EBA Engineering Consultants Ltd.

Civil, Geotechnical and Materials Engineers

160 leaves

ORIGINAL LOGS WITH STRENGTH DATA

ESSO Resources Canada Ltd.

0306-34413

3

160 leaves

ORIGINAL LOGS WITH STRENGTH DATA

ESSO Resources Canada Ltd.

0306-34413

May, 1988

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660

IMPERIAL OIL LIMITED

BEAUFORT SEA DRILLING PROGRAM — 1974

DEPTH (feet)	SOIL DESCRIPTION	SAMPLE	GROUND ICE CONDITION	MOISTURE CONTENT % ● / SPT RESISTANCE ▲ (10 20 30 40 50 60 70) / COMP. STRENGTH T.S.F. ■ (1 2 3)
	SEA BOTTOM			
2	SILT -grey, trace of organics (ml) and clay			
4	-some fine sand,		UNFROZEN	
6				▲
8	-traces of sand and gravel			
10	-high clay content			
12	END OF HOLE			
14				
16				
18				
20				
22				
24				
26				
28				
30				

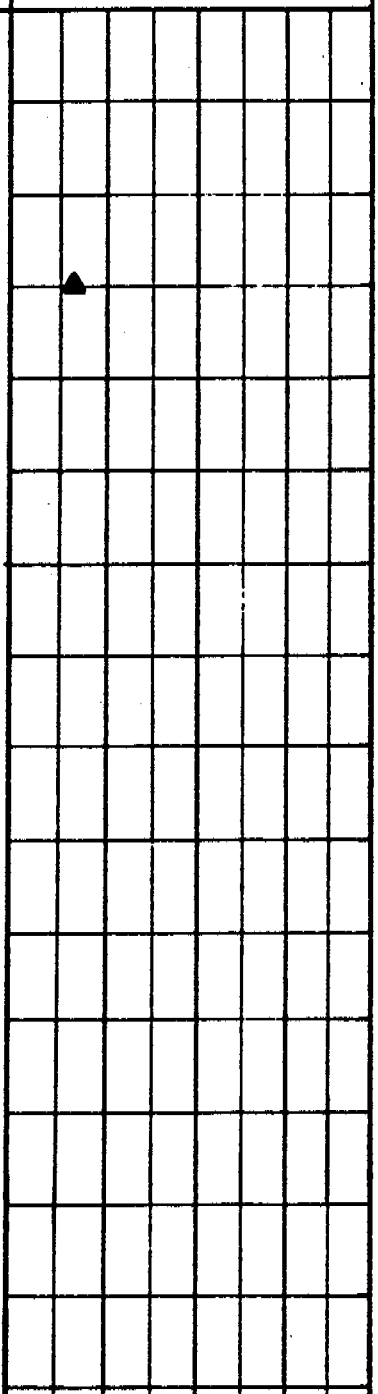
eba	ICE THICKNESS (ft.) 6	DATE DRILLED 15/4/74	HOLE No. 113-U-7
	WATER DEPTH (ft.) 8	TECH NR	
	COMPLETION DEPTH (ft.) 11½	REGION Garry Island	PAGE 1 OF 1

IMPERIAL OIL LIMITED

BEAUFORT SEA DRILLING PROGRAM — 1974

DEPTH (feet)	SOIL DESCRIPTION	SAMPLE	GROUND ICE CONDITION
	SEA BOTTOM		
2	SILT (ml) - dark grey, highly organic - trace of silty fine sand		UNFROZEN
4			
6	SAND (sm) - dark grey, silty - fine grained, some organic lenses	X	
8			
10	SILT (ml) - medium grey, some trace of fine sand		
12	END OF HOLE		
14			
16			
18			
20			
22			
24			
26			
28			
30			

MOISTURE CONTENT % ●
SPT RESISTANCE ▲
10 20 30 40 50 60 70
COMP. STRENGTH T.S.F. ■
1 2 3



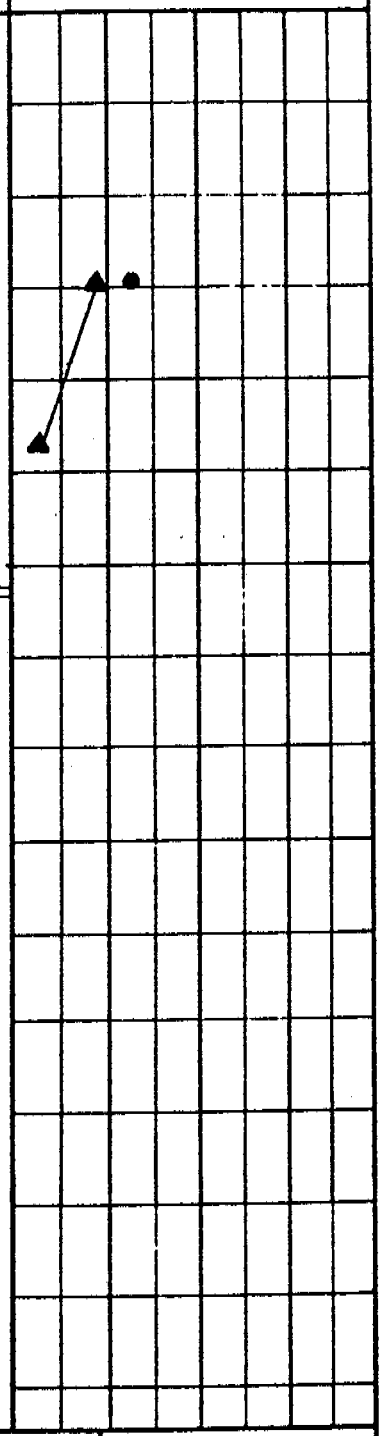
ICE THICKNESS (ft.) 6	DATE DRILLED 15/4/74	HOLE No. 113-V-4
WATER DEPTH (ft.) 7½	TECHINICIAN NR	
COMPLETION DEPTH (ft.) 11	REGION Garry Island	PAGE 1 OF 1

IMPERIAL OIL LIMITED

BEAUFORT SEA DRILLING PROGRAM — 1974

DEPTH (feet)	SOIL DESCRIPTION	SAMPLE	GROUND ICE CONDITION
	SEA BOTTOM		
2	No Returns		
4			
6	SAND (sm) -dark grey, fine to medium grained sand -trace of silt and fine gravel -trace of organics	X	UNFROZEN
8		X	
10	SILT (ml) -some clay, trace of fine sand		
12			
14	END OF HOLE		
16			
18			
20			
22			
24			
26			
28			
30			

MOISTURE CONTENT % ●
SPT RESISTANCE ▲
10 20 30 40 50 60 70
COMP. STRENGTH T.S.F. ■
1 2 3

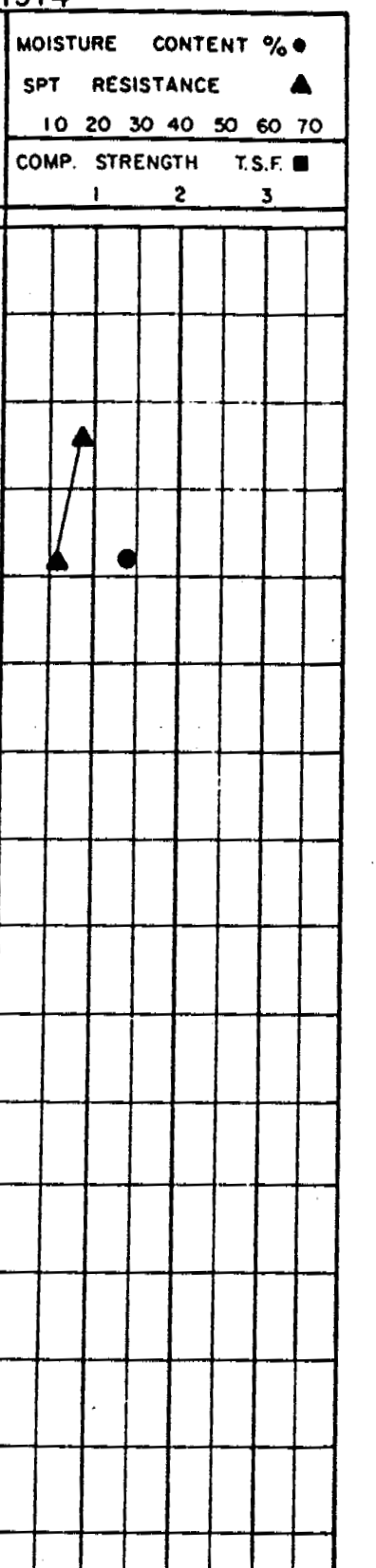


ICE THICKNESS (ft.) 6	DATE DRILLED 15/4/74	HOLE No.
WATER DEPTH (ft.) 7½	TECH NR	113-V-5
COMPLETION DEPTH (ft.) 12½	REGION Garry Island	PAGE 1 OF 1

IMPERIAL OIL LIMITED

BEAUFORT SEA DRILLING PROGRAM — 1974

DEPTH (feet)	SOIL DESCRIPTION	SAMPLE	GROUND ICE CONDITION
	SEA BOTTOM		
2	No Returns		
4	SILT & SAND (m1-sm) -medium grey, trace of fine sand grading into medium sand	X	UNFROZEN
6			
8	SAND (sm) -medium grained -some organic lenses -undifferentiated below 8½'	X	
10			
12	END OF HOLE		
14			
16			
18			
20			
22			
24			
26			
28			
30			



ICE THICKNESS (ft.)	6	DATE DRILLED 15/4/74	HOLE No. 113 -V - 6
WATER DEPTH (ft.)	7½	TECH NR	
COMPLETION DEPTH (ft.)	11	REGION Garry Island	PAGE 1 OF 1

IMPERIAL OIL LIMITED

BEAUFORT SEA DRILLING PROGRAM — 1974

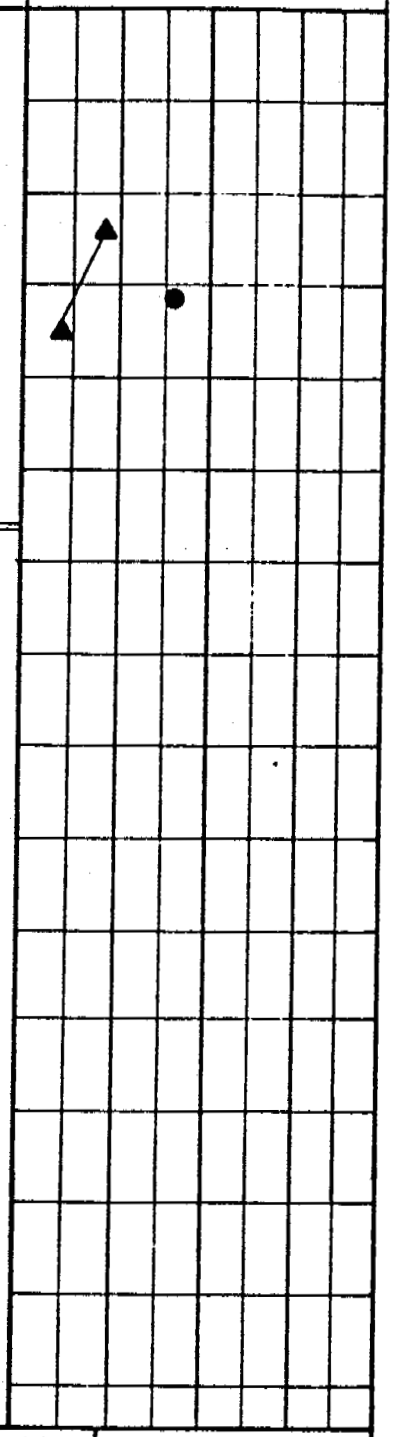
DEPTH (feet)	SOIL DESCRIPTION	SAMPLE	GROUND ICE CONDITION	MOISTURE CONTENT % ● / SPT RESISTANCE ▲ (10 20 30 40 50 60 70) / COMP. STRENGTH T.S.F. ■ (1 2 3)
	SEA BOTTOM			
2	No Returns			
4				
6	SAND -very fine, traces of silt (sm)	X	UNFROZEN	▲
8	-uniform, fine grained -trace of organics	X		▲
10	SILT -lenses of organics (ml)			
	END OF HOLE			
12				
14				
16				
18				
20				
22				
24				
26				
28				
30				

eba	ICE THICKNESS (ft.) 6	DATE DRILLED 15/4/74	HOLE No.
	WATER DEPTH (ft.) 7½	TECH NR	113-V-7
	COMPLETION DEPTH (ft.) 9	REGION Garry Island	PAGE 1 OF 1

IMPERIAL OIL LIMITED

BEAUFORT SEA DRILLING PROGRAM — 1974

DEPTH (feet)	SOIL DESCRIPTION	SAMPLE	GROUND ICE CONDITION
	SEA BOTTOM		
2	No Returns		
4	SILT -medium grey, clayey (ml)	X	UNFROZEN
6	SAND -medium grained to coarse (sm) -traces of silt and clay	X	
8	-sand & silt, undifferentiated below 8'		
10			
12	END OF HOLE		
14			
16			
18			
20			
22			
24			
26			
28			
30			



eba	ICE THICKNESS (ft.) 6	DATE DRILLED 15/4/74	HOLE No. 113-V-8
	WATER DEPTH (ft.) 7½	TECH NR	
	COMPLETION DEPTH (ft.) 11	REGION Garry Island	PAGE 1 OF 1

IMPERIAL OIL LIMITED

BEAUFORT SEA DRILLING PROGRAM — 1974

DEPTH (feet)	SOIL DESCRIPTION	SAMPLE	GROUND ICE CONDITION	MOISTURE CONTENT % ● / SPT RESISTANCE ▲ (10 20 30 40 50 60 70) / COMP. STRENGTH T.S.F. ■ (1 2 3)
	SEA BOTTOM			
2	No Returns		UNFROZEN	
4				
6	SAND -5-5½ft. dark grey, fine & SILT -trace of sand, clay -undifferentiated below 6½ (sm-ml)	X		▲
8				
10				
12	END OF HOLE			
14				
16				
18				
20				
22				
24				
26				
28				
30				

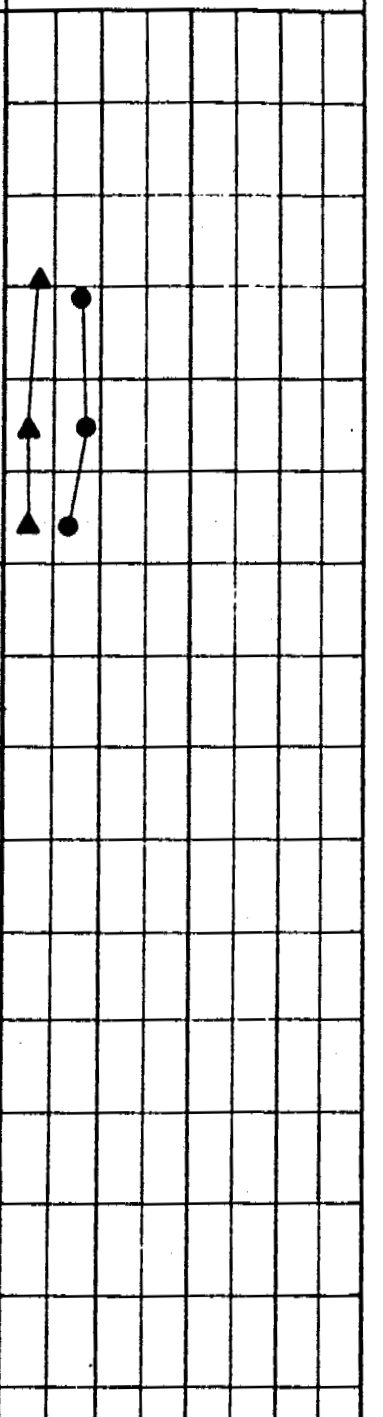
eba	ICE THICKNESS (ft.) 6	DATE DRILLED 15/4/74	HOLE No.
	WATER DEPTH (ft.) 8	TECH NR	113 - V -9
	COMPLETION DEPTH (ft.) 11	REGION Garry Island	PAGE 1 OF 1

IMPERIAL OIL LIMITED

BEAUFORT SEA DRILLING PROGRAM — 1974

DEPTH (feet)	SOIL DESCRIPTION	SAMPLE	GROUND ICE CONDITION
	SEA BOTTOM		
2	No Returns		
4			
6	SAND & GRAVEL (sm - gm) -poorly graded gravelly sand, dark grey -trace of silts	X	UNFROZEN
8	SAND -medium to coarse sand with silt (sm)	X	
10	GRAVEL -8½' - 9½'. fine grained, trace of silt and organics (gm)	X	
12			
14	SILT -dark grey with black organics -undifferentiated below 12' (ml)		
16	END OF HOLE		
18			
20			
22			
24			
26			
28			
30			

MOISTURE CONTENT % ●
SPT RESISTANCE ▲
10 20 30 40 50 60 70
COMP. STRENGTH T.S.F. ■
1 2 3



eba	ICE THICKNESS (ft.) 6	DATE DRILLED 15/4/74	HOLE No.
	WATER DEPTH (ft.) 8	TECH . NR	113-W-3
	COMPLETION DEPTH (ft.) 15	REGION Garry Island	PAGE 1 OF 1

IMPERIAL OIL LIMITED

BEAUFORT SEA DRILLING PROGRAM — 1974

DEPTH (feet)	SOIL DESCRIPTION	SAMPLE	GROUND ICE CONDITION
	SEA BOTTOM		
	No Returns		UNFROZEN
2	SILT -medium grey, some organics (ml)		
4	GRAVEL (gm) -well graded, sandy trace of organics and silt	X	
6			
8	SILT & SAND (sm-ml) -undifferentiated below 7½' -hole sloughing		
10			
12	ABANDONED -END OF HOLE		
14			
16			
18			
20			
22			
24			
26			
28			
30			

MOISTURE CONTENT % ●
SPT RESISTANCE ▲
10 20 30 40 50 60 70
COMP. STRENGTH T.S.F. ■
1 2 3

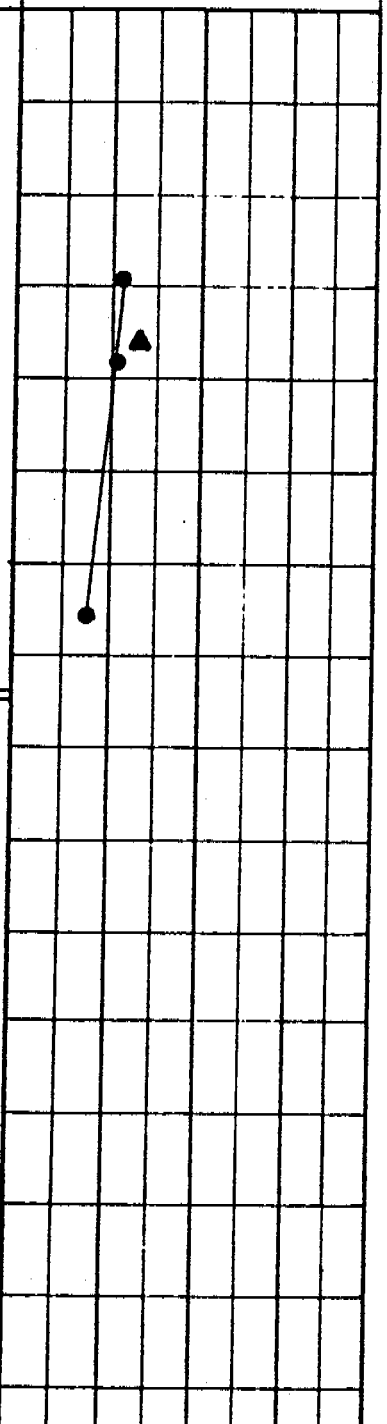
ICE THICKNESS (ft.)	6	DATE DRILLED 15/4/74	HOLE No.
WATER DEPTH (ft.)	8	TECH NR	113 - W-4
COMPLETION DEPTH (ft.)	11½	REGION Garry Island	PAGE 1 OF 1

IMPERIAL OIL LIMITED

BEAUFORT SEA DRILLING PROGRAM — 1974

DEPTH (feet)	SOIL DESCRIPTION	SAMPLE	GROUND ICE CONDITION
	SEA BOTTOM		
2, 4	SILT (ml) -grey -trace of fine gravel and coarse sand @ 4.5		
6, 8, 10, 12	GRAVEL & SAND (gm-sm) medium to fine grained -trace of organics and silt -standard penetrometer not accurate since pebbles stuck in end of spoon		UNFROZEN
14	SILT -medium grey, clayey (ml)		
	END OF HOLE		
16, 18, 20, 22, 24, 26, 28, 30			

MOISTURE CONTENT % ●
SPT RESISTANCE ▲
10 20 30 40 50 60 70
COMP. STRENGTH T.S.F. ■
1 2 3

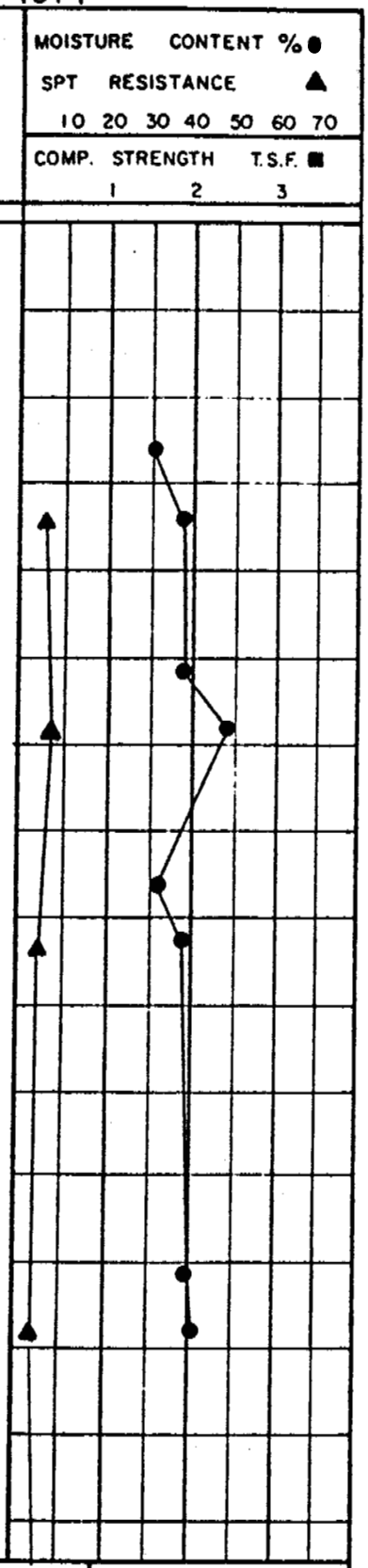


ICE THICKNESS (ft.) 6	DATE DRILLED 15/4/74	HOLE No. 113-W-5
WATER DEPTH (ft.) 8	TECH NR	
COMPLETION DEPTH (ft.) 14½	REGION Garry Island	PAGE 1 OF 1

IMPERIAL OIL LIMITED

BEAUFORT SEA DRILLING PROGRAM — 1974

DEPTH (feet)	SOIL DESCRIPTION	SAMPLE	GROUND ICE CONDITION
	SEA BOTTOM		
2	SILT - moist, med.grey, loose to compact (ml)		Not Frozen
4			
6	- clayey, medium plastic		
8			
10	- medium to dark grey, wet, loose, finely bedded		
12			
14			
16	SILT, CLAY (ml/cl)		
	- very loose, low plastic		
18			
20			
22			
24			
26			
28			
30			

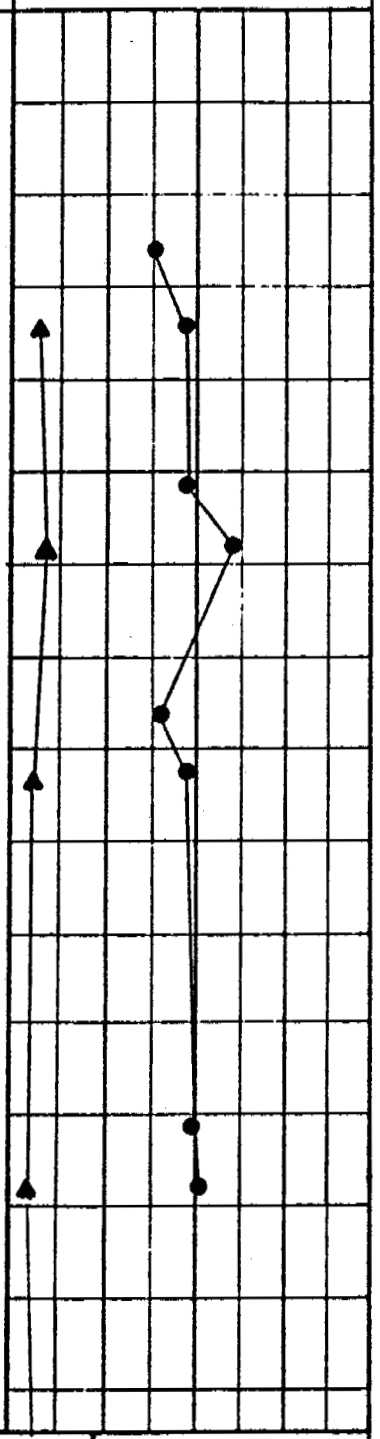


ICE THICKNESS (ft.) 6	DATE DRILLED 22/3/74	HOLE No.
WATER DEPTH (ft.) 13½	TECH J.T.	202
COMPLETION DEPTH (ft.) 80	REGION Netserk	PAGE 1 OF 3

IMPERIAL OIL LIMITED

BEAUFORT SEA DRILLING PROGRAM — 1974

DEPTH (feet)	SOIL DESCRIPTION	SAMPLE	GROUND ICE CONDITION
	SEA BOTTOM		
	SILT - moist, med.grey, loose to compact (ml)		Not Frozen
2			
4			
6	- clayey, medium plastic		
8			
10	- medium to dark grey, wet, loose, finely bedded		
12			
14			
16	SILT, CLAY (ml/cl)		
	- very loose, low plastic		
18			
20			
22			
24			
26			
28			
30			

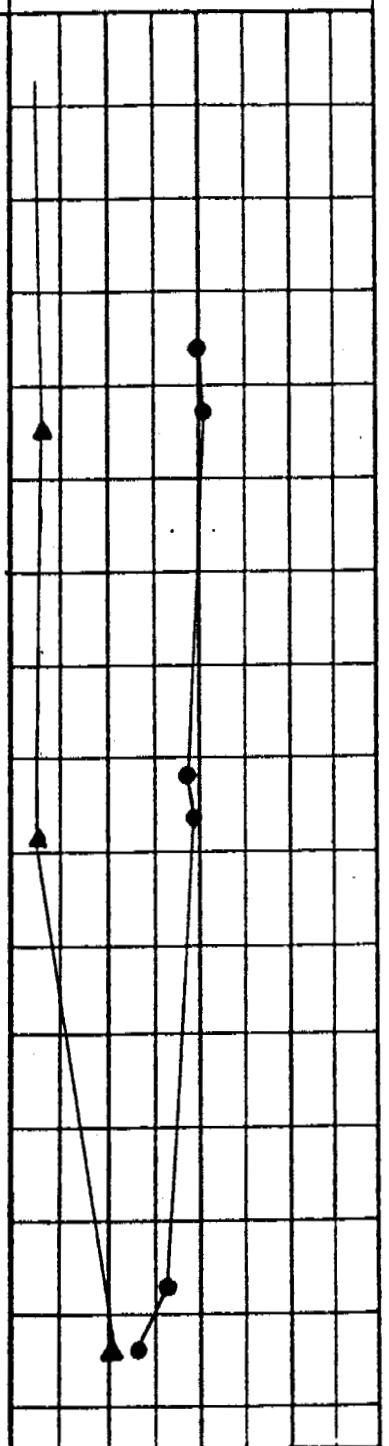


ICE THICKNESS (ft.)	6	DATE DRILLED 22/3/74	HOLE No.
WATER DEPTH (ft.)	13½	TECH J.T.	202
COMPLETION DEPTH (ft.)	80	REGION Netserk	PAGE 1 OF 3

IMPERIAL OIL LIMITED

BEAUFORT SEA DRILLING PROGRAM — 1974

DEPTH (feet)	SOIL DESCRIPTION	SAMPLE	GROUND ICE CONDITION
	Continued		
30	SILT - as above (ml)		Not Frozen
32			
34	- wet to saturated, very loose		
36			
38			
40			
42			
44			
46			
48			
50			
52			
54			
56	SAND - SILT , uniform, fine, saturated, compact, dark grey		
58			



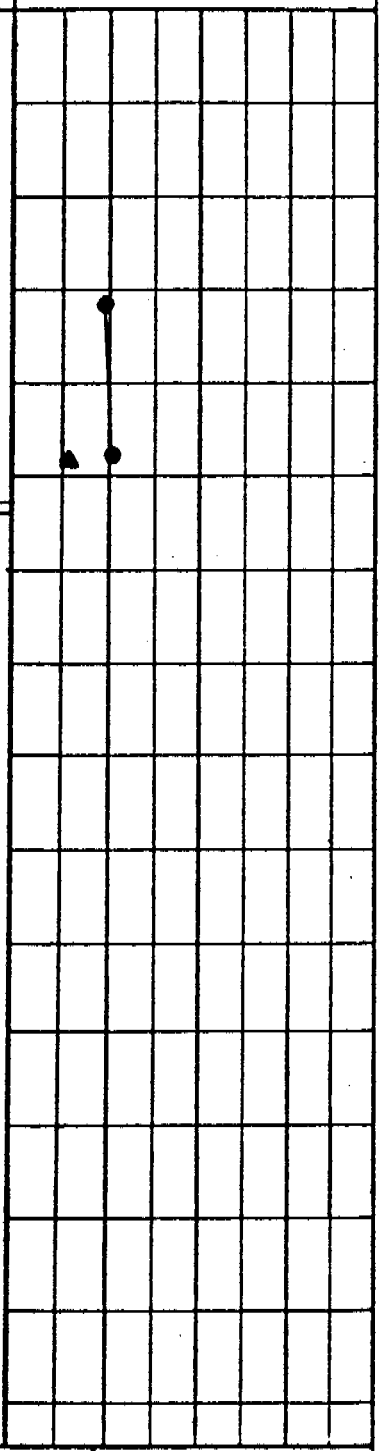
ICE THICKNESS (ft.)	6	DATE DRILLED 22/3/74	HOLE No. 202
WATER DEPTH (ft.)	13½	TECH J.T.	
COMPLETION DEPTH (ft.)	80	REGION Netserk	PAGE 2 OF 3

IMPERIAL OIL LIMITED

BEAUFORT SEA DRILLING PROGRAM — 1974

DEPTH (feet)	SOIL DESCRIPTION	SAMPLE	GROUND ICE CONDITION
	Continued		
58	SAND - as above (m1)		Not Frozen
60			
62	SILT - compact, moist, some fine to coarse gravel and clean sand lenses CLAY TILL (m1/c1)		
64	- possibly till		
66			
68	END OF HOLE		
70			
72			
74			
76			
78			
80			
82			
84			
86			

MOISTURE CONTENT % ●
SPT RESISTANCE ▲
10 20 30 40 50 60 70
COMP. STRENGTH T.S.F. ■
1 2 3

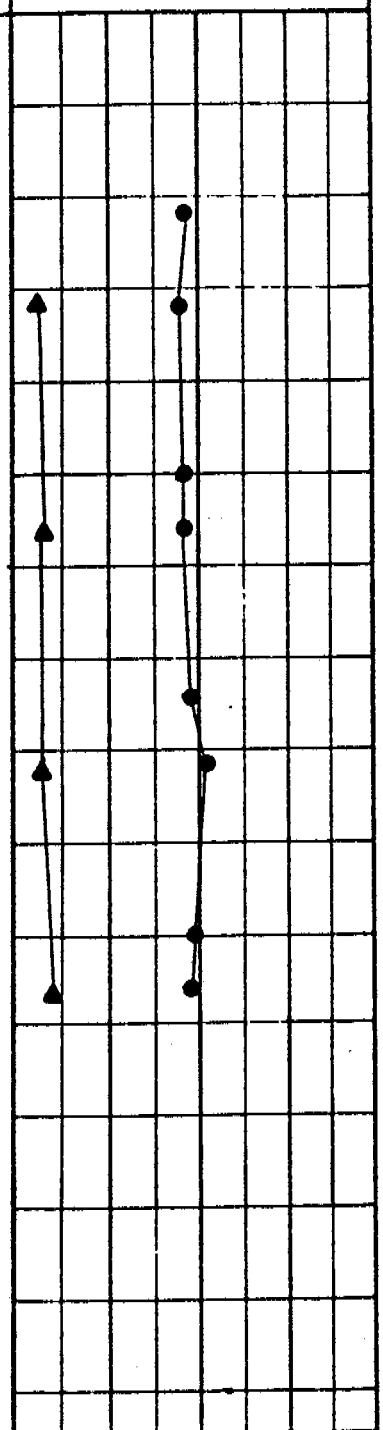


ICE THICKNESS (ft.)	6	DATE DRILLED 22/3/74	HOLE No.
WATER DEPTH (ft.)	13½	TECH J.T.	202
COMPLETION DEPTH (ft.)	80	REGION Netserk	PAGE 3 OF 3

IMPERIAL OIL LIMITED

BEAUFORT SEA DRILLING PROGRAM — 1974

DEPTH (feet)	SOIL DESCRIPTION	SAMPLE	GROUND ICE CONDITION
	SILT - trace of clay, very loose, saturated, black (ml)		Not Frozen
2			
4	- medium grey, moist to wet, fine bedding		
6			
8			
10	- low plastic		
12	- wet		
14			
16			
18			
20			
22			
24			
26			
28			
30	Continued		

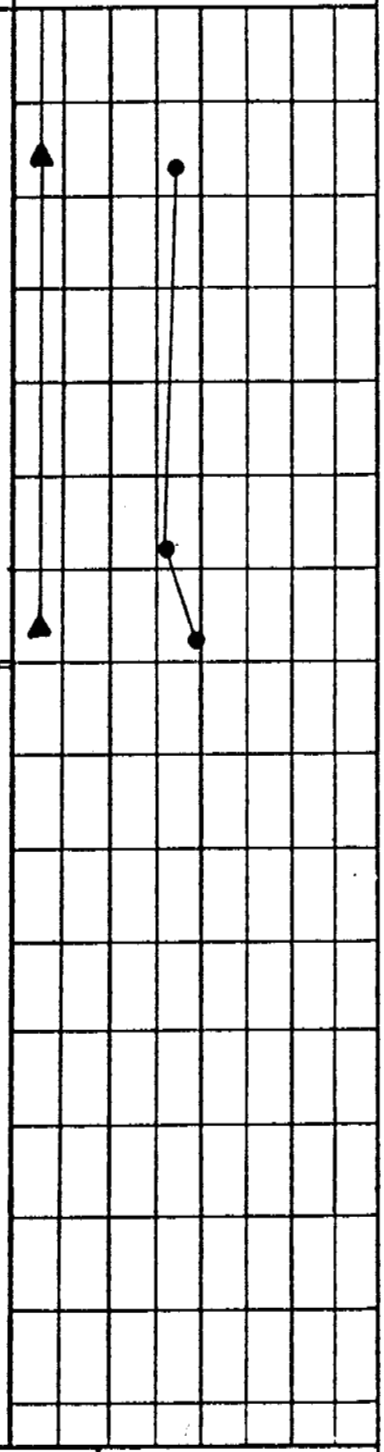


ICE THICKNESS (ft.)	6	DATE DRILLED 21/3/74	HOLE No. 203
WATER DEPTH (ft.)	14	TECH J.T.	
COMPLETION DEPTH (ft.)	56	REGION Netserk	PAGE 1 OF 2

IMPERIAL OIL LIMITED

BEAUFORT SEA DRILLING PROGRAM — 1974

DEPTH (feet)	SOIL DESCRIPTION	SAMPLE	GROUND ICE CONDITION
	Continued		
30	SILT - trace of very fine sand, very loose, moist, crumbly, med. to dark grey (ml)		Not Frozen
32	low plastic		
34			
36			
38	- trace of clay, wet to saturated.		
40			
42	END OF HOLE		
44			
46			
48			
50			
52			
54			
56			
58			

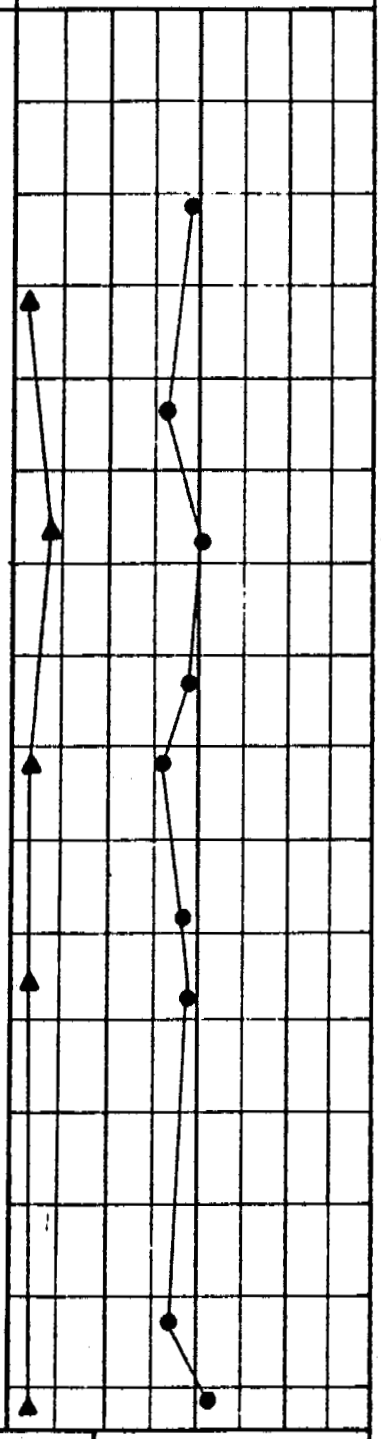


ICE THICKNESS (ft.)	6	DATE DRILLED 21/3/74	HOLE No.
WATER DEPTH (ft.)	14	TECH J.T.	203
COMPLETION DEPTH (ft.)	56	REGION Netserk	PAGE 2 OF 2

