CORE
☐ GRAB

EBA ENGINEERING CONSULTANTS LTD.
 EDMONTON ALBERTA
 DRAWING NUMBER

BOREHOLE NUMBER
 L30-P2D
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BOREHOLE LOG AND LABORATORY TEST RESULTS

1976 ISLAND SITE INVEST. -ISSERK B-15 IMPERIAL OIL LIMITED				EBA # 1-1330 N7746650 E532715 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										
0			CLAY (cl) - medium grey, silty, low to medium plastic	UNFROZEN								0
1			SILT (ML) - medium grey brown, low plastic, clayey, some thin laminations of silty clay and organics									1
2												2
3												3
4			- clayey, thin interbeds of clay-silt									4
5												5
6			SILT-CLAY (cl-mi) - medium grey, low plastic									6
7			SILT (ml) - medium brownish grey, some clay, non plastic, some thick clay-silt laminations									7
8												8
9												9
10			SAND-SILT (sm) - medium brown, very fine, uniform sand, trace to some, fine to coarse gravel									10

DRILL RIG - BECKER DRILL DRILLED FROM ICE WATER DEPTH - 7.2m ORIGINAL BOREHOLE NUMBER - 2120	SAMPLE TYPE THIN W. TUBE NO. RECOV. SPLIT SPOON HEAVY W. TUBE CORE GRAB	EBA ENGINEERING CONSULTANTS LTD. EDMONTON ALBERTA DRAWING NUMBER	BOREHOLE NUMBER 2120 PAGE 1 OF 3
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BOREHOLE LOG AND LABORATORY TEST RESULTS

1976 ISLAND SITE INVEST. -ISSERK B-15 IMPERIAL OIL LIMITED				EBA # 1-1330 N7746650 E532715 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	
		SAND-SILT (sm) - (cont'd)										33
												34
												35
												36
		SAND (SM) - medium brown, silty										37
												38
												39
												40
												41
												42
												43
												44
												45
												46
												47
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												49
												50
												51
												52
												53
												54
												55
												56
												57
												58
		- some to trace silt, trace to some fine gravel, fine to medium grained, trace coarse grained										59
												60
												61
		- clean (SP), trace of organics										62
												63
												64
												65

DRILL RIG - BECKER DRILL
 DRILLED FROM ICE
 WATER DEPTH - 7.2m
 ORIGINAL BOREHOLE NUMBER - 2120

SAMPLE TYPE

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

EBA ENGINEERING CONSULTANTS LTD.
 EDMONTON ALBERTA
 DRAWING NUMBER

BOREHOLE NUMBER
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BOREHOLE LOG AND LABORATORY TEST RESULTS

1976 ISLAND SITE INVEST. -ISSERK B-15 IMPERIAL OIL LIMITED				EBA # 1-1330 N7746650 E532715 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	WATER CONTENT (%)							
TYP	NO.	Q				PLASTIC LIMIT	20	40	60				80
			SAND (SP) - (cont'd)	UNFROZEN								66	
													67
													68
													69
													70
													71
													72
			END OF BOREHOLE at 21.8m										73
													74
													75
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												96	
												97	
												98	

DRILL RIG - BECKER DRILL
 DRILLED FROM ICE
 WATER DEPTH - 7.2m
 ORIGINAL BOREHOLE NUMBER - 2120

SAMPLE TYPE

☐ THIN W. TUBE

☐ NO. RECOV.

☐ SPLIT SPOON

☐ HEAVY W. TUBE

☐ CORE

☐ GRAB

EBA ENGINEERING CONSULTANTS LTD.
 EDMONTON ALBERTA

DRAWING NUMBER

BOREHOLE NUMBER
 2120

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BOREHOLE LOG AND LABORATORY TEST RESULTS

1976 BORROW INVENTORY TUFT POINT IMPERIAL OIL LIMITED				EBA # 1-1330 N7736370 E591380 ZB		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										
0	M		SAND (SM) - silty, trace of gravel, fine grained, trace coarse sand, grey	UNFROZEN								0
1												1
2	M		- resistance offered to drill rig between 2.4 to 3.4m									2
3			- silty, fine, uniform, grey brown									3
4												4
5												5
6												6
7			- trace silt (sp-sm), fine, uniform, brown									7
8												8
9												9
10												10
11												11
12												12
13												13
14												14
15												15

