

HOME

SILT

LAKE H-64

9211-H5-1-1



Canada Oil and Gas
Lands Administration

Administration du pétrole
et du gaz des terres du Canada

D.A. # 1121

E.A. 173

Nova Scotia
Newfoundland
Gulf of St. Lawrence

☐ West Coast
☐ Northern
☐ Hudson Bay

☐ Exploratory
☒ Development
☐ Delineation
☐ Service

☒
☐
☐
☐

AUTHORITY TO DRILL A WELL

APPLICATION

This application is submitted with Section 82 of the Canada Oil and Gas Drilling Regulations. When approved under Section 83 of the Regulations, it is the requisite authority for the commencement of drilling operations.

Well Name in Full: Home Silt Lake A-64 6010 - 11845
Operator: Home Oil Company Limited Drilling Program No: _____
Contractor: Hi-Tower Drilling Permit or Lease No: Exploration Permit # 173
Drilling Rig or Unit: Rig # 17 Estimated Well Cost: 1,062,000 (Drilling only)
Location-Unit: A Section: 64 Grid Area: 60-10-118-30
Coordinates: Lat: 60° 03' 14" N Long: 118° 56' 34.3" W
Area: West Cameron Hills Field/Pool: N/A
Elevation-RT/KB: 626 m (ASL) ~~seam~~ Ground 620 m (BRT)
Approx. Spud Date: 1983 12 20 Estimated Days on Location: 30 days
Anticipated Total Depth: 1820 m Target Horizon(s) Slave Point - 1505 m, Sulphur
UWI: 300A646010118300 Point - 1571 m, Upper Keg River - 1671 m

EVALUATION PROGRAM

Ten-metre sample intervals Surface to Surface casing T.D.
Five-metre sample intervals Surface Casing (475 m) to T.D.
Canned sample intervals Surface Casing (475 m) to T.D.
Conventional cores at Slave Point at 1501 m, possibly
Logs and Tests 222 mm and 152 mm - BHC-Sonic-GR, CNL-FDC, DILL, ML
Drill Stem Tests as required

CASING AND CEMENTING PROGRAM

O.D.	Weight:	Grade:	Setting Depth (KB)	Cementing Program (Volumes):
339.7 mm	81.3 kg/m	JERW	120 m	120 m - Surface Class "G" (est. 12 m ³)
244.5 mm	53.6 kg/m	K55	475 m	475 m - Surface Class "G" (est. 21 m ³)
177.8 mm	34.2 kg/m	K55	1750 m	1750 m - 390 m Class "G" (est. 25 m ³)
114 mm	17.2 kg/m	K55	1825 m	1825 m - 1600 m Class "G" (est. 3 m ³)

NOTE: 177.8 mm to 1825 m if severe lost circulation is not encountered.

B.O.P. Equipment: Manifold - 21 MPa c/w Hydraulic Choke and HCR
Surface Hole: 14 MPa Diverter / Spool / Casing Head
Main Hole: 21 MPa Annular / Blind / Pipe / Spool / Pipe
Other Information: _____

Signed: G.W. Nicholl Title: G.W. Nicholl, Drilling Engineer
Date: 83-10-15 Company: Home Oil Company Limited

APPROVAL

An approved copy of this notice is to be posted at each wellsite.

Signed: L.S. Thomas
Engineering Branch
Date: 19 Dec 1983
File: 9211-H5-1-1

Department of Energy
Mines and Resources
Ministère de l'Énergie
des Mines et des Ressources

Department of Indian Affairs
and Northern Development
Ministère des Affaires indiennes
et du Nord Canadien

Canada



Nova Scotia ☐
Newfoundland ☐
Gulf of St. Lawrence ☐

West Coast ☐
Northern ☒
Hudson Bay ☐

Well Status
Suspended ☐
Completed ☒
Abandoned ☐

WELL TERMINATION RECORD

This record is submitted in triplicate in compliance with Section 184 of the Canada Oil and Gas Drilling Regulations.

WELL DATA

Well Name: Home Silt Lake A-64 Area: Cameron Hills, N.W.T.
Grid Area: 60° 10' 00" 118° 45' 00" Field/Pool: Wildcat
Permit or Lease No.: 1121 Final Coordinates: Lat: 60° 03' 16.667" Long: 118° 56' 36.430"
Drilling Unit: Hi. Tower Rig 17 Elevations RT/KB: 623.47 SF/GL: 619
Spud Date: 83-12-12-22:45 Rig Released: 84-02-04 Total Depth: 1833

CASING AND CEMENTING

O.D.:	Weight:	Grade:	Depth Set:	Cement and Additives:
339.7	71.42	H40	132.66	0:1:0 Class "G" + 2% CaCl ₂
244.5	53.57	K55	481.26	1:1:0 Class "G" + 2% CaCl ₂ + .5% CFR2
139.7	23.07	J55	1832.70	Filler 0:1:4 + .5% CFR-2
				Tail 0:1:0 + .75% CFR-2 + .3% HR4
				1833 - 1400 m

PLUGGING PROGRAM

Approval of the following program was obtained by (person) _____ from
(person) _____ of the Canada Oil and Gas Lands Administration by means of
_____ on _____ 19 ____

Type of Plug:	Interval:	Fell:	Cement and Additives:
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N/A			

Lost Circulation/Overpressure Zones: Nil

Equipment left on Seafloor (Describe): N/A

Provision for Re-entry (Describe and attach sketch): N/A

Cores: Type: Full Hole Intervals: 1514 - 1532
1532 - 1550

Other Downhole Completion/Suspension Equipment: Nil

CERTIFICATION

I certify on the basis of personal knowledge of operations undertaken at the above named well that the above information is accurate.

Signed: M.G. Wilcox P. Eng.

Name: M.G. Wilcox, P. Eng.