IMPERIAL OIL LIMITED

BEAUFORT SEA DRILLING PROGRAM — 1974

DEPTH (feet)	SOIL DESCRIPTION	SAMPLE	GROUND ICE CONDITION
	SEA BOTTOM		
	SILT - very loose, wet, dark grey (m1)		Not Frozen
2			
4	- clayey, low plastic		
6			
8			
10	- trace of organics, loose, some mica flakes		
12			
14	- clayey with some sand, low plastic		
16			
18			
20			
22			
24			
26			
28			
30	Continued		

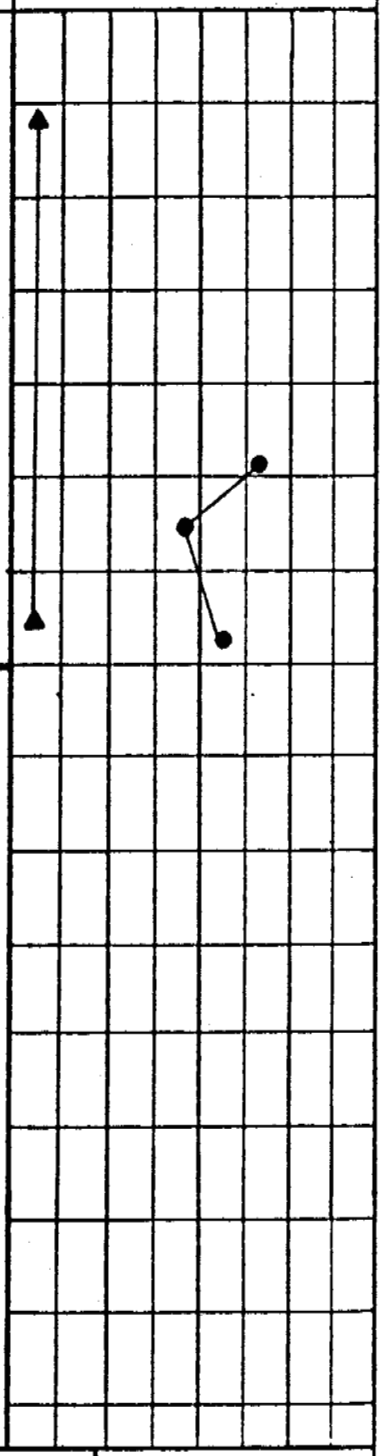


ICE THICKNESS (ft.)	6	DATE DRILLED 23/3/74	HOLE No.
WATER DEPTH (ft.)	14	TECH J.T.	204
COMPLETION DEPTH (ft.)	56	REGION Netserk	PAGE 1 OF 2

IMPERIAL OIL LIMITED

BEAUFORT SEA DRILLING PROGRAM — 1974

DEPTH (feet)	SOIL DESCRIPTION	SAMPLE	GROUND ICE CONDITION
	Continued		
30	SILT - as above (ml)		Not Frozen
32			
34			
36			
38			
40	- very loose, saturated		
42	END OF HOLE		
44			
46			
48			
50			
52			
54			
56			
58			

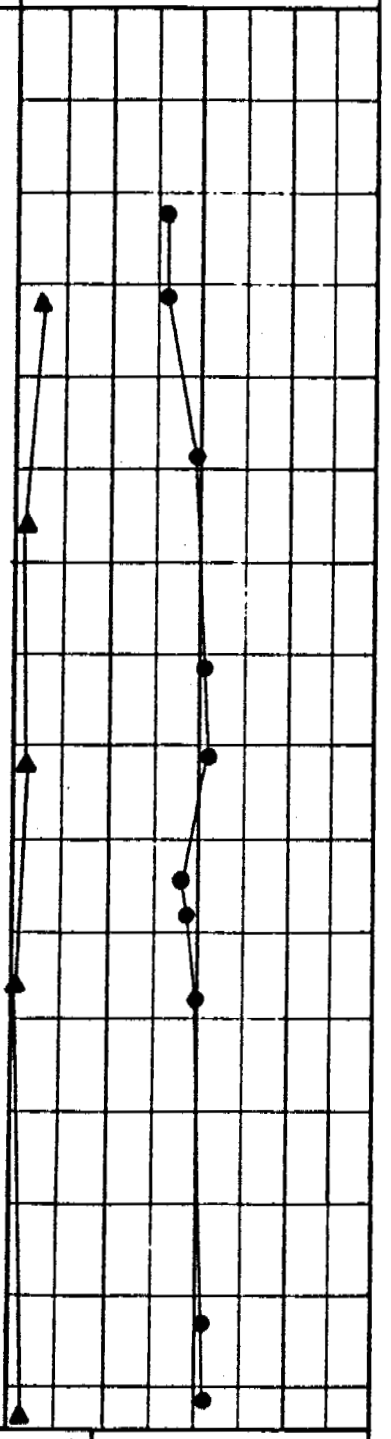


ICE THICKNESS (ft.) 6	DATE DRILLED 23/3/74	HOLE No.
WATER DEPTH (ft.) 14	TECH J.T.	204
COMPLETION DEPTH (ft.) 56	REGION Netserk	PAGE 2 OF 2

IMPERIAL OIL LIMITED

BEAUFORT SEA DRILLING PROGRAM — 1974

DEPTH (feet)	SOIL DESCRIPTION	SAMPLE	GROUND ICE CONDITION
	SEA BOTTOM		
	SILT - very loose, fine bedding, dark grey (m1)		NOT FROZEN
2			
4	- clayey, low plastic		
6			
8			
10			
12			
14			
16	- as above, some organics, wet to saturated		
18			
20			
22			
24			
26			
28			
30	- low plastic Continued		



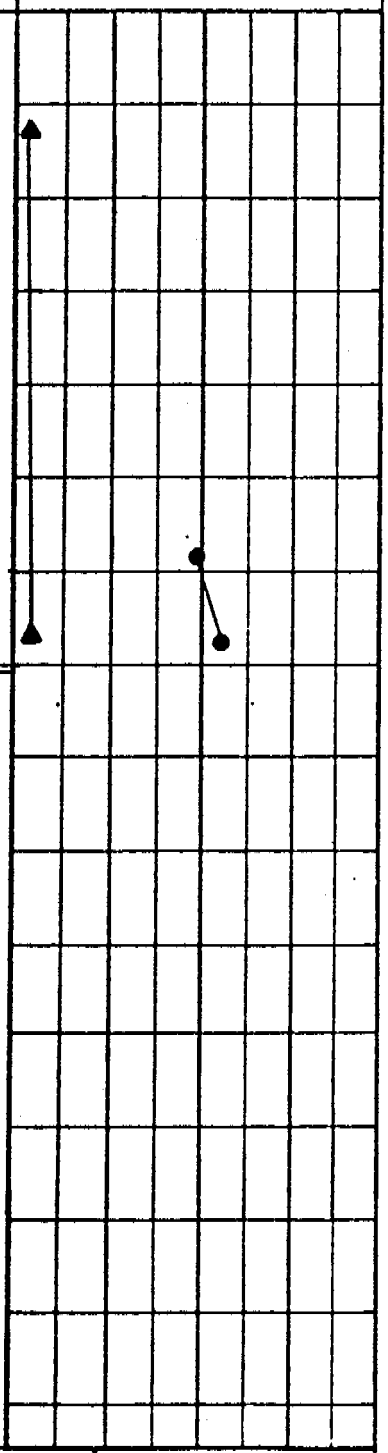
ICE THICKNESS (ft.)	6	DATE DRILLED 23/3/74	HOLE No.
WATER DEPTH (ft.)	14	TECH J.T.	205
COMPLETION DEPTH (ft.)	56	REGION Netserk	PAGE 1 OF 2

IMPERIAL OIL LIMITED

BEAUFORT SEA DRILLING PROGRAM — 1974

DEPTH (feet)	SOIL DESCRIPTION	SAMPLE	GROUND ICE CONDITION
	SILT - as above, wet (m')		NOT FROZEN
30			
32			
34			
36			
38			
40			
42	END OF HOLE		
44			
46			
48			
50			
52			
54			
56			
58			

MOISTURE CONTENT % ●
SPT RESISTANCE ▲
10 20 30 40 50 60 70
COMP. STRENGTH T.S.F. ■
1 2 3

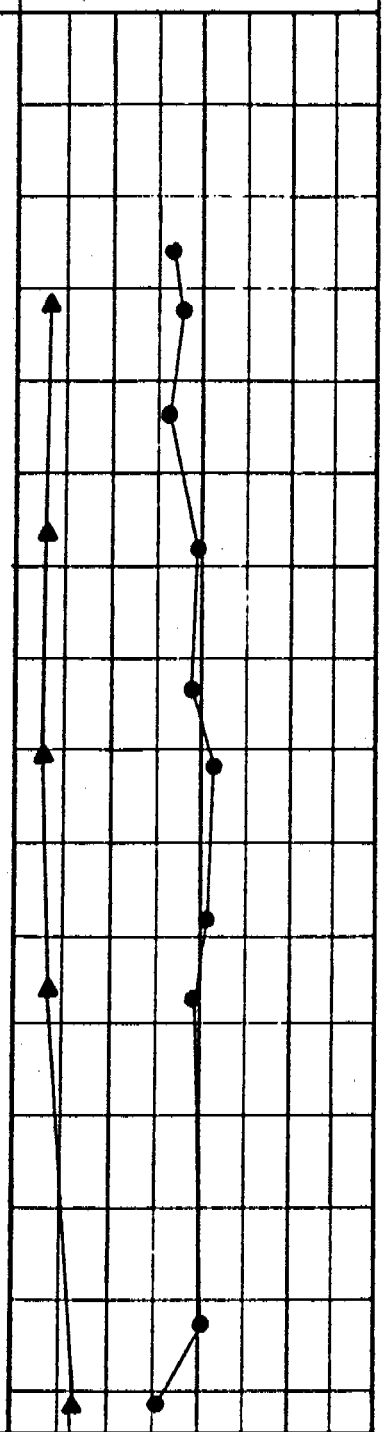


ICE THICKNESS (ft.)	6	DATE DRILLED 23/3/74	HOLE No.
WATER DEPTH (ft.)	14	TECH J.T.	205
COMPLETION DEPTH (ft.)	56	REGION Netserk	PAGE 2 OF 2

IMPERIAL OIL LIMITED

BEAUFORT SEA DRILLING PROGRAM — 1974

DEPTH (feet)	SOIL DESCRIPTION	SAMPLE	GROUND ICE CONDITION
	SEA BOTTOM		
	SILT - moist, organic layers, wet non-plastic, medium grey (m')		Not Frozen
2			
4			
	- clayey silt, low plastic		
6			
8			
10	- micaceous, some organics		
12			
14			
16	- uniform, low plastic		
	- trace of clay, some organic bedding, wet, slight plasticity		
18			
20	- loose		
22			
24			
26			
28			
30	- non plastic		

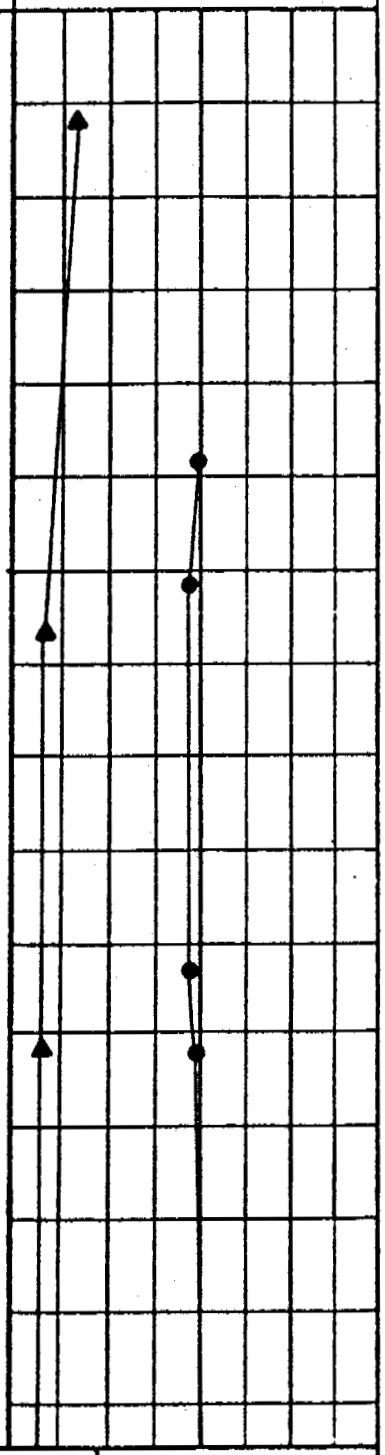


ICE THICKNESS (ft.)	5½	DATE DRILLED 24/3/74	HOLE No.
WATER DEPTH (ft.)	14	TECH K.S.	206
COMPLETION DEPTH (ft.)	77	REGION Netserk	PAGE 1 OF 3

IMPERIAL OIL LIMITED

BEAUFORT SEA DRILLING PROGRAM — 1974

DEPTH (feet)	SOIL DESCRIPTION	SAMPLE	GROUND ICE CONDITION
	Continued		
30	SILT - wet, loose, some organic layers, medium grey (ml)	X	Not Frozen
32			
34			
36			
38	- non-plastic, uniform		
40			
42	- medium plastic	X	
44			
46			
48	SILT - CLAY (ml-cl) - very micaceous - medium plastic		
50		X	
52			
54			
56			
58			

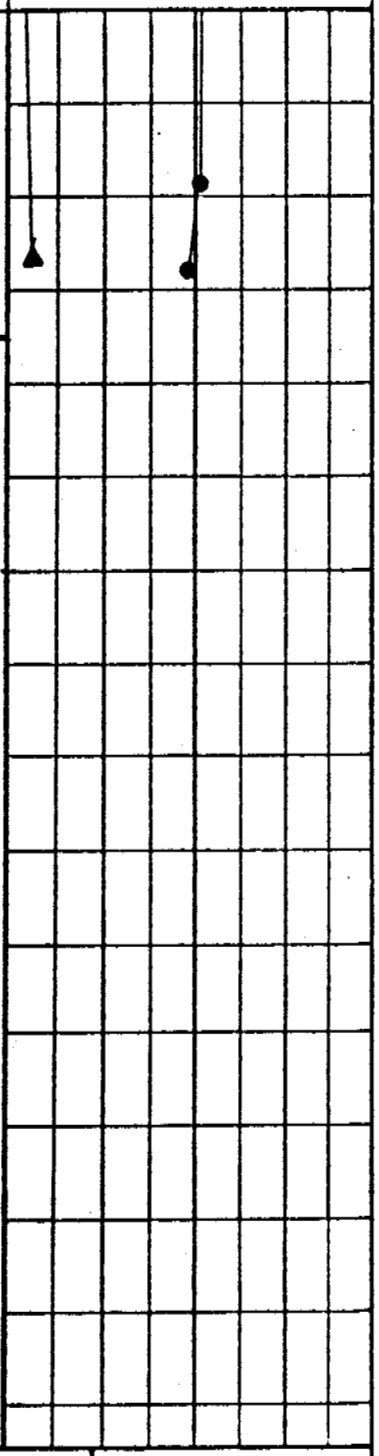


ICE THICKNESS (ft.) 5½	DATE DRILLED 24/3/74	HOLE No.
WATER DEPTH (ft.) 14	TECH K.S.	206
COMPLETION DEPTH (ft.) 77	REGION Netserk	PAGE 2 OF 3

IMPERIAL OIL LIMITED

BEAUFORT SEA DRILLING PROGRAM — 1974

DEPTH (feet)	SOIL DESCRIPTION	SAMPLE	GROUND ICE CONDITION
	Continued		
58	SILT - wet, non-plastic, black (ml) organic layers, medium grey		Not Frozen
60			
62	- medium plastic		
64	END OF HOLE		
66	- gas encountered which plugged up bottom 15 feet of hollow stem		
68			
70			
72			
74			
76			
78			
80			
82			
84			
86			

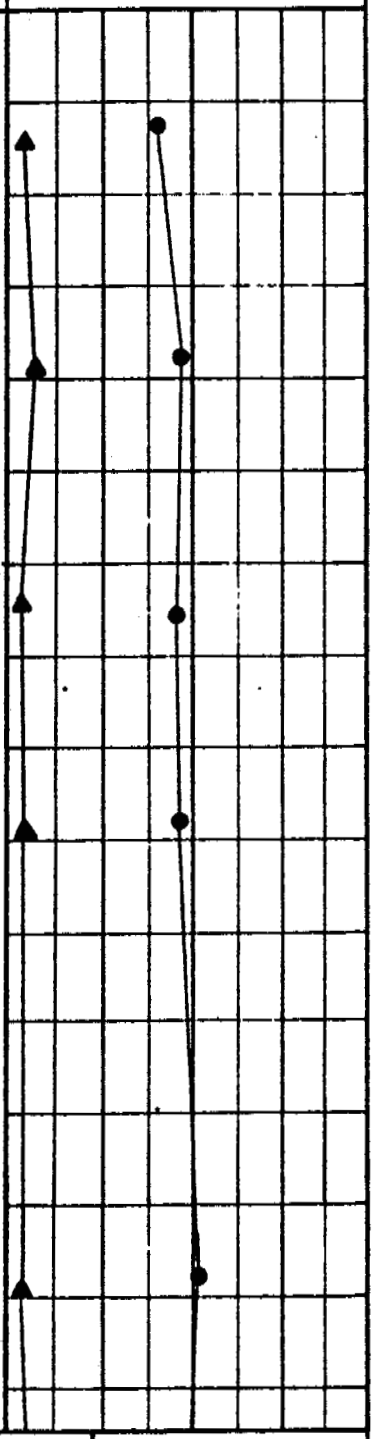


ICE THICKNESS (ft.) 5½	DATE DRILLED 24/3/74	HOLE No. 206
WATER DEPTH (ft.) 14	TECH K.S.	
COMPLETION DEPTH (ft.) 77	REGION Netserk	PAGE 3 OF 3

IMPERIAL OIL LIMITED

BEAUFORT SEA DRILLING PROGRAM — 1974

DEPTH (feet)	SOIL DESCRIPTION	SAMPLE	GROUND ICE CONDITION
	SEA BOTTOM		
2	SILT - very loose, moist, some layering, some mica flakes, medium plastic (ml)	X	Not Frozen
4			
6			
8		X	
10			
12		X	
14			
16			
18		X	
20			
22			
24			
26			
28	- medium to dark grey, clayey low plastic	X	
30	Continued		



ICE THICKNESS (ft.)	6	DATE DRILLED 25/3/74	HOLE No. 207
WATER DEPTH (ft.)	15	TECH J.T.	
COMPLETION DEPTH (ft.)	53½	REGION Netserk	PAGE 1 OF 2

IMPERIAL OIL LIMITED

BEAUFORT SEA DRILLING PROGRAM — 1974

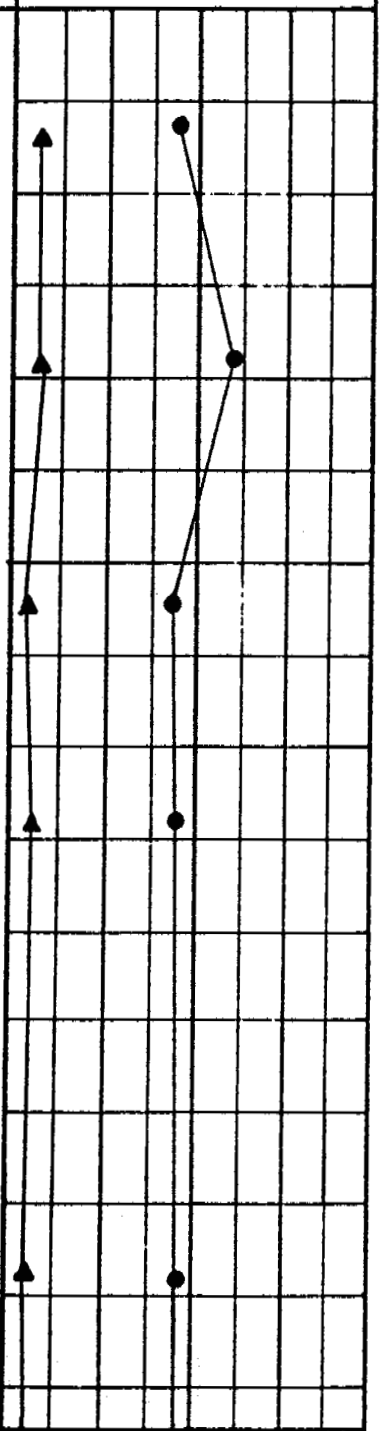
DEPTH (feet)	SOIL DESCRIPTION	SAMPLE	GROUND ICE CONDITION	MOISTURE CONTENT % ● / SPT RESISTANCE ▲ (10 20 30 40 50 60 70) / COMP. STRENGTH T.S.F. ■ (1 2 3)
30	SILT - as above (ml)		Not Frozen	
32				
34				
36				
38		X		
40	END OF HOLE			

ICE THICKNESS (ft.)	6	DATE DRILLED 25/3/74	HOLE No. 207
WATER DEPTH (ft.)	15	TECH J.T.	
COMPLETION DEPTH (ft.)	53½	REGION Netserk	PAGE 2 OF 2

IMPERIAL OIL LIMITED

BEAUFORT SEA DRILLING PROGRAM — 1974

DEPTH (feet)	SOIL DESCRIPTION	SAMPLE	GROUND ICE CONDITION
	SEA BOTTOM		
	SILT - moist, very loose, some layering, dark grey, clayey (ML)		
2		X	Not Frozen
4			
6			
8		X	
10			
12	- wet	X	
14			
16			
18	- moist to wet, some organics, clayey, medium plastic	X	
20			
22			
24			
26	- wet, medium to dark grey		
28		X	
30			
	Continued		



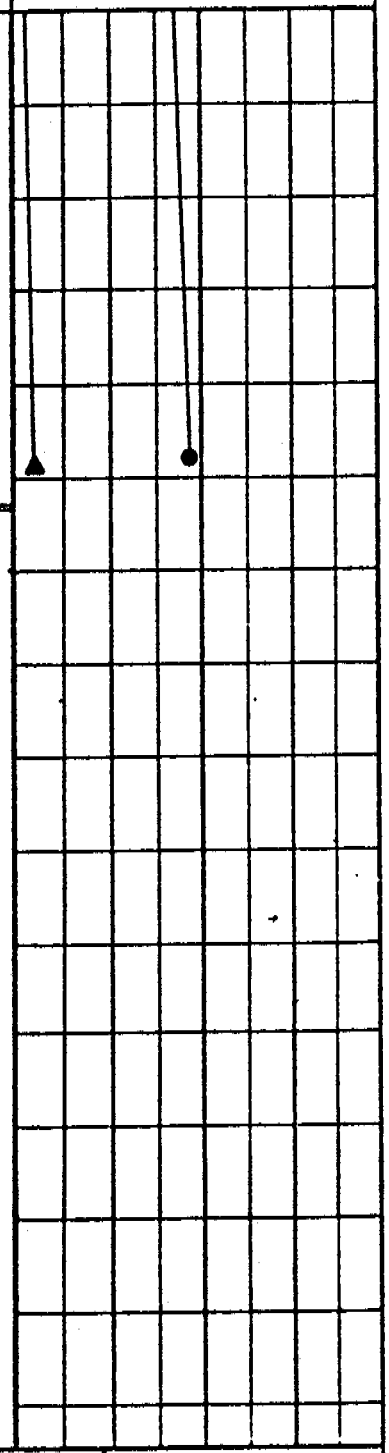
ICE THICKNESS (ft.) 5½	DATE DRILLED 25/3/74	HOLE No.
WATER DEPTH (ft.) 15	TECH J.T.	208
COMPLETION DEPTH (ft.) 53½	REGION Netserk	PAGE 1 OF 2

IMPERIAL OIL LIMITED

BEAUFORT SEA DRILLING PROGRAM — 1974

DEPTH (feet)	SOIL DESCRIPTION	SAMPLE	GROUND ICE CONDITION
	Continued		
30	SILT - as above (ml)		Not Frozen
32			
34			
36			
	SILT - CLAY (ml-cl)	X	
38			
40	END OF HOLE		

MOISTURE CONTENT % ●
SPT RESISTANCE ▲
10 20 30 40 50 60 70
COMP. STRENGTH T.S.F. ■
1 2 3

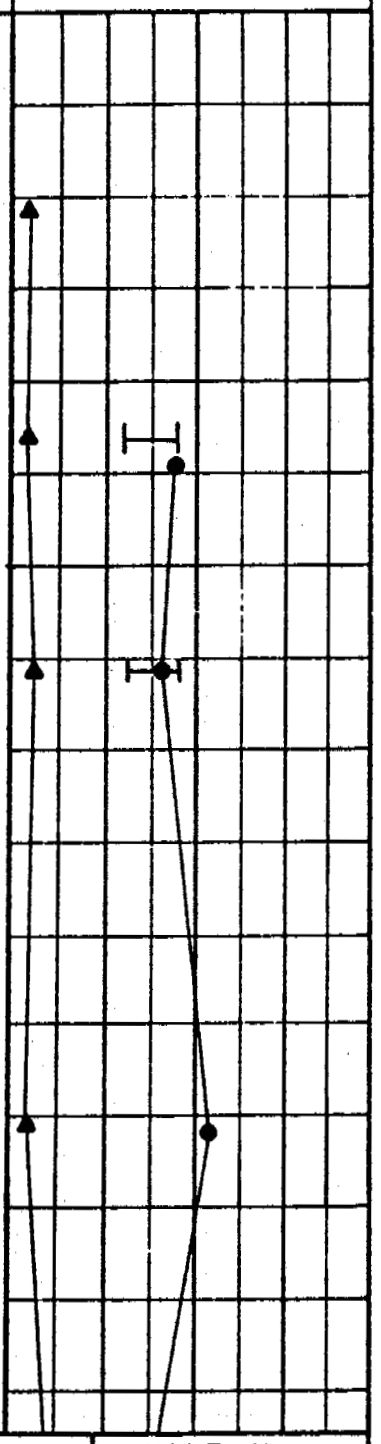


ICE THICKNESS (ft.)	5½	DATE DRILLED 25/3/74	HOLE No.
WATER DEPTH (ft.)	15	TECH J.T.	208
COMPLETION DEPTH (ft.)	53½	REGION Netserk	PAGE 2 OF 2

IMPERIAL OIL LIMITED

BEAUFORT SEA DRILLING PROGRAM — 1974

DEPTH (feet)	SOIL DESCRIPTION	SAMPLE	GROUND ICE CONDITION
	SEA BOTTOM		
2	SILT - very loose, moist to wet, trace of clay, some mica flakes, medium grey, medium plastic (ml)		Not Frozen
4		X	
6			
8			
10		X	
12	- moist, trace of very fine sand lenses, medium plastic		
14		X	
16			
18			
20			
22	- wet, very loose		
24	SILT - CLAY (ml-cl)		
26			
28			
30			

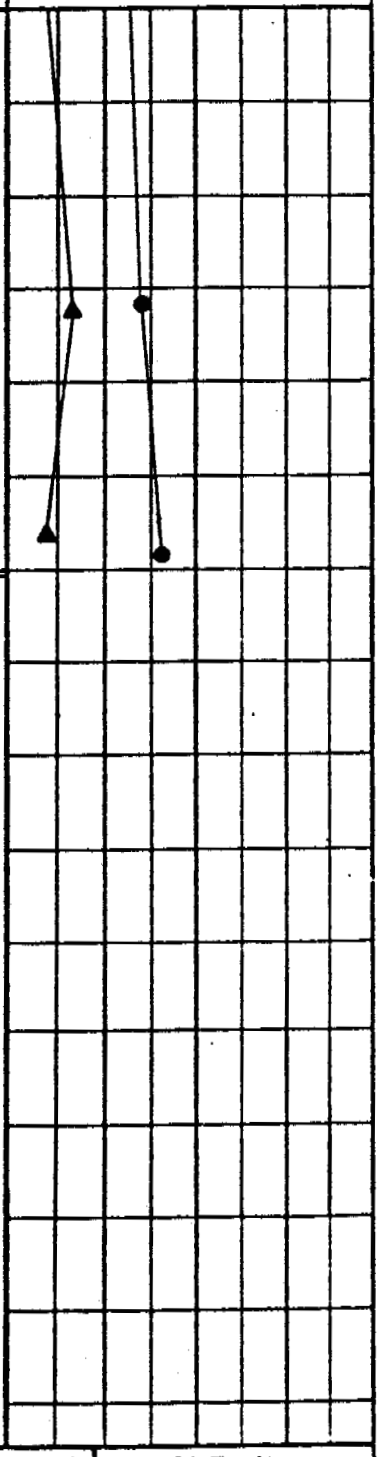


ICE THICKNESS (ft.)	7	DATE DRILLED 26/3/74	HOLE No.
WATER DEPTH (ft.)	23½	TECH · J.T.	210
COMPLETION DEPTH (ft.)	63½	REGION Netserk North	PAGE 1 OF 2

IMPERIAL OIL LIMITED

BEAUFORT SEA DRILLING PROGRAM — 1974

DEPTH (feet)	SOIL DESCRIPTION	SAMPLE	GROUND ICE CONDITION
	Continued		
30	SILT (ml)		Not Frozen
32			
	- trace of very fine sand, compact, moist to wet, med. grey, some organics		
34		X	
36			
38			
		X	
40			
	END OF HOLE		
42			
44			

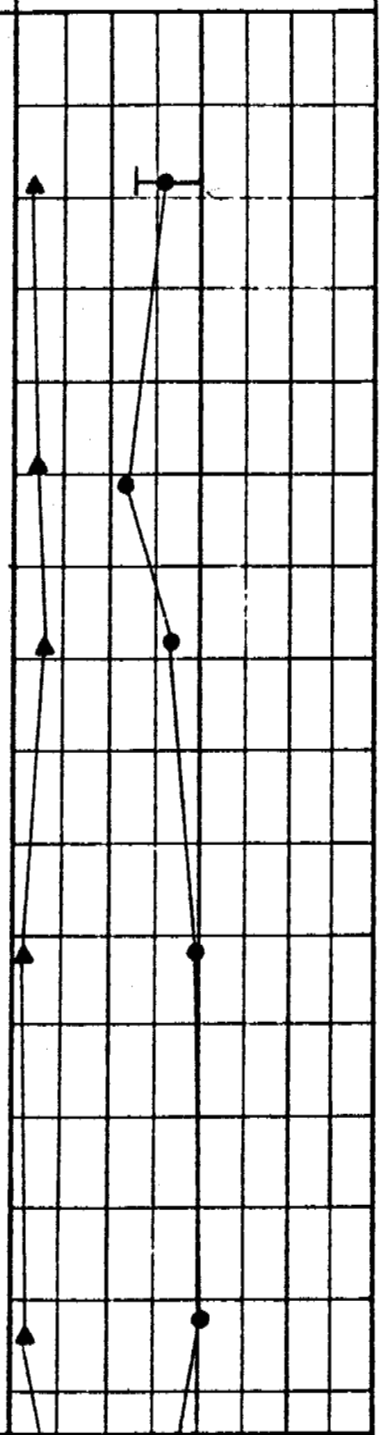


ICE THICKNESS (ft.)	7	DATE DRILLED 26/3/74	HOLE No.
WATER DEPTH (ft.)	23½	TECH J.T.	210
COMPLETION DEPTH (ft.)	63½	REGION Netserk North	PAGE 2 OF 2

IMPERIAL OIL LIMITED

BEAUFORT SEA DRILLING PROGRAM — 1974

DEPTH (feet)	SOIL DESCRIPTION	SAMPLE	GROUND ICE CONDITION
	SEA BOTTOM		
2	SILT - very loose, moist, trace of CLAY organics, fine layering, dark grey, medium plastic (ml-cl)		Not Frozen
4		X	
6			
8			
10	- no organics - some mica flakes, some sand	X	
12			
14	SILT - trace of clay (ml)	X	
16			
18			
20	- trace of organics, wet	X	
22			
24			
26			
28		X	
30	Continued		

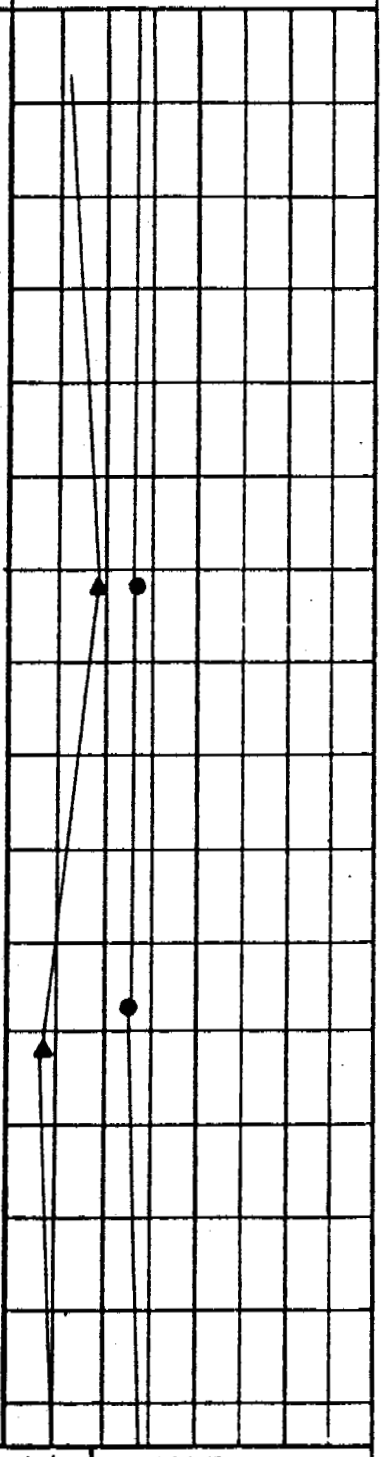


ICE THICKNESS (ft.)	6	DATE DRILLED 26/3/74	HOLE No.
WATER DEPTH (ft.)	24	TECH J.T.	211
COMPLETION DEPTH (ft.)	90	REGION Netserk North	PAGE 1 OF 3

IMPERIAL OIL LIMITED

BEAUFORT SEA DRILLING PROGRAM — 1974

DEPTH (feet)	SOIL DESCRIPTION	SAMPLE	GROUND ICE CONDITION
	Continued		
30	SILT - as above (ml)		Not Frozen
32			
34			
36			
38	SAND & SILT - very fine sand, compact to sandy, non plastic (sm - ml)		
40			
42			
44			
46			
48			
50	SILT - trace of clay, organic layers, moist, compact, dark grey to black (ml)		
52			
54			
56			
58	Continued		



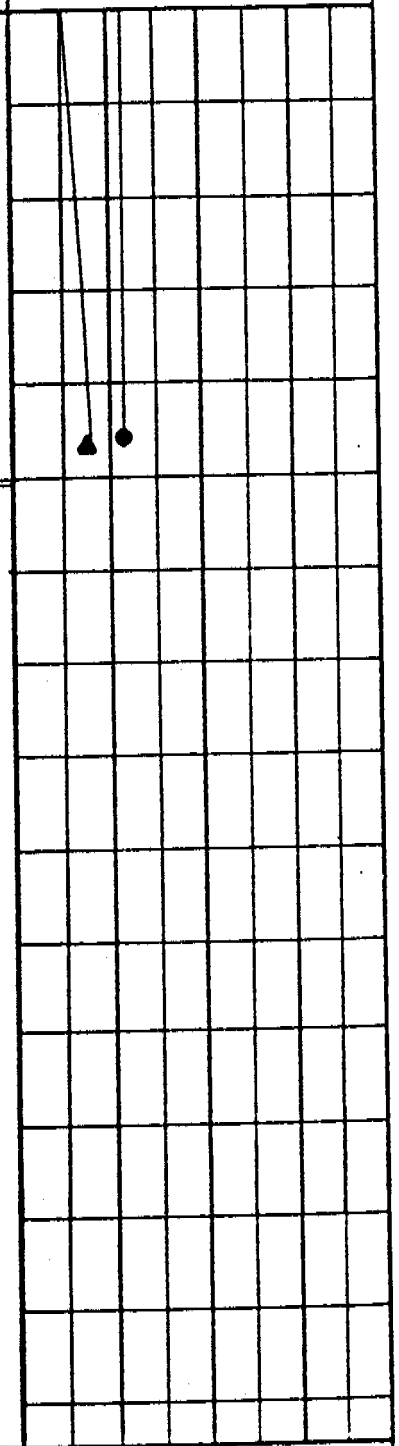
ICE THICKNESS (ft.)	6	DATE DRILLED 26/3/74	HOLE No.
WATER DEPTH (ft.)	24	TECH J.T.	211
COMPLETION DEPTH (ft.)	90	REGION Netserk North	PAGE 2 OF 3

IMPERIAL OIL LIMITED

BEAUFORT SEA DRILLING PROGRAM — 1974

DEPTH (feet)	SOIL DESCRIPTION	SAMPLE	GROUND ICE CONDITION
	Continued		
58	SILT - as above (ml)		Not Frozen
60			
62			
64	SILT - CLAY (ml-cl) - trace of medium sand		
66			
	END OF HOLE		
68	- end of auger		
70			