DRILL RIG - BECKER DRILL
 DRILLED FROM ICE
 WATER DEPTH - 6.9m
 ORIGINAL BOREHOLE NUMBER - 76-222

SAMPLE TYPE

☐ THIN W. TUBE
☐ NO RECOVERY
☐ SPLIT SPOON

☐ PISTON
☐ CORE
☒ GRAB

EBA ENGINEERING CONSULTANTS LTD.
 EDMONTON ALBERTA
 DRAWING NUMBER

BOREHOLE NUMBER
 76-222
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BOREHOLE LOG AND LABORATORY TEST RESULTS

1976 BORROW INVENTORY TUFT POINT IMPERIAL OIL LIMITED				EBA # 1-1330 N7736250 E591620 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-SAND (ml) - some gravel, non cohesive	UNFROZEN								0	
1			SAND (SP) - trace silt and gravel, fine, uniform, brown										1
2													2
3													3
4													4
5													5
6													6
7													7
8													8
9													9
10													10
11													11
12													12
13			END OF BOREHOLE at 13.0m									13	
14												14	
15												15	

DRILL RIG - BECKER DRILL
 DRILLED FROM ICE
 WATER DEPTH - 7.0m
 ORIGINAL BOREHOLE NUMBER - 76-240

SAMPLE TYPE

THIN W. TUBE	PISTON
NO RECOVERY	CORE
SPLIT SPOON	GRAB

EBA ENGINEERING CONSULTANTS LTD.
 EDMONTON ALBERTA
 DRAWING NUMBER

BOREHOLE NUMBER
 76-240

BOREHOLE LOG AND LABORATORY TEST RESULTS

1976 BORROW INVENTORY DRIFT POINT IMPERIAL OIL LIMITED				EBA # 1-1330 N7750050 E391150 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										
15			SAND (SP) - (cont'd)									50
16												51
17												52
18												53
19												54
20												55
21												56
22												57
23												58
24												59
25												60
26												61
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												98

DRILL RIG - BECKER DRILL
 DRILLED FROM ICE
 WATER DEPTH - 7.7m
 ORIGINAL BOREHOLE NUMBER - 76-53

SAMPLE TYPE

THIN W. TUBE
 NO RECOVERY
 SPLIT SPOON

PISTON
 CORE
 GRAB

EBA ENGINEERING CONSULTANTS LTD.
 EDMONTON ALBERTA
 DRAWING NUMBER

BOREHOLE NUMBER
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BOREHOLE LOG AND LABORATORY TEST RESULTS

1976 BORROW INVENTORY DRIFT POINT IMPERIAL OIL LIMITED				EBA # 1-1330 N7749340 E388940 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 (sm) – fine brown, some silt	UNFROZEN								0								
1																				1
2			SILT (ml) – organic, sandy																	2
3			SAND-SILT (sm)																	3
4			SAND (SP) – trace silt, trace gravel, some wood chips																	4
5			– some silt																	5
6			– some silt to trace silt																	6
7																				7
8																				8
9			– trace silt, trace gravel																	9
10			END OF BOREHOLE at 9.9									10								
11												11								
12												12								
13												13								
14												14								
15												15								

DRILL RIG – BECKER DRILL
 DRILLED FROM ICE
 WATER DEPTH – 7.5m
 ORIGINAL BOREHOLE NUMBER – 76-55

SAMPLE TYPE

☐ THIN W. TUBE

☐ NO RECOVERY

☐ SPLIT SPOON

☐ PISTON

☐ CORE

☐ GRAB

EBA ENGINEERING CONSULTANTS LTD.
 EDMONTON ALBERTA
 DRAWING NUMBER

BOREHOLE NUMBER
 76-55

BOREHOLE LOG AND LABORATORY TEST RESULTS

1976 BORROW INVENTORY DRIFT POINT IMPERIAL OIL LIMITED				EBA # 1-1330 N7750650 E390750 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										
15			SAND (SP) - (cont'd)									50
16												51
17												52
18												53
19												54
20												55
21												56
22												57
23												58
24												59
25												60
26												61
27												62
28												63
29												64
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												98

DRILL RIG - BECKER DRILL
 DRILLED FROM ICE
 WATER DEPTH - 7.9m
 ORIGINAL BOREHOLE NUMBER - 76-56

SAMPLE TYPE

☐ THIN W. TUBE

☐ NO RECOVERY

☐ SPLIT SPOON

☐ PISTON

☐ CORE

☐ GRAB

EBA ENGINEERING CONSULTANTS LTD.
 EDMONTON ALBERTA

DRAWING NUMBER

BOREHOLE NUMBER
 76-56

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BOREHOLE LOG AND LABORATORY TEST RESULTS

1976 BORROW INVENTORY DRIFT POINT IMPERIAL OIL LIMITED				EBA # 1-1330 N7749350 E391390 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-SILT (sm) - organic rich, black										0
1												1
2												2
3		SAND (sm) - some silt, fine, uniform - trace silt (SP)										3
4			UNFROZEN									4
5												5
6		- trace gravel, trace to some silt										6
7												7
8												8
9												9
10												10
11												11
12												12
13		- some silt (SP-SM)										13
14			UNFROZEN									14
15		NOTE: END OF BOREHOLE at 15.1m										15