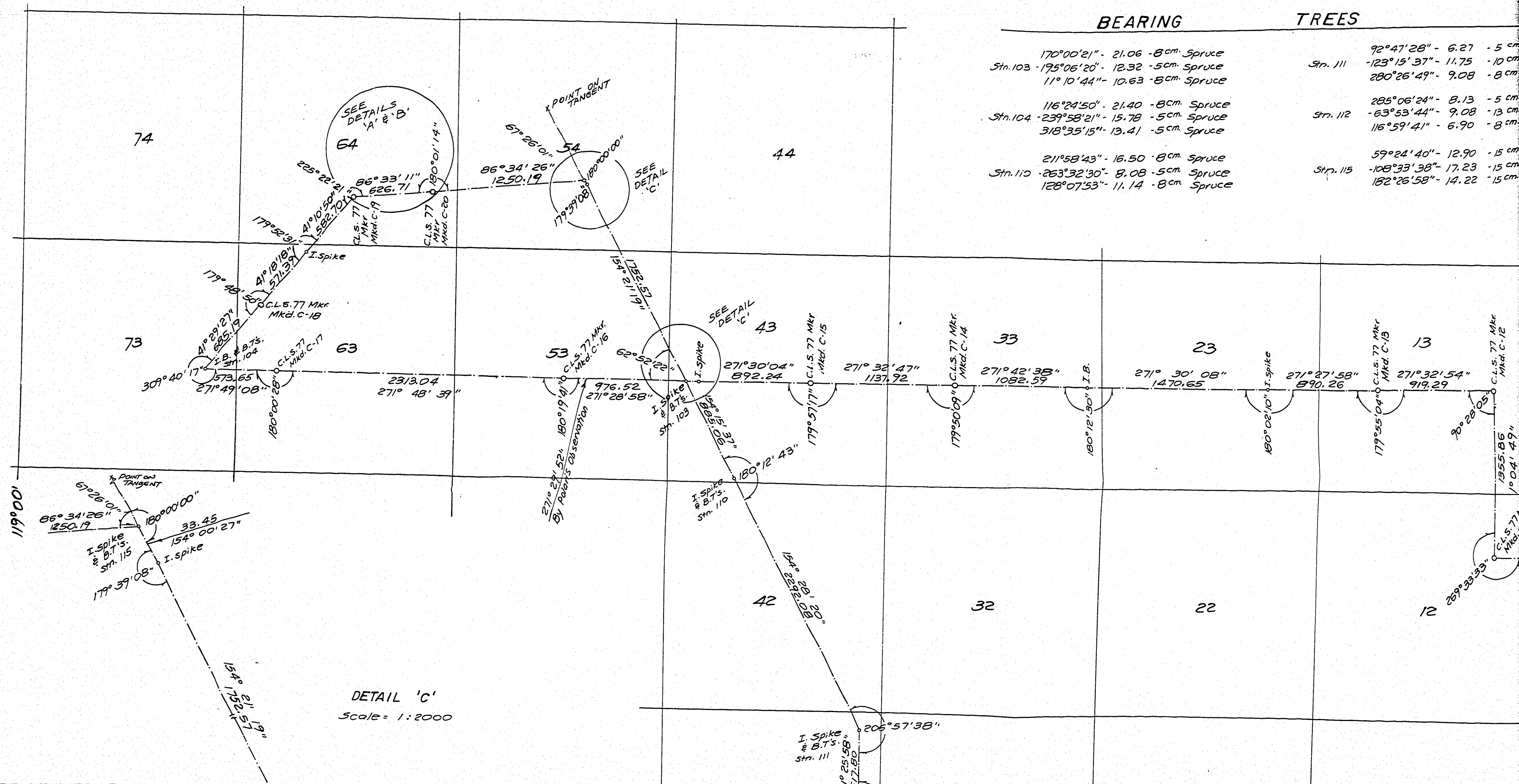
Title: Chief Drilling Engineer

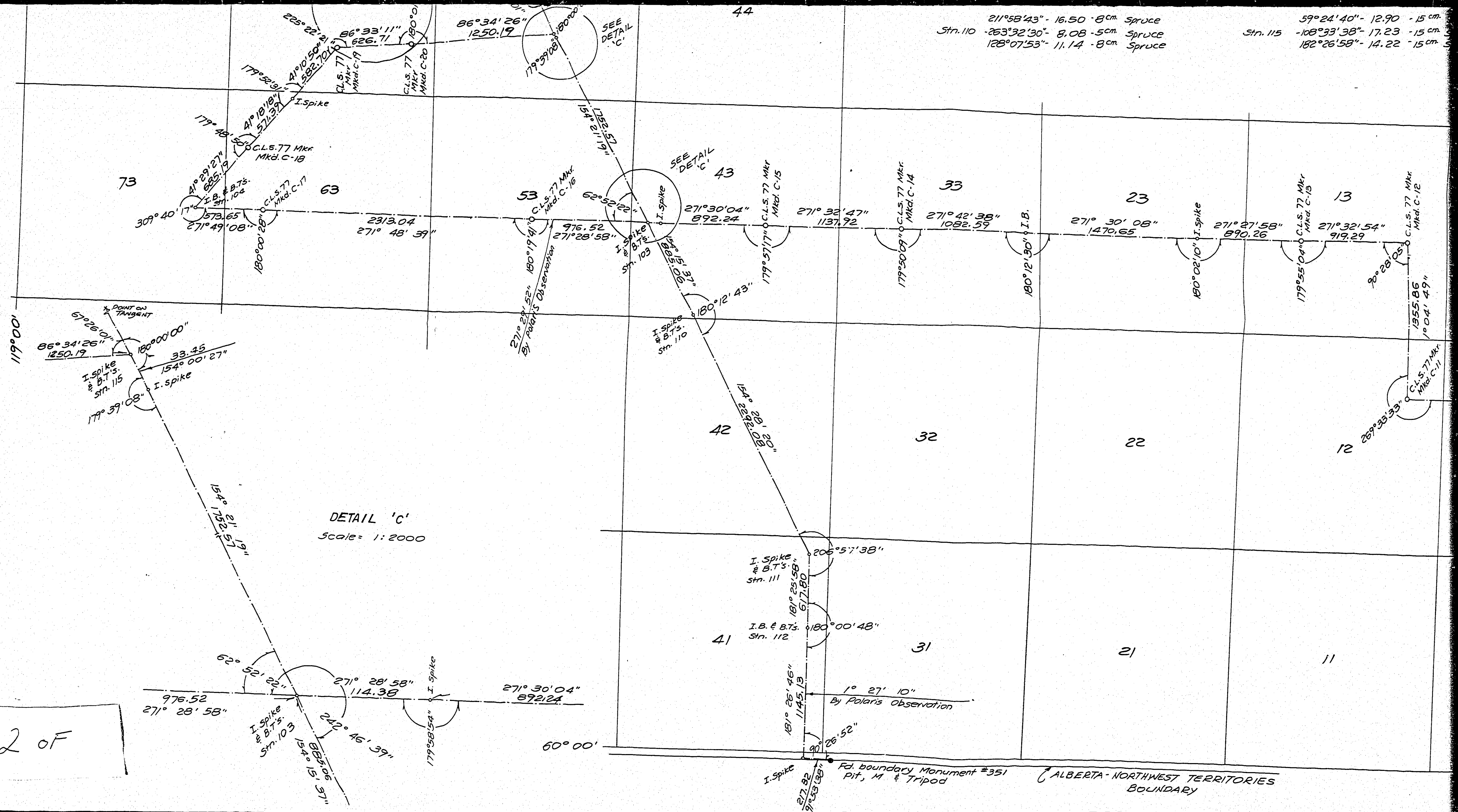
Date: 1984-09-07

Acknowledged by: _____
Engineering Branch

Date: _____

File: _____

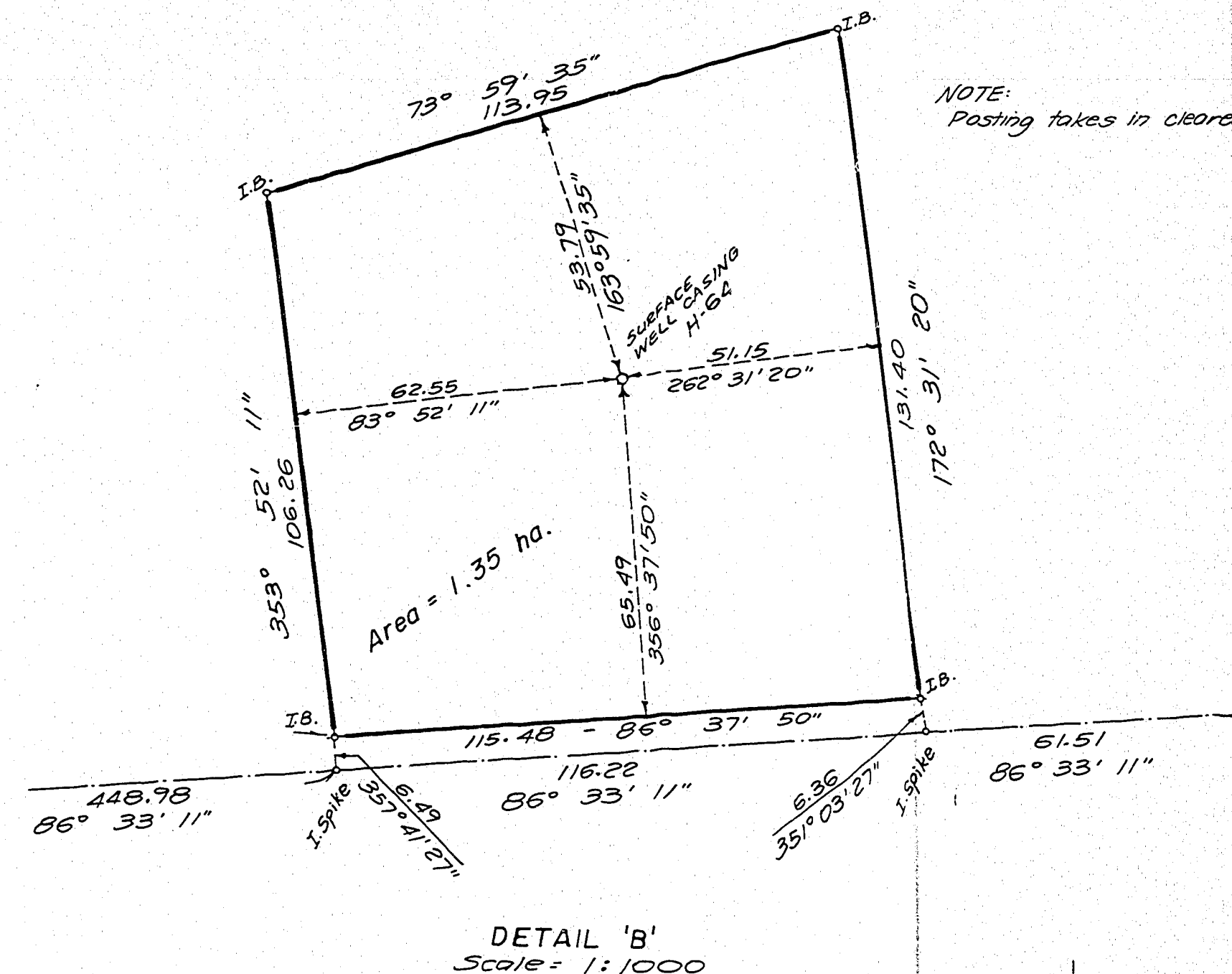
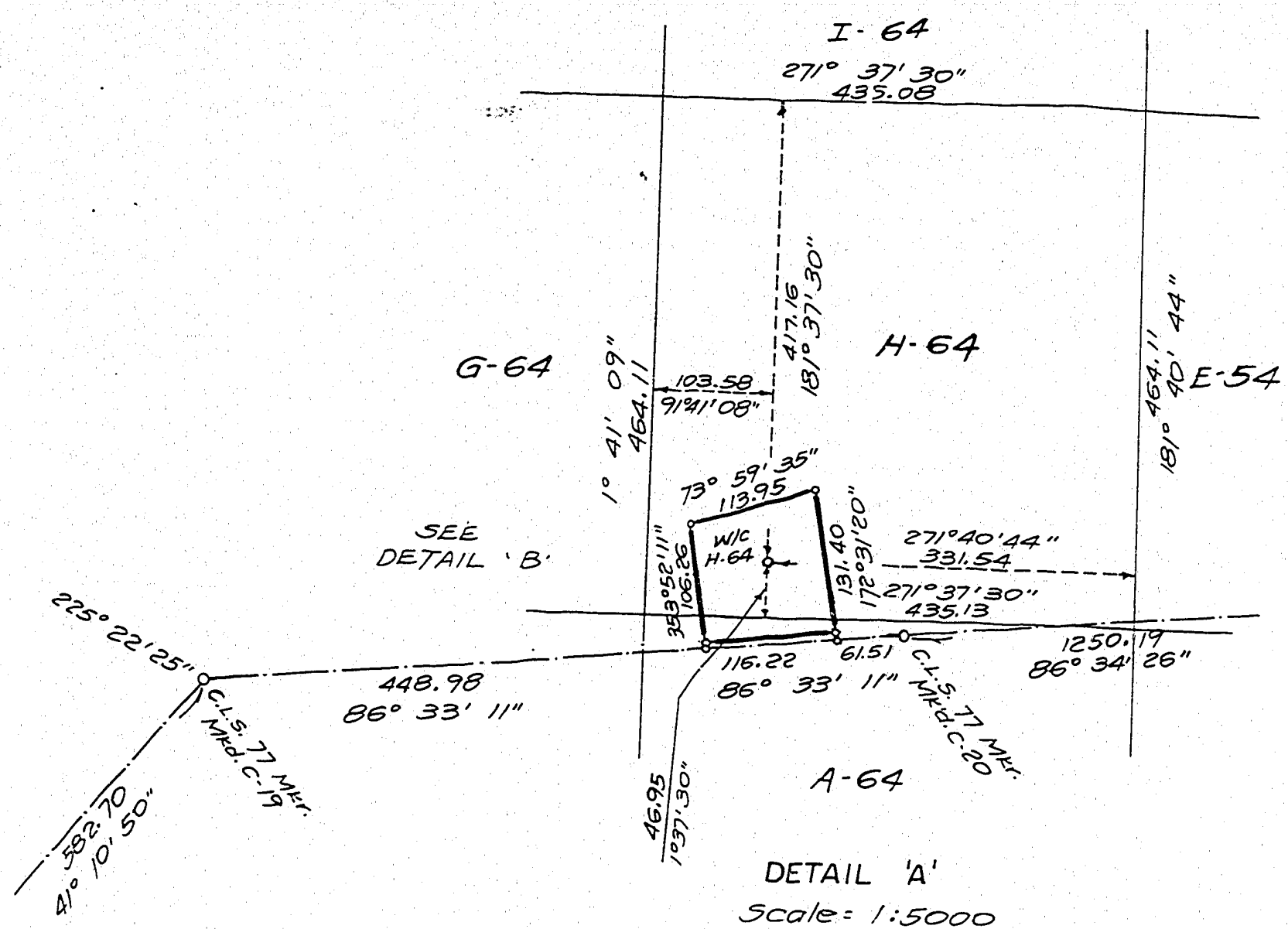
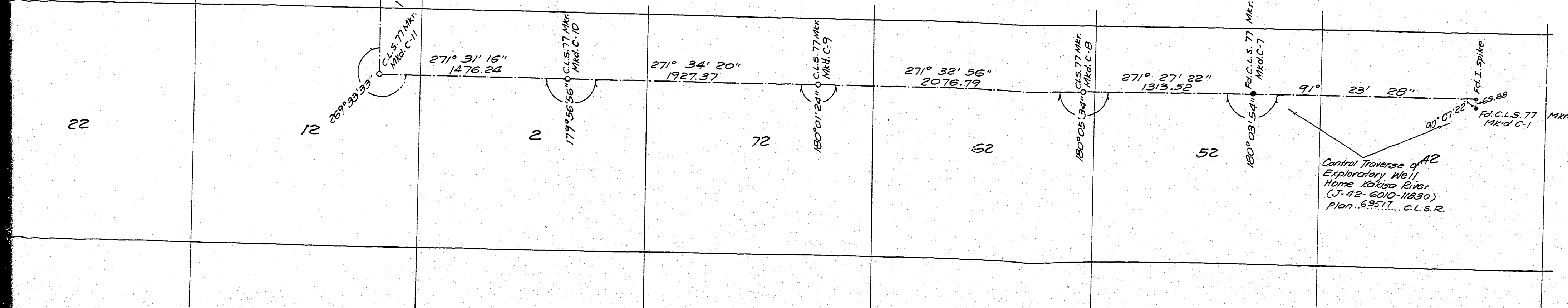
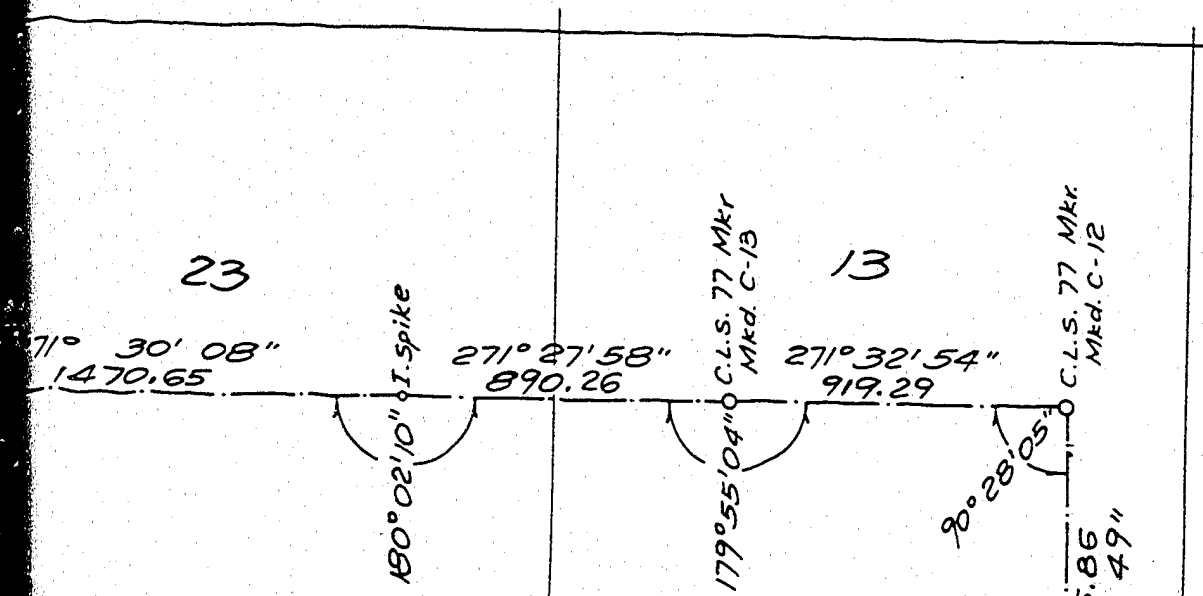