MOISTURE CONTENT % ●
SPT RESISTANCE ▲
10 20 30 40 50 60 70
COMP. STRENGTH T.S.F. ■
1 2 3

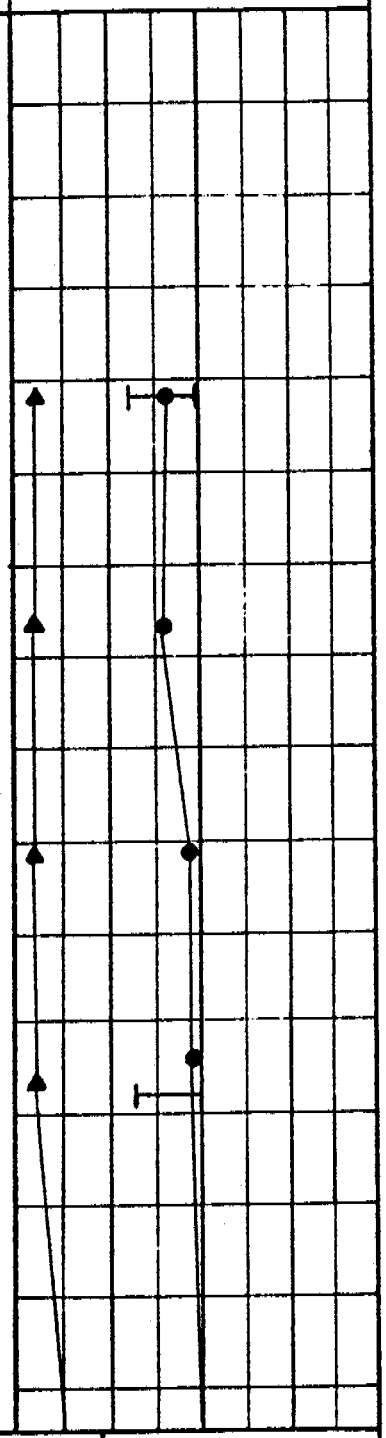


ICE THICKNESS (ft.)	6	DATE DRILLED 26/3/74	HOLE No. 211
WATER DEPTH (ft.)	24	TECH . J.T.	
COMPLETION DEPTH (ft.)	90	REGION Netserk North	PAGE 3 OF 3

IMPERIAL OIL LIMITED

BEAUFORT SEA DRILLING PROGRAM — 1974

DEPTH (feet)	SOIL DESCRIPTION	SAMPLE	GROUND ICE CONDITION
	SEA BOTTOM		
2			
4	- not samples, hollow-stem plug sank through mud from ½ to 5½ feet depth		Not Frozen
6			
8	SILT CLAY - trace of clay, layered, moist, dark grey medium plastic (ml-cl)	X	
10			
12		X	
14			
16	- trace of organics and trace of sand		
18		X	
20			
22			
24	- very soft, medium to low plastic	X	
26			
28			
30	Continued		

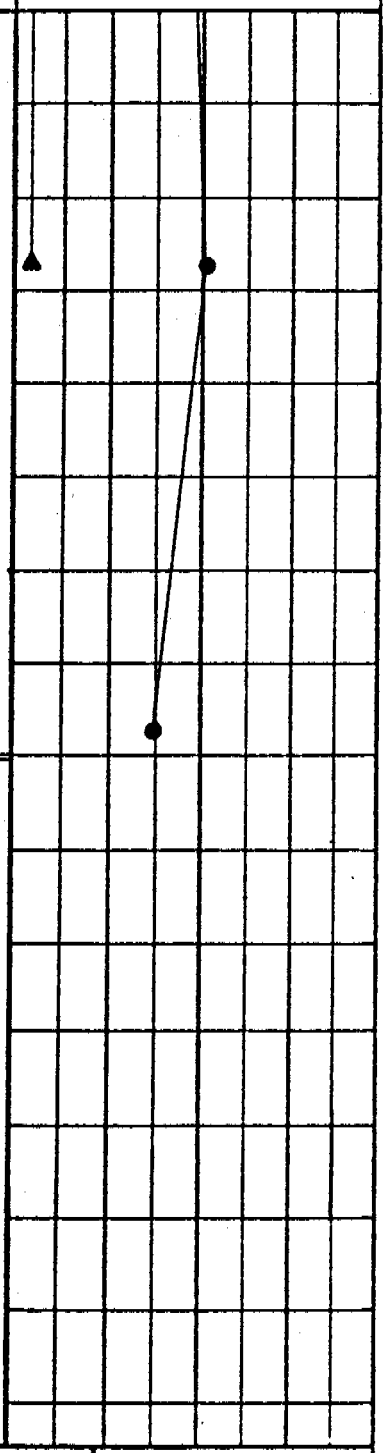


ICE THICKNESS (ft.)	6	DATE DRILLED 26/3/74	HOLE No.
WATER DEPTH (ft.)	24½	TECH J.T.	212
COMPLETION DEPTH (ft.)	68½	REGION Netserk North	PAGE 1 OF 2

IMPERIAL OIL LIMITED

BEAUFORT SEA DRILLING PROGRAM — 1974

DEPTH (feet)	SOIL DESCRIPTION	SAMPLE	GROUND ICE CONDITION
	Continued		
30			Not Frozen
32	SILT - to some clay, very soft CLAY wet, medium grey (ml-cl) medium plastic	X	
34			
36			
38			
40			
42			
44	- SPT unreliable		
	END OF HOLE		
46			
48			
50			

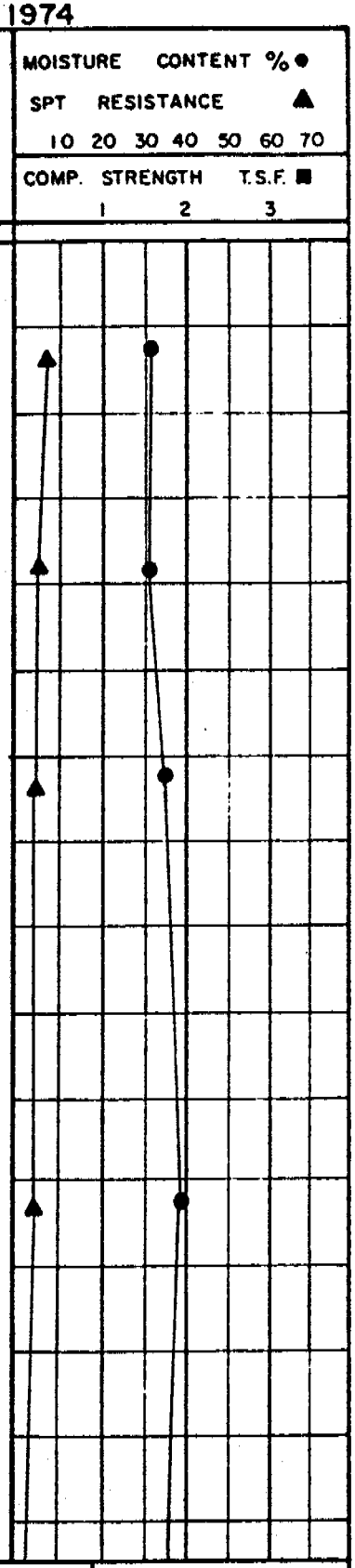


ICE THICKNESS (ft.)	6	DATE DRILLED 26/3/74	HOLE No.
WATER DEPTH (ft.)	24½	TECH J.T.	212
COMPLETION DEPTH (ft.)	68½	REGION Netserk North	PAGE 2 OF 2

IMPERIAL OIL LIMITED

BEAUFORT SEA DRILLING PROGRAM — 1974

DEPTH (feet)	SOIL DESCRIPTION	SAMPLE	GROUND ICE CONDITION
	SEA BOTTOM		
2	SILT - moist, loose, layered, dark grey (ml)	X	Not Frozen
4			
6			
8		X	
10			
12	- very loose, wet	X	
14			
16			
18			
20			
22		X	
24			
26			
28			
30	Continued		

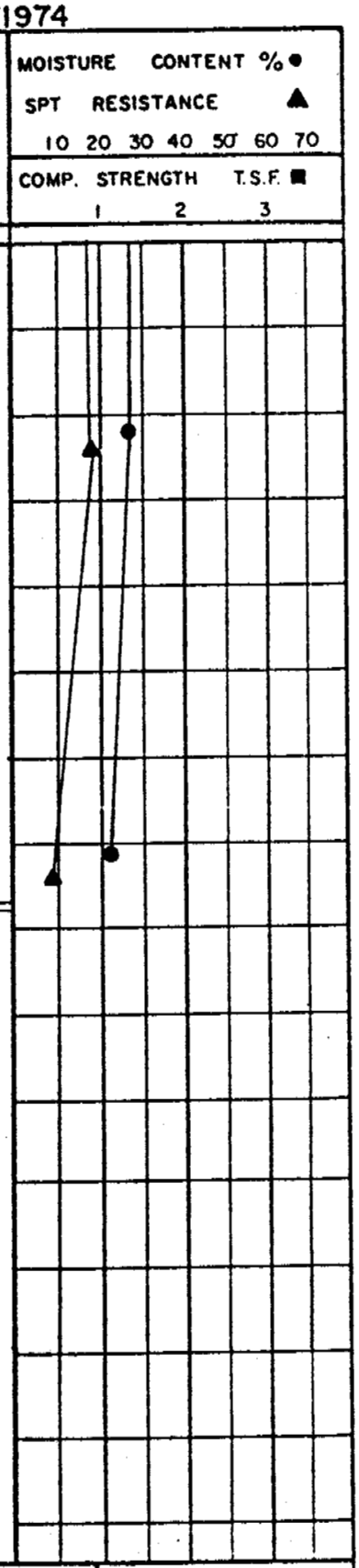


ICE THICKNESS (ft.)	6	DATE DRILLED 28/3/74	HOLE No.
WATER DEPTH (ft.)	25	TECH J.T.	213
COMPLETION DEPTH (ft.)	68½	REGION Netserk North	PAGE 1 OF 2

IMPERIAL OIL LIMITED

BEAUFORT SEA DRILLING PROGRAM — 1974

DEPTH (feet)	SOIL DESCRIPTION	SAMPLE	GROUND ICE CONDITION
	SEA BOTTOM		
	Continued		
30	SILT - trace of fine gravel and coarse sand, moist, compact, dark grey (ml)		Not Frozen
32		X	
34			
36			
38			
40			
42		X	
44	END OF HOLE		
46			
48			

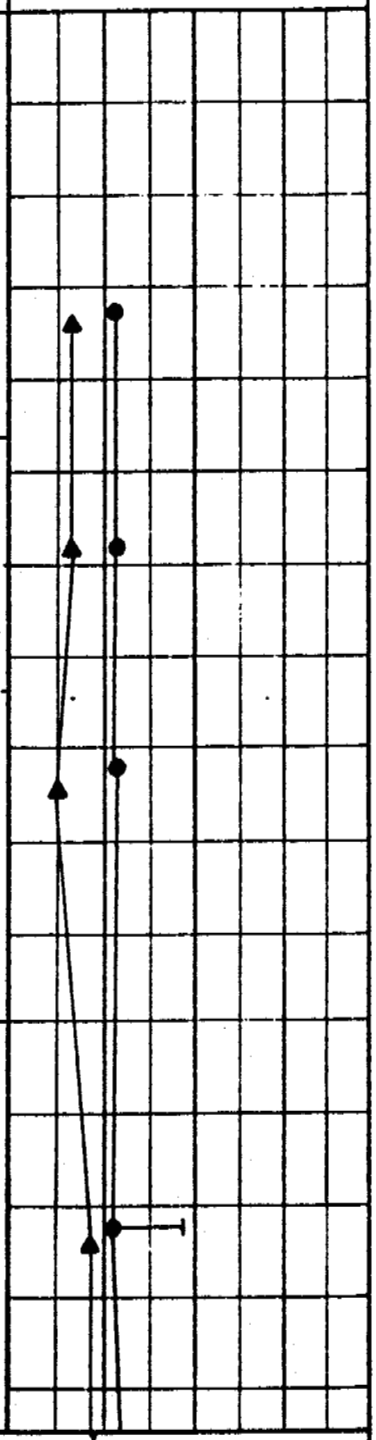


ICE THICKNESS (ft.)	6	DATE DRILLED 28/3/74	HOLE No.
WATER DEPTH (ft.)	25	TECH J.T.	213
COMPLETION DEPTH (ft.)	68½	REGION Netserk North	PAGE 2 OF 2

IMPERIAL OIL LIMITED

BEAUFORT SEA DRILLING PROGRAM — 1974

DEPTH (feet)	SOIL DESCRIPTION	SAMPLE	GROUND ICE CONDITION
	12.5 SEA BOTTOM		
2	CLAY (TILL) (cl) - silty, some sand and gravel, compact, low plasticity, some horizontal shear planes		Not Frozen
4			
6		X	
8			
10	- some silt, low plasticity trace of fine gravel moist, layered (?) compact		Vx - 5%
12		X	unbonded matrix
14			
16			Not Frozen
18		X	
20			
22	SILT - CLAY: (ml-cl) trace of gravel, layered, stiff moist medium plastic		
24			Vx - 5%
26		X	
28			
30	Continued		



ICE THICKNESS (ft.) 5½	DATE DRILLED 31/3/74	HOLE No. 302
WATER DEPTH (ft.) 41	TECH J.T.	
COMPLETION DEPTH (ft.) 80	REGION Issigak	PAGE 1 OF 2

IMPERIAL OIL LIMITED

BEAUFORT SEA DRILLING PROGRAM — 1974

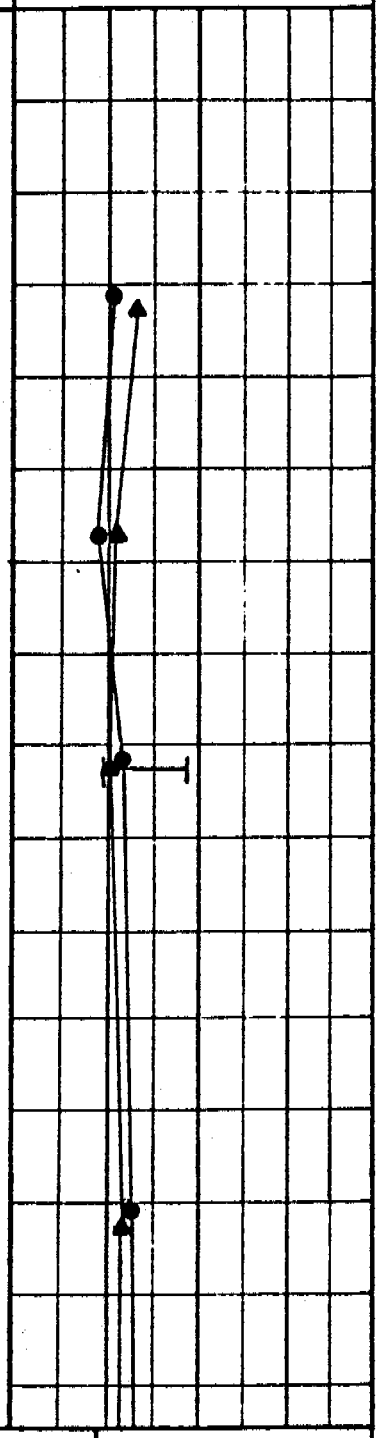
DEPTH (feet)	SOIL DESCRIPTION	SAMPLE	GROUND ICE CONDITION	MOISTURE CONTENT % ● / SPT RESISTANCE ▲ (10 20 30 40 50 60 70) / COMP. STRENGTH T.S.F. ■ (1 2 3)
	Continued			
30	SILT - as above CLAY (ml-cl)			
32			Vx - 5%	
34				
36	- clayey, medium plastic fissured, salt stains on fissures, compact - trace of shells			
38				
40	END OF HOLE			

ICE THICKNESS (ft.)	5½	DATE DRILLED 31/3/74	HOLE No.
WATER DEPTH (ft.)	41	TECH J.T.	302
COMPLETION DEPTH (ft.)	80	REGION Issigak	PAGE 2 OF 2

IMPERIAL OIL LIMITED

BEAUFORT SEA DRILLING PROGRAM — 1974

DEPTH (feet)	SOIL DESCRIPTION	SAMPLE	GROUND ICE CONDITION
12.6	SEA BOTTOM		
2	- too soft to sample, probably recent deltaic silt		Not Frozen
3.8 4	CLAY (TILL) (cl) - silty, some fine to med. gravel, and some sand - low plastic, stiff horizontal shear planes		
6		X	
8			
10			- move to new borehole
12		X	
14			
17.2 16	CLAY, SILT (cl-ml) - trace of fine gravel, moist to hard, layered, medium plasticity, dark grey	X	
18			
20			
22			
24			
10.3 26	SILT (ml) - trace of clay, some gravel, moist, layered dark grey	X	
28			
30	Continued		



ICE THICKNESS (ft.)	5	DATE DRILLED 30/3/74	HOLE No.
WATER DEPTH (ft.)	41½	TECH J.T.	303
COMPLETION DEPTH (ft.)	78½	REGION Issigak	PAGE 1 OF 2

IMPERIAL OIL LIMITED

BEAUFORT SEA DRILLING PROGRAM — 1974

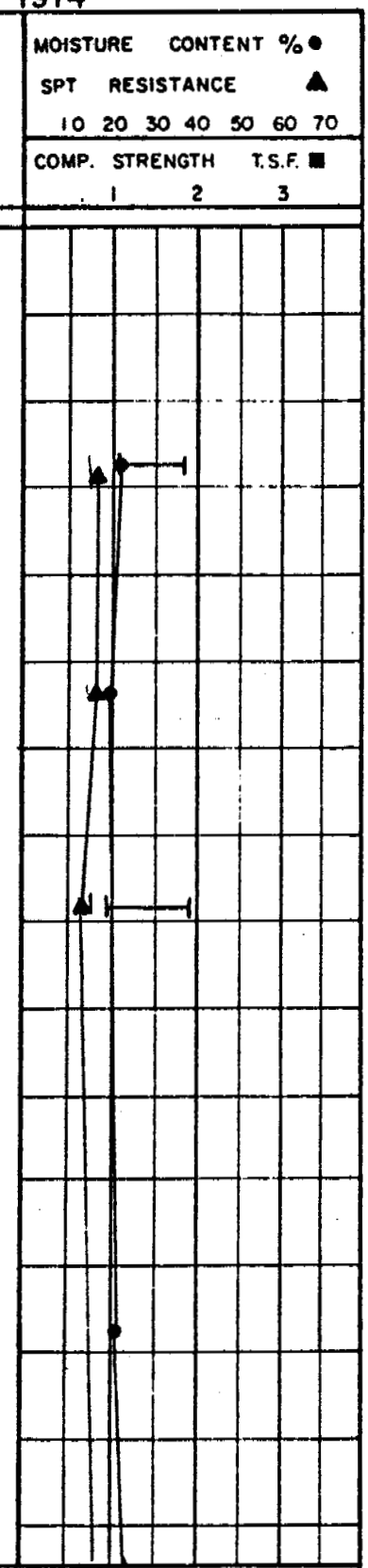
DEPTH (feet)	SOIL DESCRIPTION	SAMPLE	GROUND ICE CONDITION	MOISTURE CONTENT % ● / SPT RESISTANCE ▲ (10 20 30 40 50 60 70) / COMP. STRENGTH T.S.F. ■ (1 2 3)
	Continued			
30	SILT - as above (ml)		NOT FROZEN	
32				
2.7	SILT (ml-cl)			
34	CLAY - medium plastic			
36	- fissured, some salts on fissures & slickensides, dark grey, moist, stiff	X	23-26	▲
36.6				
38	END OF HOLE			

eoa	ICE THICKNESS (ft.) 5	DATE DRILLED 30/3/74	HOLE No.
	WATER DEPTH (ft.) 41½	TECH J.T.	303
	COMPLETION DEPTH (ft.) 78½	REGION Issigak	PAGE 2 OF 2

IMPERIAL OIL LIMITED

BEAUFORT SEA DRILLING PROGRAM — 1974

DEPTH (feet)	SOIL DESCRIPTION	SAMPLE	GROUND ICE CONDITION
	SEA BOTTOM		
2	SILT CLAY (ml-cl) - some fine gravel, trace of organics, dry to moist, finely layered, compact		NOT FROZEN
4			
	- medium plastic		
6		X	
8			
10	- hard drilling	X	
12			
14			
	CLAY (cl) - silty, medium plastic trace of shell fragments		
16		X	
18			
20			
22			
24			
26	- trace of fine gravel, no organics	X	
28			
30	Continued		



ICE THICKNESS (ft.)	8½	DATE DRILLED 1/4/74	HOLE No.
WATER DEPTH (ft.)	42	TECH J.T.	304
COMPLETION DEPTH (ft.)	78½	REGION Issigak	PAGE 1 OF 2

IMPERIAL OIL LIMITED

BEAUFORT SEA DRILLING PROGRAM — 1974

DEPTH (feet)	SOIL DESCRIPTION	SAMPLE	GROUND ICE CONDITION	MOISTURE CONTENT % ● / SPT RESISTANCE ▲ (10 20 30 40 50 60 70) / COMP. STRENGTH T.S.F. ■ (1 2 3)
	Continued			
30	SILT CLAY (ml-cl)		NOT FROZEN	
32				
34	- trace of clay and coarse sand, some salt stains compact			
36		X		
	END OF HOLE			
38				
40				
42				

72

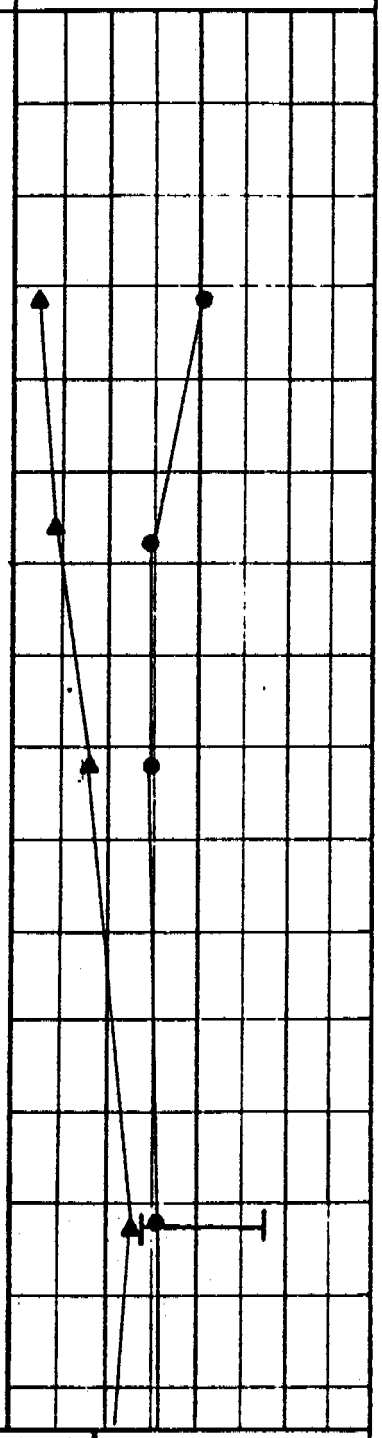
ICE THICKNESS (ft.)	8½	DATE DRILLED 1/4/74	HOLE No.
WATER DEPTH (ft.)	42	TECH J.T.	304
COMPLETION DEPTH (ft.)	78½	REGION Issigak	PAGE 2 OF 2

IMPERIAL OIL LIMITED

BEAUFORT SEA DRILLING PROGRAM — 1974

DEPTH (feet)	SOIL DESCRIPTION	SAMPLE	GROUND ICE CONDITION
0	SEA BOTTOM 12.6		
2	SILT (ml) - trace of fine gravel, wood fragments, wet, layered, dark grey, very loose		
4			
6		X	NOT FROZEN
8			
2.74	15.3		
10	- clayey - some fine sand lenses, some organics, loose, moist to wet	X	
12			
14	17.2		
4.57			
16	SAND (sm) - some silt, very fine, saturated, trace of organics	X	
18	19.1		No (2)
5.5	SILT CLAY (ml-cl) - trace of clay, moist, compact, layered, dark grey		
20			
22			
24			
26	- High plastic	X	
28			
30	Continued		

MOISTURE CONTENT % ●
SPT RESISTANCE ▲
10 20 30 40 50 60 70
COMP. STRENGTH T.S.F. ■
1 2 3



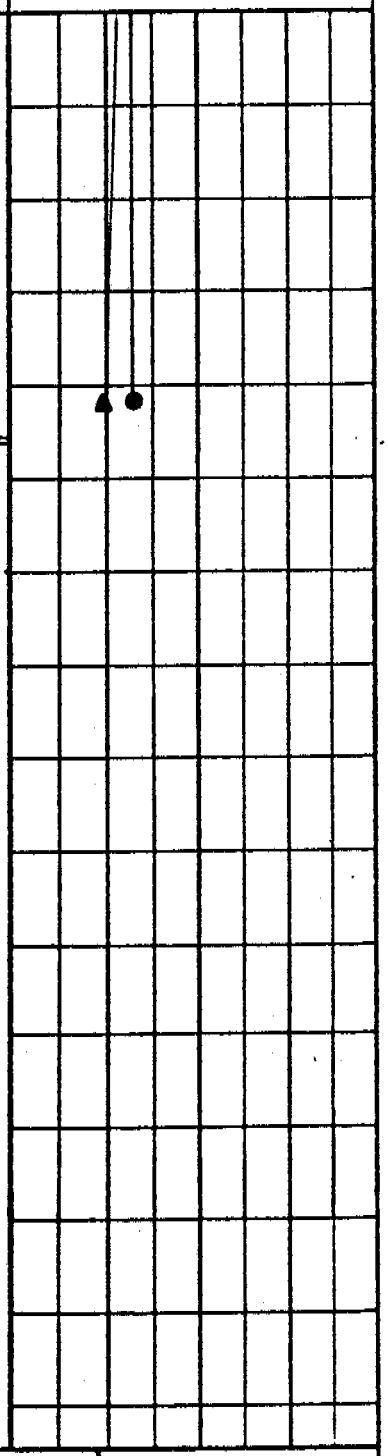
ICE THICKNESS (ft.) 6	DATE DRILLED 1/4/74	HOLE No.	
WATER DEPTH (ft.) 41½	TECH J.T.	305	
COMPLETION DEPTH (ft.) 78½	REGION Issigak	PAGE 1 OF 2	

IMPERIAL OIL LIMITED

BEAUFORT SEA DRILLING PROGRAM — 1974

DEPTH (feet)	SOIL DESCRIPTION	SAMPLE	GROUND ICE CONDITION
	Continued		NOT FROZEN
30	SILT CLAY - as above (mh - ch).		
32	- hard drilling		
34	- fissured, salt stains, compact, crumbly, moist, dark grey		
36		X	
38	END OF HOLE		
40			

MOISTURE CONTENT % ●
SPT RESISTANCE ▲
10 20 30 40 50 60 70
COMP. STRENGTH T.S.F. ■
1 2 3

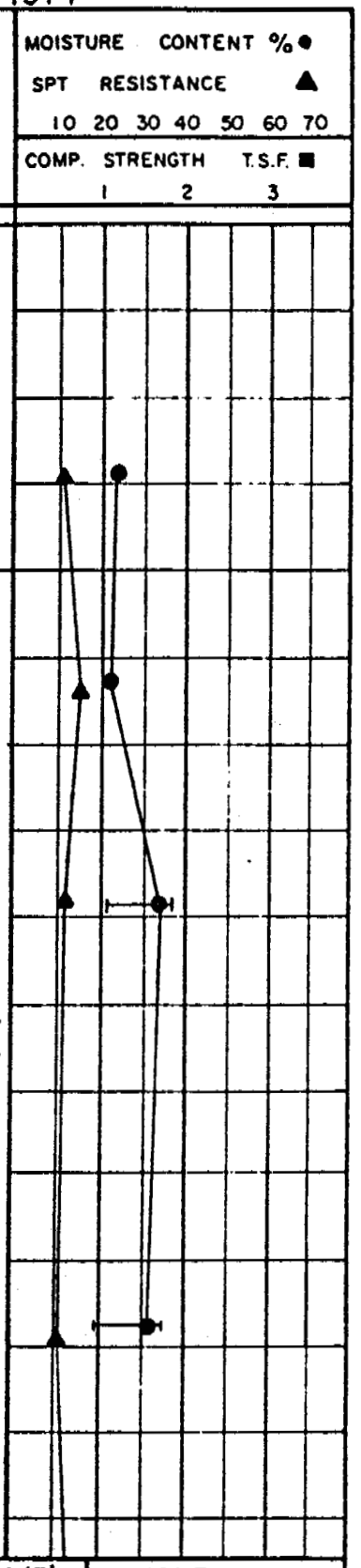


ICE THICKNESS (ft.) 6	DATE DRILLED 1/4/74	HOLE No. 305
WATER DEPTH (ft.) 41½	TECH J.T.	
COMPLETION DEPTH (ft.) 78½	REGION Issigak	PAGE 2 OF 2

IMPERIAL OIL LIMITED

BEAUFORT SEA DRILLING PROGRAM — 1974

DEPTH (feet)	SOIL DESCRIPTION	SAMPLE	GROUND ICE CONDITION
	12.8		
	SEA BOTTOM		
2, 4, 6, 8	SAND, SILT (sm-ml) - layers of fine silty sand and silt with a trace of clay, wet, compact	X	NOT FROZEN
	30.4		
10, 12	SILT (ml) - some clay, some fine gravel, compact	X	Vx - Vs 5 - 20%
	4.26		
14, 16, 18, 20, 22, 24, 26, 28, 30	SILT CLAY (ml-cl) - trace of sand, medium plastic	X	Vx - Vs 5 - 70%
			Soil generally not frozen between lenses and around crystals
	- clayey, trace of fine to med. gravel, low plastic	X	Vx - Vs 5 - 50% lenses to 3"
	Continued		



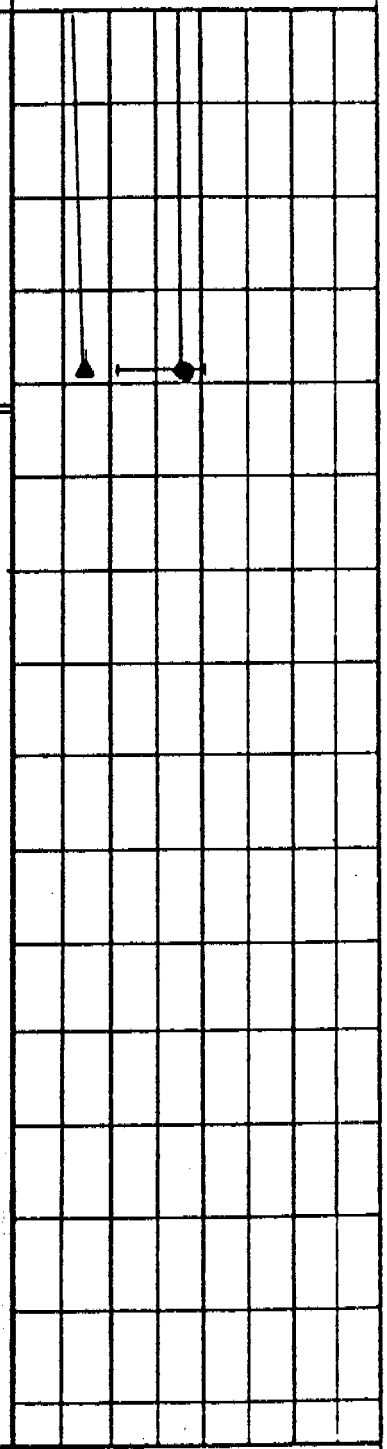
ICE THICKNESS (ft.)	5½	DATE DRILLED 31/3/74	HOLE No.
WATER DEPTH (ft.)	42	TECH J.T.	306
COMPLETION DEPTH (ft.)	78½	REGION Issigak	PAGE 1 OF 2

IMPERIAL OIL LIMITED

BEAUFORT SEA DRILLING PROGRAM — 1974

DEPTH (feet)	SOIL DESCRIPTION	SAMPLE	GROUND ICE CONDITION
	Continued		
30	SILT - as above (ml) 9.75		Vs - Vx 20% lenses to 1½"
32			
34	CLAY - silty, moist dark grey medium plastic (cl) 11.1	X	
36			
	END OF HOLE		
38			
40			

MOISTURE CONTENT % ●
SPT RESISTANCE ▲
10 20 30 40 50 60 70
COMP. STRENGTH T.S.F. ■
1 2 3

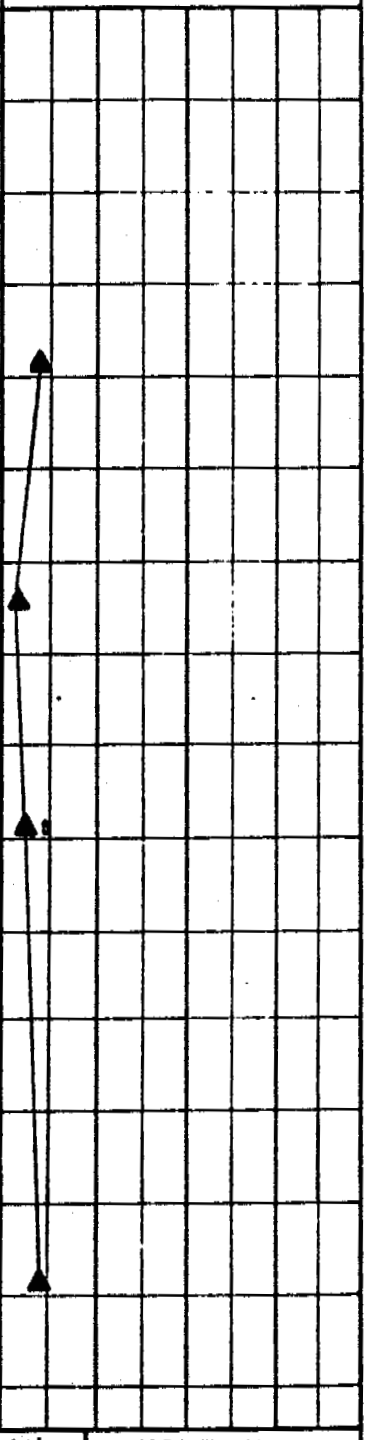


eaa	ICE THICKNESS (ft.) 5½	DATE DRILLED 31/3/74	HOLE No. 306
	WATER DEPTH (ft.) 42	TECH J.T.	
	COMPLETION DEPTH (ft.) 78½	REGION Issigak	PAGE 2 OF 2

IMPERIAL OIL LIMITED

BEAUFORT SEA DRILLING PROGRAM — 1974

DEPTH (feet)	SOIL DESCRIPTION	SAMPLE	GROUND ICE CONDITION
	SEA BOTTOM		
2, 4, 6	NOT SAMPLED -very soft drilling, -organic rich sand recovered from the outside of hollow stem auger		UNFROZEN
8, 10	SAND SILT -very loose, medium grained sand which is interbedded with silt -grey brown moist to wet silt (sm-ml)	X	
12, 14, 16, 18, 20, 22, 24, 26, 28	SAND (sm) -loose medium sand, medium brown, uniform -silty SPT sank 1ft. on impact -medium to fine some silt to silty, very loose	X X X	
30	END OF HOLE -sand sloughed up the inside of the hollow stem		



eba	ICE THICKNESS (ft.) 5½	DATE DRILLED 5/4/74	HOLE No.
	WATER DEPTH (ft.) 10	TECH NRM	711
	COMPLETION DEPTH (ft.) 38½	REGION Pullen Island	PAGE 1 OF 1

IMPERIAL OIL LIMITED

BEAUFORT SEA DRILLING PROGRAM — 1974

DEPTH (feet)	SOIL DESCRIPTION	SAMPLE	GROUND ICE CONDITION	MOISTURE CONTENT % ● / SPT RESISTANCE ▲ (10 20 30 40 50 60 70) / COMP. STRENGTH T.S.F. ■ (1 2 3)
	SEA BOTTOM			
2				
4				
6	SAND (sm)	X		
	-some silt, some organics			
	-fine to medium grained			
8	-grey brown, very loose		UNFROZEN	
10				
	-SPT PEN settled 1ft. under its own weight	X		
12				
	-fine grained, trace of silt and organics			
14	-medium brown			
16				
18				
	-fine, silty, brown becomming finer and siltier with depth			
20				
22				
24				
26				
28				
30				

eba	ICE THICKNESS (ft.) 5½	DATE DRILLED 5/4/74	HOLE No.
	WATER DEPTH (ft.) 16½	TECH NRM	712
	COMPLETION DEPTH (ft.) 52	REGION Pullen Island	PAGE 1 OF 2

IMPERIAL OIL LIMITED

BEAUFORT SEA DRILLING PROGRAM — 1974

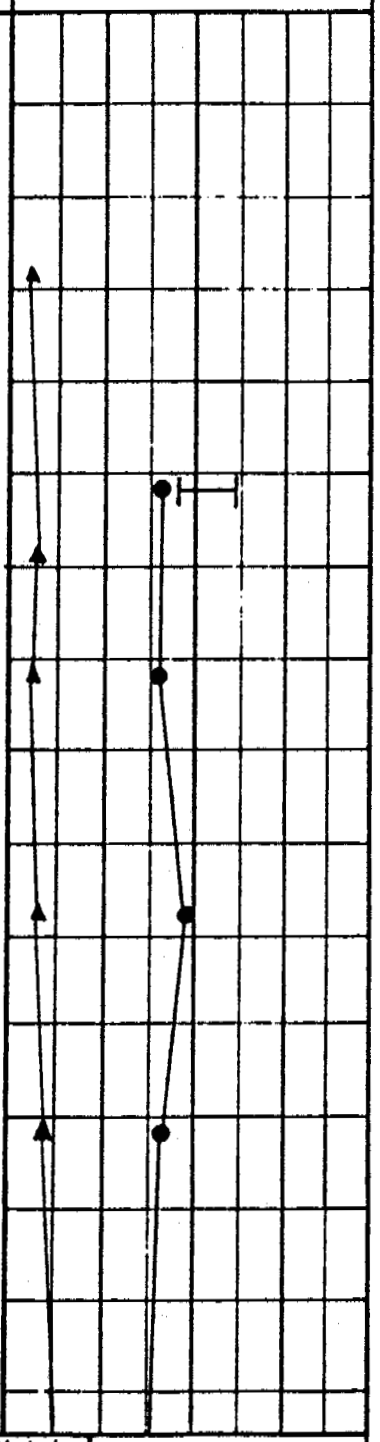
DEPTH (feet)	SOIL DESCRIPTION	SAMPLE	GROUND ICE CONDITION	MOISTURE CONTENT % ● / SPT RESISTANCE ▲ (10 20 30 40 50 60 70) / COMP. STRENGTH T.S.F. ■ (1 2 3)
32	SAND (sm)		UNFROZEN	
	-as above			
34				
	-very silty, loose		Vx	
36	SILT -sandy (ml)			
	END OF HOLE			
38	End of available auger			
40				
42				

eoa	ICE THICKNESS (ft.) 5½	DATE DRILLED 5/4/74	HOLE No. 712
	WATER DEPTH (ft.) 16½	TECH NRM	
	COMPLETION DEPTH (ft.) 52	REGION Pullen Island	PAGE 2 OF 2