DRILL RIG - BECKER DRILL
 DRILLED FROM ICE
 WATER DEPTH - 4.7m
 ORIGINAL BOREHOLE NUMBER - 76-119

SAMPLE TYPE

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

EBA ENGINEERING CONSULTANTS LTD.
 EDMONTON ALBERTA
 DRAWING NUMBER

BOREHOLE NUMBER
 76-119

BOREHOLE LOG AND LABORATORY TEST RESULTS

1976 BORROW INVENTORY DRIFT POINT IMPERIAL OIL LIMITED				EBA # 1-1330 N7751260 E391810 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 (sm) - silty, grey to black, organic, thin layer of clay									0
1												1
2												2
3			- trace silt (SP), fine, uniform									3
4				UNFROZEN								4
5												5
6			- trace silt to clean									6
7												7
8			- trace silt to clean (SP)									8
9				UNFROZEN								9
10												10
11												11
12			END OF BOREHOLE at 12.2m									12
13												13
14												14
15												15

DRILL RIG - BECKER DRILL
 DRILLED FROM ICE
 WATER DEPTH - 7.6m
 ORIGINAL BOREHOLE NUMBER - 76-129

SAMPLE TYPE

THIN W. TUBE	PISTON
NO RECOVERY	CORE
SPLIT SPOON	GRAB

EBA ENGINEERING CONSULTANTS LTD.
 EDMONTON ALBERTA
 DRAWING NUMBER

BOREHOLE NUMBER
 76-129

BOREHOLE LOG AND LABORATORY TEST RESULTS

1976 BORROW INVENTORY DRIFT POINT IMPERIAL OIL LIMITED				EBA # 1-1330 N7750750 E391250 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		SAND (sp) - trace silt, uniform, brown	UNFROZEN									1
2												2
3												3
4												4
5												5
6												6
7												7
8												8
9												9
10		- trace silt, trace gravel										10
11												11
12		END OF BOREHOLE at 12.3m										12
13												13
14												14
15												15

DRILL RIG - BECKER DRILL
 DRILLED FROM ICE
 WATER DEPTH - 7.6m
 ORIGINAL BOREHOLE NUMBER - 76-N-11

SAMPLE TYPE

THIN W. TUBE	PISTON
NO RECOVERY	CORE
SPLIT SPOON	GRAB

EBA ENGINEERING CONSULTANTS LTD.
 EDMONTON ALBERTA
 DRAWING NUMBER

BOREHOLE NUMBER
 76N-11

BOREHOLE LOG AND LABORATORY TEST RESULTS

1976 BORROW INVENTORY DRIFT POINT IMPERIAL OIL LIMITED				EBA # 1-1330 N7750380 E391630 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) - brown, uniform, fine, trace silt to clean, trace gravel									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 - BECKER DRILL DRILLED FROM ICE WATER DEPTH - 7.7m ORIGINAL BOREHOLE NUMBER - 76-Q-14	SAMPLE TYPE THIN W. TUBE NO RECOVERY SPLIT SPOON PISTON CORE GRAB	EBA ENGINEERING CONSULTANTS LTD. EDMONTON ALBERTA DRAWING NUMBER	BOREHOLE NUMBER 76Q-14
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BOREHOLE LOG AND LABORATORY TEST RESULTS

1976 BORROW INVENTORY TOKER POINT IMPERIAL OIL LIMITED				EBA #1-1330 N7730590 E581890 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-GRAVEL (SP) - to trace of gravel, trace of silt	UNFROZEN									0
1		GRAVEL (gm)										1
2		SAND (SM) - fine to medium, some silt, trace of gravel										2
3		- trace silt (SP), trace gravel, finer	UNFROZEN									3
4		SILT-CLAY (ml) - grey, medium plastic										4
5		SAND SILT (sm) - very fine, medium brown										5
6		SILT-CLAY (ml) - stiff to hard										6
7		END OF BOREHOLE at 6.7m										7
8												8
9												9
10												10
11												11
12												12
13												13
14												14
15												15

DRILL RIG - BECKER DRILL
 DRILLED FROM ICE
 WATER DEPTH - 5.8m
 ORIGINAL BOREHOLE NUMBER - 76-7

SAMPLE TYPE

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

EBA ENGINEERING CONSULTANTS LTD.
 EDMONTON ALBERTA
 DRAWING NUMBER

BOREHOLE NUMBER
 76-7

BOREHOLE LOG AND LABORATORY TEST RESULTS

1976 BORROW INVENTORY TININERK BAY IMPERIAL OIL LIMITED				EBA # 1-1330 N7723900 E578000 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) - trace sand and gravel, grey	UNFROZEN								0	
1													1
2			SAND (sp-sm) - trace silt, fine uniform, brown										2
3													3
4													4
5													5
6			- some silt (sm), fine, grey brown										6
7			SILT (ml) - trace sand and clay, grey brown										7
8													8
9													9
10			SAND (sm) - some silt, fine, brown, trace coal										10
11													11
12													12
13			- trace silt (sp-sm)										13
14			END OF BOREHOLE at 13.9m										14
15												15	