RING

TREES

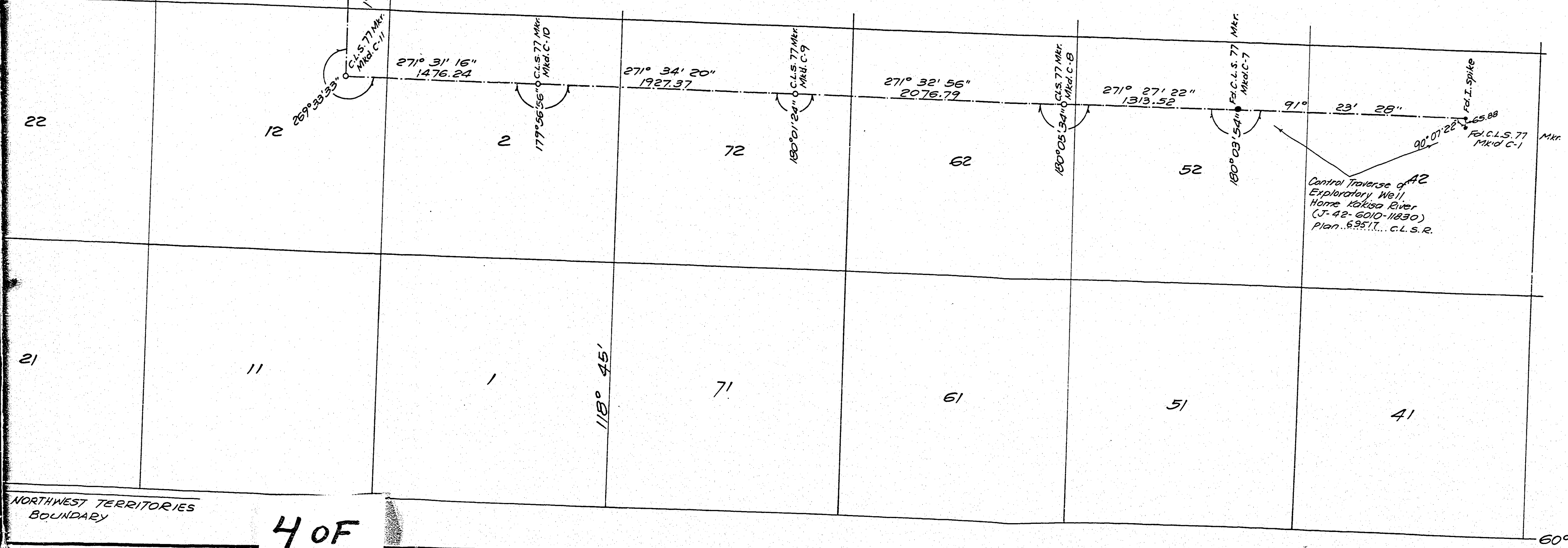
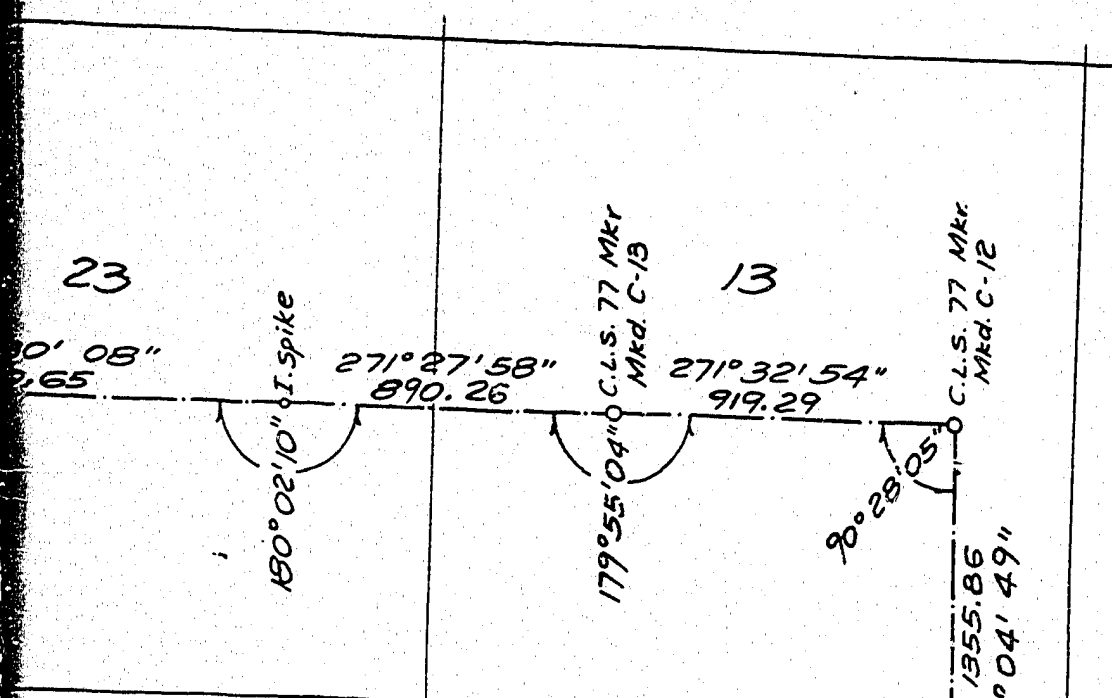
6 - 8 cm. Spruce	72° 47' 28" - 6.27 - 5 cm. Spruce
2 - 5 cm. Spruce	Str. 111 - 123° 15' 37" - 11.75 - 10 cm. Spruce
3 - 8 cm. Spruce	280° 26' 49" - 9.08 - 8 cm. Spruce
7 - 8 cm. Spruce	285° 06' 24" - 8.13 - 5 cm. Spruce
9 - 5 cm. Spruce	Str. 112 - 63° 53' 44" - 9.08 - 13 cm. Spruce
5 - 5 cm. Spruce	116° 59' 41" - 6.90 - 8 cm. Spruce
10 - 8 cm. Spruce	59° 24' 40" - 12.90 - 15 cm. Spruce
8 - 5 cm. Spruce	Str. 115 - 108° 33' 38" - 17.23 - 15 cm. Spruce
4 - 8 cm. Spruce	182° 26' 58" - 14.22 - 15 cm. Spruce