IMPERIAL OIL LIMITED

BEAUFORT SEA DRILLING PROGRAM — 1974

DEPTH (feet)	SOIL DESCRIPTION	SAMPLE	GROUND ICE CONDITION
	SEA BOTTOM		
2			
	-no recovery		NOT FROZEN
4			
6			
8			
10			
	SILT -moist, medium plastic (ml)		
12			
14			
	-stratified		
16			
18	CLAY SILT (cl-ml)		
	-moist, some organics		
20			
22			
24	-trace of organics, moist stratified, med. grey-brown non-plastic		
26			
28			
30			



ICE THICKNESS (ft.) 6	DATE DRILLED 11/4/74	HOLE No.
WATER DEPTH (ft.) 33½	TECH CME	416
COMPLETION DEPTH (ft.) 69½	REGION KADOK	PAGE 1 OF 2

IMPERIAL OIL LIMITED

BEAUFORT SEA DRILLING PROGRAM — 1974

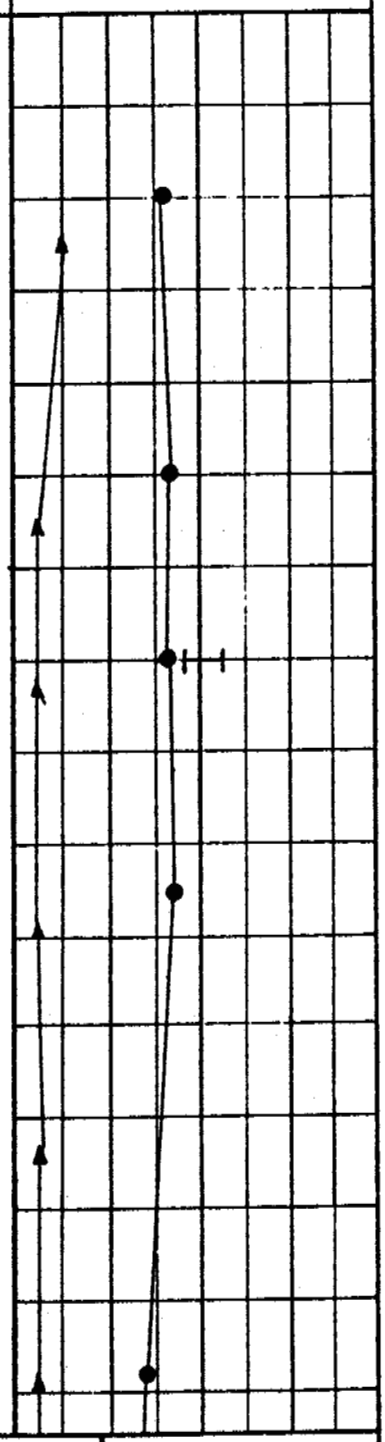
DEPTH (feet)	SOIL DESCRIPTION	SAMPLE	GROUND ICE CONDITION	MOISTURE CONTENT % ● / SPT RESISTANCE ▲ (10 20 30 40 50 60 70) / COMP. STRENGTH T.S.F. ■ (1 2 3)
			NOT FROZEN	
32				
34	SAND (sm) -clean, med. to fine, trace of silt, uniform			
36				
38	END OF HOLE			
40	-Sand sloughed up the inside of the hollow stem			

eda	ICE THICKNESS (ft.) 6	DATE DRILLED 11/4/74	HOLE No. 416
	WATER DEPTH (ft.) 33½	TECH . CME	
	COMPLETION DEPTH (ft.) 69½	REGION KADOK	PAGE 2 OF 2

IMPERIAL OIL LIMITED

BEAUFORT SEA DRILLING PROGRAM — 1974

DEPTH (feet)	SOIL DESCRIPTION	SAMPLE	GROUND ICE CONDITION
	SEA BOTTOM		
2			
4	SILT -trace of clay, trace of fine sand, slight plasticity medium grey-brown (ml)		NOT FROZEN
6			
8	CLAY SILT -medium plastic (cl-ml)		
10			
12			
14			
16			
18			
20			
22			
24			
26			
28	-low plasticity		
30			

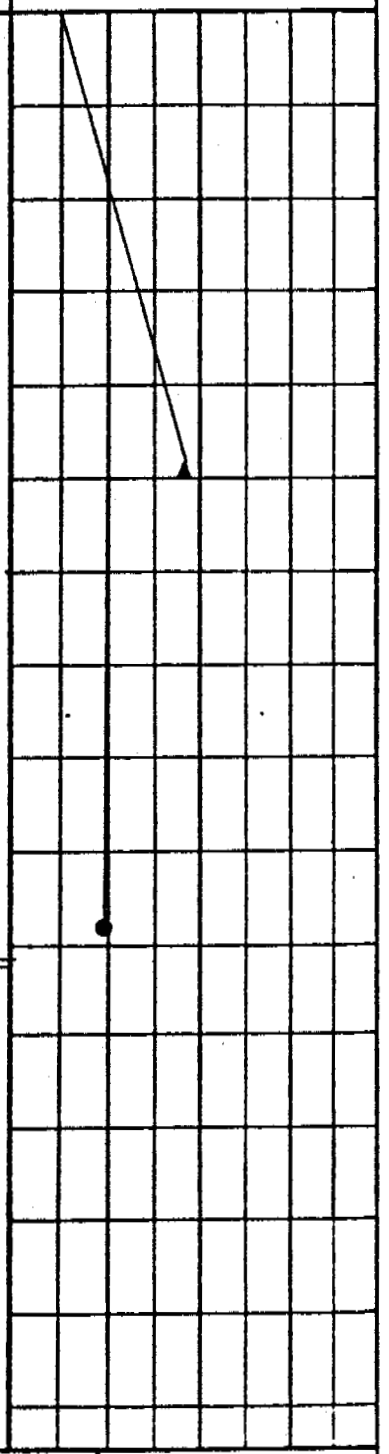


ICE THICKNESS (ft.) 5½	DATE DRILLED 16/4/74	HOLE No. 419
WATER DEPTH (ft.) 33	TECH KOS	
COMPLETION DEPTH (ft.) 83½	REGION KADOK	PAGE 1 OF 2

IMPERIAL OIL LIMITED

BEAUFORT SEA DRILLING PROGRAM — 1974

DEPTH (feet)	SOIL DESCRIPTION	SAMPLE	GROUND ICE CONDITION
32	CLAY SILT -as above (cl-ml)		NOT FROZEN
34			
36			
38			
40			
42	SAND -medium grain size, trace of silt (sm)		
44			
46			
48			
50			
52	END OF HOLE -sand sloughed up the inside of the hollow stem		
54			
56			
58			
60			

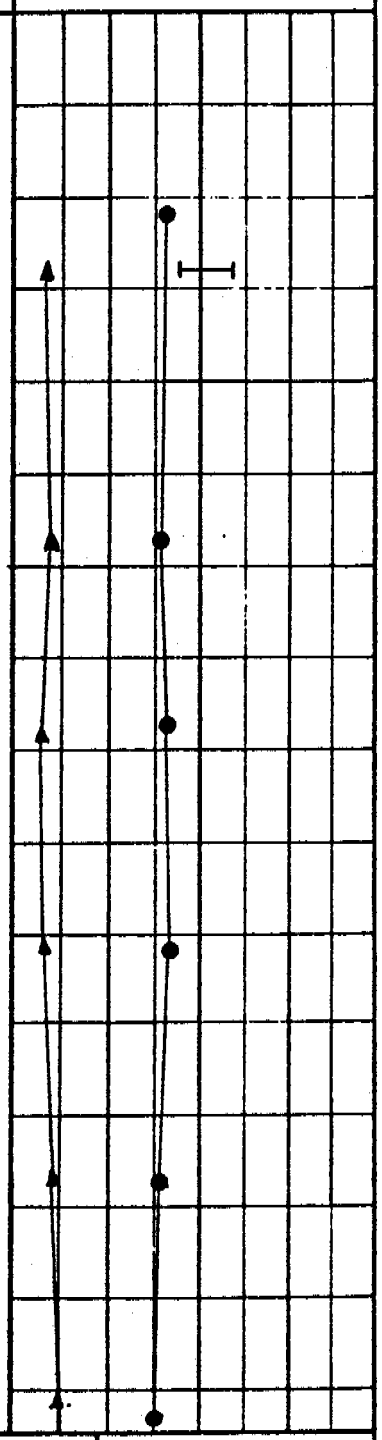


ICE THICKNESS (ft.) 5½	DATE DRILLED 16/4/74	HOLE No. 419
WATER DEPTH (ft.) 33	TECH KOS	
COMPLETION DEPTH (ft.) 83½	REGION KADOK	PAGE 2 OF 2

IMPERIAL OIL LIMITED

BEAUFORT SEA DRILLING PROGRAM — 1974

DEPTH (feet)	SOIL DESCRIPTION	SAMPLE	GROUND ICE CONDITION
	SEA BOTTOM		
2			NOT FROZEN
4	SILT -some organics, moist, medium grey (mi)	X	
6			
8			
10		X	
12		X	
14			
16		X	
18			
20		X	
22			
24	-some marine shells	X	
26			
28	SILT - CLAY		
30	-trace of fine sand	X	



ICE THICKNESS (ft.) 5½	DATE DRILLED 12/4/74	HOLE No. 420
WATER DEPTH (ft.) 32½	TECH CME	
COMPLETION DEPTH (ft.) 73½	REGION KADOK	PAGE 1 OF 2

IMPERIAL OIL LIMITED

BEAUFORT SEA DRILLING PROGRAM — 1974

DEPTH (feet)	SOIL DESCRIPTION	SAMPLE	GROUND ICE CONDITION	MOISTURE CONTENT % ● / SPT RESISTANCE ▲ (10 20 30 40 50 60 70) / COMP. STRENGTH T.S.F. ■ (1 2 3)
32	SILT -as above (ml)		NOT FROZEN	
34				
36				
38	SAND (sm)			
40				
42	END OF HOLE			
44	-sand sloughed up inside of hollow stem auger			
46				
48				

eoa	ICE THICKNESS (ft.) 5½	DATE DRILLED 12/4/74	HOLE No. 420
	WATER DEPTH (ft.) 32½	TECH . CME	
	COMPLETION DEPTH (ft.) 73½	REGION KADOK	PAGE 2 OF 2

965.2

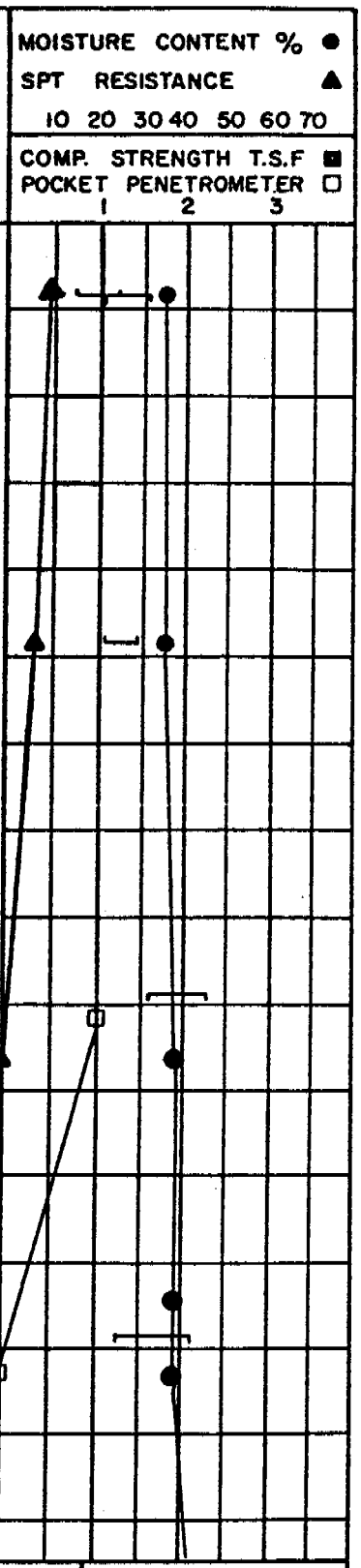
IMPERIAL OIL LIMITED
BEAUFORT SEA DRILLING PROGRAM - 1975

DEPTH (feet)	SOIL DESCRIPTION	SAMPLE	GROUND ICE CONDITION	MOISTURE CONTENT % ● SPT RESISTANCE ▲ 10 20 30 40 50 60 70 COMP. STRENGTH T.S.F. ■ 1 2 3
2	ICE			
4				
6	WATER			
8				
10				
12				
14				
16				
18				
20				
22				
24	CLAY - dark grey brown, soft, trace of shells and organics		UNFROZEN	
26				
28				
30				

ICE THICKNESS (ft.) 5	DATE DRILLED 11/3/75	HOLE Nº B-52-1
WATER DEPTH (ft.) 23	TECHNICIAN J.H.	
COMPLETION DEPTH (ft.) 113	REGION KIGUT	Page 1 of 4

IMPERIAL OIL LIMITED
BEAUFORT SEA DRILLING PROGRAM - 1975

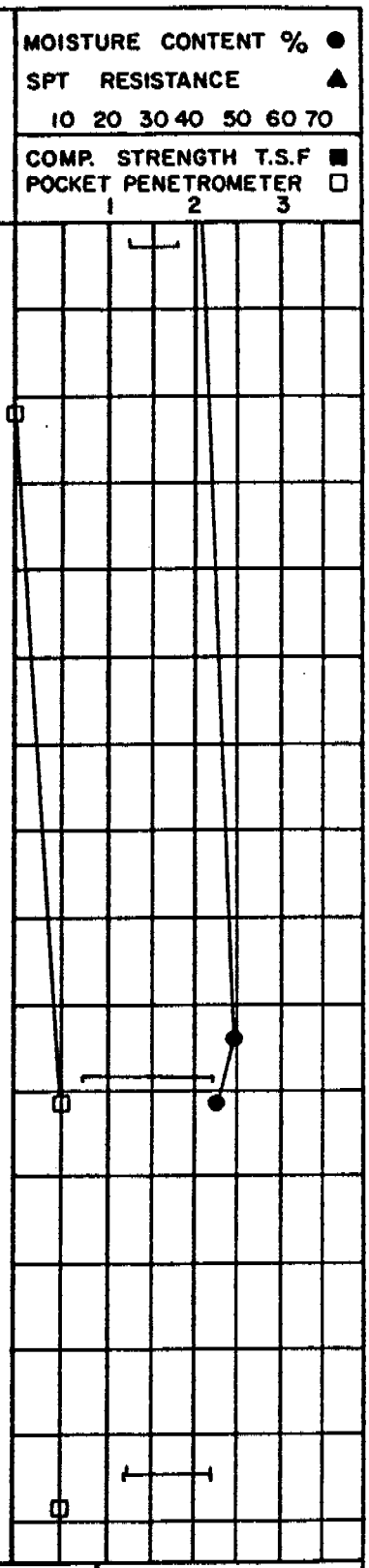
DEPTH (feet)	SOIL DESCRIPTION	SAMPLE	GROUND ICE CONDITION
	CLAY - as above		
32	- low plastic	X	
34	- firm, stiff		
36			
38			
	CLAY SILT		
40		X	
42	- medium, grey brown - low plastic		
44			UNFROZEN
46	- medium plastic, SILT-CLAY		
48			
50	- dark grey - firm - soft, trace of organics	X	
52			
54	- dark grey, silty CLAY - trace of organics, shells		
56	- very soft		
58			
	SILT-CLAY - medium plastic		
60			



ICE THICKNESS (ft.) 5	DATE DRILLED 11/3/75	HOLE Nº
WATER DEPTH (ft.) 23	TECHNICIAN J.H.	B-52-1
COMPLETION DEPTH (ft.) 113	REGION KIGUT	Page 2 of 4

IMPERIAL OIL LIMITED
BEAUFORT SEA DRILLING PROGRAM - 1975

DEPTH (feet)	SOIL DESCRIPTION	SAMPLE	GROUND ICE CONDITION
62			
64	CLAY-SILT - trace of organics, shells - very soft, medium plastic - changing to clay by 79'		
66			
68			
70			UNFROZEN
72			
74			
76			
78	CLAY		
80			
82			
84	- soft		
86			
88			
90	- soft to firm, medium plastic		



ICE THICKNESS (ft.) 5	DATE DRILLED 11/3/75	HOLE Nº.
WATER DEPTH (ft.) 23	TECHNICIAN J.H.	B-52-1
COMPLETION DEPTH (ft.) 113	REGION KIGUT	Page 3 of 4

IMPERIAL OIL LIMITED
BEAUFORT SEA DRILLING PROGRAM - 1975

DEPTH (feet)	SOIL DESCRIPTION	SAMPLE	GROUND ICE CONDITION	MOISTURE CONTENT % ● SPT RESISTANCE ▲ 10 20 30 40 50 60 70 / COMP. STRENGTH T.S.F ■ 1 2 3
	CLAY- as above		NOT FROZEN	
92				
94				
96				
	SAND & SILT- fine, trace of organics			
98				
100				
102	SAND- trace of silt, fine			
104				
	- trace silt			
106				
108				
110	END OF HOLE			
112				
114				

ICE THICKNESS (ft.) 5	DATE DRILLED 11/3/75	HOLE Nº B-52-1
WATER DEPTH (ft.) 23	TECHNICIAN J.H.	
COMPLETION DEPTH (ft.) 113	REGION KIGUT	Page 4 of 4

IMPERIAL OIL LIMITED
BEAUFORT SEA DRILLING PROGRAM – 1975

DEPTH (feet)	SOIL DESCRIPTION	SAMPLE	GROUND ICE CONDITION
2	ICE		
4			
6	WATER		
8			
10			
12			
14			
16			
18			
20			
22			
24	CLAY- grey, silty, some organics - some shells, stiff		UNFROZEN
26			
28			
30			

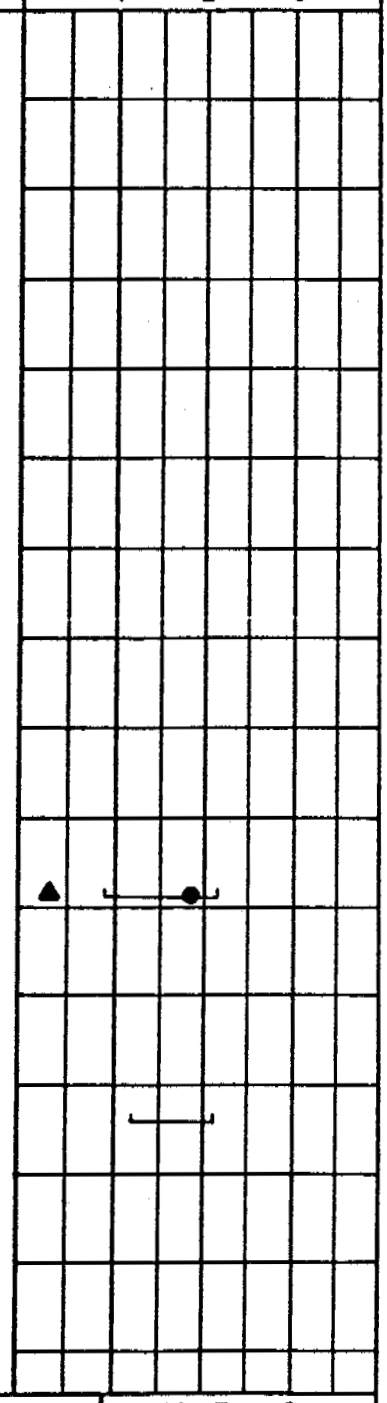
MOISTURE CONTENT % ●
SPT RESISTANCE ▲
10 20 30 40 50 60 70
COMP. STRENGTH T.S.F. ■
POCKET PENETROMETER □
1 2 3

eoa	ICE THICKNESS (ft.) 5	DATE DRILLED 10/3/75	HOLE Nº B-52-5
	WATER DEPTH (ft.) 22.3	TECHNICIAN NRM	
	COMPLETION DEPTH (ft.) 89	REGION KIGUT	Page 1 of 3

IMPERIAL OIL LIMITED
BEAUFORT SEA DRILLING PROGRAM - 1975

DEPTH (feet)	SOIL DESCRIPTION	SAMPLE	GROUND ICE CONDITION
32	CLAY - grey, firm, trace silt - some organics		
34			
36			
38			
40			
42			
44	- soft		
46			UNFROZEN
48			
50	- firm, medium plastic	X	
52			
54			
56			
58			
60			

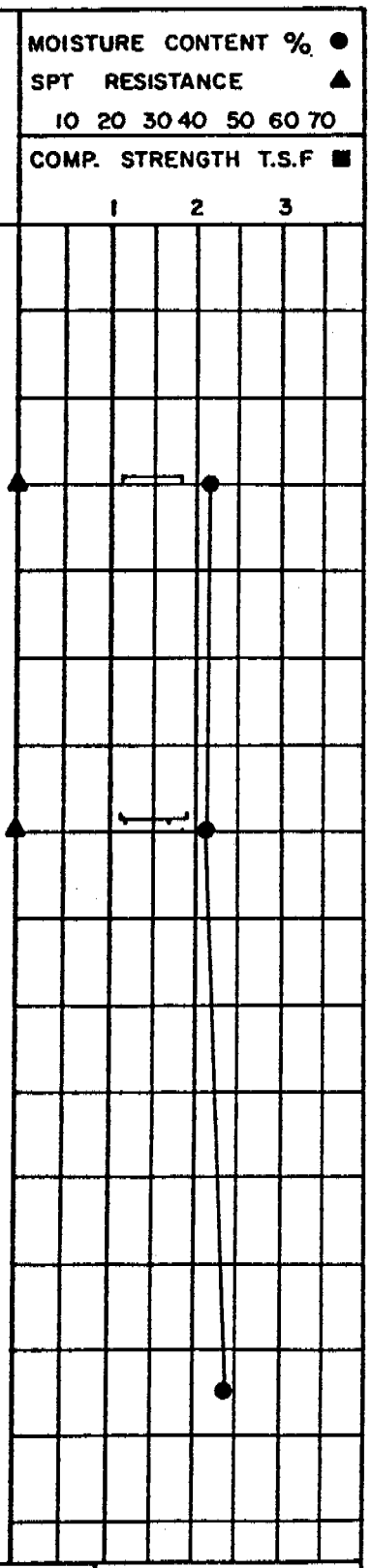
MOISTURE CONTENT % ●
SPT RESISTANCE ▲
10 20 30 40 50 60 70
COMP. STRENGTH T.S.F ■
1 2 3



ICE THICKNESS (ft.) 5	DATE DRILLED 10/3/75	HOLE Nº
WATER DEPTH (ft.) 22.3	TECHNICIAN NRM	B-52-5
COMPLETION DEPTH (ft.) 89	REGION KIGUT	Page 2 of 3

IMPERIAL OIL LIMITED
BEAUFORT SEA DRILLING PROGRAM - 1975

DEPTH (feet)	SOIL DESCRIPTION	SAMPLE	GROUND ICE CONDITION
	CLAY - as above		UNFROZEN
62			
64			
66	- grey, very soft , silty & shells - soft to firm, medium plastic	X	
68			
70			
72	CLAY-SILT - some organics - medium to low plastic		
74		X	
76			
78			
80			
82	SILT - clayey to CLAY-SILT - grey		
84			
86			
88			
90	END OF HOLE		



ICE THICKNESS (ft.) 5	DATE DRILLED 10/3/75	HOLE Nº B-52-5
WATER DEPTH (ft.) 22.3	TECHNICIAN NRM	
COMPLETION DEPTH (ft.) 89	REGION KIGUT	Page 3 of 3

22 - 65 Clay
65 - T Sand.

IMPERIAL OIL LIMITED
BEAUFORT SEA DRILLING PROGRAM - 1975

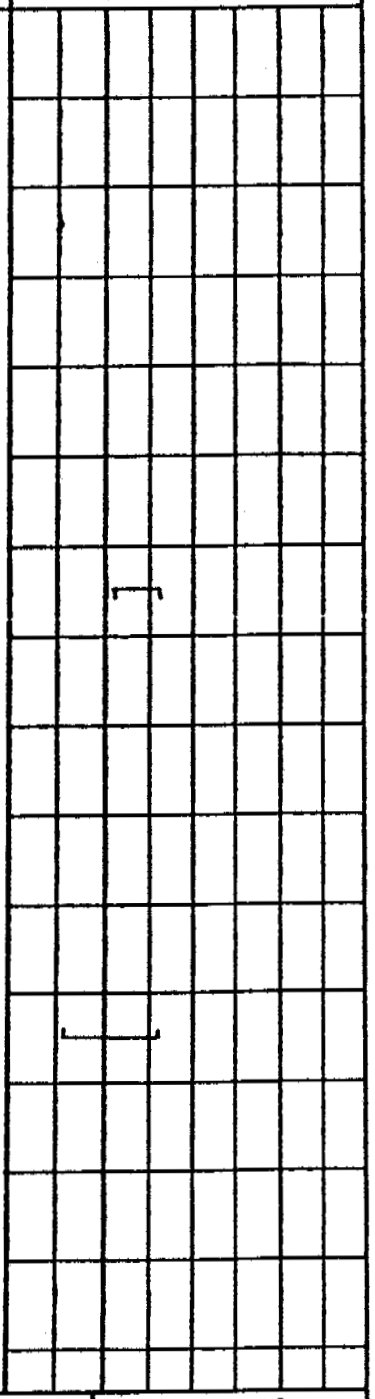
DEPTH (feet)	SOIL DESCRIPTION	SAMPLE	GROUND ICE CONDITION	MOISTURE CONTENT % ● SPT RESISTANCE ▲ 10 20 30 40 50 60 70 COMP. STRENGTH T.S.F. ■ 1 2 3
2	ICE			
4				
6				
8				
10	WATER			
12				
14				
16				
18				
20				
22				
24	CLAY - medium grey - trace shells, soft, low plastic		UNFROZEN	●
26	- firm			
28				
30				

ICE THICKNESS (ft.) 5 1/2	DATE DRILLED 19/3/75	HOLE Nº 1-21-9
WATER DEPTH (ft.) 22	TECHNICIAN JH	
COMPLETION DEPTH (ft.) 77	REGION Ernerk	Page 1 of 3

IMPERIAL OIL LIMITED
BEAUFORT SEA DRILLING PROGRAM - 1975

DEPTH (feet)	SOIL DESCRIPTION	SAMPLE	GROUND ICE CONDITION
32	CLAY - medium grey, trace of shells, low plastic - firm to stiff		
34			
36	- stiff		UNFROZEN
38			
40			
42	- firm, low to medium plastic		
44			
46	- firm		
48			
50	- soft to firm		
52			
54	- very soft to soft		
56			
58	- very soft to soft, low to medium plastic		
60			

MOISTURE CONTENT % ●
SPT RESISTANCE ▲
10 20 30 40 50 60 70
COMP. STRENGTH T.S.F ■
1 2 3

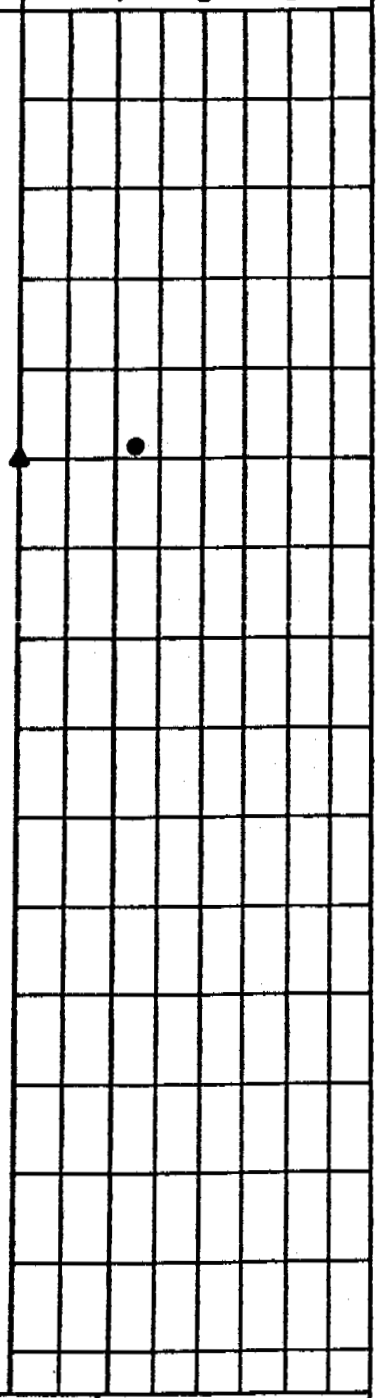


ICE THICKNESS (ft.) 5 1/2	DATE DRILLED 19/3/75	HOLE Nº 1-21-9
WATER DEPTH (ft.) 22	TECHNICIAN JH	
COMPLETION DEPTH (ft.) 77	REGION Ernerk	Page 2 of 3

IMPERIAL OIL LIMITED
BEAUFORT SEA DRILLING PROGRAM - 1975

DEPTH (feet)	SOIL DESCRIPTION	SAMPLE	GROUND ICE CONDITION
	CLAY		
62	- trace of shells - very soft to soft		
64			
66	SAND - dark grey, some silt - trace clay - very loose		UNFROZEN
68			
70	- trace of silt	X	
72			
74			
76			
78	END OF HOLE		

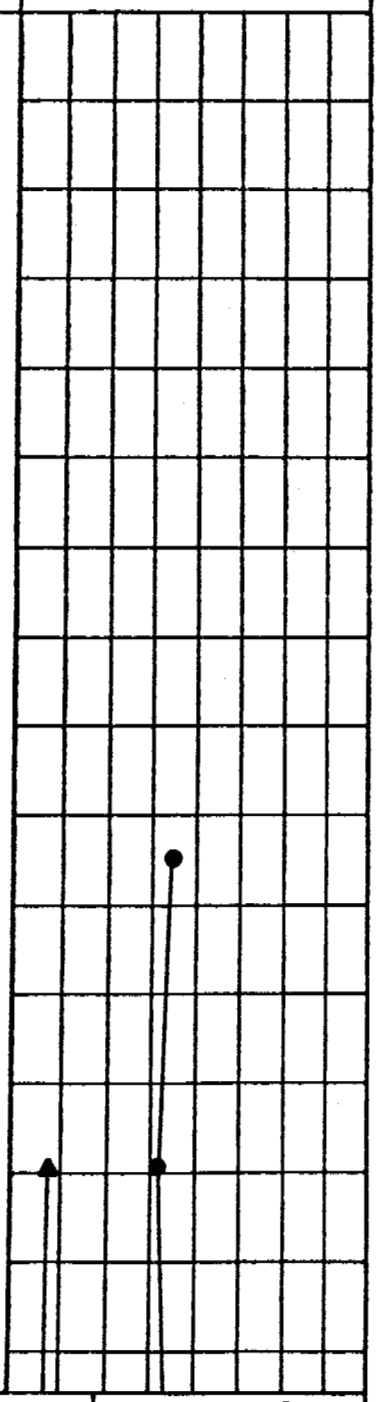
MOISTURE CONTENT % ●
SPT RESISTANCE ▲
10 20 30 40 50 60 70
COMP. STRENGTH T.S.F ■
1 2 3



eba	ICE THICKNESS (ft.) 5 1/2	DATE DRILLED 19/3/75	HOLE Nº
	WATER DEPTH (ft.) 22	TECHNICIAN JH	1-21-9
	COMPLETION DEPTH (ft.) 77	REGION Ernerk	Page 3 of 3

IMPERIAL OIL LIMITED
BEAUFORT SEA DRILLING PROGRAM - 1975

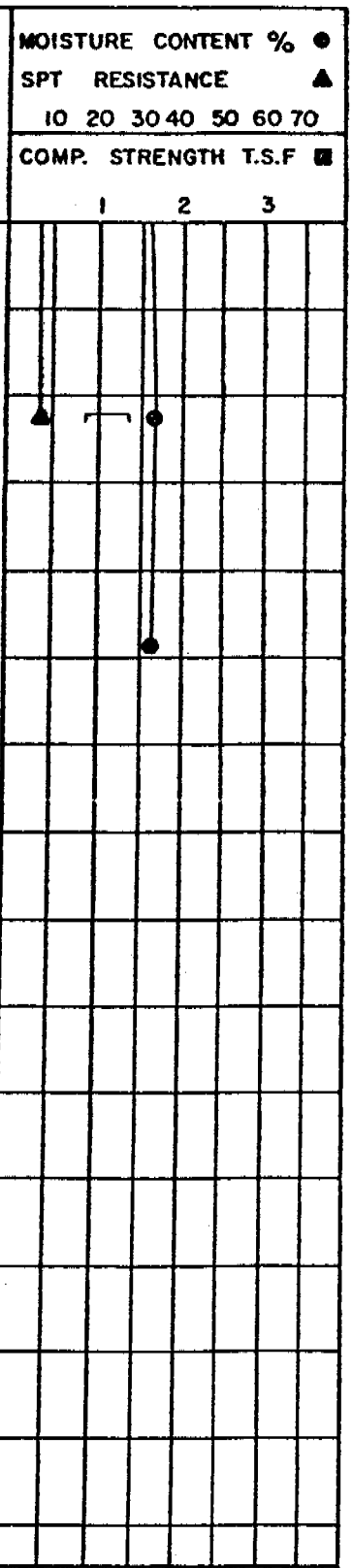
DEPTH (feet)	SOIL DESCRIPTION	SAMPLE	GROUND ICE CONDITION
2	ICE		
4			
6	WATER		
8			
10			
12			
14			
16			
18	CLAY - brownish grey, moist		UNFROZEN
20			
22			
24			
26	- trace of organics - firm	X	
28			
30			



ICE THICKNESS (ft.)	5	DATE DRILLED 9/3/75	HOLE Nº
WATER DEPTH (ft.)	17	TECHNICIAN DF	B-8-1
COMPLETION DEPTH (ft.)	145	REGION Hendrickson	Page 1 of 5

IMPERIAL OIL LIMITED
BEAUFORT SEA DRILLING PROGRAM - 1975

DEPTH (feet)	SOIL DESCRIPTION	SAMPLE	GROUND ICE CONDITION
32	CLAY - grey, moist, firm		
34	- silty - low plastic	X	
36			
38			
40			
42	SAND - fine grained, greyish brown - wet, some silt, angular, - trace of organics		
44			
46			
48	- trace silt		
50			
52			
54	- fine, uniform trace of silt		
56			
58			
60			



ICE THICKNESS (ft.) 5	DATE DRILLED 9/3/75	HOLE Nº
WATER DEPTH (ft.) 17	TECHNICIAN DF	B-8-1
COMPLETION DEPTH (ft.) 145	REGION Hendrickson	Page 2 of 5

IMPERIAL OIL LIMITED
BEAUFORT SEA DRILLING PROGRAM - 1975

DEPTH (feet)	SOIL DESCRIPTION	SAMPLE	GROUND ICE CONDITION	MOISTURE CONTENT % ● SPT RESISTANCE ▲ 10 20 30 40 50 60 70 / COMP. STRENGTH T.S.F ■ 1 2 3
62	SAND - greyish brown, fine grained, trace of silt - very wet, angular		UNFROZEN	
64				
66				
68				
70				
72	- fine trace of silt			
74				
76	SAND and SILT - greyish brown, fine, uniform			
78				
80				
82	- soupy wet			
84				
86				
88				
90				

ICE THICKNESS (ft.) 5	DATE DRILLED 9/3/75	HOLE Nº	
WATER DEPTH (ft.) 17	TECHNICIAN DF	B-8-1	
COMPLETION DEPTH (ft.) 145	REGION Hendrickson	Page 3 of 5	

IMPERIAL OIL LIMITED
BEAUFORT SEA DRILLING PROGRAM - 1975

DEPTH (feet)	SOIL DESCRIPTION	SAMPLE	GROUND ICE CONDITION	MOISTURE CONTENT % ● SPT RESISTANCE ▲ 10 20 30 40 50 60 70 / COMP. STRENGTH T.S.F ■ 1 2 3
92	SAND and SILT - greyish brown, fine grained, soupy wet, - angular		UNFROZEN	
94				
96				
98	- some silt, trace of clay			
100				
102				
104	SAND - yellowish brown			
106				
108				
110				
112	SAND & SILT - greyish brown, some silt, wet			
114				
116				
118				
120				

ICE THICKNESS (ft.) 5	DATE DRILLED 9/3/75	HOLE Nº B-8-1
WATER DEPTH (ft.) 17	TECHNICIAN DF	
COMPLETION DEPTH (ft.) 145	REGION Hendrickson	Page 4 of 5

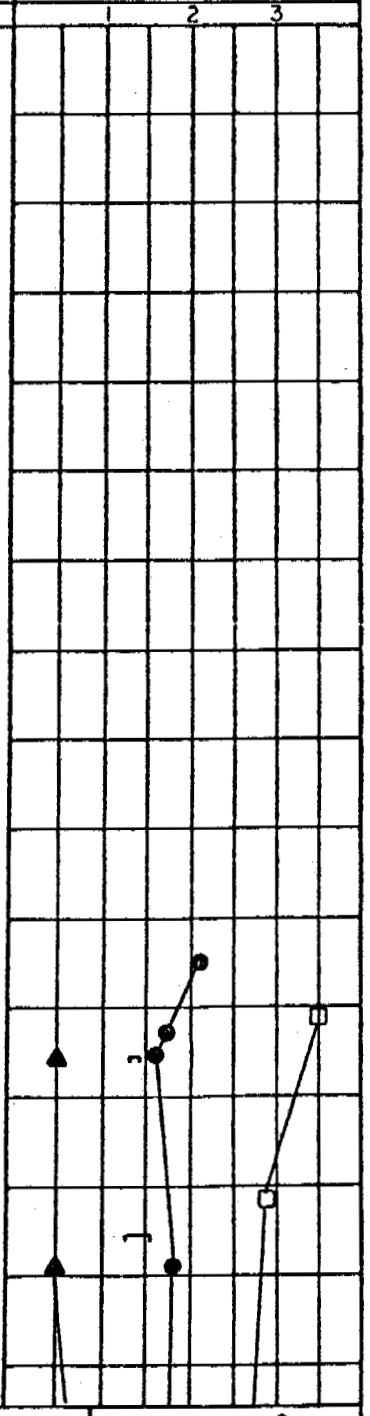
IMPERIAL OIL LIMITED
BEAUFORT SEA DRILLING PROGRAM - 1975