DRILL RIG - BECKER DRILL
 DRILLED FROM ICE
 WATER DEPTH - 5.9m
 ORIGINAL BOREHOLE NUMBER - MM-20

SAMPLE TYPE

THIN W. TUBE	PISTON
NO RECOVERY	CORE
SPLIT SPOON	GRAB

EBA ENGINEERING CONSULTANTS LTD.
 EDMONTON ALBERTA
 DRAWING NUMBER

BOREHOLE NUMBER
 MM-20

BOREHOLE LOG AND LABORATORY TEST RESULTS

1976 BORROW INVENTORY WARREN POINT IMPERIAL OIL LTD				EBA # 1-1330 N7739457 E596054 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 (sm) - fine, some silt										0
1												1
2		- trace gravel, trace silt (SP-SM)	UNFROZEN									2
3												3
4		- trace silt (SP), trace gravel										4
5												5
6		- trace silt (SP-SM)										6
7												7
8												8
9		- (SP)										9
10												10
11												11
12												12
13												13
14			UNFROZEN									14
15		NOTE: END OF BOREHOLE at 15.7m										15

DRILL RIG - BECKER DRILL
 DRILLED FROM ICE
 WATER DEPTH - 6.6m
 ORIGINAL BOREHOLE NUMBER - 76-23

SAMPLE TYPE

THIN W. TUBE	PISTON
NO RECOVERY	CORE
SPLIT SPOON	GRAB

EBA ENGINEERING CONSULTANTS LTD.
 EDMONTON ALBERTA
 DRAWING NUMBER

BOREHOLE NUMBER
 76-23

BOREHOLE LOG AND LABORATORY TEST RESULTS

1976 BORROW INVENTORY TUFT POINT IMPERIAL OIL LTD				EBA # 1-1330 N7739500 E595500 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-SAND (ml) - black organic, very fine sand	UNFROZEN								0								
1																				1
2																				2
3			SAND (sm) - some silt, fine, uniform, brown																	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								
			- silt content decreases slightly (SP-SM)									16								
												17								
												18								
												19								
												20								
												21								
												22								
												23								
												24								
												25								
												26								
												27								
												28								
												29								
												30								
												31								
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												38								
												39								
												40								
												41								
												42								
												43								
												44								
												45								
												46								
												47								
												48								
												49								
DRILL RIG - BECKER DRILL DRILLED FROM ICE WATER DEPTH - 7.0m ORIGINAL BOREHOLE NUMBER - 76-150				SAMPLE TYPE ☐ THIN W. TUBE ☐ PISTON ☐ NO RECOVERY ☐ CORE ☐ SPLIT SPOON ☒ GRAB		EBA ENGINEERING CONSULTANTS LTD. EDMONTON ALBERTA DRAWING NUMBER				BOREHOLE NUMBER 76-150										

BOREHOLE LOG AND LABORATORY TEST RESULTS

1976 BORROW INVENTORY TUFT POINT IMPERIAL OIL LTD				EBA # 1-1330 N7739248 E596000 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) - some clay, trace sand, grey	UNFROZEN								0
1			SAND (SP-SM) - some silt, fine, uniform, brown									1
2	M		- trace silt, fine, uniform, brown									2
3												3
4												4
5												5
6												6
7												7
8												8
9												9
10												10
11												11
12												12
13												13
14			END OF BOREHOLE at 13.7m									14
15				15								

DRILL RIG - BECKER DRILL
 DRILLED FROM ICE
 WATER DEPTH - 6.1m
 ORIGINAL BOREHOLE NUMBER - 76-156

SAMPLE TYPE

THIN W. TUBE	PISTON
NO RECOVERY	CORE
SPLIT SPOON	GRAB

EBA ENGINEERING CONSULTANTS LTD.
 EDMONTON ALBERTA
 DRAWING NUMBER

BOREHOLE NUMBER
 76-156

BOREHOLE LOG AND LABORATORY TEST RESULTS

1976 BORROW INVENTORY BELUGA SHOALS IMPERIAL OIL LTD.				EBA # 1-1330 N7743722 E612461 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-CLAY (ml) - soft, grey	UNFROZEN								0	
1													1
2			SAND-SILT (sm) - fine, dark grey										2
3													3
4			SAND (SP) - trace silt, grey										4
5													5
6			SILT-CLAY (ml) - dark grey									6	
7			SAND (sm) - trace silt, brown									7	
8			END OF BOREHOLE at 8.2m									8	
9												9	
10												10	
11												11	
12												12	
13												13	
14												14	
15												15	