NOTE: Posting takes in cleared

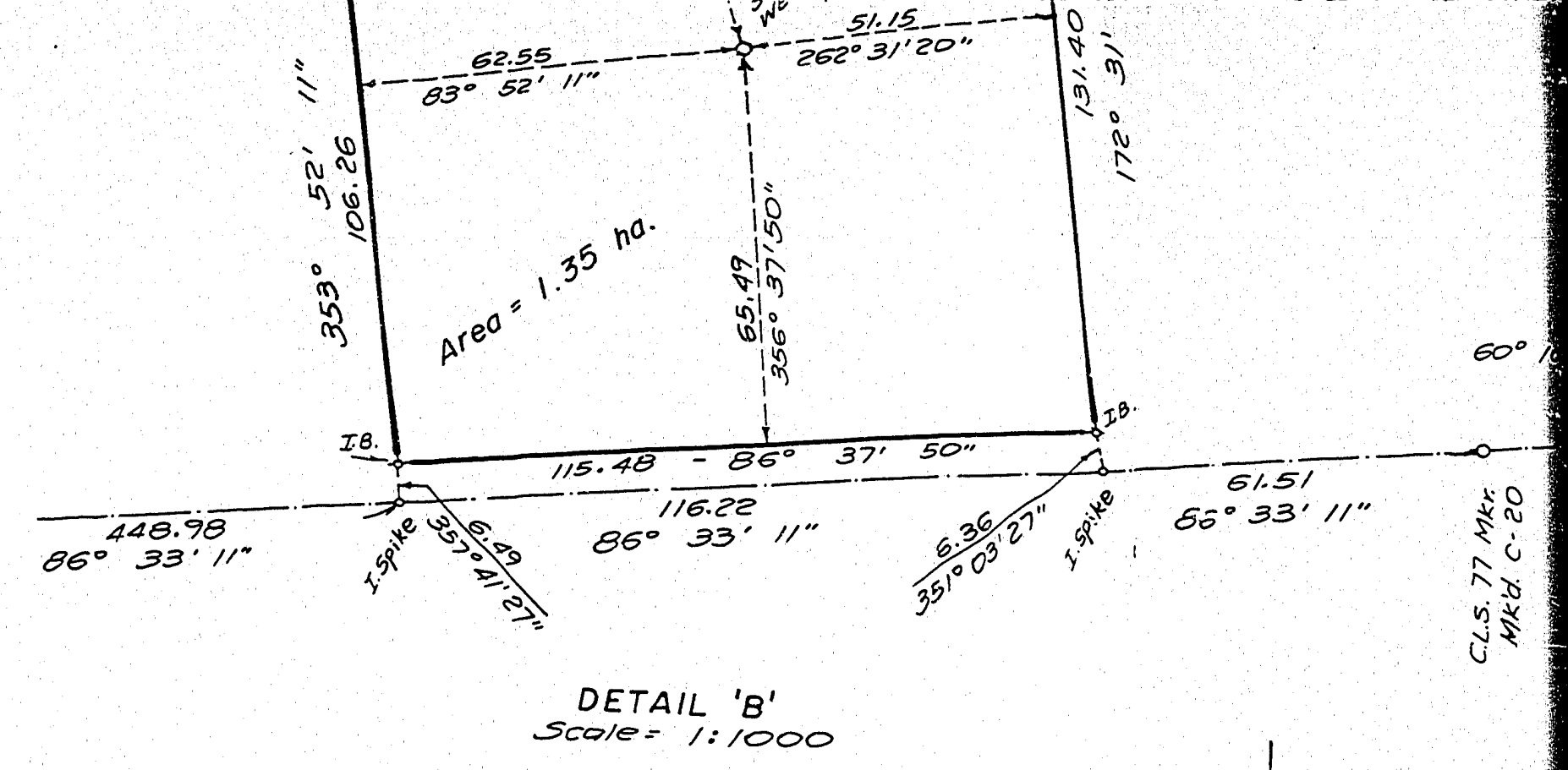
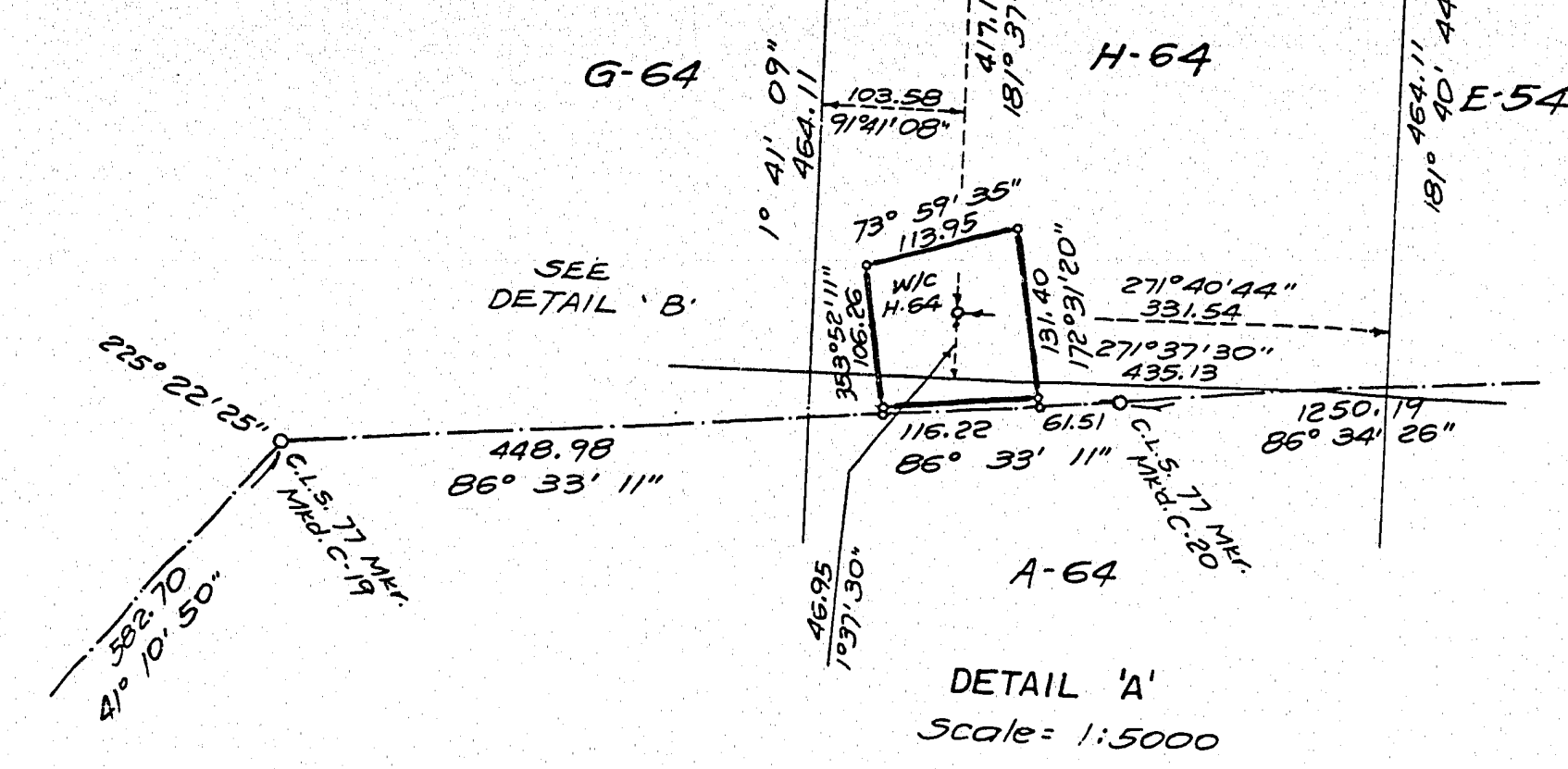
Control Traverse of A2
Exploratory Well
Home Kakisa River
(J-42-6010-11830)
Plan 6.9517... C.L.S.R.

Spruce 59°24'40"- 12.90 - 15 cm Spruce
 Spruce Str. 115 -108°33'38"- 17.23 - 15 cm Spruce
 Spruce 182°26'58"- 14.22 - 15 cm Spruce



NORTHWEST TERRITORIES
BOUNDARY

4 OF

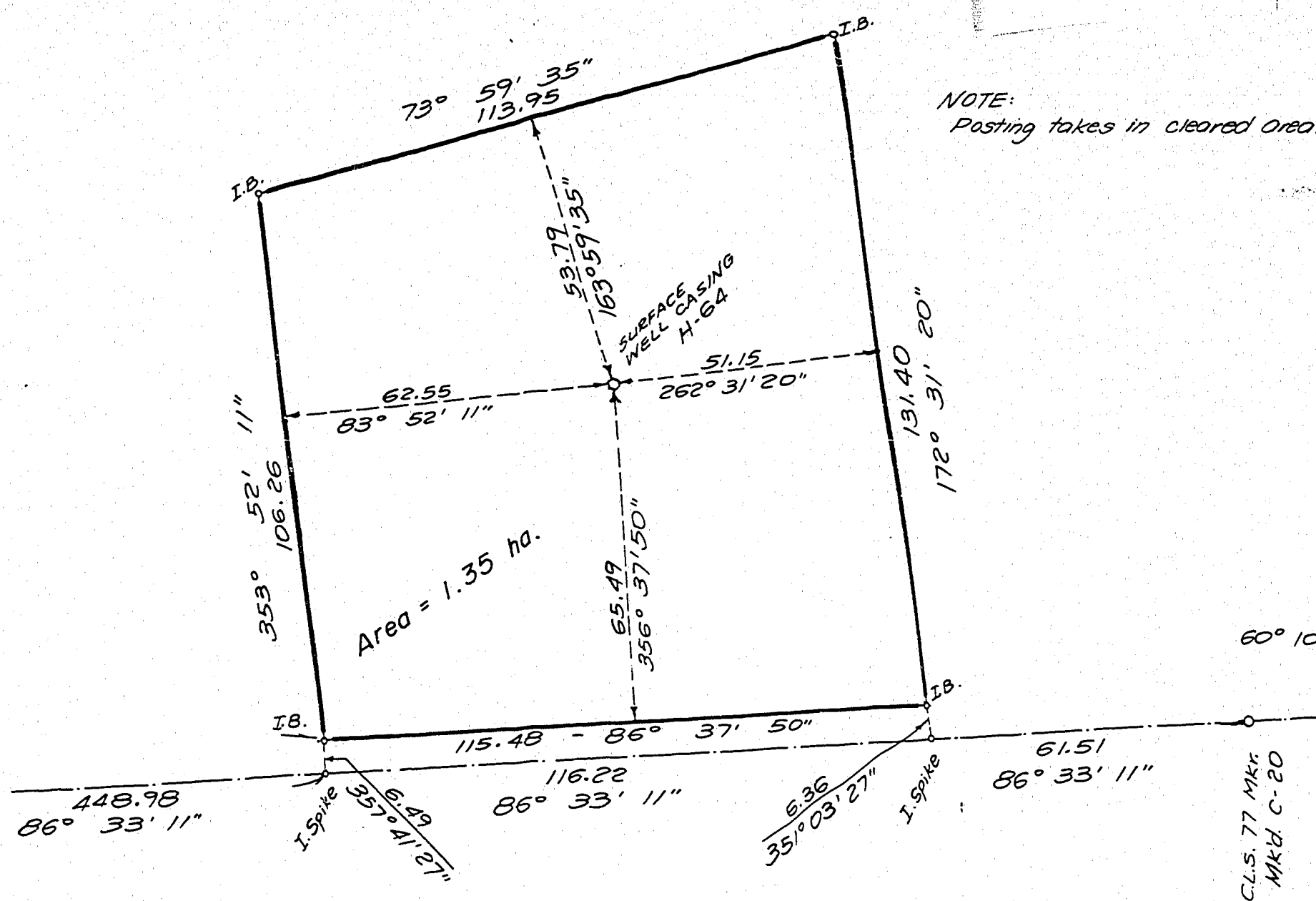


60°00'