DEPTH (feet)	SOIL DESCRIPTION	SAMPLE	GROUND ICE CONDITION	MOISTURE CONTENT % ● SPT RESISTANCE ▲ 10 20 30 40 50 60 70 / COMP. STRENGTH T.S.F ■ 1 2 3
122	SAND - yellowish brown, wet, - fine to medium grained - trace of gravel up to 1/2"			
124				
126				
128			UNFROZEN	
130				
132				
134	- yellowish brown - wet, angular, fine to medium grained			
136				
138				
140				
142	- fine, uniform			
144				
146	END OF HOLE			
148				

ICE THICKNESS (ft.) 5	DATE DRILLED 9/3/75	HOLE Nº	
WATER DEPTH (ft.) 17	TECHNICIAN DF	B-8-1	
COMPLETION DEPTH (ft.) 145	REGION Hendrickson	Page 5 of 5	

IMPERIAL OIL LIMITED
BEAUFORT SEA DRILLING PROGRAM - 1975

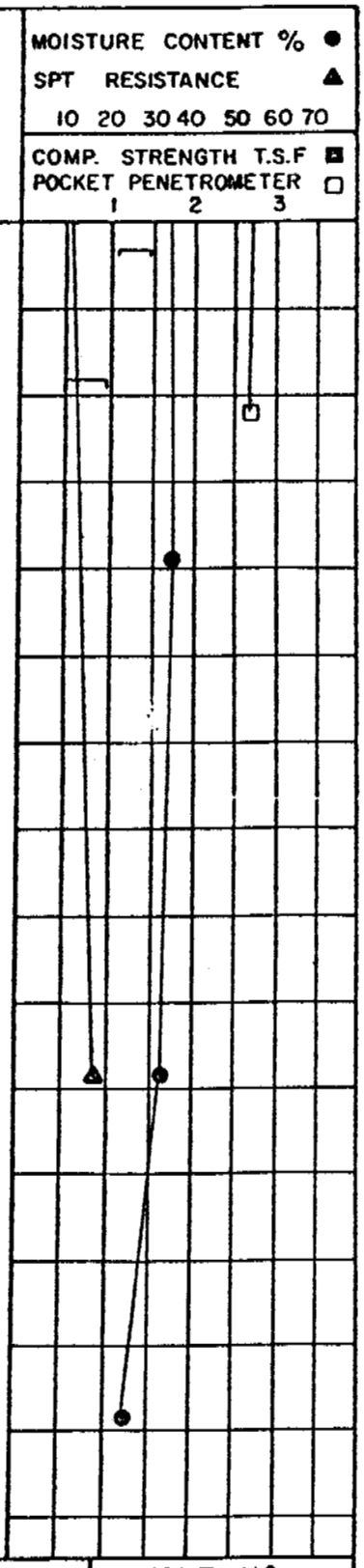
DEPTH (feet)	SOIL DESCRIPTION	SAMPLE	GROUND ICE CONDITION
2	ICE		
4			
6	WATER		
8			
10			
12			
14			
16	SILT - dark grey brown, trace clay - trace shells		
18			UNFROZEN
20			
22	- very stiff, medium plastic		
24	- stiff		
26			
28			
30			



ICE THICKNESS (ft.) 5	DATE DRILLED 17/3/75	HOLE Nº B-8-2
WATER DEPTH (ft.) 15	TECHNICIAN JH	
COMPLETION DEPTH (ft.) 65	REGION Hendrickson	Page 1 of 3

IMPERIAL OIL LIMITED
BEAUFORT SEA DRILLING PROGRAM - 1975

DEPTH (feet)	SOIL DESCRIPTION	SAMPLE	GROUND ICE CONDITION
32	SILT - dark grey brown, trace clay - trace shells and organics - very stiff, low plastic		
34			
36			
38	- trace fine sand pockets - firm, medium to low plastic		
40			
42	SAND - medium grey brown - fine grained, trace of silt and coal		UNFROZEN
44			
46			
48			
50	- saturated, fine sand - trace of silt		
52			
54			
56			possibly sand sloughed up stem
58			
60			



ICE THICKNESS (ft.) 5	DATE DRILLED 17/3/75	HOLE Nº
WATER DEPTH (ft.) 15	TECHNICIAN JH	B-8-2
COMPLETION DEPTH (ft.) 65	REGION Hendrickson	Page 2 of 3

IMPERIAL OIL LIMITED
BEAUFORT SEA DRILLING PROGRAM - 1975

DEPTH (feet)	SOIL DESCRIPTION	SAMPLE	GROUND ICE CONDITION	MOISTURE CONTENT % ● SPT RESISTANCE ▲ 10 20 30 40 50 60 70 / COMP. STRENGTH T.S.F ■ 1 2 3
62	SAND - medium grey brown - fine grained, trace of silt - poorly graded		UNFROZEN	
64				
66	END OF HOLE			
68				

ICE THICKNESS (ft.) 5	DATE DRILLED 17/3/75	HOLE Nº
WATER DEPTH (ft.) 15	TECHNICIAN JH	B-8-2
COMPLETION DEPTH (ft.) 65	REGION Hendrickson	Page 3 of 3

IMPERIAL OIL LIMITED
BEAUFORT SEA DRILLING PROGRAM - 1975

DEPTH (feet)	SOIL DESCRIPTION	SAMPLE	GROUND ICE CONDITION
2	ICE		
4			
6	WATER		
8			
10			
12			
14			
16	SILT - medium to dark grey brown, some clay, trace of shells and organics - soft to firm		UNFROZEN
18			
20			
22			
24			
26	CLAY-SILT - low plastic		
28			
30			

MOISTURE CONTENT % ●
SPT RESISTANCE ▲
10 20 30 40 50 60 70
COMP. STRENGTH T.S.F. ■
1 2 3

ICE THICKNESS (ft.) 6	DATE DRILLED 18/3/75	HOLE Nº B-8-3
WATER DEPTH (ft.) 16	TECHNICIAN JH	
COMPLETION DEPTH (ft.) 73	REGION Hendrickson	Page 1 of 3

IMPERIAL OIL LIMITED
BEAUFORT SEA DRILLING PROGRAM - 1975

DEPTH (feet)	SOIL DESCRIPTION	SAMPLE	GROUND ICE CONDITION
	CLAY-SILT		
32	-medium to dark grey brown, shells and organics		
	- soft to firm, medium plastic		
34	- 10" long ice inclusions		
	trace of sand		ICE LENSE (vertical)
36	- vertical lense		
38	SILT - dark grey brown, some fine brown sand, trace clay		
40			
42	SAND - medium brown - some silt, well graded		sank 16"
44			
46			
48			
50	- mostly fine grained with trace fine gravel		UNFROZEN
52			
54	- fine grained, trace of silt		
56			
58			
60			

MOISTURE CONTENT % ●
SPT RESISTANCE ▲
10 20 30 40 50 60 70
COMP. STRENGTH T.S.F ⊠
1 2 3

ICE THICKNESS (ft.)	6	DATE DRILLED 18/3/75	HOLE Nº
WATER DEPTH (ft.)	16	TECHNICIAN JH	B-8-3
COMPLETION DEPTH (ft.)	73	REGION Hendrickson	Page 2 of 3

IMPERIAL OIL LIMITED
BEAUFORT SEA DRILLING PROGRAM - 1975

DEPTH (feet)	SOIL DESCRIPTION	SAMPLE	GROUND ICE CONDITION	MOISTURE CONTENT % ● SPT RESISTANCE ▲ 10 20 30 40 50 60 70 COMP. STRENGTH T.S.F ▣ 1 2 3
62	SAND - medium brown - fine grained, trace silt		UNFROZEN	
64				
66				
68				
70				
72				
74	END OF HOLE			

ICE THICKNESS (ft.) 6	DATE DRILLED 18/3/75	HOLE Nº B-8-3
WATER DEPTH (ft.) 16	TECHNICIAN JH	
COMPLETION DEPTH (ft.) 73	REGION Hendrickson	Page 3 of 3

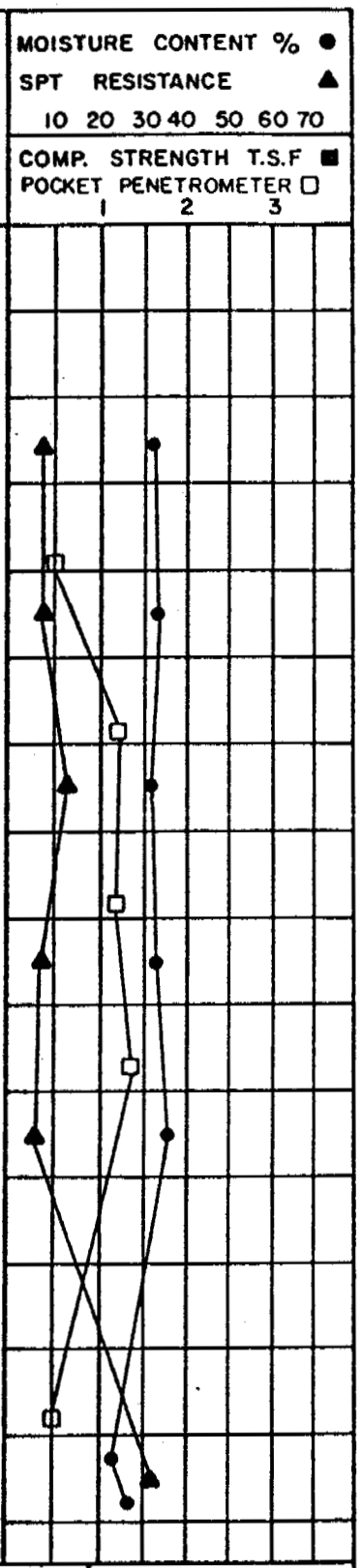
IMPERIAL OIL LIMITED
BEAUFORT SEA DRILLING PROGRAM - 1975

DEPTH (feet)	SOIL DESCRIPTION	SAMPLE	GROUND ICE CONDITION	MOISTURE CONTENT % ● / SPT RESISTANCE ▲ (10 20 30 40 50 60 70) / COMP. STRENGTH T.S.F. ■ (1 2 3)
2	ICE			
4				
6	WATER			
8				
10				
12				
14				
16				
18				
20				
22				
24				
26				
28	CLAY - silty to some silt - brown-grey - low plastic		NOT FROZEN	
30				

eba	ICE THICKNESS (ft.) 5	DATE DRILLED 4/3/75	HOLE Nº L-30-1
	WATER DEPTH (ft.) 27	TECHNICIAN DF	
	COMPLETION DEPTH (ft.) 129	REGION Arnak (L-30)	Page 1 of 5

IMPERIAL OIL LIMITED
BEAUFORT SEA DRILLING PROGRAM - 1975

DEPTH (feet)	SOIL DESCRIPTION	SAMPLE	GROUND ICE CONDITION
	CLAY - continued		
32			
34			
	SILT-CLAY		
36	- some fine sand layers, stiff		
38	SILT		
	- silty fine sand layers		
40			
42	CLAY		
	- layers of clay and silty clay		
44			
46			
	- firm to stiff low plastic		
48			
	SILT-CLAY		
50			
	- firm		
52			
54	CLAY		
56			
58	- some silt, trace of sand - sand layers to 1 ft. thick		NOT FROZEN
60			

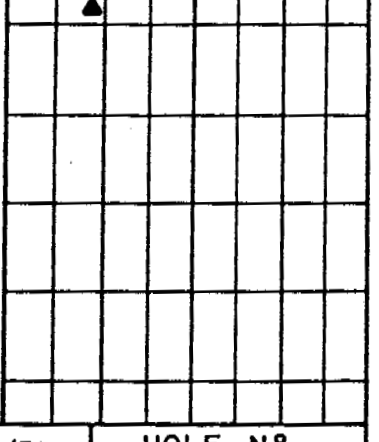


ICE THICKNESS (ft.) 5	DATE DRILLED 4/3/75	HOLE Nº
WATER DEPTH (ft.) 27	TECHNICIAN DF	L-30-1
COMPLETION DEPTH (ft.) 129	REGION Arnak (L-30)	Page 2 of 5

IMPERIAL OIL LIMITED
BEAUFORT SEA DRILLING PROGRAM - 1975

DEPTH (feet)	SOIL DESCRIPTION	SAMPLE	GROUND ICE CONDITION
62	CLAY - some clay, grey, trace of fine sand		
64			
66			NOT
68			FROZEN
70			
72			
74	SAND - fine, some silt laminae		
76			
78			
80			
82	- fine, trace of silt yellowish-brown	X	
84	SAND-SILT?		
86			
88	SAND		
90			

MOISTURE CONTENT % ●
SPT RESISTANCE ▲
10 20 30 40 50 60 70
COMP. STRENGTH T.S.F ■
1 2 3



ICE THICKNESS (ft.) 5	DATE DRILLED 4/3/75	HOLE Nº L-30-1
WATER DEPTH (ft.) 27	TECHNICIAN DF	
COMPLETION DEPTH (ft.) 129	REGION Arnak (L-30)	Page 3 of 5

IMPERIAL OIL LIMITED
BEAUFORT SEA DRILLING PROGRAM - 1975

DEPTH (feet)	SOIL DESCRIPTION	SAMPLE	GROUND ICE CONDITION	MOISTURE CONTENT % ● / SPT RESISTANCE ▲ (10 20 30 40 50 60 70) / COMP. STRENGTH T.S.F ■ (1 2 3)
	SAND - same			
92				
94				
96				
98				
100	- fine to medium sand		NOT FROZEN	
102				
104				
106				
108				
110				
112				
114				
116				
118				
120				

ICE THICKNESS (ft.) 5	DATE DRILLED 4/3/75	HOLE Nº L-30-1	
WATER DEPTH (ft.) 27	TECHNICIAN DF		
COMPLETION DEPTH (ft.) 129	REGION Arnak (L-30)	Page 4 of 5	

IMPERIAL OIL LIMITED
BEAUFORT SEA DRILLING PROGRAM - 1975

DEPTH (feet)	SOIL DESCRIPTION	SAMPLE	GROUND ICE CONDITION	MOISTURE CONTENT % ● SPT RESISTANCE ▲ 10 20 30 40 50 60 70 / COMP. STRENGTH T.S.F ■ 1 2 3
122	SAND - fine to medium			
124			NOT FROZEN	
126				
128				
130	END OF HOLE			

ICE THICKNESS (ft.) 5	DATE DRILLED 4/3/75	HOLE Nº L-30-1
WATER DEPTH (ft.) 27	TECHNICIAN DF	
COMPLETION DEPTH (ft.) 129	REGION Arnak (L-30)	Page 5 of 5

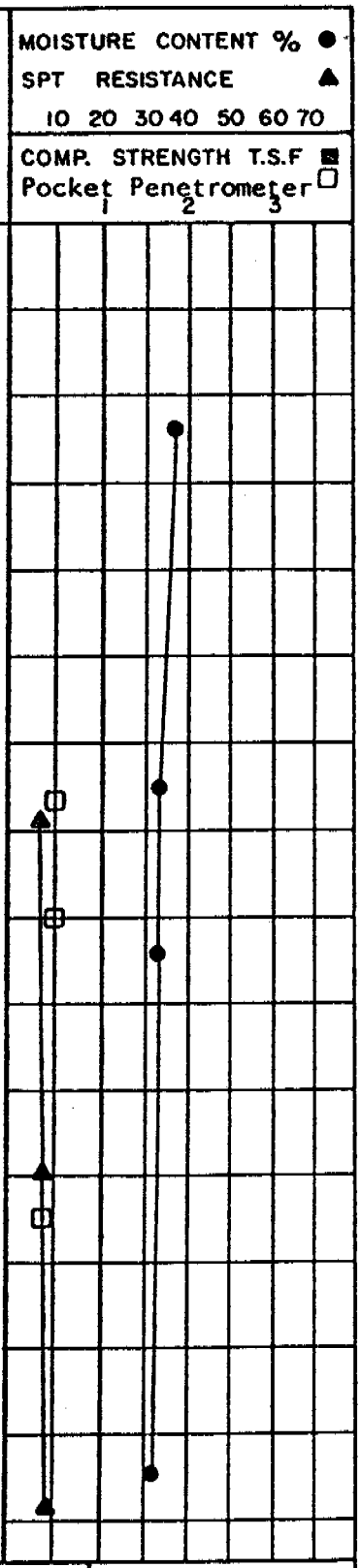
IMPERIAL OIL LIMITED
BEAUFORT SEA DRILLING PROGRAM – 1975

DEPTH (feet)	SOIL DESCRIPTION	SAMPLE	GROUND ICE CONDITION	MOISTURE CONTENT % ● / SPT RESISTANCE ▲ (10 20 30 40 50 60 70) / COMP. STRENGTH T.S.F. ■ (1 2 3)
	ICE			
2				
4				
6	WATER			
8				
10				
12				
14				
16				
18				
20				
22				
24				
26				
28				
30	CLAY - silty - greyish brown			

ICE THICKNESS (ft.) 5	DATE DRILLED 27/2/75	HOLE Nº L-30-6
WATER DEPTH (ft.) 29	TECHNICIAN DF	
COMPLETION DEPTH (ft.) 113	REGION Arnak (L-30)	Page 1 of 4

IMPERIAL OIL LIMITED
BEAUFORT SEA DRILLING PROGRAM - 1975

DEPTH (feet)	SOIL DESCRIPTION	SAMPLE	GROUND ICE CONDITION
32	CLAY (continued) - silty - greyish brown - wet		
34			
36			
38			
40			
42			
44		X	
46			
48			UNFROZEN
50	- some silt. - grey - moist		
52		X	
54			
56			
58	- some fine sand - grey, wet - 1 foot sand layer		
60		X	



ICE THICKNESS (ft.) 5	DATE DRILLED 27/2/75	HOLE Nº L-30-6
WATER DEPTH (ft.) 29	TECHNICIAN DF	
COMPLETION DEPTH (ft.) 113	REGION Arnak (L-30)	Page 2 of 4

IMPERIAL OIL LIMITED
BEAUFORT SEA DRILLING PROGRAM - 1975

DEPTH (feet)	SOIL DESCRIPTION	SAMPLE	GROUND ICE CONDITION	MOISTURE CONTENT % ● SPT RESISTANCE ▲ 10 20 30 40 50 60 70 / COMP. STRENGTH T.S.F ■ Pocket Penetrometer □ 1 2 3
62	CLAY (continued) - trace of fine sand - grey - wet			□
64				
66				
68				
70	SAND - fine - trace of silt - trace of gravel - greyish brown			
72				
74		X		
76				
78			UNFROZEN	
80	- trace of silt - angular, wet - greyish brown			
82		/		▲
84				
86				
88				
90	- trace of silt			

ICE THICKNESS (ft.) 5	DATE DRILLED 27/2/75	HOLE Nº
WATER DEPTH (ft.) 29	TECHNICIAN DF	L-30-6
COMPLETION DEPTH (ft.) 113	REGION Arnak (L-30)	Page 3 of 4

IMPERIAL OIL LIMITED
BEAUFORT SEA DRILLING PROGRAM - 1975

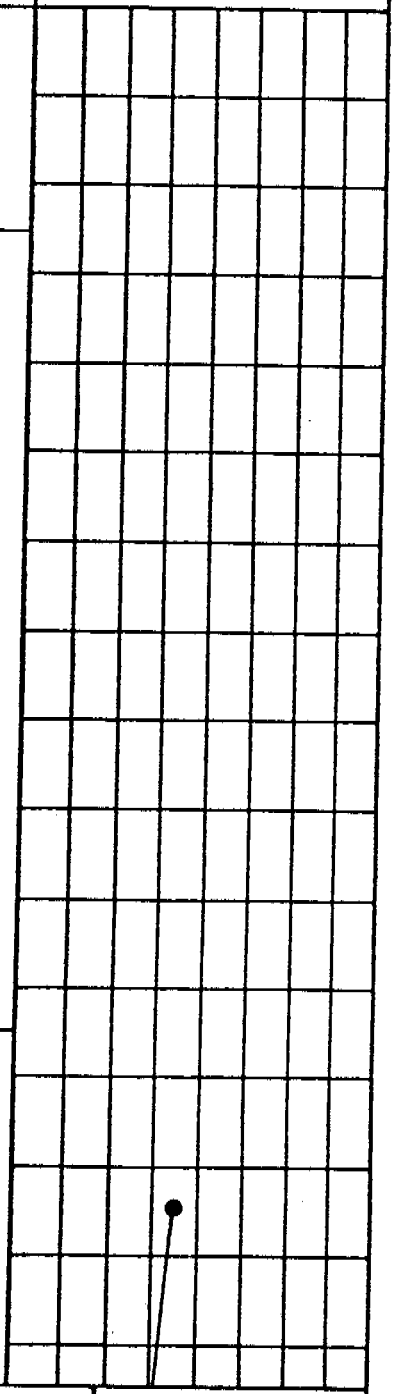
DEPTH (feet)	SOIL DESCRIPTION	SAMPLE	GROUND ICE CONDITION	MOISTURE CONTENT % ● / SPT RESISTANCE ▲ (10 20 30 40 50 60 70) / COMP. STRENGTH T.S.F ■ (1 2 3)
	SAND (continued)			
92	- trace of silt - greyish brown			
94	- fine grained - trace of silt - greyish brown			
96	- angular, wet			
98				
100				
102	- thin layers of silt and fine sand.			
104				
106	- medium grained - traces of silt - angular, greyish brown			
108				
110				
112				
114	END OF HOLE (SAND SLOUGHED UP INSIDE CASING)			
116				
118				
120				

ICE THICKNESS (ft.) 5	DATE DRILLED 27/2/75	HOLE Nº L-30-6
WATER DEPTH (ft.) 29	TECHNICIAN DF	
COMPLETION DEPTH (ft.) 113	REGION Arnak (L-30)	Page 4 of 4

IMPERIAL OIL LIMITED
BEAUFORT SEA DRILLING PROGRAM – 1975

DEPTH (feet)	SOIL DESCRIPTION	SAMPLE	GROUND ICE CONDITION
2	ICE		
4			
6	WATER		
8			
10			
12			
14			
16			
18			
20			
22			
24	CLAY - silty - greyish brown - wet - low plastic		UNFROZEN
26			
28			
30	- greyish brown, moist		

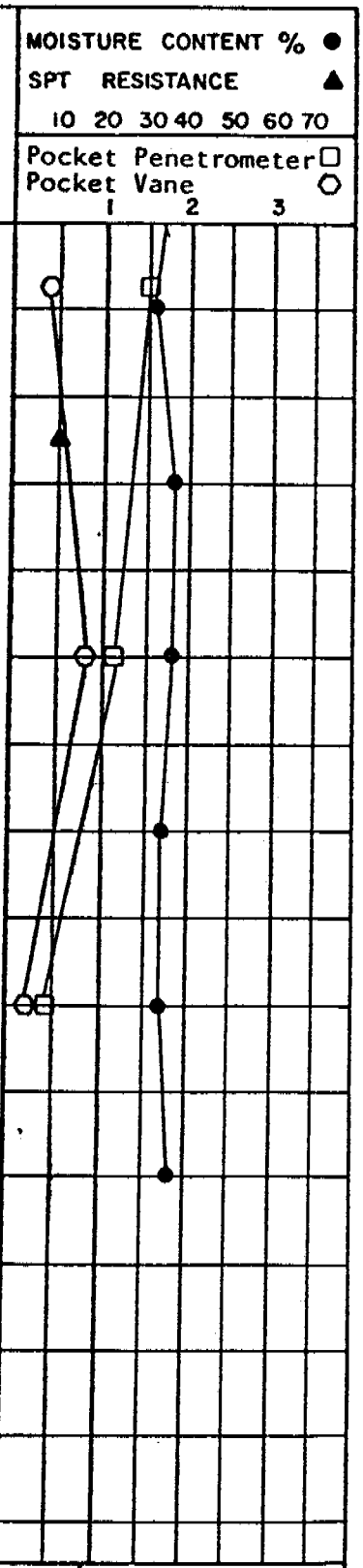
MOISTURE CONTENT % ●
SPT RESISTANCE ▲
10 20 30 40 50 60 70
COMP. STRENGTH T.S.F. ■
1 2 3



ICE THICKNESS (ft.) 5.0	DATE DRILLED 28/2/75	HOLE Nº L-30-7
WATER DEPTH (ft.) 23.0	TECHNICIAN DF	
COMPLETION DEPTH (ft.) 113	REGION Arnak (L-30)	Page 1 of 4

IMPERIAL OIL LIMITED
BEAUFORT SEA DRILLING PROGRAM - 1975

DEPTH (feet)	SOIL DESCRIPTION	SAMPLE	GROUND ICE CONDITION
	CLAY- (Continued)		
32			
34	- greyish brown - silty - wet		
36	- low plastic		
38			
40			
42			
44	- moist		
46			
48			
50	- grey - wet - soft		
52			
54	SAND - fine, angular - trace of silt - greyish brown - wet		
56			
58			
60	- fine - trace of silt - yellowish brown wet		



ICE THICKNESS (ft.) 5	DATE DRILLED 28/2/75	HOLE Nº
WATER DEPTH (ft.) 23	TECHNICIAN DF	L-30-7
COMPLETION DEPTH (ft.) 113	REGION Arnak (L-30)	Page 2 of 4

IMPERIAL OIL LIMITED
BEAUFORT SEA DRILLING PROGRAM - 1975

DEPTH (feet)	SOIL DESCRIPTION	SAMPLE	GROUND ICE CONDITION	MOISTURE CONTENT % ● SPT RESISTANCE ▲ 10 20 30 40 50 60 70 / COMP. STRENGTH T.S.F ■ 1 2 3
	SAND (continued)			
62	- medium - trace of silt - yellowish brown			
64	- wet, angular			
66	- fine - some silt - grey, angular			
68	- wet			
70	SILT - dark grey - wet			●
72	- soft			
74				
76				
78				
80			UNFROZEN	
82	SAND - some silt - grey - angular			
84				
86	- fine to medium - trace of silt - greyish brown			
88	- angular, wet			
90				

ICE THICKNESS (ft.) 5.0	DATE DRILLED 28/2/75	HOLE Nº L-30-7
WATER DEPTH (ft.) 23.0	TECHNICIAN DF	
COMPLETION DEPTH (ft.) 113	REGION Arnak (L-30)	Page 3 of 4

IMPERIAL OIL LIMITED
BEAUFORT SEA DRILLING PROGRAM - 1975

DEPTH (feet)	SOIL DESCRIPTION	SAMPLE	GROUND ICE CONDITION	MOISTURE CONTENT % ● SPT RESISTANCE ▲ 10 20 30 40 50 60 70 / COMP. STRENGTH T.S.F ■ 1 2 3
	SAND (continued)			
92	- medium			
	- trace of silt			
	- yellowish brown			
94	- angular, wet			
96				
98	- fine to medium			
100				
102			UNFROZEN	
104				
106				
108				
110	- medium			
	- trace of silt			
	- yellowish brown			
112	- angular			
114	END OF HOLE			
116				
118				
120				

ICE THICKNESS (ft.) 5.0	DATE DRILLED 28/2/75	HOLE Nº L-30-7
WATER DEPTH (ft.) 23.0	TECHNICIAN DF	
COMPLETION DEPTH (ft.) 113	REGION Arnak (L-30)	Page 4 of 4

IMPERIAL OIL LIMITED
BEAUFORT SEA DRILLING PROGRAM – 1975

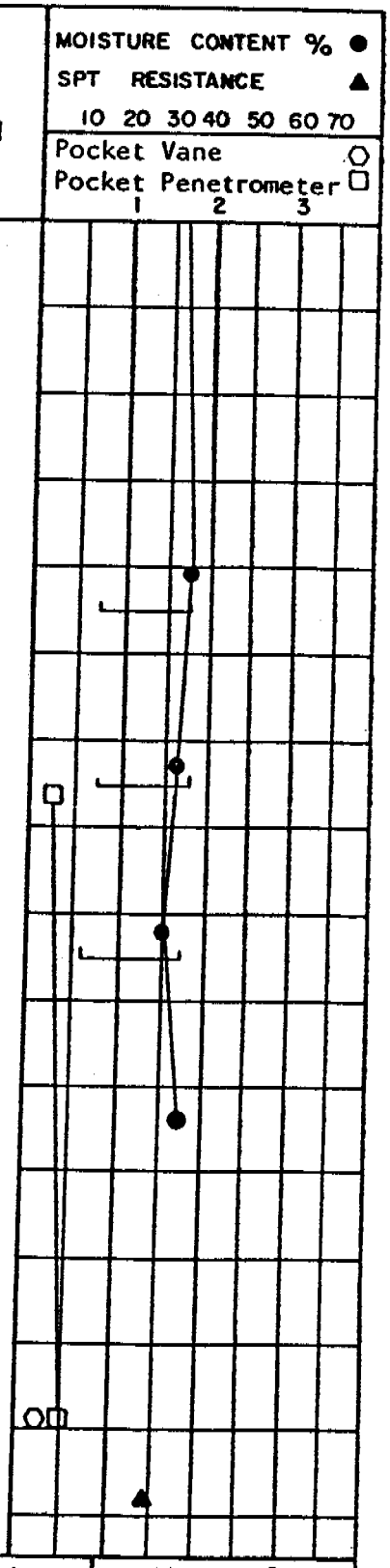
DEPTH (feet)	SOIL DESCRIPTION	SAMPLE	GROUND ICE CONDITION
	ICE		
2			
4			
6	WATER		
8			
10			
12			
14			
16			
18			
20			
22			
24			
26			
28	CLAY - silty - greyish brown - low plastic - wet		UNFROZEN
30			

MOISTURE CONTENT % ●
SPT RESISTANCE ▲
10 20 30 40 50 60 70
COMP. STRENGTH T.S.F. ■
Pocket Penetrometer □
1 2 3

ICE THICKNESS (ft.) 5.5	DATE DRILLED 2/3/75	HOLE Nº L-30-8
WATER DEPTH (ft.) 27.0	TECHNICIAN DF	
COMPLETION DEPTH (ft.) 121	REGION Arnak (L-30)	Page 1 of 4

IMPERIAL OIL LIMITED
BEAUFORT SEA DRILLING PROGRAM - 1975

DEPTH (feet)	SOIL DESCRIPTION	SAMPLE	GROUND ICE CONDITION
	CLAY (continued)		
32	- silty		
	- grey brown		
34	- medium plastic		
	- wet		
36			
38			
40			
42			
44			
46	- greyish brown		
	- low plastic		
48			
50	SILT		
	- some clay		
52	- greyish brown		
	- wet		
54			
56			
58			
60	SAND - fine, silty		
	SILT (continued)		



ICE THICKNESS (ft.) 5.5	DATE DRILLED 2/3/75	HOLE Nº L-30-8
WATER DEPTH (ft.) 27.0	TECHNICIAN DF	
COMPLETION DEPTH (ft.) 121	REGION Arnak (L-30)	Page 2 of 4

IMPERIAL OIL LIMITED
BEAUFORT SEA DRILLING PROGRAM - 1975

DEPTH (feet)	SOIL DESCRIPTION	SAMPLE	GROUND ICE CONDITION
	SILT (continued) - some clay , trace of sand - grey - wet - firm		
62			
64			
66	- trace of clay - trace of sand - soft, wet		
68			
70	- traces of sand and clay - grey - wet		
72			
74	SAND - fine - trace of silt - yellowish brown - angular - very wet		UNFROZEN
76			
78			
80			
82			
84			
86			
88		X	sand sloughed up inside casing. Not representative
90			

MOISTURE CONTENT % ●●
SPT RESISTANCE ▲
10 20 30 40 50 60 70
COMP. STRENGTH T.S.F ■
1 2 3

ICE THICKNESS (ft.) 5.5	DATE DRILLED 2/3/75	HOLE Nº L-30-8
WATER DEPTH (ft.) 27.0	TECHNICIAN DF	
COMPLETION DEPTH (ft.) 121	REGION Arnak (L-30)	Page 3 of 4

IMPERIAL OIL LIMITED
BEAUFORT SEA DRILLING PROGRAM - 1975

DEPTH (feet)	SOIL DESCRIPTION	SAMPLE	GROUND ICE CONDITION	MOISTURE CONTENT % ● SPT RESISTANCE ▲ 10 20 30 40 50 60 70 / COMP. STRENGTH T.S.F ■ 1 2 3
	SAND (continued)			
92	- fine - trace of silt - yellowish brown - angular, wet			
94				
96				
98				
100				
102				
104				
106	- fine - trace of silt - yellowish brown - angular, wet			
108			UNFROZEN	
110				
112				
114				
116				
118				
120	END OF HOLE (PLUGGED UP)			

eoa	ICE THICKNESS (ft.) 5.5	DATE DRILLED 2/3/75	HOLE N°
	WATER DEPTH (ft.) 27.0	TECHNICIAN DF	L-30-8
	COMPLETION DEPTH (ft.) 121	REGION Arnak (L-30)	Page 4 of 4

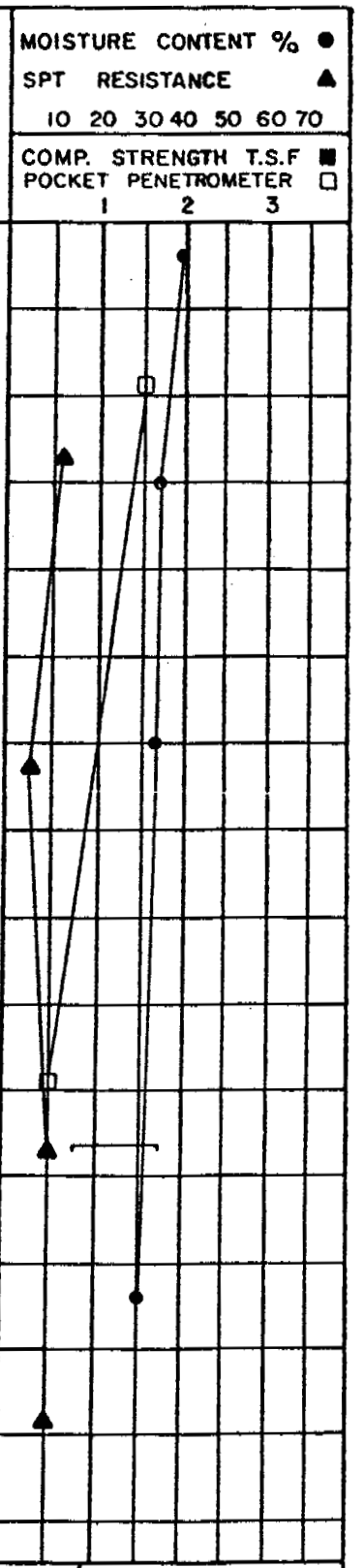
IMPERIAL OIL LIMITED
BEAUFORT SEA DRILLING PROGRAM – 1975

SOIL DESCRIPTION	SAMPLE	GROUND ICE CONDITION	MOISTURE CONTENT % ● SPT RESISTANCE ▲ 10 20 30 40 50 60 70 / COMP. STRENGTH T.S.F. ■ 1 2 3
ICE			
WATER			
CLAY - silty, grey-brown trace of sand low plastic		NOT FROZEN	

ICE THICKNESS (ft.) 5	DATE DRILLED 3/3/75	HOLE Nº L-30-9
WATER DEPTH (ft.) 28	TECHNICIAN DF	
COMPLETION DEPTH (ft.) 113	REGION Arnak (L-30)	Page 1 of 4

IMPERIAL OIL LIMITED
BEAUFORT SEA DRILLING PROGRAM - 1975

DEPTH (feet)	SOIL DESCRIPTION	SAMPLE	GROUND ICE CONDITION
32	CLAY - silty, grey		
34			
	- stiff		
36			
38	- silty, low to medium plastic		NOT FROZEN
40			
42	- thinly bedded layers of clay and silty clay, firm		
44			
46			
48			
50	CLAY-SILT - some organics - stiff		
52			
54	CLAY - silty, grey, wet low plastic		
56			
58			
60			



ICE THICKNESS (ft.) 5	DATE DRILLED 3/3/75	HOLE Nº
WATER DEPTH (ft.) 28	TECHNICIAN DF	L-30-9
COMPLETION DEPTH (ft.) 113	REGION Arnak (L-30)	Page 2 of 4

IMPERIAL OIL LIMITED
BEAUFORT SEA DRILLING PROGRAM - 1975

DEPTH (feet)	SOIL DESCRIPTION	SAMPLE	GROUND ICE CONDITION	MOISTURE CONTENT % ● SPT RESISTANCE ▲ 10 20 30 40 50 60 70 COMP. STRENGTH T.S.F ■ 1 2 3
	CLAY - same as above			
62				
64	- thinly bedded silt and sand			
66	SAND - trace of silt, fine angular, grey		NOT FROZEN	
68				
70				
72				
74	trace of silt brown			
76				
78				
80				
82				
84				
86				
88				
90	- thin layer of clayey silt	☒		▲

ICE THICKNESS (ft.) 5	DATE DRILLED 3/3/75	HOLE Nº L-30-9
WATER DEPTH (ft.) 28	TECHNICIAN DF	
COMPLETION DEPTH (ft.) 113	REGION Arnak (L-30)	Page 3 of 4

IMPERIAL OIL LIMITED
BEAUFORT SEA DRILLING PROGRAM - 1975

DEPTH (feet)	SOIL DESCRIPTION	SAMPLE	GROUND ICE CONDITION	MOISTURE CONTENT % ● SPT RESISTANCE ▲ 10 20 30 40 50 60 70 / COMP. STRENGTH T.S.F ■ 1 2 3
	SAND - as above			
92	- trace of silt, thin layer of clayey silt, fine grained		NOT FROZEN	
94				
96				
98				
100				
102				
104	- fine to medium, trace of coal			
106				
108				
110				
112				
114	END OF HOLE			
116				
118				
120				

eoa	ICE THICKNESS (ft.) 5	DATE DRILLED 3/3/75	HOLE Nº L-30-9
	WATER DEPTH (ft.) 28	TECHNICIAN DF	
	COMPLETION DEPTH (ft.) 113	REGION Arnak (L-30)	Page 4 of 4