DRILL RIG - BECKER DRILL
 DRILLED FROM ICE
 WATER DEPTH - 6.7m
 ORIGINAL BOREHOLE NUMBER - 76-31

SAMPLE TYPE

THIN W. TUBE	PISTON
NO RECOVERY	CORE
SPLIT SPOON	GRAB

EBA ENGINEERING CONSULTANTS LTD.
 EDMONTON ALBERTA
 DRAWING NUMBER

BOREHOLE NUMBER
 76-31

BOREHOLE LOG AND LABORATORY TEST RESULTS

1976 BORROW INVENTORY BELUGA SHOALS IMPERIAL OIL LTD.				EBA # 1-1330 N7745455 E808452 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											
0			SAND (SP) - trace silt	UNFROZEN								0	
1			SAND-SILT (sm) - fine, medium grey										1
2			SAND (sm) - fine, medium grey, some silt										2
3			SILT-SAND (ml) - fine, light brown										3
4			SILT-CLAY (ml) - medium brown										4
5			- stiff to hard										5
6			END OF BOREHOLE at 7.4m									6	
7												7	
8												8	
9												9	
10												10	
11												11	
12												12	
13												13	
14												14	
15												15	

DRILL RIG - BECKER DRILL
 DRILLED FROM ICE
 WATER DEPTH - 5.0m
 ORIGINAL BOREHOLE NUMBER - 76-36

SAMPLE TYPE

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

EBA ENGINEERING CONSULTANTS LTD.
 EDMONTON ALBERTA
 DRAWING NUMBER

BOREHOLE NUMBER
 76-36

BOREHOLE LOG AND LABORATORY TEST RESULTS

1976 BORROW INVENTORY BELUGA SHOALS IMPERIAL OIL LTD.				EBA # 1-1330 N7744134 E612178 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) - grey										0
1												1
2		SAND-SILT (sm) - fine, grey brown										2
3												3
4		SAND (SP) - fine, trace silt										4
5			UNFROZEN									5
6												6
7		- some silty clay layers										7
8												8
9			UNFROZEN									9
10												10
11		SILT-CLAY (ml) END OF BOREHOLE at 10.8m										11
12												12
13												13
14												14
15												15

DRILL RIG - BECKER DRILL
 DRILLED FROM ICE
 WATER DEPTH - 6.6m
 ORIGINAL BOREHOLE NUMBER - 76-43

SAMPLE TYPE

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

EBA ENGINEERING CONSULTANTS LTD.
 EDMONTON ALBERTA
 DRAWING NUMBER

BOREHOLE NUMBER
 76-43

BOREHOLE LOG AND LABORATORY TEST RESULTS

1976 BORROW INVENTORY MCKINLEY BAY IMPERIAL OIL LTD.				EBA # 1-1330 N7761690 E415560 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 fine sand, dark grey	UNFROZEN								0	
1													1
2			SAND (sm) - very fine, silty uniform										2
3													3
4			SILT (ml) - medium plastic, dark grey brown									4	
5												5	
6												6	
7			END OF BOREHOLE at 6.8m									7	
8												8	
9												9	
10												10	
11												11	
12												12	
13												13	
14												14	
15												15	

DRILL RIG - BECKER DRILL
 DRILLED FROM ICE
 WATER DEPTH - 5.7m
 ORIGINAL BOREHOLE NUMBER 76-72

SAMPLE TYPE

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

EBA ENGINEERING CONSULTANTS LTD.
 EDMONTON ALBERTA
 DRAWING NUMBER

BOREHOLE NUMBER
 76-72

BOREHOLE LOG AND LABORATORY TEST RESULTS

1976 BORROW INVENTORY MCKINLEY BAY IMPERIAL OIL LTD.				EBA # 1-1330 N7761430 E414540 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-SM) - some silt to silty, very fine, uniform									0
1												1
2			SAND-SILT (sm) - very fine, uniform	UNFROZEN								2
3			SAND (SP-SM) - trace silt, fine uniform									3
4				UNFROZEN								4
5			- silty									5
6												6
7			SILT (ml) - clayey, dark grey brown									7
8			END OF BOREHOLE at 7.9m									8
9												9
10												10
11												11
12												12
13												13
14												14
15												15