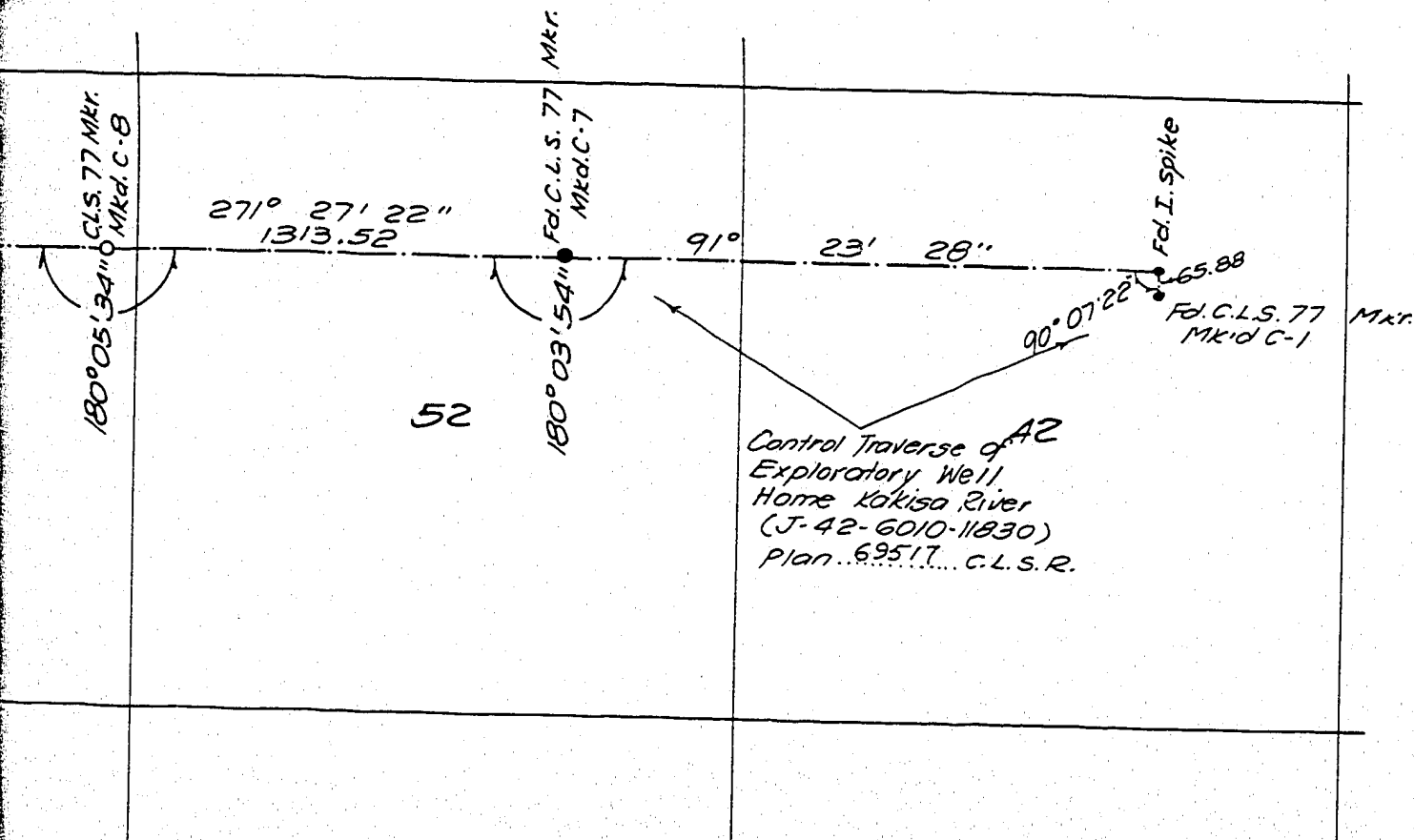
60°00'