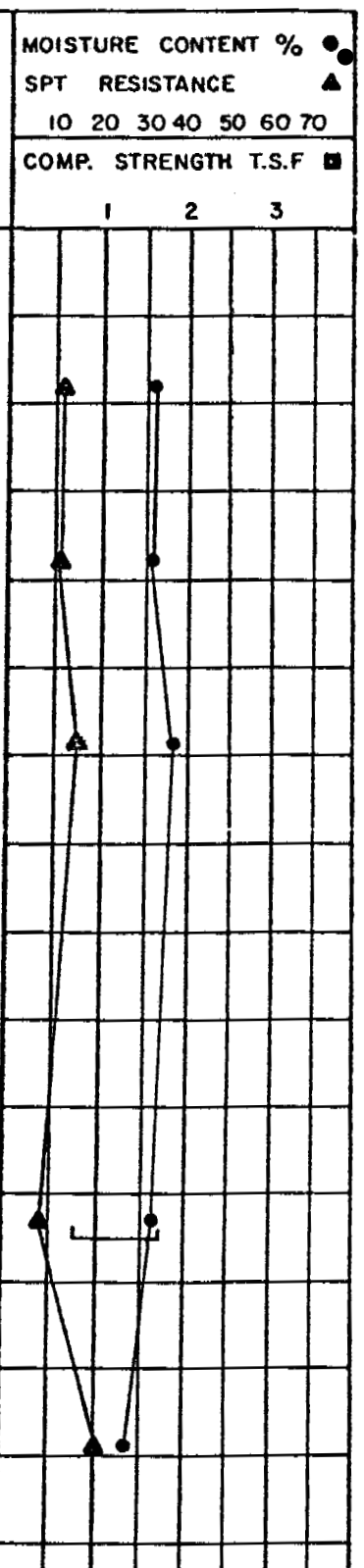
IMPERIAL OIL LIMITED
BEAUFORT SEA DRILLING PROGRAM - 1975

DEPTH (feet)	SOIL DESCRIPTION	SAMPLE	GROUND ICE CONDITION	MOISTURE CONTENT % ● / SPT RESISTANCE ▲ (10 20 30 40 50 60 70) / COMP. STRENGTH T.S.F. ■ (1 2 3)
2	ICE			
4				
6	WATER			
8				
10				
12				
14				
16				
18				
20				
22				
24				
26				
28	CLAY - silty, grey		NOT FROZEN	
30				

ICE THICKNESS (ft.) 5	DATE DRILLED 5/3/75	HOLE Nº L-30-10
WATER DEPTH (ft.) 27	TECHNICIAN DF	
COMPLETION DEPTH (ft.) 81	REGION Arnak (L-30)	Page 1 of 3

IMPERIAL OIL LIMITED
BEAUFORT SEA DRILLING PROGRAM - 1975

DEPTH (feet)	SOIL DESCRIPTION	SAMPLE	GROUND ICE CONDITION
32	CLAY - silty, grey		
34		X	NOT FROZEN
36			
38	- trace of fine sand stiff	X	
40			
42	- silty, grey, wet - stiff to very stiff - low plastic	X	
44			
46			
48			
50			
52	-firm to stiff -medium plastic	X	
54			
56			
58	SAND - silty, fine, compact	X	
60			



eoa	ICE THICKNESS (ft.) 5	DATE DRILLED 5/3/75	HOLE Nº
	WATER DEPTH (ft.) 27	TECHNICIAN DF	L-30-10
	COMPLETION DEPTH (ft.) 81	REGION Arnak (L-30)	Page 2 of 3

IMPERIAL OIL LIMITED
BEAUFORT SEA DRILLING PROGRAM - 1975

DEPTH (feet)	SOIL DESCRIPTION Continued	SAMPLE	GROUND ICE CONDITION	MOISTURE CONTENT % ● SPT RESISTANCE ▲ 10 20 30 40 50 60 70 / COMP. STRENGTH T.S.F ▣ 1 2 3
	SAND -			
62	SILT - grey, trace of fine sand			
64	CLAY - silty		NOT FROZEN	
66	- dark grey, low plastic			
68				
70	SAND - silty, fine some silt layers			
72				
74				
76	- fine to medium, trace of silt, brown			
78				
80				
82	END OF HOLE			
84				
86				
88				
90				

ICE THICKNESS (ft.) 5	DATE DRILLED 5/3/75	HOLE Nº
WATER DEPTH (ft.) 27	TECHNICIAN DF	L-30-10
COMPLETION DEPTH (ft.) 81	REGION Arnak (L-30)	Page 3 of 3

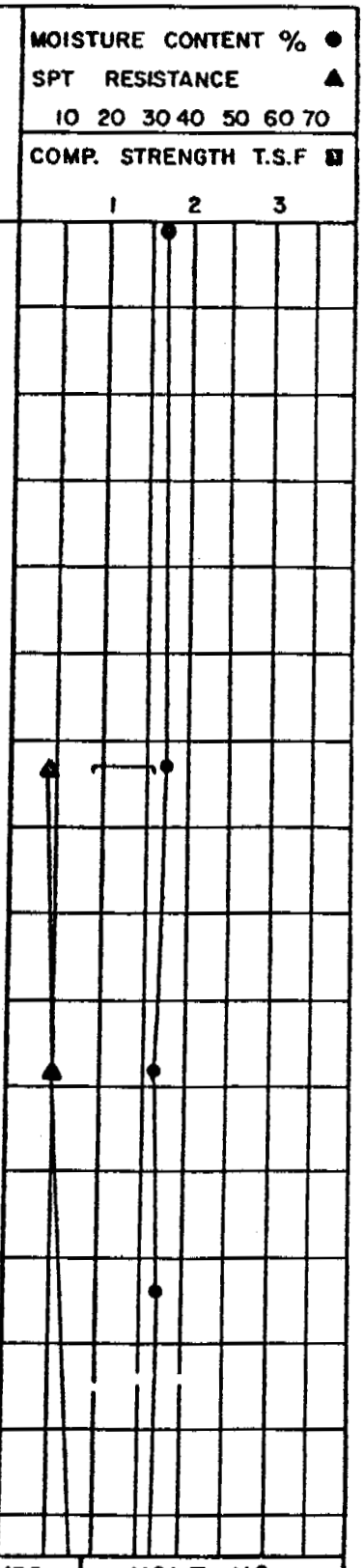
IMPERIAL OIL LIMITED
BEAUFORT SEA DRILLING PROGRAM – 1975

DEPTH (feet)	SOIL DESCRIPTION	SAMPLE	GROUND ICE CONDITION	MOISTURE CONTENT % ● / SPT RESISTANCE ▲ (10 20 30 40 50 60 70) / COMP. STRENGTH T.S.F. ■ (1 2 3)
2				
4	ICE			
6				
8				
10				
12				
14				
16				
18	WATER			
20				
22				
24				
26				
28				
30	CLAY - SILTY brown-grey		NOT FROZEN	

ICE THICKNESS (ft.) 5	DATE DRILLED 6/3/75	HOLE Nº L-30-11
WATER DEPTH (ft.) 28	TECHNICIAN DF	
COMPLETION DEPTH (ft.) 81	REGION Arnak (L-30)	Page 1 of 3

IMPERIAL OIL LIMITED
BEAUFORT SEA DRILLING PROGRAM - 1975

DEPTH (feet)	SOIL DESCRIPTION	SAMPLE	GROUND ICE CONDITION
32	CLAY - SILTY brown-grey		
34			
36			
38			NOT FROZEN
40			
42		X	
44	- stiff, some silty		
46			
48			
50	- grey, moist, stiff	X	
52	- firm, silty		
54			
56			
58			
60			

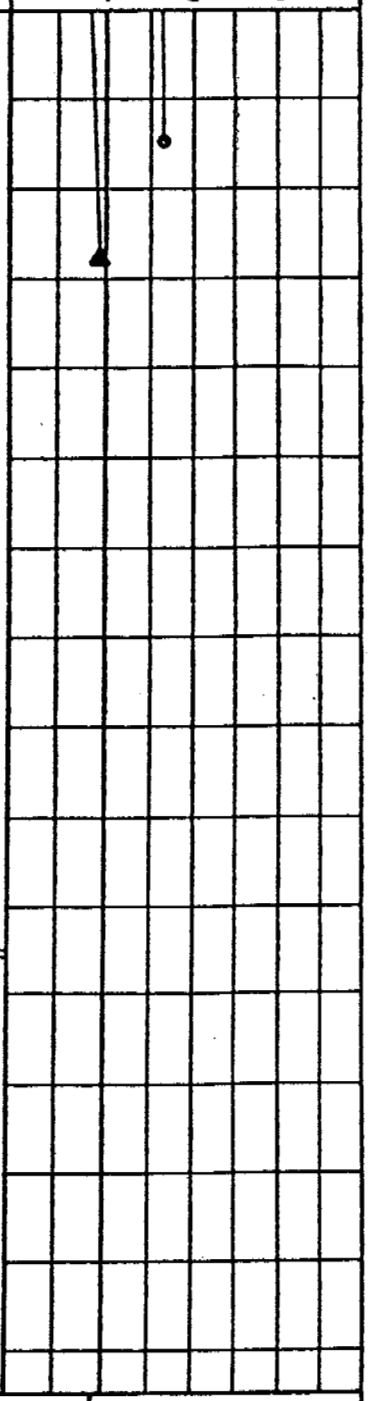


ICE THICKNESS (ft.) 5	DATE DRILLED 6/3/75	HOLE Nº L-30-11
WATER DEPTH (ft.) 28	TECHNICIAN DF	
COMPLETION DEPTH (ft.) 81	REGION Arnak (L-30)	Page 2 of 3

IMPERIAL OIL LIMITED
BEAUFORT SEA DRILLING PROGRAM - 1975

DEPTH (feet)	SOIL DESCRIPTION	SAMPLE	GROUND ICE CONDITION
	CLAY - dark grey, firm, silty		
62			
64			
	- stiff		
66	SAND - fine, brown		NOT FROZEN
	- trace of silt		
68			
70			
72			
74			
76			
78			
80			
82	END OF HOLE		
84			
86			
88			
90			

MOISTURE CONTENT % ●
SPT RESISTANCE ▲
10 20 30 40 50 60 70
COMP. STRENGTH T.S.F ■
1 2 3



ICE THICKNESS (ft.) 5	DATE DRILLED 6/3/75	HOLE Nº
WATER DEPTH (ft.) 28	TECHNICIAN DF	L-30-11
COMPLETION DEPTH (ft.) 81	REGION Arnak (L-30)	Page 3 of 3

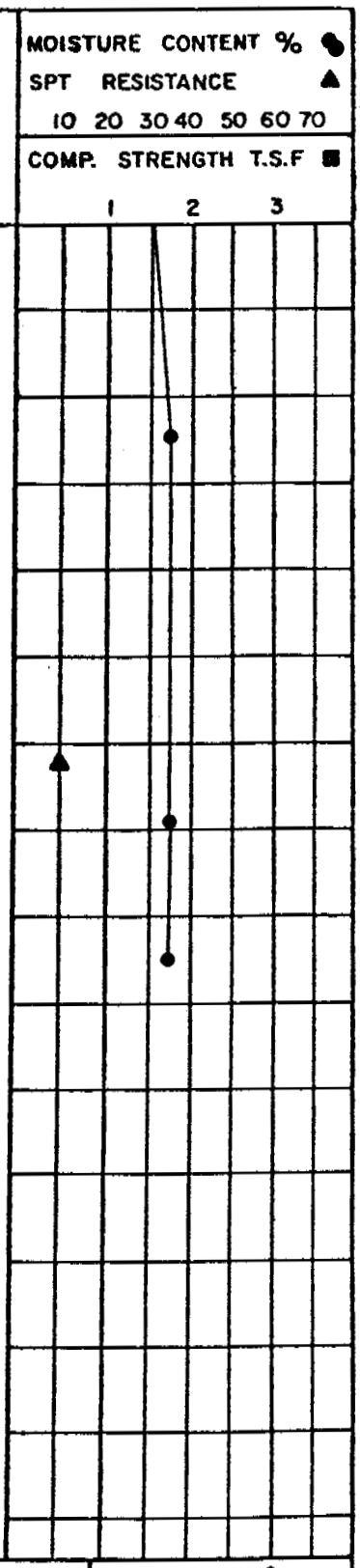
IMPERIAL OIL LIMITED
BEAUFORT SEA DRILLING PROGRAM - 1975

DEPTH (feet)	SOIL DESCRIPTION	SAMPLE	GROUND ICE CONDITION	MOISTURE CONTENT % ● / SPT RESISTANCE ▲ (10 20 30 40 50 60 70) / COMP. STRENGTH T.S.F. ■ (1 2 3)
2	ICE			
4				
6				
8	WATER			
10				
12				
14				
16				
18				
20				
22				
24				
26	CLAY - silty, grey		NOT FROZEN	
28				
30				

ICE THICKNESS (ft.) 5	DATE DRILLED 5/3/75	HOLE Nº
WATER DEPTH (ft.) 26	TECHNICIAN DF	L-30-12
COMPLETION DEPTH (ft.) 89	REGION Arnak (L-30)	Page 1 of 3

IMPERIAL OIL LIMITED
BEAUFORT SEA DRILLING PROGRAM - 1975

DEPTH (feet)	SOIL DESCRIPTION	SAMPLE	GROUND ICE CONDITION
	CLAY - silty, brown-grey		
32			
34			
36			NOT FROZEN
38			
40			
42	- stiff, grey, layered	X	
44			
46			
48			
50			
52			
54	SAND - fine to medium trace of silt grey-brown		
56			
58			
60			



ICE THICKNESS (ft.) 5	DATE DRILLED 5/3/75	HOLE Nº
WATER DEPTH (ft.) 26	TECHNICIAN DF	L-30-12
COMPLETION DEPTH (ft.) 89	REGION Arnak (L-30)	Page 2 of 3

IMPERIAL OIL LIMITED
BEAUFORT SEA DRILLING PROGRAM - 1975

DEPTH (feet)	SOIL DESCRIPTION	SAMPLE	GROUND ICE CONDITION	MOISTURE CONTENT % ● SPT RESISTANCE ▲ 10 20 30 40 50 60 70 / COMP. STRENGTH T.S.F ■ 1 2 3
	SAND - same			
62				
64	- some layers of grey silt, fine to medium, yellow-brown			
66				
68				
70				
72				
74	SILT - grey			
76	SAND - fine to medium, as above			
78				
80	- trace of silt			
82				
84				
86				
88				
90	END OF HOLE			

ICE THICKNESS (ft.) 5	DATE DRILLED 5/3/75	HOLE Nº
WATER DEPTH (ft.) 26	TECHNICIAN DF	L-30-12
COMPLETION DEPTH (ft.) 89	REGION Arnak (L-30)	Page 3 of 3

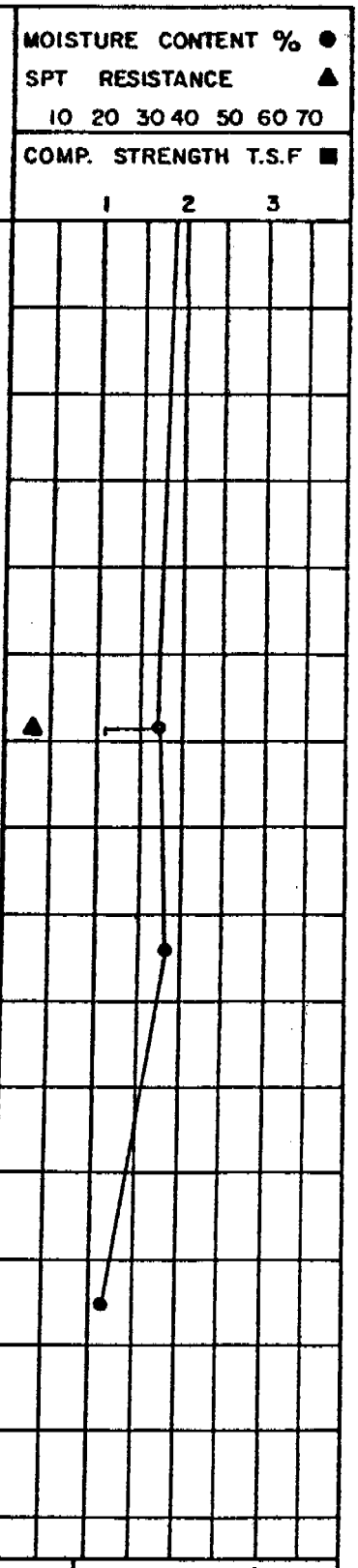
IMPERIAL OIL LIMITED
BEAUFORT SEA DRILLING PROGRAM – 1975

DEPTH (feet)	SOIL DESCRIPTION	SAMPLE	GROUND ICE CONDITION	MOISTURE CONTENT % ● / SPT RESISTANCE ▲ (10 20 30 40 50 60 70) / COMP. STRENGTH T.S.F. ■ (1 2 3)
2	ICE			
4				
6	WATER			
8				
10				
12				
14				
16				
18				
20				
22				
24				
26				
28	CLAY - silty moist, brown-grey			
30				

ICE THICKNESS (ft.) 5	DATE DRILLED 6/3/75	HOLE Nº L-30-14
WATER DEPTH (ft.) 28	TECHNICIAN DF	
COMPLETION DEPTH (ft.) 81	REGION Arnak (L-30)	Page 1 of 3

IMPERIAL OIL LIMITED
BEAUFORT SEA DRILLING PROGRAM - 1975

DEPTH (feet)	SOIL DESCRIPTION	SAMPLE	GROUND ICE CONDITION
	CLAY - silty		
32			
34			
36			
38			NOT FROZEN
40			
42	- grey , moist, firm	X	
44			
46			
48			
50	- same, with a trace of clay silt		
52			
54	SILT - grev brown, trace of gravel, some sand		
56			
58	SAND - fine, trace of gravel		
60			



ICE THICKNESS (ft.) 5	DATE DRILLED 6/3/75	HOLE Nº
WATER DEPTH (ft.) 28	TECHNICIAN DF	L-30-14
COMPLETION DEPTH (ft.) 81	REGION Arnak (L-30)	Page 2 of 3

IMPERIAL OIL LIMITED
BEAUFORT SEA DRILLING PROGRAM - 1975

DEPTH (feet)	SOIL DESCRIPTION	SAMPLE	GROUND ICE CONDITION	MOISTURE CONTENT % ● SPT RESISTANCE ▲ 10 20 30 40 50 60 70 / COMP. STRENGTH T.S.F ■ 1 2 3
	SAND - as above			
62				
64				
	- fine to medium brown, trace of silt		NOT FROZEN	
66				
68				
70				
72				
74				
76				
	- fine			
78				
80				
82	END OF HOLE			
84				
86				
88				
90				

ICE THICKNESS (ft.) 5	DATE DRILLED 6/3/75	HOLE Nº.
WATER DEPTH (ft.) 28	TECHNICIAN DF	L-30-14
COMPLETION DEPTH (ft.) 81	REGION Arnak (L-30)	Page 3 of 3

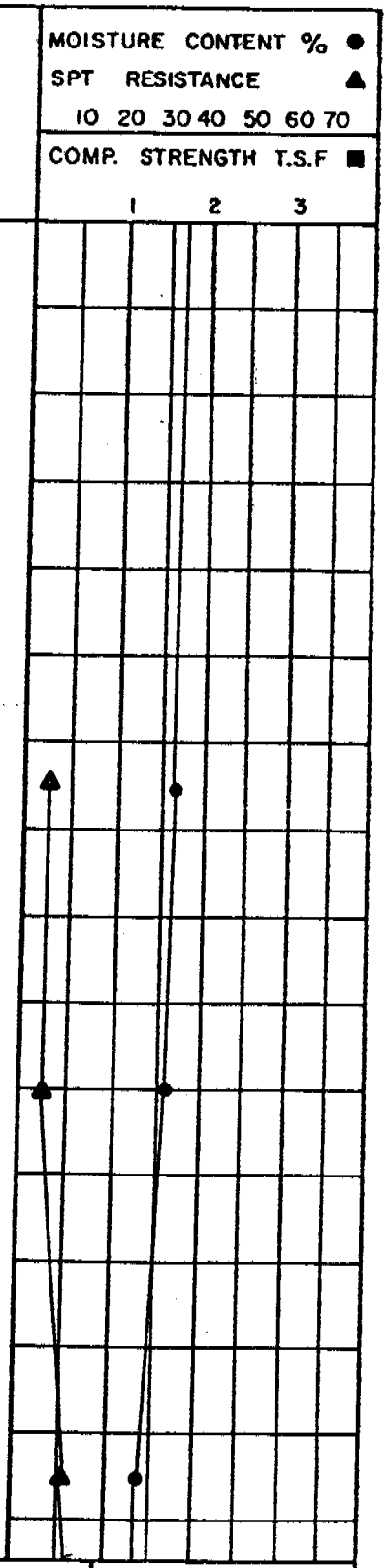
IMPERIAL OIL LIMITED
BEAUFORT SEA DRILLING PROGRAM - 1975

DEPTH (feet)	SOIL DESCRIPTION	SAMPLE	GROUND ICE CONDITION	MOISTURE CONTENT % ● / SPT RESISTANCE ▲ (10 20 30 40 50 60 70) / COMP. STRENGTH T.S.F. ■ (1 2 3)
2	ICE			
4				
6				
8				
10				
12	WATER			
14				
16				
18				
20				
22				
24				
26				
28	CLAY - trace fine sand near top - brownish grey - moist - silty, low plastic			
30				

ICE THICKNESS (ft.) 5	DATE DRILLED 7/3/75	HOLE Nº L-30 IV-3
WATER DEPTH (ft.) 27	TECHNICIAN DF	
COMPLETION DEPTH (ft.) 89	REGION Arnak (L-30)	Page 1 of 3

IMPERIAL OIL LIMITED
BEAUFORT SEA DRILLING PROGRAM - 1975

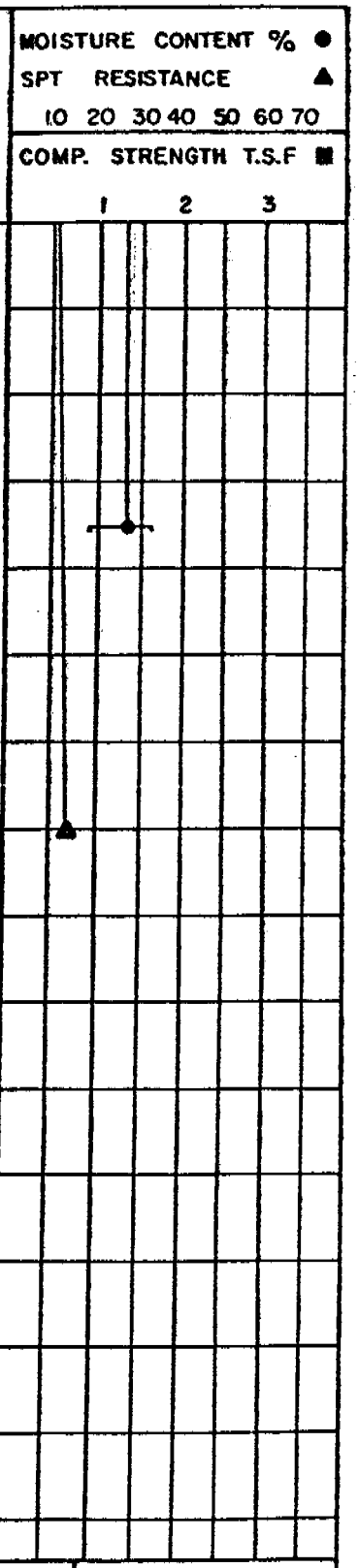
DEPTH (feet)	SOIL DESCRIPTION	SAMPLE	GROUND ICE CONDITION
	CLAY		
	same as above		
32			
34			
36			
38			
40			NOT FROZEN
42			
44			
46			
48			
50			
52	- organics - sandy		
54			
56			
58	SAND - fine grained - silty -wet to moist - organics near top-grey brown		
60			



GOA	ICE THICKNESS (ft.) 5	DATE DRILLED 7/3/75	HOLE Nº
	WATER DEPTH (ft.) 27	TECHNICIAN DF	L30 IV-3
	COMPLETION DEPTH (ft.) 89	REGION Arnak (L-30)	Page 2 of 3

IMPERIAL OIL LIMITED
BEAUFORT SEA DRILLING PROGRAM - 1975

DEPTH (feet)	SOIL DESCRIPTION	SAMPLE	GROUND ICE CONDITION
	SAND		
62	- same as above		
64			
66	CLAY		
68	- silty - moist - brown - low to medium plastic		
70	SAND - SILT		
72	- interbedded		
74	SAND - fine grained - trace of silt - yellow brown - wet to moist		
76			
78			
80			
82			
84			
86			
88			
90	SAND SLOUGHED UP DRILL STEM		



ICE THICKNESS (ft.) 5	DATE DRILLED 7/3/75	HOLE Nº L-30 IV-3
WATER DEPTH (ft.) 27	TECHNICIAN DF	
COMPLETION DEPTH (ft.) 89	REGION Arnak (L-30)	Page 3 of 3

IMPERIAL OIL LIMITED
BEAUFORT SEA DRILLING PROGRAM – 1975

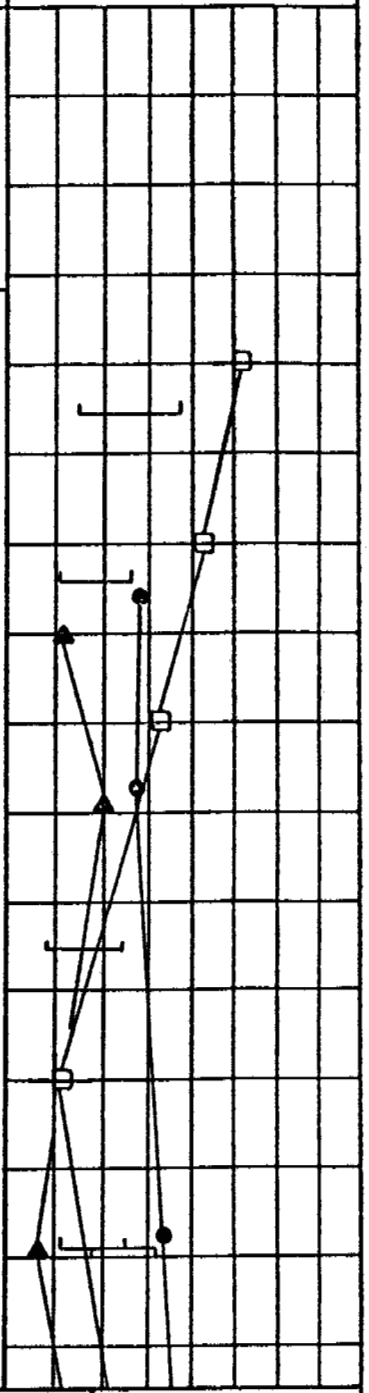
DEPTH (feet)	SOIL DESCRIPTION	SAMPLE	GROUND ICE CONDITION	MOISTURE CONTENT % ● SPT RESISTANCE ▲ 10 20 30 40 50 60 70 COMP. STRENGTH T.S.F. ■ 1 2 3
2	ICE			
4				
6	WATER			
8				
10				
12				
14				
16				
18				
20				
22				
24				
26				
28				
30				

	ICE THICKNESS (ft.) 5	DATE DRILLED 21/3/75	HOLE Nº
	WATER DEPTH (ft.) 36 1/2	TECHNICIAN JH	B-15-1
	COMPLETION DEPTH (ft.) 117	REGION Isserk B-15	Page 1 of 4

IMPERIAL OIL LIMITED

BEAUFORT SEA DRILLING PROGRAM - 1975

DEPTH (feet)	SOIL DESCRIPTION	SAMPLE	GROUND ICE CONDITION
32	WATER		
34			
36			
38	CLAY - dark grey brown, silty - fine black laminations of organics		
40	- very stiff, medium plastic		UNFROZEN
42	- inclusions of organics - trace of shells, very stiff to stiff, low plastic		
44	- trace of fine sand - stiff		
46			
48	- very stiff		
50			
52			
54	- trace fine sand inclusions - firm		
56			
58	- low plastic		
60			

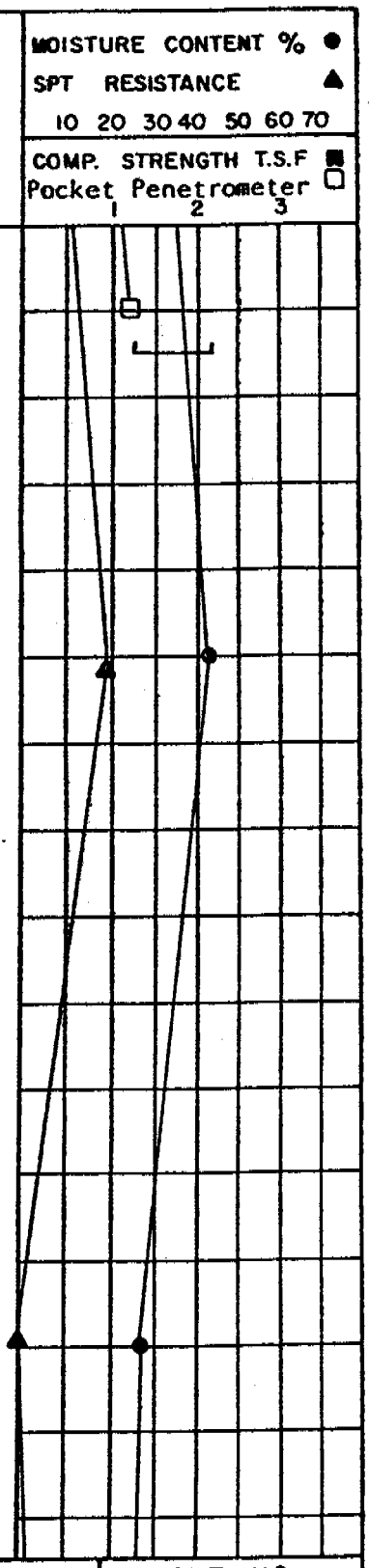


ICE THICKNESS (ft.) 5	DATE DRILLED 21/3/75	HOLE Nº B-15-1
WATER DEPTH (ft.) 36 1/2	TECHNICIAN JH	
COMPLETION DEPTH (ft.) 117	REGION Isserk B-15	Page 2 of 4

IMPERIAL OIL LIMITED

BEAUFORT SEA DRILLING PROGRAM - 1975

DEPTH (feet)	SOIL DESCRIPTION	SAMPLE	GROUND ICE CONDITION
62	CLAY - as above - trace of shells - some black organic inclusions - stiff		
64			
66			
68	SAND - fine grained - some silt layers - trace of organic laminations and inclusions - brown		
70			
72			
74	SILT AND SAND		
76			
78	SAND AND SILT		
80			
82	SAND - trace to some silt - trace of organics - fine, med. brown		
84			
86			
88			
90			

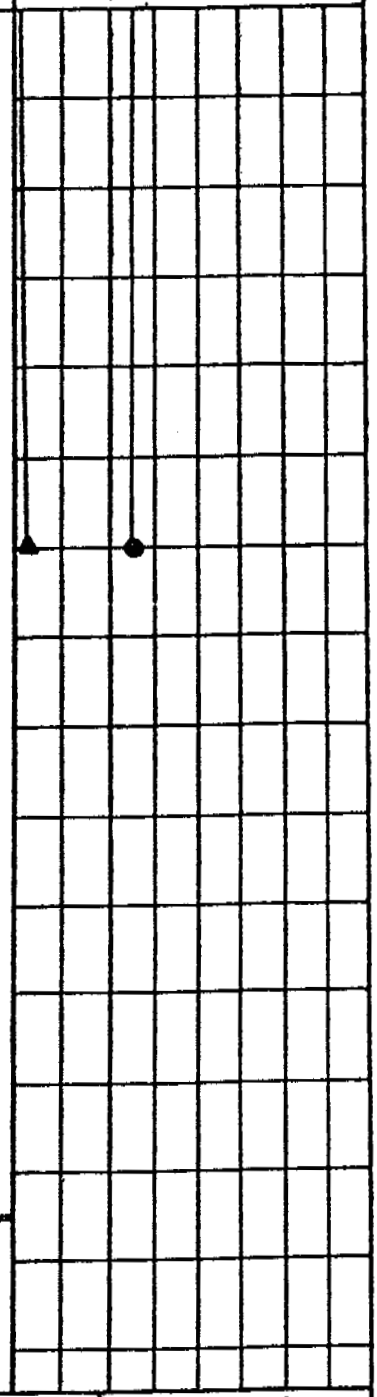


ICE THICKNESS (ft.) 5	DATE DRILLED 21/3/75	HOLE Nº
WATER DEPTH (ft.) 36 1/2	TECHNICIAN JH	B-15-1
COMPLETION DEPTH (ft.) 117	REGION Isserk B-15	Page 3 of 4

IMPERIAL OIL LIMITED
BEAUFORT SEA DRILLING PROGRAM - 1975

DEPTH (feet)	SOIL DESCRIPTION	SAMPLE	GROUND ICE CONDITION
	SAND - medium brown - trace of organics - some silt, possibly silt layers		UNFROZEN
92			
94			
96			
98			
100			
102		X	
104			
106			
108			
110	- medium dark brown - medium to fine grained - trace silt and organics		
112			
114			
116	- sand and silt.		
118	END OF HOLE		
120			

MOISTURE CONTENT % ●
SPT RESISTANCE ▲
10 20 30 40 50 60 70
COMP. STRENGTH T.S.F ■
1 2 3



ICE THICKNESS (ft.) 5	DATE DRILLED 21/3/75	HOLE Nº B-15-1
WATER DEPTH (ft.) 36 1/2	TECHNICIAN JH	
COMPLETION DEPTH (ft.) 117	REGION Isserk B-15	Page 4 of 4

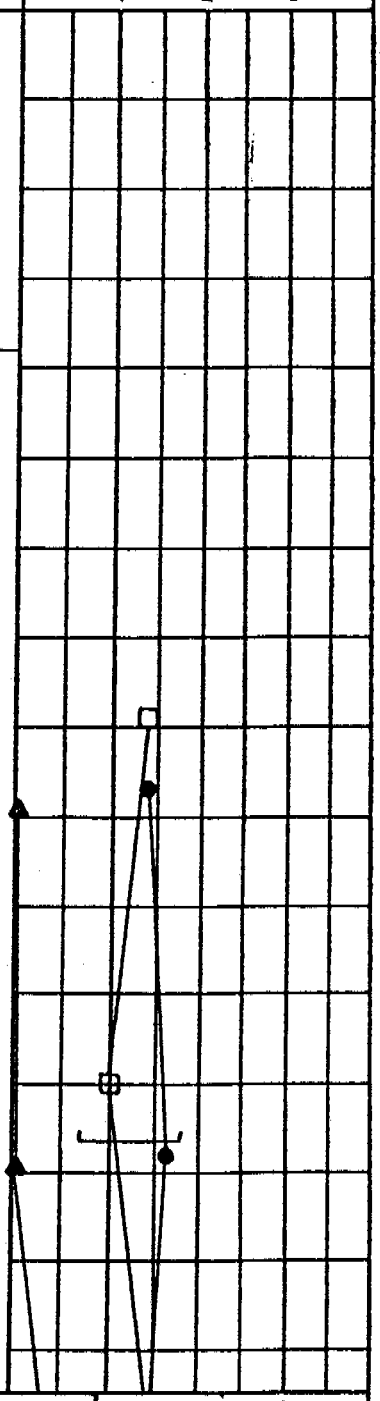
IMPERIAL OIL LIMITED
BEAUFORT SEA DRILLING PROGRAM - 1975

DEPTH (feet)	SOIL DESCRIPTION	SAMPLE	GROUND ICE CONDITION	MOISTURE CONTENT % ● SPT RESISTANCE ▲ 10 20 30 40 50 60 70 / COMP. STRENGTH T.S.F ■ 1 2 3
	ICE			
2				
4				
6				
8				
10				
12				
14	WATER			
16				
18				
20				
22				
24				
26				
28				
30				

ICE THICKNESS (ft.) 5	DATE DRILLED 22/3/75	HOLE Nº B15-2
WATER DEPTH (ft.) 37½	TECHNICIAN JH	
COMPLETION DEPTH (ft.) 110½	REGION Isserk B-15	Page 1 of 4

IMPERIAL OIL LIMITED
BEAUFORT SEA DRILLING PROGRAM - 1975

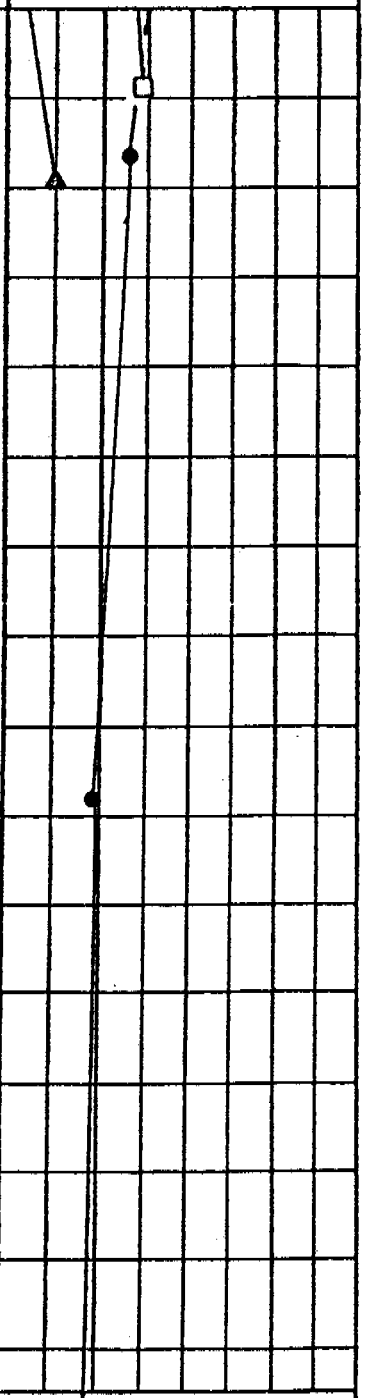
DEPTH (feet)	SOIL DESCRIPTION	SAMPLE	GROUND ICE CONDITION
32			
34	WATER		
36			
38	CLAY - dark grey brown, silty, trace shells and organics		
40			
42			
44	- trace of very fine sand		
46			
48	- soft		Unfrozen
50			
52			
54	- firm - trace black organic inclusions		
56	- medium plastic		
58			
60			



eoa	ICE THICKNESS (ft.) 5	DATE DRILLED 22/3/75	HOLE Nº
	WATER DEPTH (ft.) 37 1/2	TECHNICIAN JH	B15-2
	COMPLETION DEPTH (ft.) 110 1/2	REGION Isserk B-15	Page 2 of 4