DRILL RIG - BECKER DRILL
 DRILLED FROM ICE
 WATER DEPTH - 4.6m
 ORIGINAL BOREHOLE NUMBER 76-73

SAMPLE TYPE

☐ THIN W. TUBE

☐ NO RECOVERY

☐ SPLIT SPOON

☐ PISTON

☐ CORE

☐ GRAB

EBA ENGINEERING CONSULTANTS LTD.
 EDMONTON ALBERTA
 DRAWING NUMBER

BOREHOLE NUMBER
 76-73

BOREHOLE LOG AND LABORATORY TEST RESULTS

1976 BORROW INVENTORY MCKINLEY BAY IMPERIAL OIL LTD.				EBA # 1-1330 N7762180 E417890 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-SILT (SM) - to some silt, fine	UNFROZEN								0	
1													1
2													2
3													3
4			CLAY-SILT (cl) - firm, trace of fine sand									4	
5												5	
6			SAND (sp) - slight trace silt to clean, fine to medium, uniform									6	
7												7	
8			END OF BOREHOLE at 7.3m									8	
9												9	
10												10	
11												11	
12												12	
13												13	
14												14	
15												15	

DRILL RIG - BECKER DRILL
 DRILLED FROM ICE
 WATER DEPTH - 5.2m
 ORIGINAL BOREHOLE NUMBER 76-75

SAMPLE TYPE

THIN W. TUBE
 NO RECOVERY
 SPLIT SPOON

PISTON
 CORE
 GRAB

EBA ENGINEERING CONSULTANTS LTD.
 EDMONTON ALBERTA
 DRAWING NUMBER

BOREHOLE NUMBER
 76-75

BOREHOLE LOG AND LABORATORY TEST RESULTS

1976 BORROW INVENTORY MCKINLEY BAY IMPERIAL OIL LTD.				EBA # 1-1330 N7764990 E420760 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		NO RECOVERY										0
1		SAND (sm) - some silt, fine, uniform, brown, organics										1
2												2
3												3
4		- trace to some silt (SP), wood fragments										4
5			UNFROZEN									5
6												6
7		- clean to trace silt (SP-SM)										7
8			UNFROZEN									8
9												9
10												10
11		- trace gravel, some organics										11
12												12
13												13
14												14
15		- 150mm silt layer										15

DRILL RIG - BECKER DRILL
 DRILLED FROM ICE
 WATER DEPTH - 7.0m
 ORIGINAL BOREHOLE NUMBER 76-91

SAMPLE TYPE

THIN W. TUBE	PISTON
NO RECOVERY	CORE
SPLIT SPOON	GRAB

EBA ENGINEERING CONSULTANTS LTD.
 EDMONTON ALBERTA
 DRAWING NUMBER

BOREHOLE NUMBER
 76-91
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BOREHOLE LOG AND LABORATORY TEST RESULTS

1976 BORROW INVENTORY MCKINLEY BAY IMPERIAL OIL LTD.				EBA # 1-1330 N7764990 E420760 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										
15			SAND (SP-SM) - (cont'd)									50
16												51
17												52
18			END OF BOREHOLE at 17.7m									53
19												54
20												55
21												56
22												57
23												58
24												59
25												60
26												61
27												62
28												63
29												64
30												65
												66
												67
												68
												69
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												97
												98

DRILL RIG - BECKER DRILL
 DRILLED FROM ICE
 WATER DEPTH - 7.0m
 ORIGINAL BOREHOLE NUMBER 76-91

SAMPLE TYPE

THIN W. TUBE	PISTON
NO RECOVERY	CORE
SPLIT SPOON	GRAB

EBA ENGINEERING CONSULTANTS LTD.
 EDMONTON ALBERTA
 DRAWING NUMBER

BOREHOLE NUMBER
 76-91
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BOREHOLE LOG AND LABORATORY TEST RESULTS

1976 BORROW INVENTORY MCKINLEY BAY IMPERIAL OIL LTD.				EBA # 1-1330 N7764870 E418250 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										
15			SAND (SP) - (cont'd)									50
16			END OF BOREHOLE at 16.3m									51
17												52
18												53
19												54
20												55
21												56
22												57
23												58
24												59
25												60
26												61
27												62
28												63
29												64
30												65
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												92
												93
												94
												95
												96
												97
												98

DRILL RIG - BECKER DRILL
 DRILLED FROM ICE
 WATER DEPTH - 5.9m
 ORIGINAL BOREHOLE NUMBER 76-MB-1

SAMPLE TYPE

☐ THIN W. TUBE

☐ NO RECOVERY

☐ SPLIT SPOON

☐ PISTON

☐ CORE

☐ GRAB

EBA ENGINEERING CONSULTANTS LTD.
 EDMONTON ALBERTA
 DRAWING NUMBER

BOREHOLE NUMBER 76MB1
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BOREHOLE LOG AND LABORATORY TEST RESULTS

1976 BORROW INVENTORY MCKINLEY BAY IMPERIAL OIL LTD.				EBA # 1-1330 N7764870 E418250 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) - some silt, fine, uniform	UNFROZEN								0
1												1
2			- silty									2
3												3
4												4
5			- clean to trace silt (SP), some coal specs	UNFROZEN								5
6												6
7												7
8												8
9												9
10												10
11												11
12												12
13												13
14			END OF BOREHOLE at 14.0m									14
15												15