CLS. 77 Mkr.
Mkd. C-20

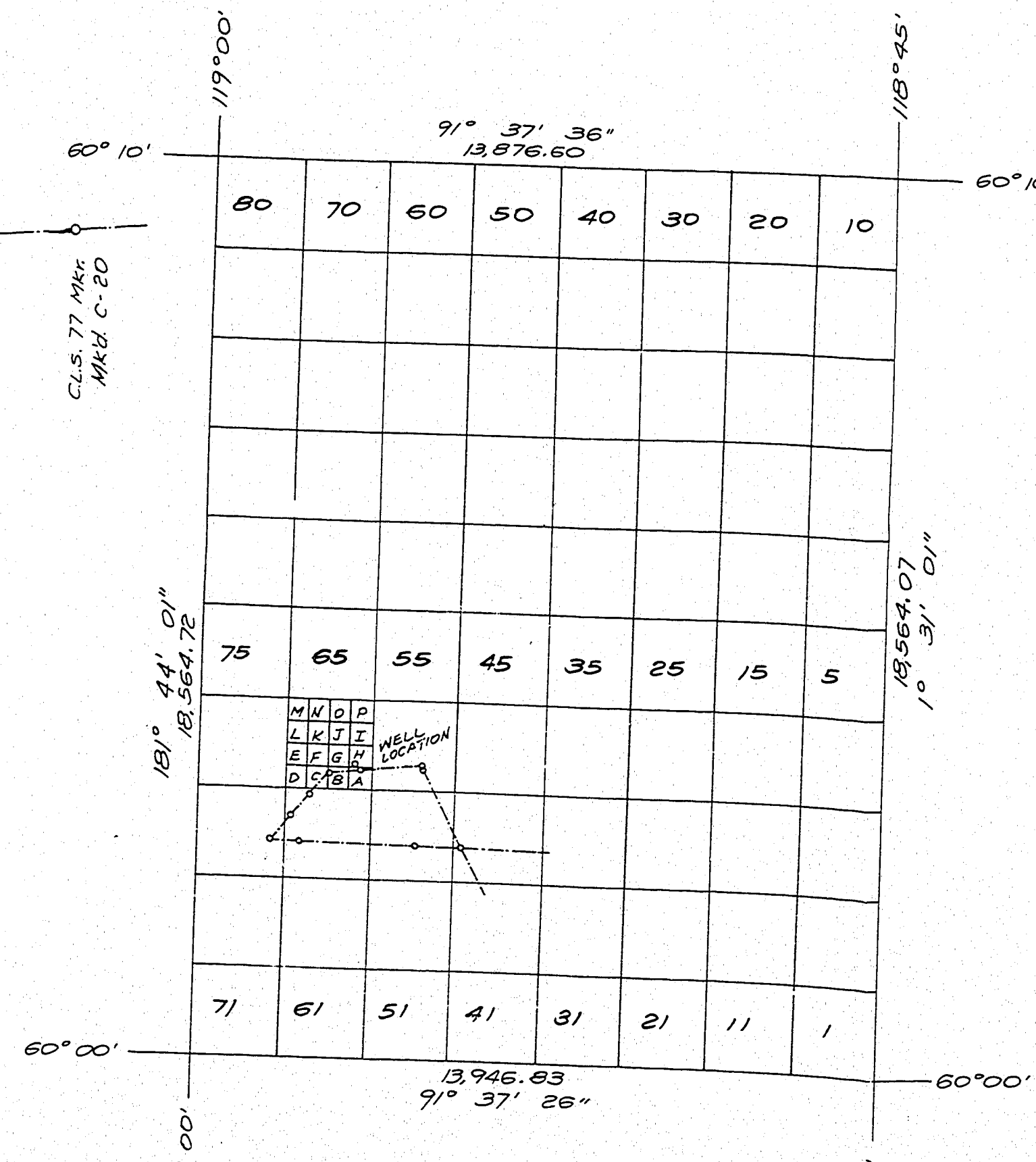
181° 46' 11"
181° 40' 44"
E-54



DETAIL 'B'
Scale = 1:1000

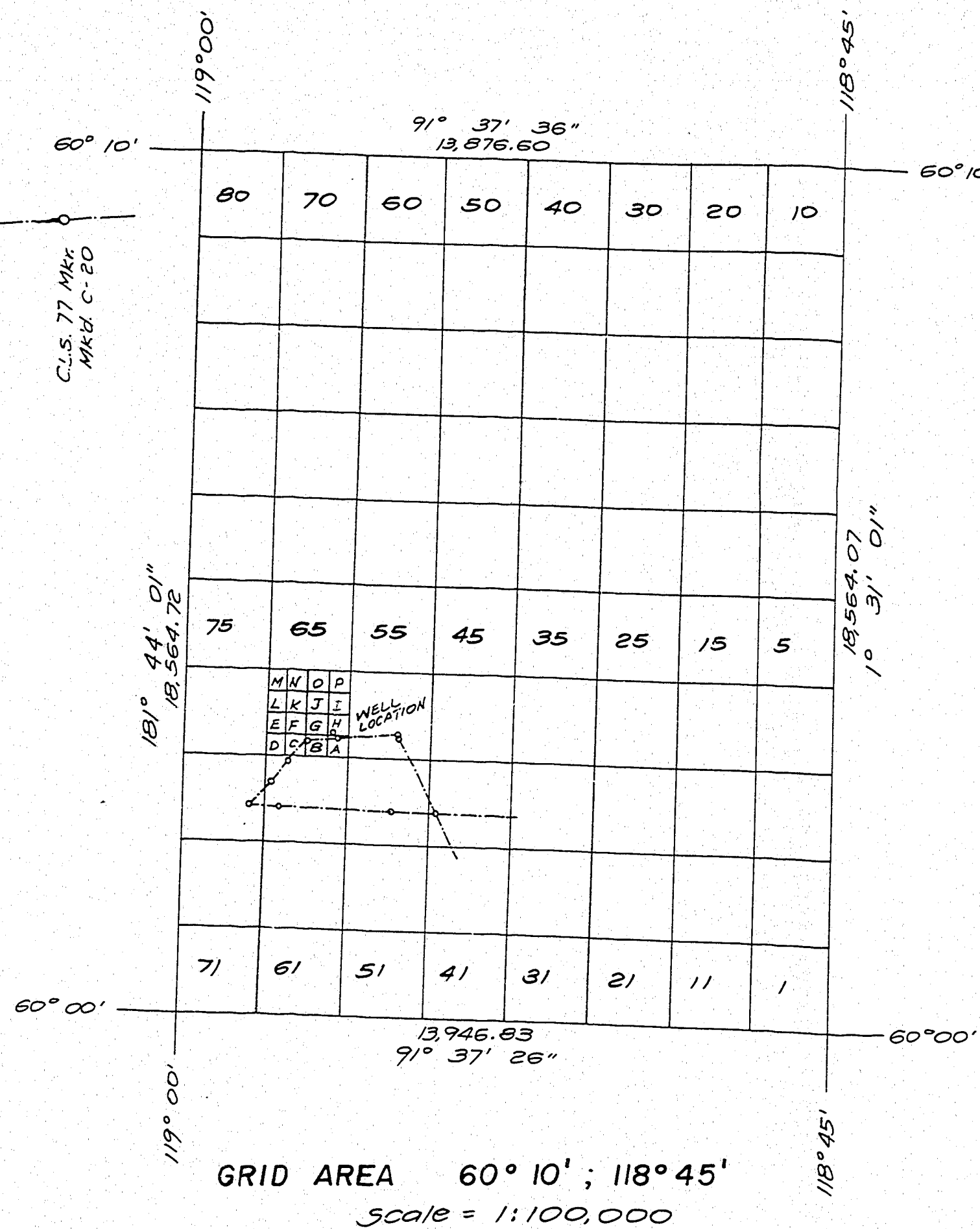
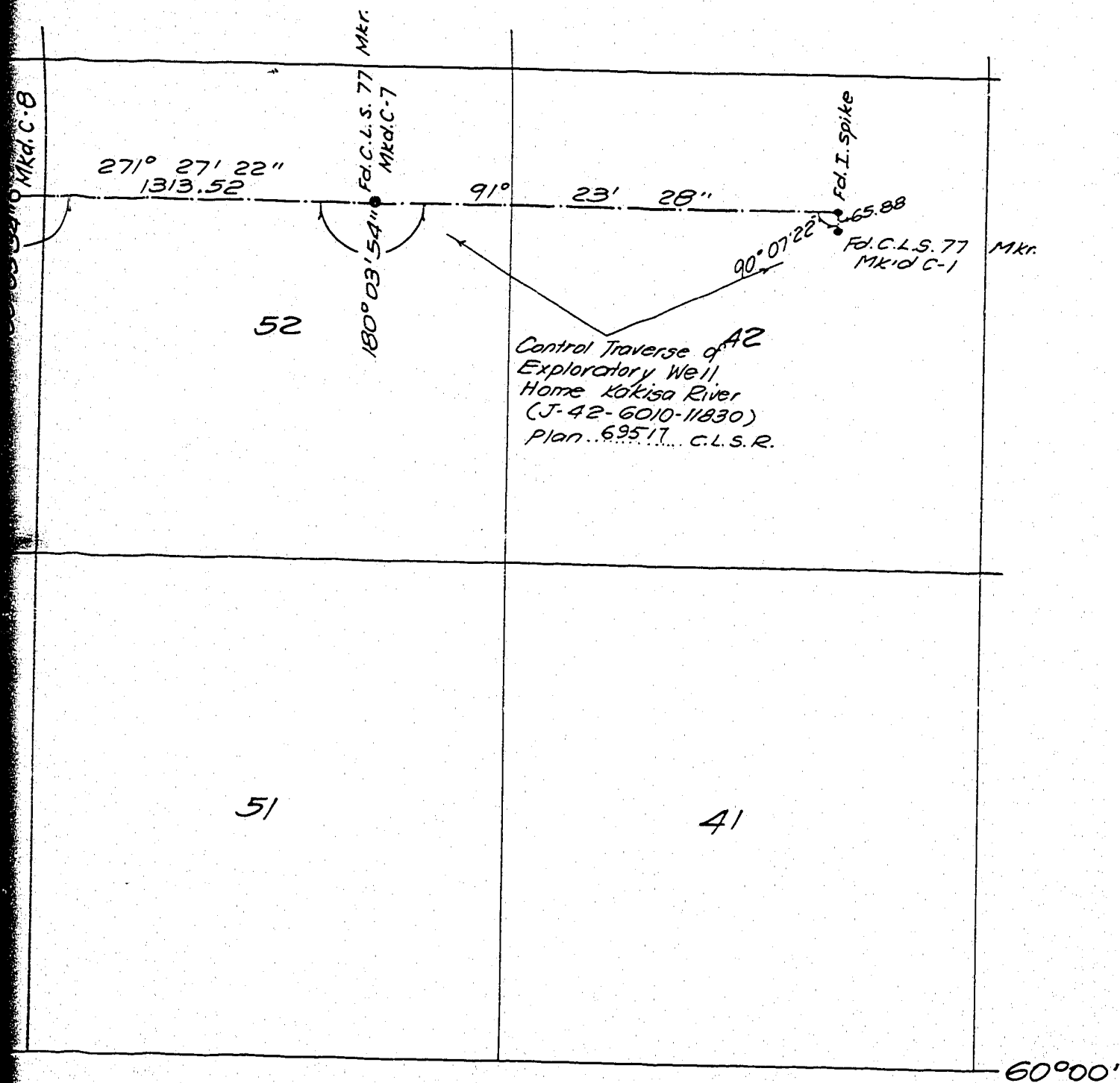
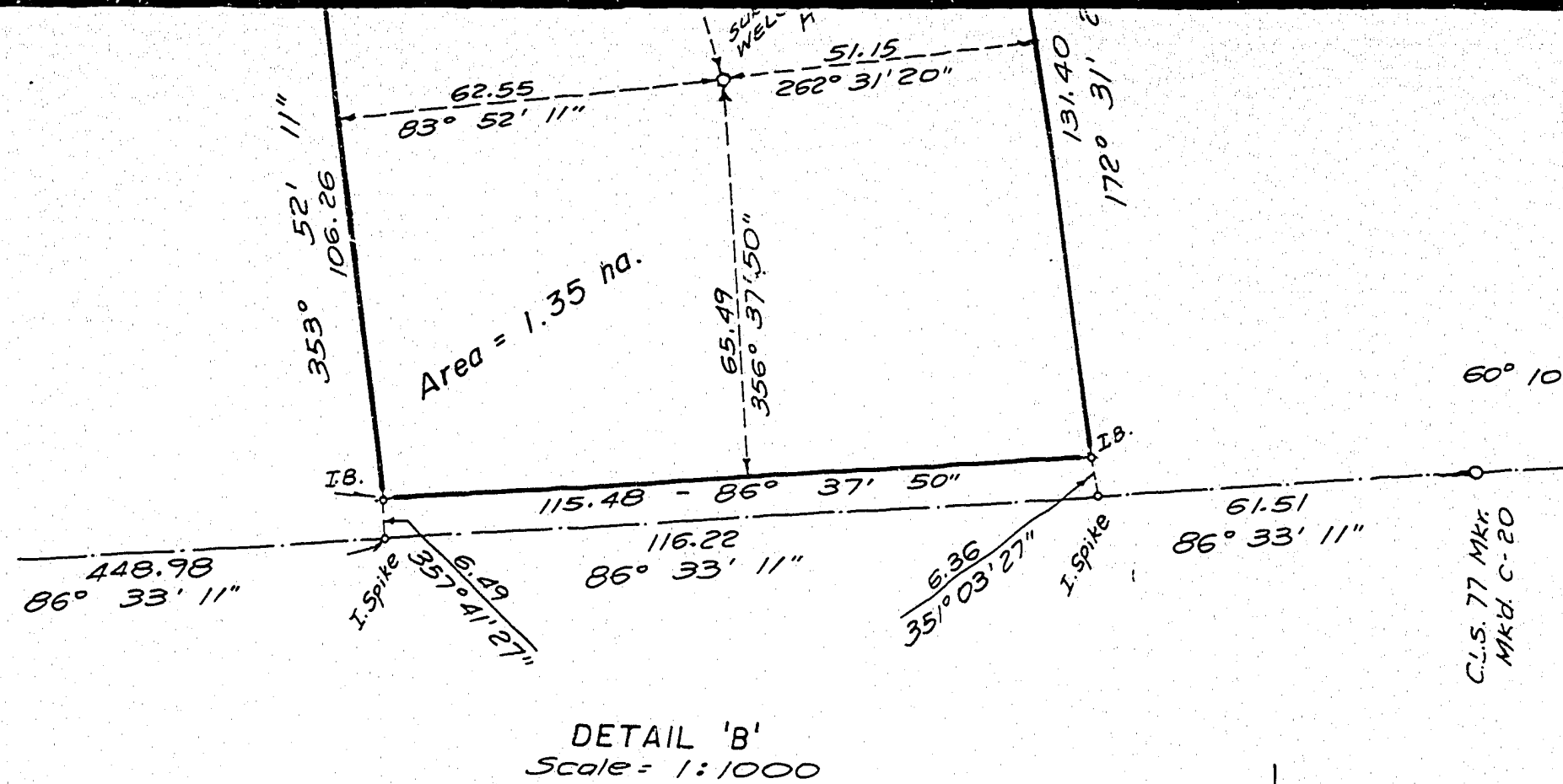


ELEVATIONS
Well Centre H-64 = 619.45
Well site:
Corners: N.W. = 621.71
N.E. = 621.20
S.W. = 618.64
S.E. = 617.46