IMPERIAL OIL LIMITED
BEAUFORT SEA DRILLING PROGRAM - 1975

DEPTH (feet)	SOIL DESCRIPTION	SAMPLE	GROUND ICE CONDITION
	- as above		
62	SAND - black organics silty, trace clay		
64			
66			
68			Unfrozen
70			
72			
74			
76			
78	- medium grey brown - fine grained, trace silt		
80			
82			
84			Possibly Frozen NBN
86			
88			
90			

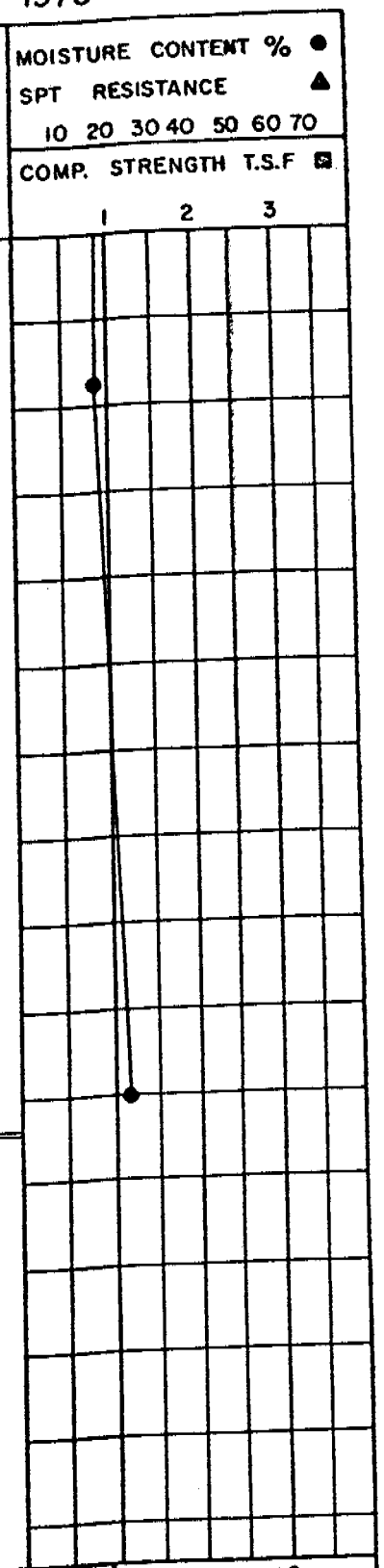


ICE THICKNESS (ft.) 5	DATE DRILLED 22/3/75	HOLE Nº
WATER DEPTH (ft.) 37 1/2	TECHNICIAN JH	B15-2
COMPLETION DEPTH (ft.) 110 1/2	REGION Isserk B-15	Page 3 of 4

IMPERIAL OIL LIMITED

BEAUFORT SEA DRILLING PROGRAM - 1975

DEPTH (feet)	SOIL DESCRIPTION	SAMPLE	GROUND ICE CONDITION
92	SAND - brown grey, trace silt, trace shells	X	Possibly Frozen NBN
94			
96			
98			
100			
102			
104			
106			
108			
110		X	
112	END OF HOLE		
114			
116			
118			
120			



ICE THICKNESS (ft.) 5	DATE DRILLED 22/3/75	HOLE Nº B15-2
WATER DEPTH (ft.) 37 1/2	TECHNICIAN JH	
COMPLETION DEPTH (ft.) 110 1/2	REGION Isserk B-15	Page 4 of 4

IMPERIAL OIL LIMITED
BEAUFORT SEA DRILLING PROGRAM – 1975

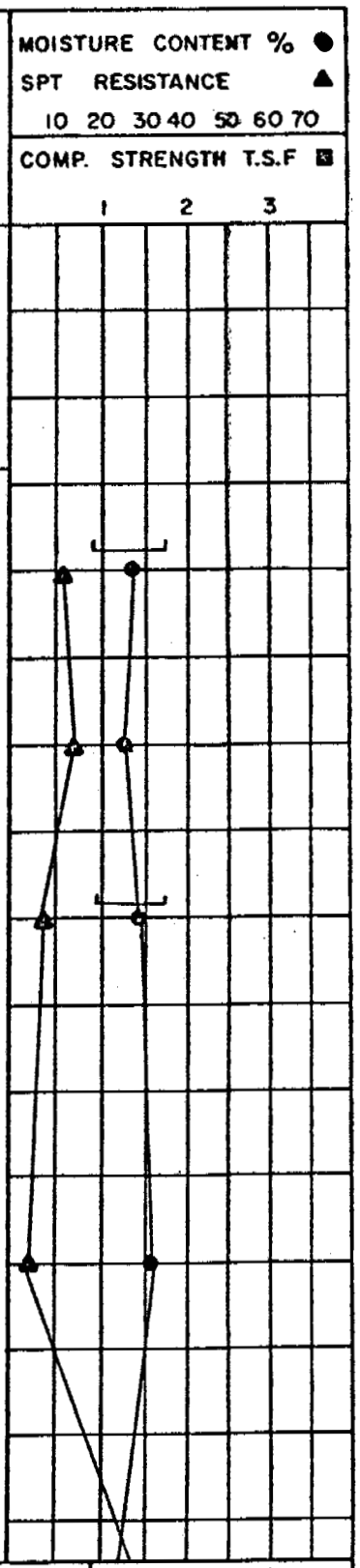
DEPTH (feet)	SOIL DESCRIPTION	SAMPLE	GROUND ICE CONDITION	MOISTURE CONTENT % ● SPT RESISTANCE ▲ 10 20 30 40 50 60 70 / COMP. STRENGTH T.S.F. ■ 1 2 3
2	ICE			
4				
6	WATER			
8				
10				
12				
14				
16				
18				
20				
22				
24				
26				
28				
30				

ICE THICKNESS (ft.) 4 1/2	DATE DRILLED 23/3/75	HOLE Nº B15 - 3
WATER DEPTH (ft.) 35 1/2	TECHNICIAN JH	
COMPLETION DEPTH (ft.) 70 1/2	REGION Isserk B-15	Page 1 of 3

IMPERIAL OIL LIMITED

BEAUFORT SEA DRILLING PROGRAM - 1975

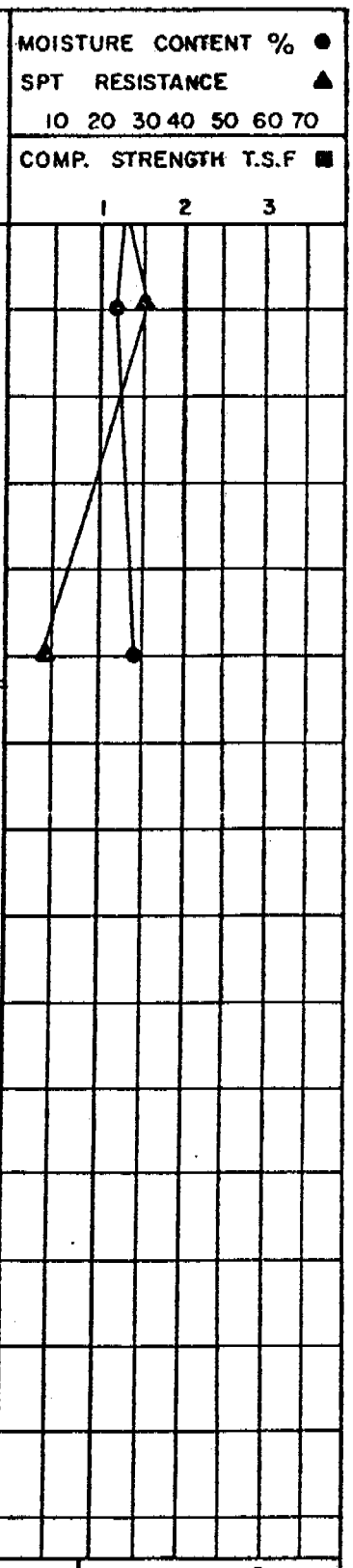
DEPTH (feet)	SOIL DESCRIPTION	SAMPLE	GROUND ICE CONDITION
32	WATER		
34			
36	NO SAMPLE		
38	CLAY - dark grey brown - silty, trace of fine sand lenses, stiff, trace black organics - low to medium plastic - very stiff to stiff		
40			
42			
44			
46			
48			
50			
52			
54	- same as above, trace of sand - fine grained		
56			
58			
60			



ICE THICKNESS (ft.) 4 1/2	DATE DRILLED 23/3/75	HOLE Nº
WATER DEPTH (ft.) 35 1/2	TECHNICIAN JH	B15-3
COMPLETION DEPTH (ft.) 70 1/2	REGION Isserk B-15	Page 2 of 3

IMPERIAL OIL LIMITED
BEAUFORT SEA DRILLING PROGRAM - 1975

DEPTH (feet)	SOIL DESCRIPTION	SAMPLE	GROUND ICE CONDITION
62	SAND and SILT - dark grey brown - black organic inclusions - trace clay, fine grained	X	
64			
66	SAND - dark brown, trace of silt - trace of organics		
68	- trace of silt - fine grained		
70	- 1" black organic silt, trace clay	X	
72	END OF HOLE		
74			
76			
78			
80			
82			
84			
86			
88			
90			



ICE THICKNESS (ft.) 4 1/2	DATE DRILLED 23/3/75	HOLE Nº
WATER DEPTH (ft.) 35 1/2	TECHNICIAN JH	B15-3
COMPLETION DEPTH (ft.) 70 1/2	REGION Isserk B-15	Page 3 of 3

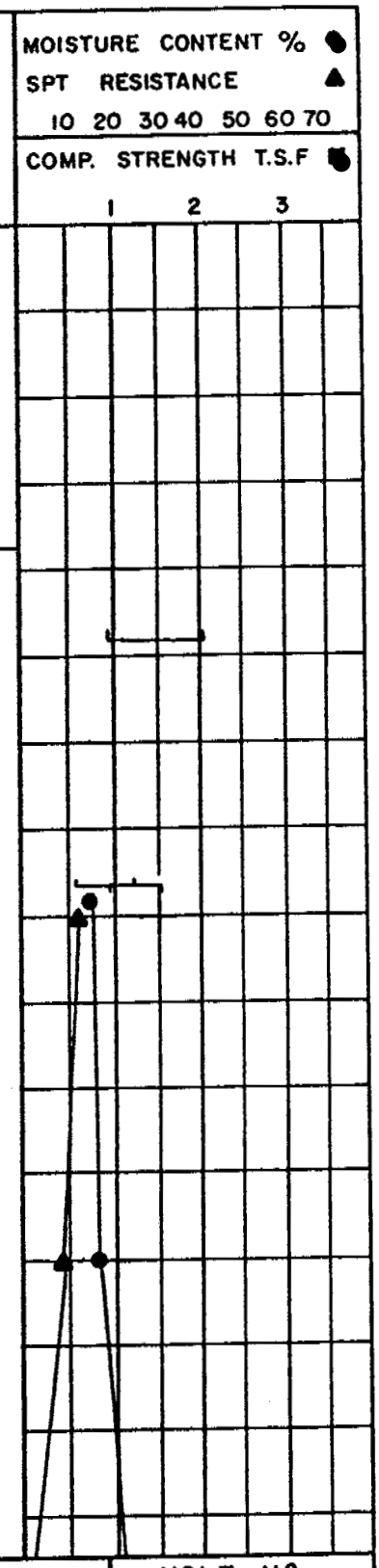
IMPERIAL OIL LIMITED
BEAUFORT SEA DRILLING PROGRAM - 1975

DEPTH (feet)	SOIL DESCRIPTION	SAMPLE	GROUND ICE CONDITION	MOISTURE CONTENT % ● / SPT RESISTANCE ▲ (10 20 30 40 50 60 70) / COMP. STRENGTH T.S.F. ■ (1 2 3)
2	ICE			
4				
6	WATER			
8				
10				
12				
14				
16				
18				
20				
22				
24				
26				
28				
30				

ICE THICKNESS (ft.) 5 1/2	DATE DRILLED 24/3/75	HOLE Nº B-15-12
WATER DEPTH (ft.) 37 1/2	TECHNICIAN JH	
COMPLETION DEPTH (ft.) 110 1/2	REGION Isserk B-15	Page 1 of 4

IMPERIAL OIL LIMITED
BEAUFORT SEA DRILLING PROGRAM - 1975

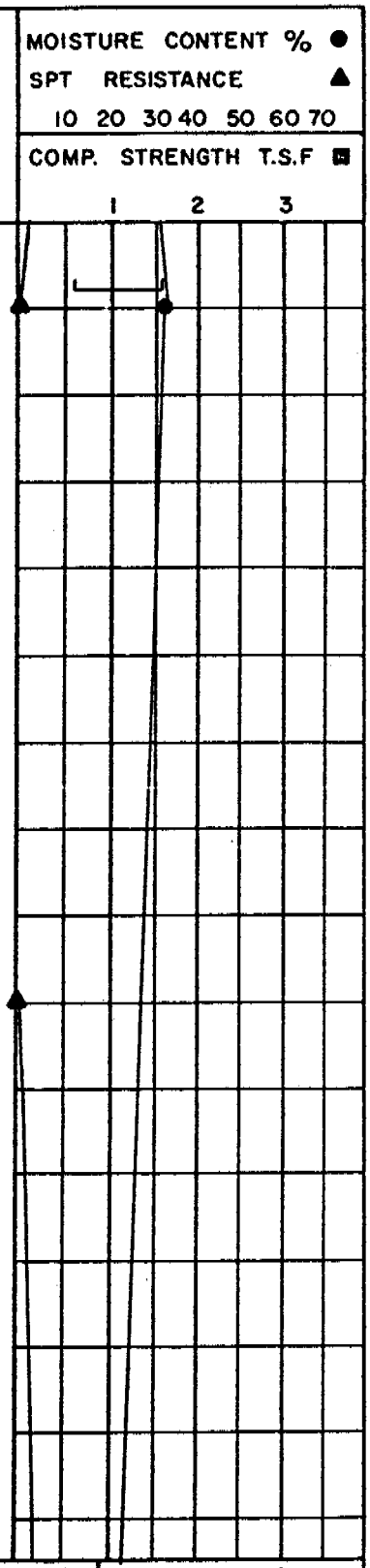
DEPTH (feet)	SOIL DESCRIPTION	SAMPLE	GROUND ICE CONDITION
32			
34	WATER		
36			
38	CLAY - dark grey brown, silty, trace black organics, firm, trace of shells, medium plastic		
40			
42			
44			
46	- trace fine sand lenses - stiff, low plastic	X	
48			
50			
52			
54	- firm to stiff	X	
56			
58			
60			



ICE THICKNESS (ft.) 5 1/2	DATE DRILLED 24/3/75	HOLE Nº
WATER DEPTH (ft.) 37 1/2	TECHNICIAN JH	B-15-12
COMPLETION DEPTH (ft.) 110 1/2	REGION Isserk B-15	Page 2 of 4

IMPERIAL OIL LIMITED
BEAUFORT SEA DRILLING PROGRAM - 1975

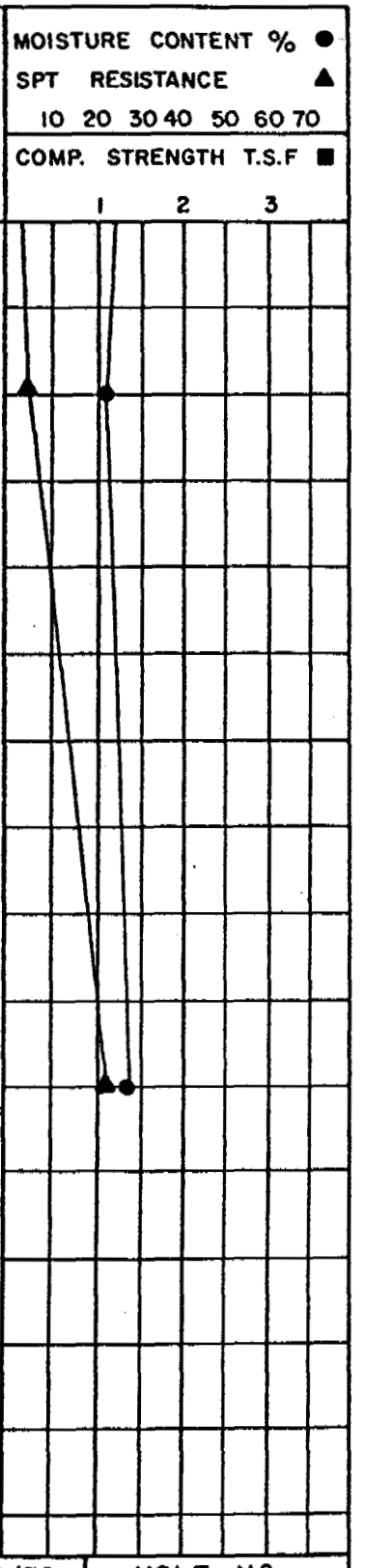
DEPTH (feet)	SOIL DESCRIPTION	SAMPLE	GROUND ICE CONDITION
62	CLAY - as above	X	
64			
66	- trace to some sand		
68			
70	SAND - dark grey brown - trace silt -gravel in upper 8'		
72			
74	- medium grey brown, fine grained - trace of organics, trace pebbles		
76			
78	- very loose, LOST SAMPLE	X	
80			
82			
84			
86			
88			
90			



ICE THICKNESS (ft.) 5 1/2	DATE DRILLED 24/3/75	HOLE Nº
WATER DEPTH (ft.) 37 1/2	TECHNICIAN JH	B-15-12
COMPLETION DEPTH (ft.) 110 1/2	REGION Isserk B-15	Page 3 of 4

IMPERIAL OIL LIMITED
BEAUFORT SEA DRILLING PROGRAM - 1975

DEPTH (feet)	SOIL DESCRIPTION	SAMPLE	GROUND ICE CONDITION
92	SAND - medium brown, fine grained, trace of silt and organics		
94		X	
96			
98			
100			
102			
104			
106			
108			
110	4" of silt near bottom	X	
112	END OF HOLE		
114			
116			
118			
120			



ICE THICKNESS (ft.) 5 1/2	DATE DRILLED 24/3/75	HOLE Nº
WATER DEPTH (ft.) 37 1/2	TECHNICIAN JH	B15-12
COMPLETION DEPTH (ft.) 119 1/2	REGION Isserk B-15	Page 4 of 4

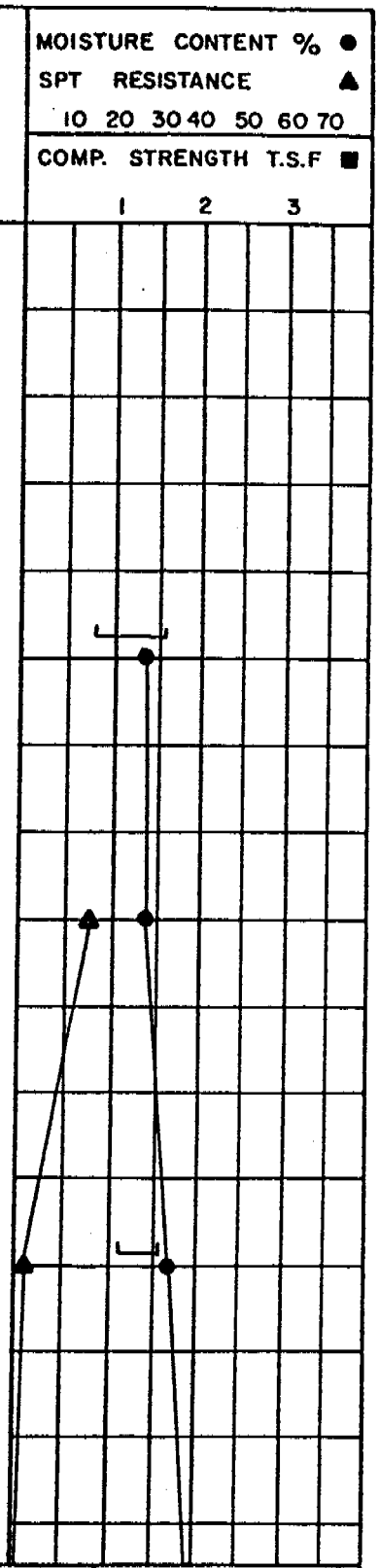
IMPERIAL OIL LIMITED
BEAUFORT SEA DRILLING PROGRAM - 1975

DEPTH (feet)	SOIL DESCRIPTION	SAMPLE	GROUND ICE CONDITION	MOISTURE CONTENT % ● ● / SPT RESISTANCE ▲ 10 20 30 40 50 60 70 / COMP. STRENGTH T.S.F. ■ 1 2 3
2	ICE			
4				
6	WATER			
8				
10				
12				
14				
16				
18				
20				
22				
24				
26				
28				
30				

eba	ICE THICKNESS (ft.) 5	DATE DRILLED 23/3/75	HOLE Nº B15-13
	WATER DEPTH (ft.) 37 1/2	TECHNICIAN JH	
	COMPLETION DEPTH (ft.) 70 1/2	REGION Isserk B-15	Page 1 of 3

IMPERIAL OIL LIMITED
BEAUFORT SEA DRILLING PROGRAM - 1975

DEPTH (feet)	SOIL DESCRIPTION	SAMPLE	GROUND ICE CONDITION
32	WATER		
34			
36			
38	CLAY - dark grey brown, silty trace of organics, slight trace of fine sand, low plastic		
40			
42			
44			
46		X	
48			
50			
52			
54		X	
56			
58			
60			

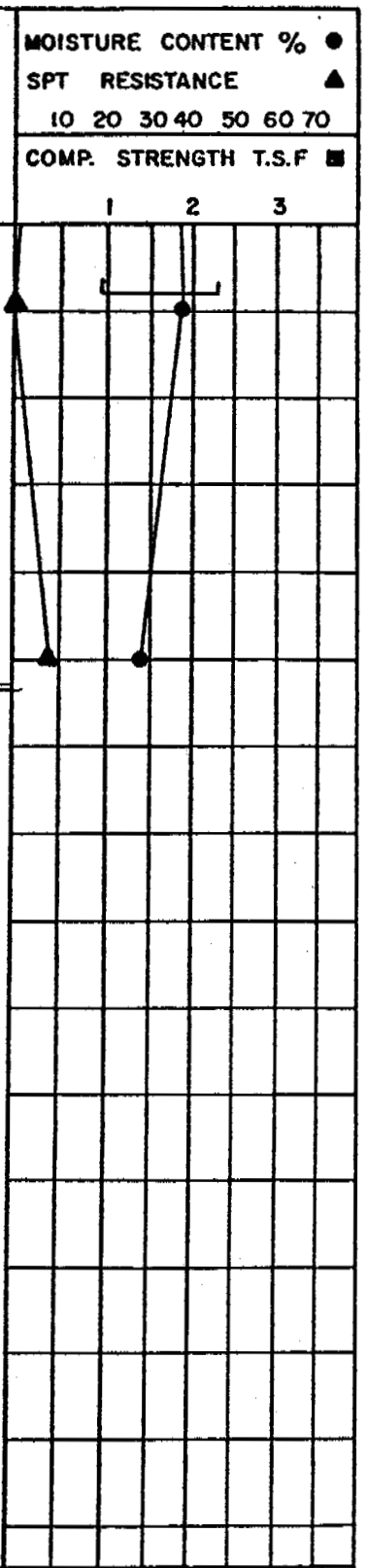


ICE THICKNESS (ft.) 5	DATE DRILLED 23/3/75	HOLE Nº B15-13
WATER DEPTH (ft.) 37 1/2	TECHNICIAN JH	
COMPLETION DEPTH (ft.) 70 1/2	REGION Isserk B-15	Page 2 of 3

IMPERIAL OIL LIMITED

BEAUFORT SEA DRILLING PROGRAM - 1975

DEPTH (feet)	SOIL DESCRIPTION	SAMPLE	GROUND ICE CONDITION
62	CLAY - as above medium plastic	X	
64			
66			
68	SILT - sandy - dark grey, trace clay and organics, fine grained		
70		X	
72	END OF HOLE		
74			
76			
78			
80			
82			
84			
86			
88			
90			



ICE THICKNESS (ft.) 5	DATE DRILLED 23/3/75	HOLE Nº
WATER DEPTH (ft.) 37 1/2	TECHNICIAN JH	B15-13
COMPLETION DEPTH (ft.) 70 1/2	REGION Isserk B-15	Page 3 of 3

965.2 V. 3

IMPERIAL OIL LIMITED
BEAUFORT SEA DRILLING PROGRAM – 1975

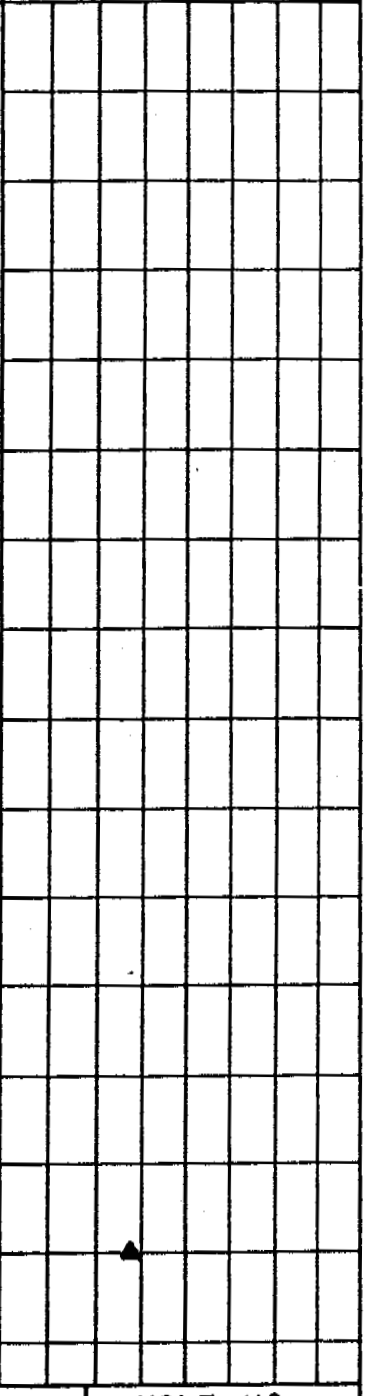
DEPTH (feet)	SOIL DESCRIPTION	SAMPLE	GROUND ICE CONDITION	MOISTURE CONTENT % ● / SPT RESISTANCE ▲ (10 20 30 40 50 60 70) / COMP. STRENGTH T.S.F. ■ (1 2 3)
2	ICE			
4				
6				
8	WATER			
10				
12				
14				
16				
18	SILT - dark grey, trace of clay - firm		UNFROZEN	
20				
22				
24				
26				
28	- soft			
30				

eba	ICE THICKNESS (ft.) 6	DATE DRILLED 1/4/75	HOLE Nº HI-11
	WATER DEPTH (ft.) 16 1/2	TECHNICIAN TH	
	COMPLETION DEPTH (ft.) 97	REGION Hooper Island	Page 1 of 4

IMPERIAL OIL LIMITED
BEAUFORT SEA DRILLING PROGRAM - 1975

DEPTH (feet)	SOIL DESCRIPTION	SAMPLE	GROUND ICE CONDITION
	SILT - as above, slightly sandier		UNFROZEN
32			
34			
36			
38	SAND and GRAVEL - some silt		
40			
42	SILT and SAND - dark grey - firm		
44			
46			
48			
50	SAND - fine grained, uniform - loose, medium dark brown, trace silt		
52			
54			
56			
58	- dense	X	
60			

MOISTURE CONTENT % ●
SPT RESISTANCE ▲
10 20 30 40 50 60 70
COMP. STRENGTH T.S.F ■
1 2 3



ICE THICKNESS (ft.) 6	DATE DRILLED 1/4/75	HOLE Nº
WATER DEPTH (ft.) 16 1/2	TECHNICIAN TH	H11-11
COMPLETION DEPTH (ft.) 97	REGION Hooper Island	Page 2 of 4

IMPERIAL OIL LIMITED
BEAUFORT SEA DRILLING PROGRAM - 1975

DEPTH (feet)	SOIL DESCRIPTION	SAMPLE	GROUND ICE CONDITION	MOISTURE CONTENT % ● SPT RESISTANCE ▲ 10 20 30 40 50 60 70 / COMP. STRENGTH T.S.F ■ 1 2 3
	SAND - as above, trace of silt			
62				
64				
66				
68			UNFROZEN	
70				
72				
74				
76				
78				
80				
82				
84				
86				
88				
90				

ICE THICKNESS (ft.) 6	DATE DRILLED 1/4/75	HOLE Nº HI-11
WATER DEPTH (ft.) 16 1/2	TECHNICIAN TH	
COMPLETION DEPTH (ft.) 97	REGION Hooper Island	Page 3 of 4

IMPERIAL OIL LIMITED
BEAUFORT SEA DRILLING PROGRAM - 1975

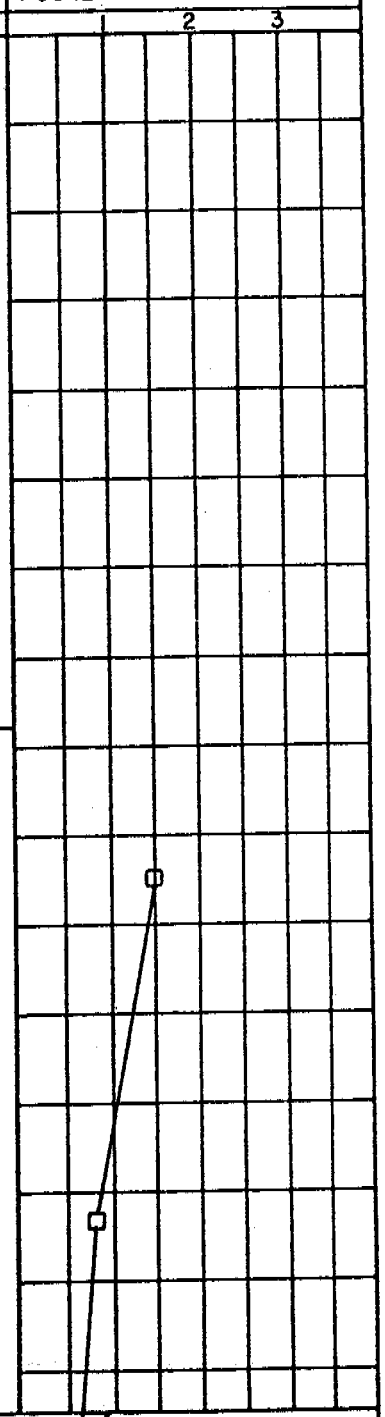
DEPTH (feet)	SOIL DESCRIPTION	SAMPLE	GROUND ICE CONDITION	MOISTURE CONTENT % ● SPT RESISTANCE ▲ 10 20 30 40 50 60 70 / COMP. STRENGTH T.S.F ■ 1 2 3
92	SAND - as above		UNFROZEN	
94				
96				
98	END OF HOLE			

ICE THICKNESS (ft.) 6	DATE DRILLED 1/4/75	HOLE Nº
WATER DEPTH (ft.) 16 1/2	TECHNICIAN TH	HI-11
COMPLETION DEPTH (ft.) 97	REGION Hooper Island	Page 4 of 4

IMPERIAL OIL LIMITED
BEAUFORT SEA DRILLING PROGRAM – 1975

DEPTH (feet)	SOIL DESCRIPTION	SAMPLE	GROUND ICE CONDITION
2, 4, 6	ICE		
8, 10, 12, 14	WATER		
16, 18, 20, 22, 24	CLAY - silty, dark grey, firm-stiff		NOT FROZEN
26, 28, 30	SILT - clayey, firm, dark grey		

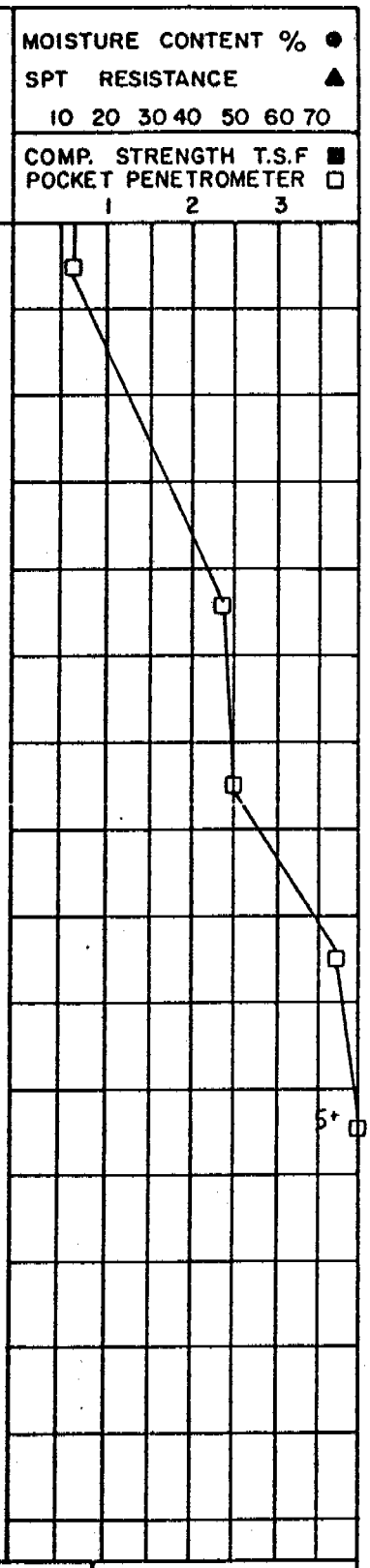
MOISTURE CONTENT % ●
SPT RESISTANCE ▲
10 20 30 40 50 60 70
COMP. STRENGTH T.S.F. ■
POCKET PENETROMETER □



ICE THICKNESS (ft.) 6	DATE DRILLED 2/4/75	HOLE Nº P-3
WATER DEPTH (ft.) 15 1/2	TECHNICIAN TH	
COMPLETION DEPTH (ft.) 73	REGION Pelly Island	Page 1 of 3

IMPERIAL OIL LIMITED
BEAUFORT SEA DRILLING PROGRAM - 1975

DEPTH (feet)	SOIL DESCRIPTION	SAMPLE	GROUND ICE CONDITION
	SILT - as above		
32			
34			NOT FROZEN
	- stiff		
36			
38			
40			
	- dark grey-black, trace of organics		
42			
44			
	- dark grey, hard		
46			
48			
	- trace of clay, hard		
50			
52			
54	SAND - silty, fine, uniform, dark grey		
56			
	- no recovery from 57 to 69 Feet		
58			FROZEN
60			



ICE THICKNESS (ft.) 6	DATE DRILLED 2/4/75	HOLE Nº
WATER DEPTH (ft.) 15 1/2	TECHNICIAN TH	P-3
COMPLETION DEPTH (ft.) 73	REGION Pelly Island	Page 2 of 3

IMPERIAL OIL LIMITED
BEAUFORT SEA DRILLING PROGRAM - 1975

DEPTH (feet)	SOIL DESCRIPTION	SAMPLE	GROUND ICE CONDITION	MOISTURE CONTENT % ● SPT RESISTANCE ▲ 10 20 30 40 50 60 70 COMP. STRENGTH T.S.F ■ 1 2 3
	SAND - as above			
62	- no recovery from 57 - 69 feet sand assumed		FROZEN	
64				
66				
68	- some silt, fine, medium to dark brown high ice content			
70				
72				
74	END OF HOLE			

eba	ICE THICKNESS (ft.) 6	DATE DRILLED 2/4/75	HOLE Nº
	WATER DEPTH (ft.) 15 1/2	TECHNICIAN TH	P-3
	COMPLETION DEPTH (ft.) 73	REGION Pelly Island	Page 3 of 3

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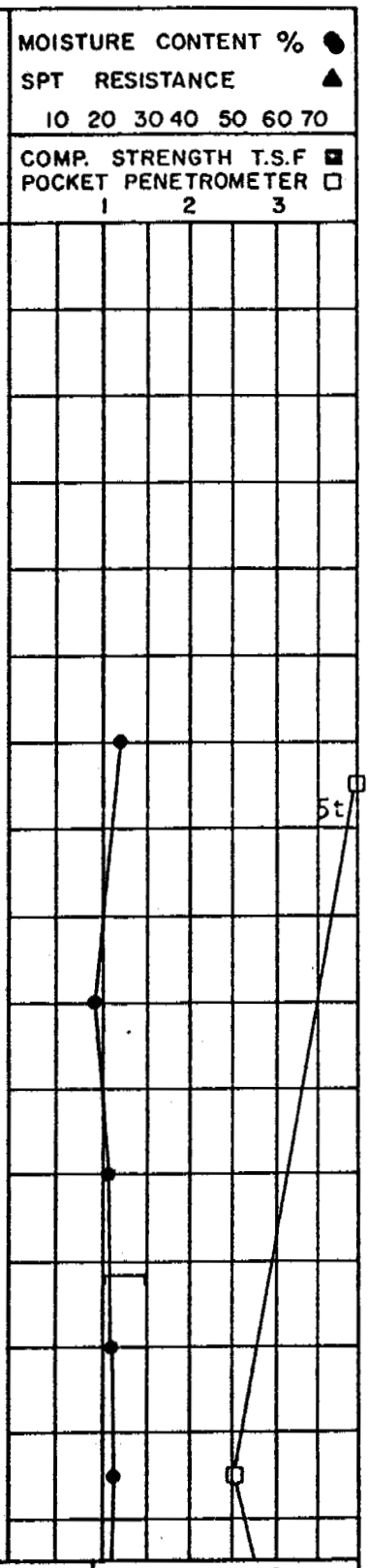
IMPERIAL OIL LIMITED
BEAUFORT SEA DRILLING PROGRAM – 1975