DRILL RIG - BECKER DRILL
 DRILLED FROM ICE
 WATER DEPTH - 5.8m
 ORIGINAL BOREHOLE NUMBER 76-MB-3

SAMPLE TYPE

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

EBA ENGINEERING CONSULTANTS LTD.
 EDMONTON ALBERTA
 DRAWING NUMBER

BOREHOLE NUMBER
 76MB3

BOREHOLE LOG AND LABORATORY TEST RESULTS

1976 BORROW INVENTORY MCKINLEY BAY IMPERIAL OIL LTD.				EBA # 1-1330 N7763870 E418520 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 (SM) - some to silty	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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												46
												47
												48
												49

DRILL RIG - BECKER DRILL
 DRILLED FROM ICE
 WATER DEPTH - 5.2m
 ORIGINAL BOREHOLE NUMBER 76-MB-20

SAMPLE TYPE

THIN W. TUBE	PISTON
NO RECOVERY	CORE
SPLIT SPOON	GRAB

EBA ENGINEERING CONSULTANTS LTD.
 EDMONTON ALBERTA
 DRAWING NUMBER

BOREHOLE NUMBER
 76MB20

BOREHOLE LOG AND LABORATORY TEST RESULTS

1978 ISLAND SITE INVEST. - ISSERK B-15 IMPERIAL OIL LIMITED				EBA # 1-1330 N7746565 E532180 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												0
1	X		UNFROZEN									1
2		CLAY (ML) - medium grey, very silty, low plastic, laminations of silt and black organics										2
3												3
4												4
5		SILT (ML) - medium brownish grey, clayey, low plastic										5
6												6
7												7
8												8
9												9
10												10
												11
												12
												13
												14
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												28
												29
												30
												31
												32

DRILL RIG - BECKER DRILL
 DRILLED FROM ICE
 WATER DEPTH - 6.9m
 ORIGINAL BOREHOLE NUMBER - 2120-4

SAMPLE TYPE

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

EBA ENGINEERING CONSULTANTS LTD.
 EDMONTON ALBERTA
 DRAWING NUMBER

BOREHOLE NUMBER
 2120-4
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BOREHOLE LOG AND LABORATORY TEST RESULTS

1978 ISLAND SITE INVEST. - ISSERK B-15 IMPERIAL OIL LIMITED				EBA # 1-1330 N7746565 E532180 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												0
1	X		UNFROZEN									1
2		CLAY (ML) - medium grey, very silty, low plastic, laminations of silt and black organics										2
3												3
4		SILT (ML) - medium brownish grey, clayey, low plastic										4
5												5
6	M											6
7		SILT-CLAY (ml) - medium grey, low plastic, trace of organics										7
8	X	- trace of fine gravel, fine grained sand laminations										8
9		SAND (SM) - medium brown grey, some silt, very fine, uniform										9
10												10

DRILL RIG - BECKER DRILL
 DRILLED FROM ICE
 WATER DEPTH - 6.9m
 ORIGINAL BOREHOLE NUMBER - 2120-4

SAMPLE TYPE

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

EBA ENGINEERING CONSULTANTS LTD.
 EDMONTON ALBERTA
 DRAWING NUMBER

BOREHOLE NUMBER
 2120-4
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BOREHOLE LOG AND LABORATORY TEST RESULTS

1976 ISLAND SITE INVEST. - ISSERK B-15 IMPERIAL OIL LIMITED				EBA # 1-1330 N7746565 E532180 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												33
		SAND (SM) - (cont,d)										34
		- silty										35
11												36
												37
												38
12												39
												40
												41
13												42
												43
												44
												45
14												46
												47
		- medium grey, trace to some silt, fine grained										48
15												49
												50
												51
16												52
		- light to medium brown, very dense, trace of gravel										53
												54
17												55
												56
												57
18												58
		- trace of organics, trace of silt (SP)										59
												60
												61
												62
19												63
												64
20												65