GEOGRAPHIC AND UTM CO-ORDINATE			
STATION	LATITUDE	LONGITUDE	NORTH
CONTROL MONUMENTS			
351	59° 59' 58.744"	118° 52' 26.786"	6,652,64
GRID AREA			
NE	60° 10'	118° 45'	6,671,053
NW	60° 10'	119° 00'	6,671,447
SW	60° 00'	119° 00'	6,652,872
SE	60° 00'	118° 45'	6,652,495
H-64 NE	60° 03' 30.160"	118° 56' 15"	6,659,286
H-64 NW	60° 03' 30.145"	118° 56' 43.125"	6,659,299
H-64 SE	60° 03' 15.160"	118° 56' 15"	6,658,822
H-64 SW	60° 03' 15.146"	118° 56' 43.125"	6,658,835
TRAVERSE STATIONS			
C-7	60° 01' 43.269"	118° 39' 55.428"	6,655,567
C-8	60° 01' 43.270"	118° 41' 20.231"	6,655,601
C-9	60° 01' 43.352"	118° 43' 34.311"	6,655,657
C-10	60° 01' 43.418"	118° 45' 38.743"	6,655,710
C-11	60° 01' 43.405"	118° 47' 14.050"	6,655,749
C-12	60° 02' 27.209"	118° 47' 14.762"	6,657,104
C-13	60° 02' 27.205"	118° 48' 14.133"	6,657,129
C-14	60° 02' 27.143"	118° 51' 56.527"	6,657,222
C-15	60° 02' 27.092"	118° 53' 10.018"	6,657,253
Str. 103	60° 02' 27.011"	118° 54' 15.029"	6,657,279
C-16	60° 02' 26.915"	118° 55' 18.079"	6,657,305
C-17	60° 02' 27.082"	118° 57' 47.488"	6,657,378
Str. 104	60° 02' 27.118"	118° 58' 24.538"	6,657,396
C-18	60° 02' 44.130"	118° 57' 56.218"	6,657,907
C-19	60° 03' 12.882"	118° 57' 08.749"	6,658,776
C-20	60° 03' 14.694"	118° 56' 28.419"	6,658,814
115	60° 03' 18.283"	118° 55' 07.960"	6,658,889
110	60° 02' 01.621"	118° 53' 48.735"	6,656,482
111	60° 00' 55.734"	118° 52' 41.178"	6,654,415
112	60° 00' 35.774"	118° 52' 41.041"	6,653,798
SURFACE WELL CASING			
0	60° 03' 16.667"	118° 56' 36.430"	6,658,879

Co-ordinates are based on provisional values obtained from Geodetic Survey of Canada.



H-64 SW	60°03'15.146"	118°56'43.125"	6,658,635.30
TRAVERSE STATIONS			
C-7	60°01'43.269"	118°39'55.428"	6,655,567.93
C-8	60°01'43.270"	118°41'20.231"	6,655,601.29
C-9	60°01'43.352"	118°43'34.311"	6,655,657.38
C-10	60°01'43.418"	118°45'38.743"	6,655,710.23
C-11	60°01'43.405"	118°47'14.050"	6,655,749.39
C-12	60°02'27.209"	118°47'14.762"	6,657,104.50
C-13	60°02'27.205"	118°48'14.133"	6,657,129.33
C-14	60°02'27.143"	118°51'56.527"	6,657,222.91
C-15	60°02'27.092"	118°53'10.018"	6,657,253.60
Stn. 103	60°02'27.011"	118°54'15.029"	6,657,279.92
C-16	60°02'26.915"	118°55'18.099"	6,657,305.18
C-17	60°02'27.082"	118°57'47.488"	6,657,378.24
Stn. 104	60°02'27.118"	118°58'24.538"	6,657,396.45
C-18	60°02'44.130"	118°57'56.218"	6,657,909.50
C-19	60°03'12.882"	118°57'08.749"	6,658,776.98
C-20	60°03'14.694"	118°56'28.419"	6,658,814.64
115	60°03'18.283"	118°55'07.960"	6,658,889.33
110	60°02'01.621"	118°53'48.735"	6,656,482.96
111	60°00'55.734"	118°52'41.178"	6,654,415.38
112	60°00'35.774"	118°52'41.041"	6,653,798.00
SURFACE WELL CASING			
0	60°03'16.667"	118°56'36.430"	6,658,879.30

Co-ordinates are based on provisional values for more obtained from Geodetic Survey of Canada.

7 of

GEOGRAPHIC AND UTM CO-ORDINATES (1927-N.A.D.)				
STATION	LATITUDE	LONGITUDE	NORTHINGS	EASTINGS
CONTROL MONUMENTS				
351	59°59'58.744"	118°52'26.786"	6,652,646.469	395,470.794
GRID AREA				
NE	60°10'	118°45'	6,671,053.25	402,884.28
NW	60°10'	119°00'	6,671,447.16	389,013.27
SW	60°00'	119°00'	6,652,890.94	388,451.62
SE	60°00'	118°45'	6,652,495.69	402,392.85
H-64 NE	60°03'30.160"	118°56'15"	6,659,286.87	392,127.31
H-64 NW	60°03'30.145"	118°56'43.125"	6,659,299.21	391,692.41
H-64 SE	60°03'15.160"	118°56'15"	6,658,822.96	392,113.71
H-64 SW	60°03'15.146"	118°56'43.125"	6,658,835.30	391,678.75
TRAVERSE STATIONS				
C-7	60°01'43.269"	118°39'55.428"	6,655,567.93	407,191.39
C-8	60°01'43.270"	118°41'20.231"	6,655,601.29	405,878.84
C-9	60°01'43.352"	118°43'34.311"	6,655,657.38	403,803.68
C-10	60°01'43.418"	118°45'38.743"	6,655,710.23	401,877.85
C-11	60°01'43.405"	118°47'14.050"	6,655,749.39	400,402.75
C-12	60°02'27.209"	118°47'14.762"	6,657,104.50	400,428.37
C-13	60°02'27.205"	118°48'14.133"	6,657,129.33	399,509.80
C-14	60°02'27.143"	118°51'56.527"	6,657,222.91	396,069.02
C-15	60°02'27.092"	118°53'10.018"	6,657,253.60	394,931.98
Stn. 103	60°02'27.011"	118°54'15.029"	6,657,279.92	393,926.13
C-16	60°02'26.915"	118°55'18.099"	6,657,305.18	392,950.29
C-17	60°02'27.082"	118°57'47.488"	6,657,378.24	390,639.26
Stn. 104	60°02'27.118"	118°58'24.538"	6,657,396.45	390,066.11
C-18	60°02'44.130"	118°57'56.218"	6,657,909.50	390,519.88
C-19	60°03'12.882"	118°57'08.749"	6,658,776.98	391,280.42
C-20	60°03'14.694"	118°56'28.419"	6,658,814.64	391,905.76
115	60°03'18.283"	118°55'07.960"	6,658,889.33	393,153.26
110	60°02'01.621"	118°53'48.735"	6,656,482.96	394,310.39
111	60°00'55.734"	118°52'41.178"	6,654,415.38	395,297.91
112	60°00'35.774"	118°52'41.041"	6,653,798.00	395,282.50
SURFACE WELL CASING				
0	60°03'16.667"	118°56'36.430"	6,658,879.30	391,783.67

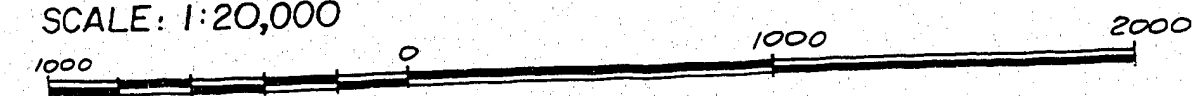
Co-ordinates are based on provisional values for monument #351, obtained from Geodetic Survey of Canada.

CANADA LANDS SURVEY RECORDS
6 9 5 1 8
Date 13 NOV 1984

PLAN AND FIELD NOTES
OF SURVEY OF
EXPLORATORY WELL
HOME SILT LAKE
IN UNIT H, SECTION 64
GRID AREA 60°10', 118°45'
NORTHWEST TERRITORIES

CANADA OIL AND GAS LAND REGULATIONS

SCALE: 1:20,000



SURVEYED FOR
HOME OIL COMPANY LIMITED
BY: L.W. BRETON, C. L. S.
1983

LEGEND

UTM co-ordinates are computed for Zone 11, Central Meridian 117° W.
Bearings were derived from the bearing 91°22'42.6" computed between Boundary Monuments No's 339 and 341 and are referred to meridian 117° W.
Distances are expressed in metres and decimals thereof.
Distances shown in traverse are measured distances reduced to the horizontal at general ground level.
For the computation of co-ordinates, measured distances have been reduced to the UTM plane by multiplying them by an average combined factor of 0.99963153. Co-ordinates were then adjusted to fit the control. (Sea Level Factor 0.99990469; Scale Factor 0.99972682).
Distances shown on grid area subdivisions are UTM plane.
Boundary Monuments found shown thus: ●
Monuments planted shown thus: ○
Traverse lines and stations shown thus: —○—
Mkr. denotes 2.0m. long metal marker post planted 0.3m. W.
Elevations were derived from Boundary Monument No: 341; Elev. 596.158.
Distances and bearings are to the head of nails in the bearing trees.

I, L.W. BRETON, of The City of Edmonton, Alberta, Canada, Surveyor, make oath and say that I have in my own person, according to the law and the instructions of the Surveyor General of Canada Lands, faithfully and correctly executed the survey shown by this plan and notes, and that the said plan and field notes are true to the best of my knowledge and belief.
SO HELP ME GOD.

Sworn before me at Edmonton,
this 3 day of January, 1984.

Louis W. Breton
Canada Lands
A Commissioner of Oaths in and for the Province of Alberta.
(Lorne Thompson - My Commission expires Sept. 12, 1986)

THIS SURVEY WAS EXECUTED DURING THE PERIOD
DECEMBER 14 TO DECEMBER 23, 1983, BY L.W. BRETON, C.L.S.

HOME OIL COMPANY LIMITED

H. A. Ford
Vice-President

H-64 NW	60°03'30.145"	118°56'43.125"	6,659,249.21	391,812.41
H-64 SE	60°03'15.160"	118°56'15"	6,658,822.96	392,113.71
H-64 SW	60°03'15.146"	118°56'43.125"	6,658,835.30	391,678.75
TRAVERSE STATIONS				
C-7	60°01'43.269"	118°39'55.428"	6,655,567.93	407,191.39
C-8	60°01'43.270"	118°41'20.231"	6,655,601.29	405,878.84
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C-10	60°01'43.418"	118°45'38.743"	6,655,710.23	401,877.85
C-11	60°01'43.405"	118°47'14.050"	6,655,749.39	400,402.75
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C-13	60°02'27.205"	118°48'14.133"	6,657,129.33	399,509.80
C-14	60°02'27.143"	118°51'56.527"	6,657,222.91	396,069.02
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C-17	60°02'27.082"	118°57'47.488"	6,657,378.24	390,639.26
Stn. 104	60°02'27.118"	118°58'24.538"	6,657,396.45	390,066.11
C-18	60°02'44.130"	118°57'56.218"	6,657,909.50	390,519.88
C-19	60°03'12.882"	118°57'08.749"	6,658,776.98	391,280.42
C-20	60°03'14.694"	118°56'28.419"	6,658,814.64	391,905.76
115	60°03'18.283"	118°55'07.960"	6,658,889.33	393,153.26
110	60°02'01.621"	118°53'48.735"	6,656,482.96	394,310.39
111	60°00'55.734"	118°52'41.178"	6,654,415.38	395,297.91
112	60°00'35.774"	118°52'41.041"	6,653,798.00	395,282.50
SURFACE WELL CASING				
0	60°03'16.667"	118°56'36.430"	6,658,879.30	391,783.67

Co-ordinates are based on provisional values for monument #351, obtained from Geodetic Survey of Canada.