DEPTH (feet)	SOIL DESCRIPTION	SAMPLE	GROUND ICE CONDITION	MOISTURE CONTENT % ● SPT RESISTANCE ▲ 10 20 30 40 50 60 70 COMP. STRENGTH T.S.F. ■ 1 2 3
2	ICE			
4				
6				
8	WATER			
10				
12				
14				
16				
18				
20				
22				
24				
26				
28				
30				

eoa	ICE THICKNESS (ft.) 6	DATE DRILLED 6/4/75	HOLE Nº
	WATER DEPTH (ft.) 39	TECHNICIAN TH	H-56-1
	COMPLETION DEPTH (ft.) 98 1/2	REGION Issigak	Page 1 of 4

IMPERIAL OIL LIMITED
BEAUFORT SEA DRILLING PROGRAM - 1975

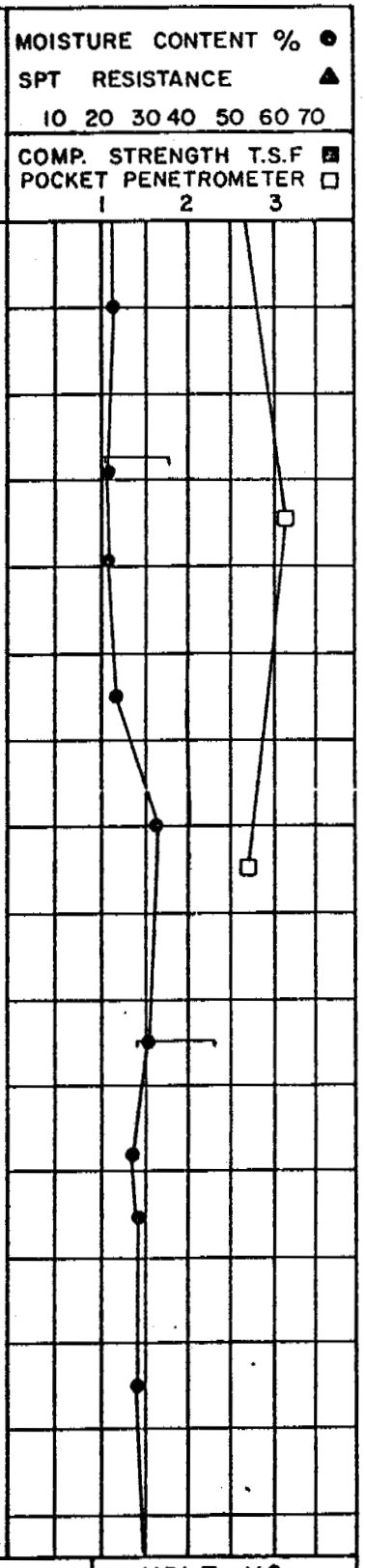
DEPTH (feet)	SOIL DESCRIPTION	SAMPLE	GROUND ICE CONDITION
32	WATER		
34			
36			
38			
40	SILT-CLAY - trace of organics, - very stiff, moist, dark grey		
42			
44			
46	SILT-CLAY (TILL) - trace fine gravel, hard, damp, some sand - low plastic		NOT FROZEN
48			
50			
52			
54	- as above, very stiff		
56			
58	SILT-CLAY - clayey, trace fine gravel, very stiff moist, dark brown, some sand, low plastic		
60			



ICE THICKNESS (ft.) 6	DATE DRILLED 6/4/75	HOLE Nº H-56-1
WATER DEPTH (ft.) 39	TECHNICIAN TH	
COMPLETION DEPTH (ft.) 38 1/2	REGION Issigak	Page 2 of 4

IMPERIAL OIL LIMITED
BEAUFORT SEA DRILLING PROGRAM - 1975

DEPTH (feet)	SOIL DESCRIPTION	SAMPLE	GROUND ICE CONDITION
62	- as above, stiff		NOT FROZEN
64	- hard		
66	CLAY-SILT - no gravel - trace of sand - medium plastic		
68			
70			
72			
74	CLAY-SILT - salts, stiff, moist - medium grey		
76			
78	- medium plastic		
80			
82			
84	- very stiff, moist		
86			
88	SILT - sandy, trace of clay, very stiff, wet		
90			

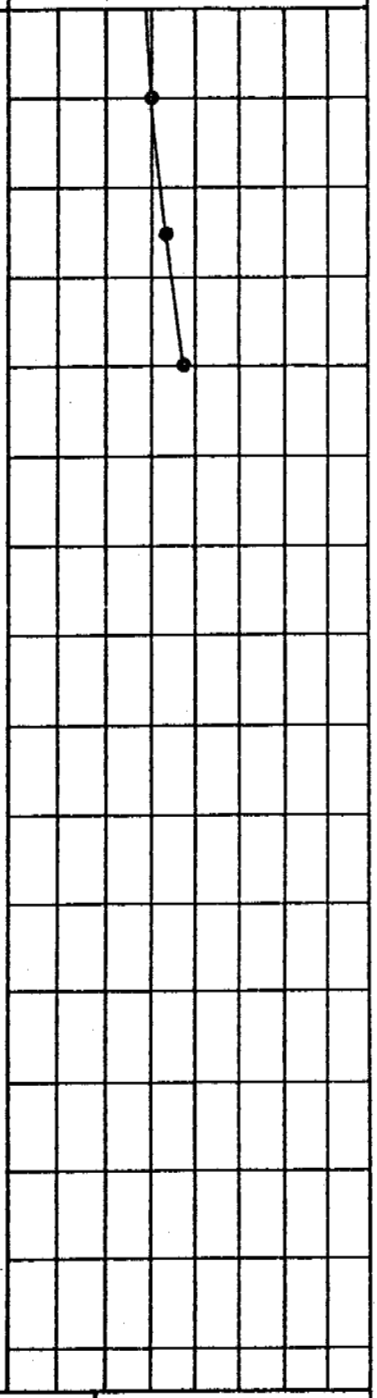


ICE THICKNESS (ft.) 6	DATE DRILLED 6/4/75	HOLE Nº
WATER DEPTH (ft.) 39	TECHNICIAN TH	H-56-1
COMPLETION DEPTH (ft.) 98 1/2	REGION Issigak	Page 3 of 4

IMPERIAL OIL LIMITED
BEAUFORT SEA DRILLING PROGRAM - 1975

DEPTH (feet)	SOIL DESCRIPTION	SAMPLE	GROUND ICE CONDITION
	SILT		
	- as above		
92			
94			NOT FROZEN
96			
	- trace of clay, moist to wet, hard		
98			
100	END OF HOLE		

MOISTURE CONTENT % ●
SPT RESISTANCE ▲
10 20 30 40 50 60 70
COMP. STRENGTH T.S.F ■
1 2 3



ICE THICKNESS (ft.) 6	DATE DRILLED 6/4/75	HOLE Nº
WATER DEPTH (ft.) 39	TECHNICIAN TH	H-56-1
COMPLETION DEPTH (ft.) 98 1/2	REGION Issigak	Page 4 of 4

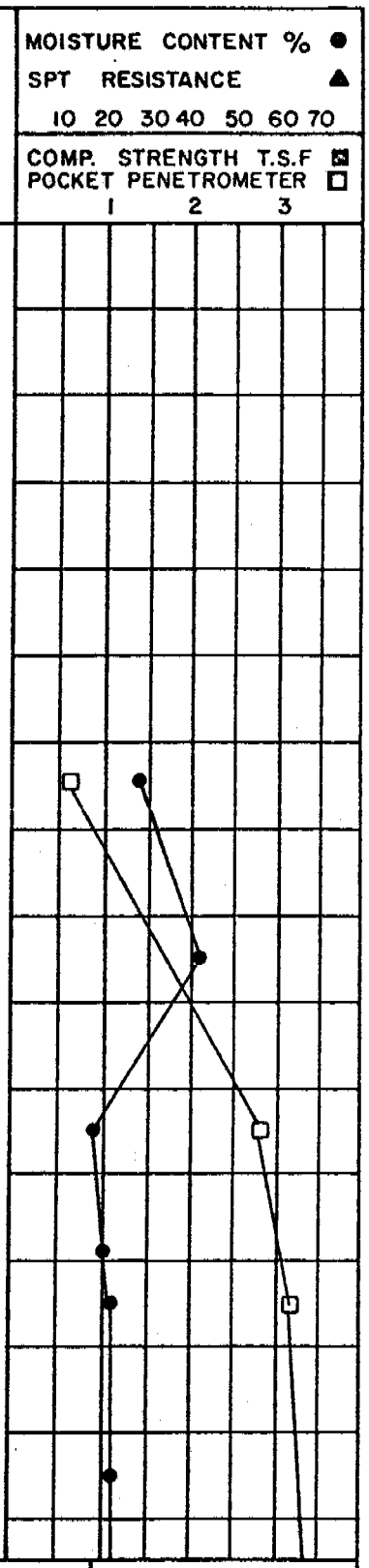
IMPERIAL OIL LIMITED
BEAUFORT SEA DRILLING PROGRAM – 1975

DEPTH (feet)	SOIL DESCRIPTION	SAMPLE	GROUND ICE CONDITION	MOISTURE CONTENT % ● SPT RESISTANCE ▲ 10 20 30 40 50 60 70 COMP. STRENGTH T.S.F. ■ 1 2 3
2	ICE			
4				
6	WATER			
8				
10				
12				
14				
16				
18				
20				
22				
24				
26				
28				
30				

eba	ICE THICKNESS (ft.) 5 1/2	DATE DRILLED 5/4/75	HOLE Nº
	WATER DEPTH (ft.) 40	TECHNICIAN TH	H-56-2
	COMPLETION DEPTH (ft.) 1 1/2	REGION Issigak	Page 1 of 4

IMPERIAL OIL LIMITED
BEAUFORT SEA DRILLING PROGRAM - 1975

DEPTH (feet)	SOIL DESCRIPTION	SAMPLE	GROUND ICE CONDITION
32			
34	WATER		
36			
38			
40	SILT-CLAY trace of organics dark grey to black firm, moist		NOT FROZEN
42			
44			
46	-some clay to clayey		
48			
50	SILT-CLAY - some fine gravel (TILL) trace of fine sand,		
52	- very stiff damp to moist - low plastic		
54	- thin sand lens at 54 1/2 Feet		
56	SILT-CLAY - trace of sand - very stiff - low plastic		
58			
60			

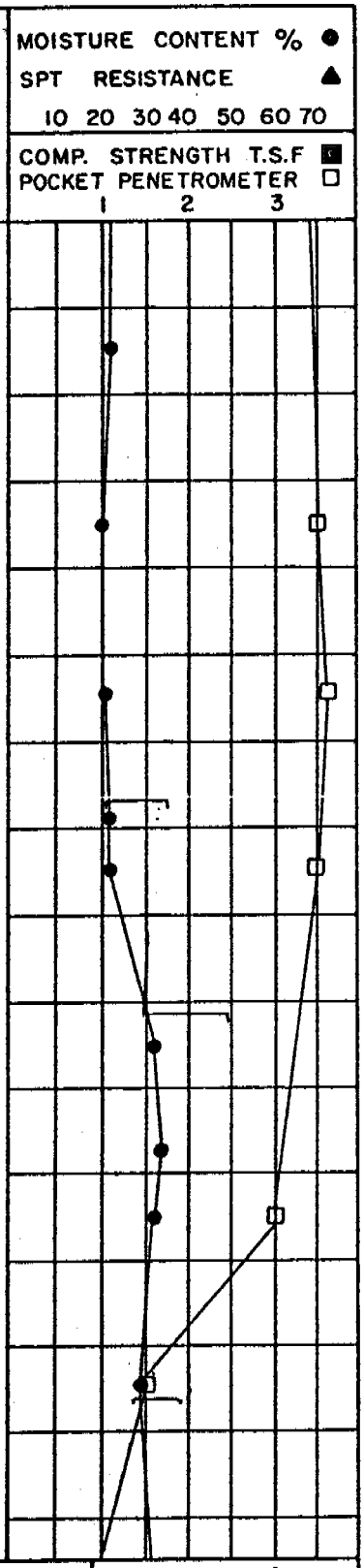


ICE THICKNESS (ft.) 5 1/2	DATE DRILLED 5/4/75	HOLE Nº
WATER DEPTH (ft.) 40	TECHNICIAN TH	H-56-2
COMPLETION DEPTH (ft.) 114 1/2	REGION Issigak	Page 2 of 4

IMPERIAL OIL LIMITED

BEAUFORT SEA DRILLING PROGRAM - 1975

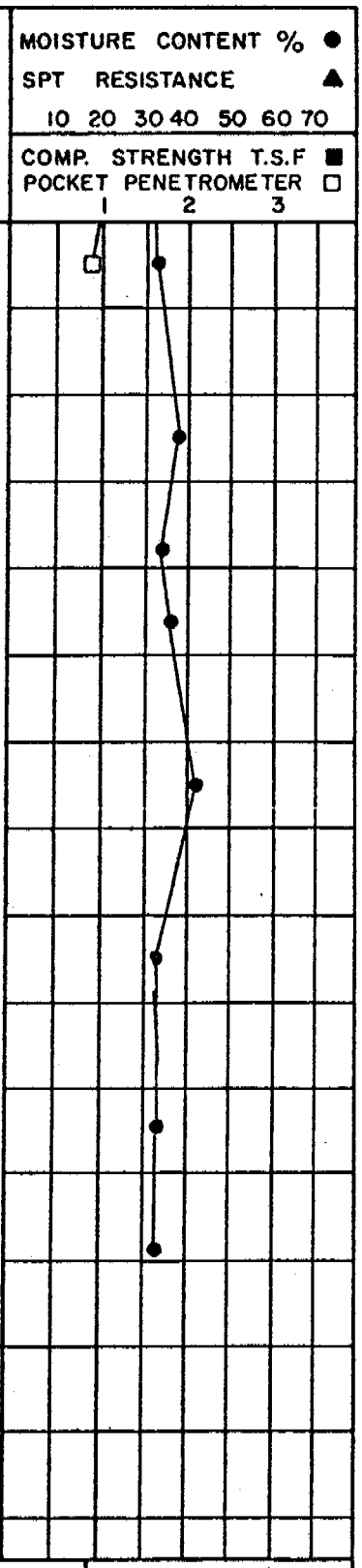
DEPTH (feet)	SOIL DESCRIPTION	SAMPLE	GROUND ICE CONDITION
62	SILT-CLAY - as above		
64			NOT FROZEN
66			
68	- as above, very stiff - low plastic		
70			
72			
74			
76			
78	CLAY-SILT - very stiff medium grey, moist fissured and salt stained, - medium plastic		
80			
82			
84	SILT - medium grey, moist - medium plastic - some clay		
86			
88			
90			



eoa	ICE THICKNESS (ft.) 5 1/2	DATE DRILLED 5/4/75	HOLE Nº
	WATER DEPTH (ft.) 40	TECHNICIAN TH	H-56-2
	COMPLETION DEPTH (ft.) 114 1/2	REGION Issigak	Page 3 of 4

IMPERIAL OIL LIMITED
BEAUFORT SEA DRILLING PROGRAM - 1975

DEPTH (feet)	SOIL DESCRIPTION	SAMPLE	GROUND ICE CONDITION
92	SILT - some clay medium to dark grey firm, wet, trace of salts, fissured		
94			NOT FROZEN
96	- trace fine sand dark grey, wet very stiff		
98		X	
	- as above, trace of clay		
100			
102			
104			
106			
108			
110			
112			
114		X	
116	END OF HOLE		



ICE THICKNESS (ft.) 5 1/2	DATE DRILLED 5/4/75	HOLE Nº
WATER DEPTH (ft.) 40	TECHNICIAN TH	H-56-2
COMPLETION DEPTH (ft.) 114 1/2	REGION Issigak	Page 4 of 4

IMPERIAL OIL LIMITED
BEAUFORT SEA DRILLING PROGRAM - 1975

DEPTH (feet)	SOIL DESCRIPTION	SAMPLE	GROUND ICE CONDITION	MOISTURE CONTENT % ● SPT RESISTANCE ▲ 10 20 30 40 50 60 70 COMP. STRENGTH T.S.F. ■ 1 2 3
2				
4	ICE			
6				
8				
10				
12				
14				
16	WATER			
18				
20				
22				
24				
26				
28				
30				

eoa	ICE THICKNESS (ft.) 6	DATE DRILLED 4/4/75	HOLE Nº
	WATER DEPTH (ft.) 40	TECHNICIAN TH	H-56-3
	COMPLETION DEPTH (ft.) 97	REGION Issigak	Page 1 of 4

IMPERIAL OIL LIMITED
BEAUFORT SEA DRILLING PROGRAM - 1975

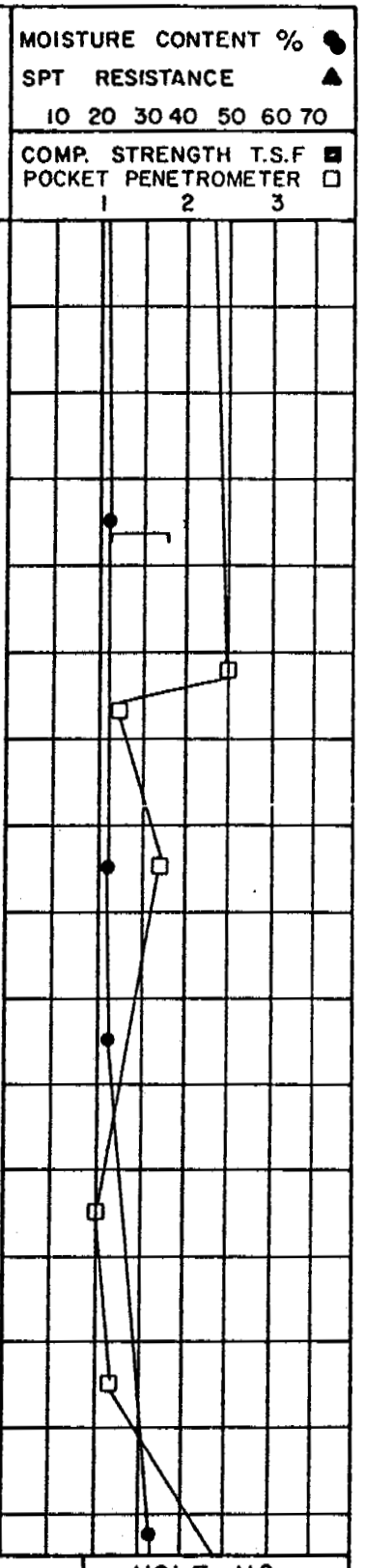
DEPTH (feet)	SOIL DESCRIPTION	SAMPLE	GROUND ICE CONDITION
32	WATER		
34			
36			
38			
40			
42	- no recovery, casing dropped under own weight		NOT FROZEN
44			
46	- assumed to be very soft - silt-clay		
48			
50			
52			
54	SILT-CLAY (TILL) - some fine gravel trace of sand, stiff, moist - low plastic		
56			
58	SILT-CLAY - trace of sand, stiff, moist - some pebbles		
60			

MOISTURE CONTENT % ●
SPT RESISTANCE ▲
10 20 30 40 50 60 70
COMP. STRENGTH T.S.F ■
POCKET PENETROMETER □
1 2 3

ICE THICKNESS (ft.) 6	DATE DRILLED 4/4/75	HOLE Nº
WATER DEPTH (ft.) 40	TECHNICIAN TH	H-56-3
COMPLETION DEPTH (ft.) 97	REGION Issigak	Page 2 of 4

IMPERIAL OIL LIMITED
BEAUFORT SEA DRILLING PROGRAM - 1975

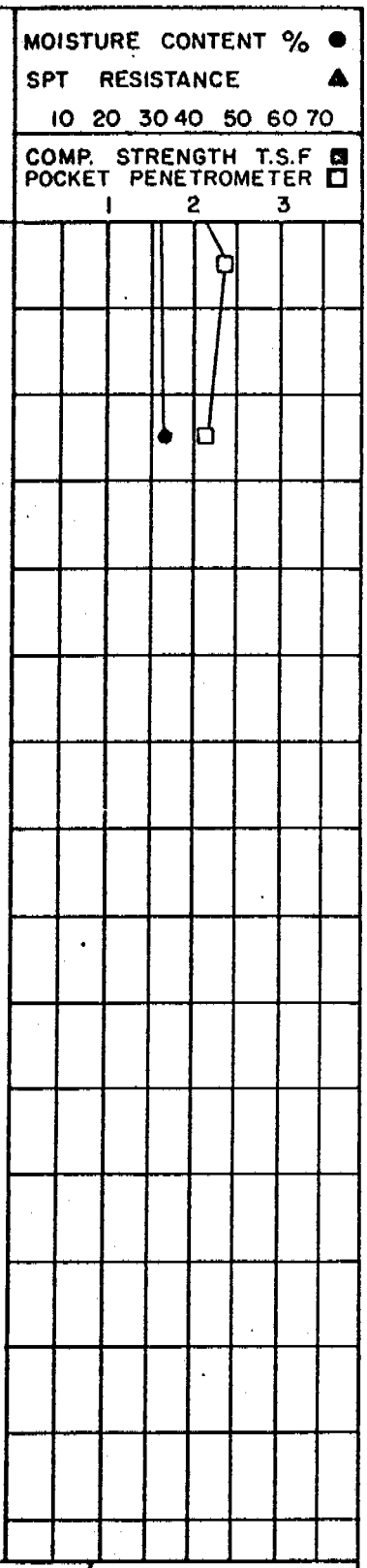
DEPTH (feet)	SOIL DESCRIPTION	SAMPLE	GROUND ICE CONDITION
	SILT-CLAY		
62	- as above		
64			NOT FROZEN
66	- low plastic		
68			
70	- firm - stiff		
72			
74			
76			
78	-gravel to 1/2 inch (ice rafted?) - some sand		
80			
82			
84			
86			
88	CLAY		
90	- silty - low plastic		



ICE THICKNESS (ft.) 6	DATE DRILLED 4/4/75	HOLE Nº
WATER DEPTH (ft.) 40	TECHNICIAN TH	H-56-3
COMPLETION DEPTH (ft.) 97	REGION Issigak	Page 3 of 4

IMPERIAL OIL LIMITED
BEAUFORT SEA DRILLING PROGRAM - 1975

DEPTH (feet)	SOIL DESCRIPTION	SAMPLE	GROUND ICE CONDITION
	CLAY- as above		
92	- trace of organics and shells		NOT FROZEN
94	medium grey		
	stiff, damp to moist		
96			
98	END OF HOLE		
100			
101			
102			



ICE THICKNESS (ft.) 6	DATE DRILLED 4/4/75	HOLE Nº
WATER DEPTH (ft.) 40	TECHNICIAN TH	H-56-3
COMPLETION DEPTH (ft.) 97	REGION Issigak	Page 4 of 4

IMPERIAL OIL LIMITED
BEAUFORT SEA DRILLING PROGRAM - 1975

DEPTH (feet)	SOIL DESCRIPTION	SAMPLE	GROUND ICE CONDITION	MOISTURE CONTENT % ● / SPT RESISTANCE ▲ (10 20 30 40 50 60 70) / COMP. STRENGTH T.S.F. ■ (1 2 3)
2	ICE			
4				
6				
8	WATER			
10				
12	SILT - trace of fine sand, soft, wet dark grey		NOT FROZEN	
14				
16				
18				
20				
22				
24				
26				
28				
30				

	ICE THICKNESS (ft.) 5 1/2	DATE DRILLED 9/4/75	HOLE Nº G-C-3
	WATER DEPTH (ft.) 10 1/2	TECHNICIAN TH	
	COMPLETION DEPTH (ft.) 59	REGION Garry Island	Page 1 of 2

IMPERIAL OIL LIMITED
BEAUFORT SEA DRILLING PROGRAM - 1975

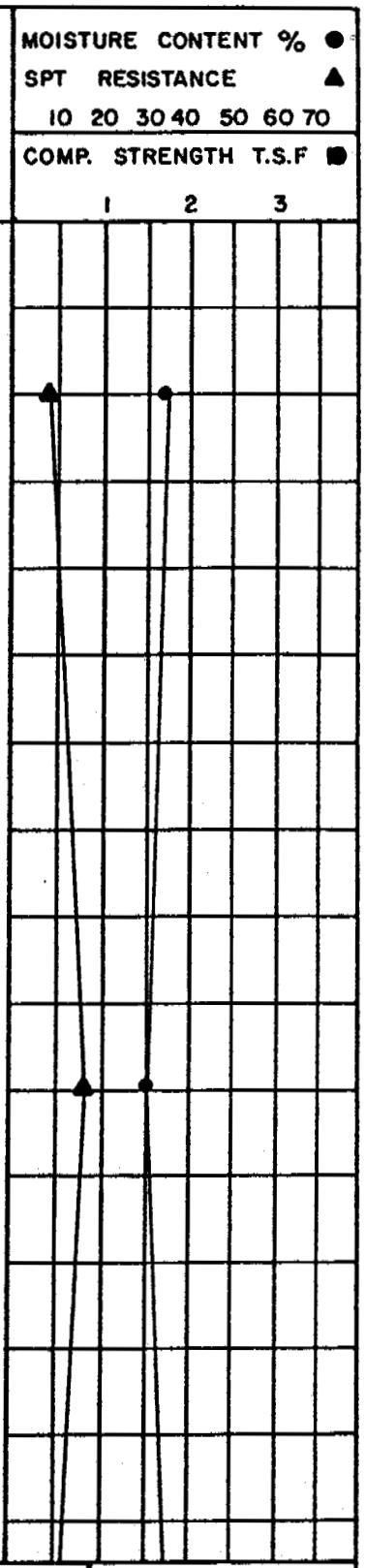
DEPTH (feet)	SOIL DESCRIPTION	SAMPLE	GROUND ICE CONDITION
32	SILT - dark grey to black trace of fine sand and clay, some organics, very stiff, moist		NOT FROZEN
34			
36			
38			
40	- some fine sand, trace of gravel and clay firm, moist- wet		
42			
44	SAND - gravelly, medium grey, 3/4" maximum, wet, trace of silt		
46			
48	- becoming silty		
50	SAND & SILT - trace of clay, some fine gravel; stiff, moist, some organic inclusions		
52			
54			
56			
58			
60	END OF HOLE		

MOISTURE CONTENT % ●
SPT RESISTANCE ▲
10 20 30 40 50 60 70
COMP. STRENGTH T.S.F ■ □
1 2 3
Pocket Pentrometer psf

ICE THICKNESS (ft.) 5 1/2	DATE DRILLED 9/4/75	HOLE Nº G-C-3
WATER DEPTH (ft.) 10 1/2	TECHNICIAN TH	
COMPLETION DEPTH (ft.) 59	REGION Garry Island	Page 2 of 2

IMPERIAL OIL LIMITED
BEAUFORT SEA DRILLING PROGRAM - 1975

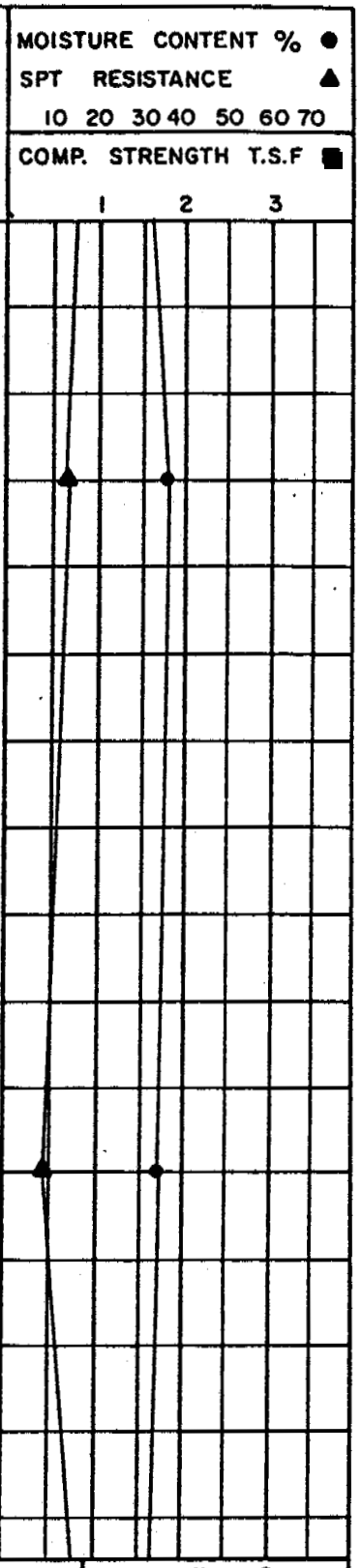
DEPTH (feet)	SOIL DESCRIPTION	SAMPLE	GROUND ICE CONDITION
32	SILT - as above		UNFROZEN
34	- sand laminae, moist, laminated, firm	X	
36			
38			
40			
42	- non plastic	■	
44			
46			
48			
50	- very stiff	X	
52			
54			
56			
58		■	
60			



eba	ICE THICKNESS (ft.) 4	DATE DRILLED 16/4/75	HOLE Nº
	WATER DEPTH (ft.) 5 1/2	TECHNICIAN EF	C-56-1
	COMPLETION DEPTH (ft.) 106½	REGION Olivier Islands	Page 2 of 4

IMPERIAL OIL LIMITED
BEAUFORT SEA DRILLING PROGRAM - 1975

DEPTH (feet)	SOIL DESCRIPTION	SAMPLE	GROUND ICE CONDITION
	SILT - as above		UNFROZEN
62			
64			
66	- stiff, some clay	X	
68			
70			
72			
74		■	
76			
78			
80			
82	CLAY - dark grey, silty, low plastic, stiff	X	
84			
86			
88			
90		■	



ICE THICKNESS (ft.) 4	DATE DRILLED 16/4/75	HOLE Nº
WATER DEPTH (ft.) 5 1/2	TECHNICIAN EF	C-56-1
COMPLETION DEPTH (ft.) 106 1/2	REGION Olivier Islands	Page 3 of 4

IMPERIAL OIL LIMITED
BEAUFORT SEA DRILLING PROGRAM - 1975

DEPTH (feet)	SOIL DESCRIPTION	SAMPLE	GROUND ICE CONDITION	MOISTURE CONTENT % ● SPT RESISTANCE ▲ 10 20 30 40 50 60 70 / COMP. STRENGTH T.S.F ■ 1 2 3
	CLAY - as above		UNFROZEN	
92				
94				
96				
98	- very stiff	☒		▲ ●
100				
102				
104				
106		■		
108	END OF HOLE			

	ICE THICKNESS (ft.) 4	DATE DRILLED 16/4/75	HOLE Nº
	WATER DEPTH (ft.) 5 1/2	TECHNICIAN EF	C-56-1
	COMPLETION DEPTH (ft.) 106 1/2	REGION Olivier Islands	Page 4 of 4

IMPERIAL OIL LIMITED
BEAUFORT SEA DRILLING PROGRAM – 1975

DEPTH (feet)	SOIL DESCRIPTION	SAMPLE	GROUND ICE CONDITION	MOISTURE CONTENT % ● SPT RESISTANCE ▲ 10 20 30 40 50 60 70 COMP. STRENGTH T.S.F. ■ POCKET PENETROMETER □
2	ICE			
4				
6	WATER		NOT FROZEN	
8				
10				
12	SILT (FILL) - some sandy gravel fine, 1 1/2" maximum dark grey			
14				
16				
18	- gravelly, 3/4" maximum			
20				
22				
24	SEABED			
26	SILT - firm, dark grey			□
28				
30				

ICE THICKNESS (ft.) 5 1/2	DATE DRILLED 3/4/75	HOLE Nº F-40-1
WATER DEPTH (ft.) 12	TECHNICIAN TH	
COMPLETION DEPTH (ft.) 33	REGION Netserk N.	Page 1 of 2

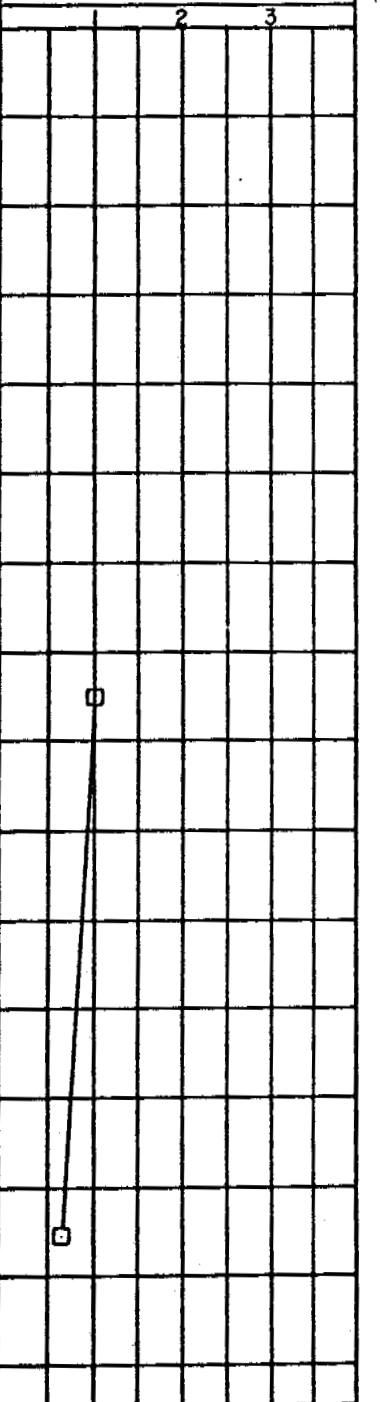
IMPERIAL OIL LIMITED
BEAUFORT SEA DRILLING PROGRAM - 1975

DEPTH (feet)	SOIL DESCRIPTION	SAMPLE	GROUND ICE CONDITION	MOISTURE CONTENT % ● SPT RESISTANCE ▲ 10 20 30 40 50 60 70 / COMP. STRENGTH T.S.F ■ 1 2 3
	SILT - as above			
32				
34	END OF HOLE			
36				

	ICE THICKNESS (ft.) 5 1/2	DATE DRILLED 3/4/75	HOLE Nº
	WATER DEPTH (ft.) 12	TECHNICIAN TH	F-40-1
	COMPLETION DEPTH (ft.) 33	REGION Netserk N.	Page 2 of 2

IMPERIAL OIL LIMITED
BEAUFORT SEA DRILLING PROGRAM – 1975

DEPTH (feet)	SOIL DESCRIPTION	SAMPLE	GROUND ICE CONDITION
2	ICE		
4			
6			
8	WATER		
10			
12	SILT - some gravel, 1/2" maximum (FILL) trace of fine sand ,fine		
14			
16	- trace of gravel and fine sand		NOT FROZEN
18			
20	- gravelly, some fine sand, dark brown		
22			
24	SEA BED		
26	SILT - firm dark grey		
28			
30			



	ICE THICKNESS (ft.) 5 1/2	DATE DRILLED 3/4/75	HOLE Nº F-40-2
	WATER DEPTH (ft.) 11	TECHNICIAN TH	
	COMPLETION DEPTH (ft.) 33	REGION Netserk N.	Page 1 of 2

IMPERIAL OIL LIMITED
BEAUFORT SEA DRILLING PROGRAM - 1975

DEPTH (feet)	SOIL DESCRIPTION	SAMPLE	GROUND ICE CONDITION	MOISTURE CONTENT % ● SPT RESISTANCE ▲ 10 20 30 40 50 60 70 / COMP. STRENGTH T.S.F ■ 1 2 3
	SILT - as above			
32				
	END OF HOLE			
34				
36				

ICE THICKNESS (ft.) 5 1/2	DATE DRILLED 3/4/75	HOLE Nº	
WATER DEPTH (ft.) 11	TECHNICIAN TH	F-40-2	
COMPLETION DEPTH (ft.) 33	REGION Netserk N.	Page 2 of 2	

IMPERIAL OIL LIMITED
BEAUFORT SEA DRILLING PROGRAM – 1975

DEPTH (feet)	SOIL DESCRIPTION	SAMPLE	GROUND ICE CONDITION
2	ICE		
4			
6	WATER		NOT FROZEN
8			
10			
12			
14	SILT (FILL) - sandy, some gravel, dark grey		
16			
18			
20			
22	GRAVEL (FILL) sandy, silty, fine uniform		
24	SEA BED		
26	SILT - some shells and organics, firm to stiff dark grey	X	
28			
30			

MOISTURE CONTENT % ●
SPT RESISTANCE ▲
10 20 30 40 50 60 70
COMP. STRENGTH T.S.F. ■
1 2 3

▲

ICE THICKNESS (ft.) 5 1/2	DATE DRILLED 3/4/75	HOLE Nº F-40-3
WATER DEPTH (ft.) 14	TECHNICIAN TH	
COMPLETION DEPTH (ft.) 33	REGION Netserk N.	Page 1 of 2

IMPERIAL OIL LIMITED
BEAUFORT SEA DRILLING PROGRAM - 1975

DEPTH (feet)	SOIL DESCRIPTION	SAMPLE	GROUND ICE CONDITION	MOISTURE CONTENT % ● / SPT RESISTANCE ▲ (10 20 30 40 50 60 70) / COMP. STRENGTH T.S.F ■ (1 2 3)
	SILT - as above			
32				
34	END OF HOLE			
36				

ICE THICKNESS (ft.) 5 1/2	DATE DRILLED 3/4/75	HOLE Nº F-40-3
WATER DEPTH (ft.) 14	TECHNICIAN TH	
COMPLETION DEPTH (ft.) 33	REGION Netserk N.	Page 2 of 2