DRILL RIG - BECKER DRILL
 DRILLED FROM ICE
 WATER DEPTH - 6.9m
 ORIGINAL BOREHOLE NUMBER - 2120-4

SAMPLE TYPE

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

EBA ENGINEERING CONSULTANTS LTD.
 EDMONTON ALBERTA
 DRAWING NUMBER

BOREHOLE NUMBER
 2120-4
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BOREHOLE LOG AND LABORATORY TEST RESULTS

1976 ISLAND SITE INVEST. - ISSERK B-15 IMPERIAL OIL LIMITED				EBA # 1-1330 N7746565 E532180 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		SAND (SP) - (cont'd)										66
21		- medium to light grey, fine to coarse grained, trace of silt and organics										67
22												68
23												69
24												70
25												71
26												72
27		- dark grey to black, silty, fine to very fine grained, organic odour										73
28		- some to trace of silt										74
29												75
30		NOTE: END OF BOREHOLE at 30.0m	UNFROZEN									76

DRILL RIG - BECKER DRILL
 DRILLED FROM ICE
 WATER DEPTH - 6.9m
 ORIGINAL BOREHOLE NUMBER - 2120-4

SAMPLE TYPE

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

EBA ENGINEERING CONSULTANTS LTD.
 EDMONTON ALBERTA
 DRAWING NUMBER

BOREHOLE NUMBER
 2120-4
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BOREHOLE LOG AND LABORATORY TEST RESULTS

1976 ISLAND SITE INVEST. - KANNERK E-24 IMPERIAL OIL LTD.				EBA # 1-1330 N7773101 E418332 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 (ol) - organic, odourous, wood chips										0
1												1
2		- dark grey, trace of fine sand										2
3												3
4		SAND (sm) ² silty to some silt, fine, uniform										4
5												5
6												6
7												7
8												8
9		- clean to trace silt (SP)										9
10			UNFROZEN									10
11												11
12												12
13												13
14		- clean to trace silt (SP)										14
15			UNFROZEN									15

DRILL RIG - BECKER DRILL
 DRILLED FROM ICE
 WATER DEPTH - 11.3m
 ORIGINAL BOREHOLE NUMBER - 76-E24-1

SAMPLE TYPE

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

EBA ENGINEERING CONSULTANTS LTD.
 EDMONTON ALBERTA
 DRAWING NUMBER

BOREHOLE NUMBER
 E24-1
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BOREHOLE LOG AND LABORATORY TEST RESULTS

1976 ISLAND SITE INVEST. - KANNERK E-24 IMPERIAL OIL LTD.				EBA # 1-1330 N7773101 E418332 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		SAND (SP) - (cont'd)										50
16												51
												52
												53
												54
												55
17		END OF BOREHOLE at 17.1m										56
18												57
												58
												59
												60
												61
												62
												63
												64
												65
												66
												67
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												95
												96
												97
												98

DRILL RIG - BECKER DRILL
 DRILLED FROM ICE
 WATER DEPTH - 11.3m
 ORIGINAL BOREHOLE NUMBER - 76-E24-1

SAMPLE TYPE

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

EBA ENGINEERING CONSULTANTS LTD.
 EDMONTON ALBERTA
 DRAWING NUMBER

BOREHOLE NUMBER
 E24-1
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BOREHOLE LOG AND LABORATORY TEST RESULTS

1976 ISLAND SITE INVEST. - KANNIERK E-24 IMPERIAL OIL LTD.				EBA # 1-1330 N7773182 E418285 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 (cl) - silty, medium plastic										0
1												1
2												2
3		SAND (SM) - silty to some silt, fine, uniform										3
4												4
5			UNFROZEN									5
6												6
7			UNFROZEN									7
8												8
9		- very organic										9
10												10
11		- clean to trace silt										11
12												12
13												13
14												14
15												15

DRILL RIG - BECKER DRILL
 DRILLED FROM ICE
 WATER DEPTH - 11.0m
 ORIGINAL BOREHOLE NUMBER - 76-E24-2

SAMPLE TYPE

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

EBA ENGINEERING CONSULTANTS LTD.
 EDMONTON ALBERTA
 DRAWING NUMBER

BOREHOLE NUMBER
 E24-2
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BOREHOLE LOG AND LABORATORY TEST RESULTS

1976 ISLAND SITE INVEST. - KANNERK E-24 IMPERIAL OIL LTD.				EBA / 1-1330 N7773162 E416285 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			SAND (SM) - (cont'd)									50
16			END OF BOREHOLE at 16.2m									51
17												52
18												53
19												54
20												55
21												56
22												57
23												58
24												59
25												60
26												61
27												62
28												63
29												64
30												65
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												92
												93
												94
												95
												96
												97
												98

DRILL RIG - BECKER DRILL
 DRILLED FROM ICE
 WATER DEPTH - 11.0m
 ORIGINAL BOREHOLE NUMBER - 76-E24-2

SAMPLE TYPE

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

EBA ENGINEERING CONSULTANTS LTD.
 EDMONTON ALBERTA
 DRAWING NUMBER

BOREHOLE NUMBER
 E24-2
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BOREHOLE LOG AND LABORATORY TEST RESULTS