LEGEND

UTM co-ordinates are computed for Zone 11, Central Meridian 117°W. Bearings were derived from the bearing 91°22'42.6" computed between Boundary Monuments No's. 339 and 341 and are referred to meridian 117°W. Distances are expressed in metres and decimals thereof. Distances shown in traverse are measured distances reduced to the horizontal at general ground level. For the computation of co-ordinates, measured distances have been reduced to the UTM plane by multiplying them by an average combined factor of 0.99963153. Co-ordinates were then adjusted to fit the control. (Sea Level Factor 0.99990469; Scale Factor 0.99972682). Distances shown on grid area subdivisions are UTM plane. Boundary Monuments found shown thus: • Monuments planted shown thus: o Traverse lines and stations shown thus: — Mkr. denotes 2.0m. long metal marker post planted 0.3m. W. Elevations were derived from Boundary Monument No. 341; Elev. 596.158. Distances and bearings are to the head of nails in the bearing trees.

EXPLORATORY WELL HOME SILT LAKE IN UNIT H, SECTION 64 GRID AREA 60°10', 118°45' NORTHWEST TERRITORIES CANADA OIL AND GAS LAND REGULATIONS

SCALE: 1:20,000



SURVEYED FOR

HOME OIL COMPANY LIMITED

BY: L.W. BRETON, C. L. S.

1983

I, L.W. BRETON, of The City of Edmonton, Alberta, Canada, Surveyor, make oath and say that I have in my own person, according to the law and the instruction of the Surveyor General of Canada Lands, faithfully and correctly executed the survey shown by this plan, notes, and that the said plan and field notes are true to the best of my knowledge and belief. SO HELP ME GOD.

Sworn before me at Edmonton, this 3 day of January, 1984.

Louis W. Breton
Canada Lands
A Commissioner of Oaths in and for the Province of Alberta.
(Lorne Thompson: My Commission expires Sept. 12, 1986.)

THIS SURVEY WAS EXECUTED DURING THE PERIOD
DECEMBER 14 TO DECEMBER 23, 1983, BY L.W. BRETON, C.L.S.

HOME OIL COMPANY LIMITED

W. A. F. F. F.
Vice-President
L. Thompson
Vice-President
January 5, 1984
Date

MIDWEST SURVEYS & SERVICES
10138-81 AVENUE
EDMONTON, ALBERTA
1-403-433-6411

Exam'd V.S.V.

GEOGRAPHIC AND UTM CO-ORDINATES (1927-N.A.D.)				
STATION	LATITUDE	LONGITUDE	NORTHINGS	EASTINGS
CONTROL MONUMENTS				
351	59° 59' 58.744"	118° 52' 26.786"	6,652,646.469	395,470.794
GRID AREA				
NE	60° 10'	118° 45'	6,671,053.25	402,884.28
NW	60° 10'	119° 00'	6,671,447.16	389,013.27
SW	60° 00'	119° 00'	6,652,870.94	388,451.62
SE	60° 00'	118° 45'	6,652,495.69	402,392.85
H-64 NE	60° 03' 30.160"	118° 56' 15"	6,659,286.87	392,127.31
H-64 NW	60° 03' 30.145"	118° 56' 43.125"	6,659,299.21	391,692.41
H-64 SE	60° 03' 15.160"	118° 56' 15"	6,658,822.96	392,113.71
H-64 SW	60° 03' 15.146"	118° 56' 43.125"	6,658,835.30	391,678.75
TRAVERSE STATIONS				
C-7	60° 01' 43.269"	118° 39' 55.428"	6,655,567.93	407,191.39
C-8	60° 01' 43.270"	118° 41' 20.231"	6,655,601.29	405,878.84
C-9	60° 01' 43.352"	118° 43' 34.311"	6,655,657.38	403,803.68
C-10	60° 01' 43.418"	118° 45' 38.743"	6,655,710.23	401,877.85
C-11	60° 01' 43.405"	118° 47' 14.050"	6,655,749.39	400,402.75
C-12	60° 02' 27.209"	118° 47' 14.762"	6,657,104.50	400,428.37
C-13	60° 02' 27.205"	118° 48' 14.133"	6,657,129.33	399,509.80
C-14	60° 02' 27.143"	118° 51' 56.527"	6,657,222.91	396,069.02
C-15	60° 02' 27.092"	118° 53' 10.018"	6,657,253.60	394,931.98
Sta. 103	60° 02' 27.011"	118° 54' 15.029"	6,657,279.92	393,926.13
C-16	60° 02' 26.915"	118° 55' 18.099"	6,657,305.18	392,950.29
C-17	60° 02' 27.082"	118° 57' 47.488"	6,657,378.24	390,639.26
Sta. 104	60° 02' 27.118"	118° 58' 24.538"	6,657,396.45	390,066.11
C-18	60° 02' 44.130"	118° 57' 56.218"	6,657,909.50	390,519.88
C-19	60° 03' 12.882"	118° 57' 08.749"	6,658,776.98	391,280.42
C-20	60° 03' 14.694"	118° 56' 28.419"	6,658,814.64	391,905.76
115	60° 03' 18.283"	118° 55' 07.960"	6,658,889.33	393,153.26
110	60° 02' 01.621"	118° 53' 48.735"	6,656,482.96	394,310.39
111	60° 00' 55.734"	118° 52' 41.178"	6,654,415.38	395,297.91
112	60° 00' 35.774"	118° 52' 41.041"	6,653,798.00	395,282.50
SURFACE WELL CASING				
0	60° 03' 16.667"	118° 56' 36.430"	6,658,879.30	391,783.67

Co-ordinates are based on provisional values for monument #351, obtained from Geodetic Survey of Canada.

CANADA LANDS SURVEYS RECORDS
6 9 5 1 8
Date 13 NOV. 1984

PLAN AND FIELD NOTES
OF SURVEY OF
EXPLORATORY WELL
HOME SILT LAKE
IN UNIT H, SECTION 64
GRID AREA 60° 10', 118° 45'
NORTHWEST TERRITORIES
CANADA OIL AND GAS LAND REGULATIONS

SCALE: 1:20,000



SURVEYED FOR
HOME OIL COMPANY LIMITED
BY: L.W. BRETON, C. L. S.
1983

LEGEND

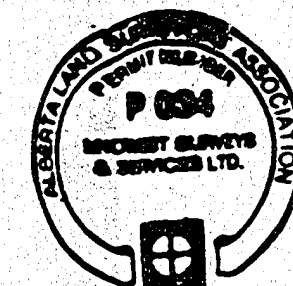
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Bearings were derived from the bearing 91° 22' 42.6" computed between Boundary Monuments No's. 339 and 341 and are referred to meridian 117° W.
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Distances shown in traverse are measured distances reduced to the horizontal at general ground level.
For the computation of co-ordinates, measured distances have been reduced to the UTM plane by multiplying them by an average combined factor of 0.99963153. Co-ordinates were then adjusted to fit the control. (See Level Factor 0.99990469; Scale Factor 0.99972682).
Distances shown on grid area subdivisions are UTM plane.
Boundary Monuments found shown thus: ●
Monuments planted shown thus: ○
Traverse lines and stations shown thus: —○—
Mkr. denotes 2.0m. long metal marker post planted 0.3m. W.
Elevations were derived from Boundary Monument No. 341; Elev. 596.158.
Distances and bearings are to the head of nails in the bearing trees.

I, L.W. BRETON, of The City of Edmonton, Alberta, Canada Lands Surveyor, make oath and say that I have in my own proper person, according to the law and the instructions of the Surveyor General of Canada Lands, faithfully and correctly executed the survey shown by this plan and field notes, and that the said plan and field notes are correct and true to the best of my knowledge and belief.
SO HELP ME GOD.

Sworn before me at Edmonton,
this 3 day of January, 1984.

Louis W. Breton
A Commissioner of oaths in and
for the Province of Alberta.
(Lorne Thompson. My Commission
expires Sept. 12, 1986.)

Louis W. Breton
Canada Lands Surveyor



THIS SURVEY WAS EXECUTED DURING THE PERIOD
DECEMBER 14 TO DECEMBER 23, 1983, BY L.W. BRETON, C.L.S.

HOME OIL COMPANY LIMITED

J. A. A. A. A.
Vice-President
[Signature]
Vice-President

CANADA LANDS SURVEYS RECORDS

H-64 SW	60°03'15.146"	118°56'43.125"	6,658,835.30	391,678.75
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EXPLORATORY WELL
HOME SALT LAKE
IN UNIT H, SECTION 64
GRID AREA 60°10', 118°45'
NORTHWEST TERRITORIES
CANADA OIL AND GAS LAND REGULATIONS

SCALE: 1:20,000



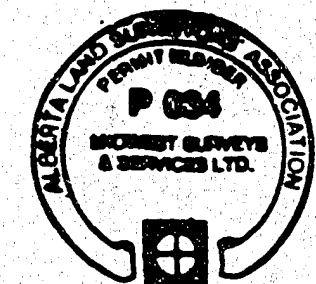
SURVEYED FOR
HOME OIL COMPANY LIMITED
BY: L.W. BRETON, C. L. S.
1983

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SO HELP ME GOD.

Sworn before me at Edmonton,
this 3 day of January, 1984.

[Signature]
A Commissioner of Oaths in and
for the Province of Alberta.
(Lorne Thompson. My Commission
expires Sept. 12, 1986)

Louis W. Breton
Canada Lands Surveyor



THIS SURVEY WAS EXECUTED DURING THE PERIOD
DECEMBER 14 TO DECEMBER 23, 1983, BY L.W. BRETON, C.L.S.

HOME OIL COMPANY LIMITED

[Signature]
Vice-President
[Signature]
Vice-President
January 5, 1984
[Signature]

10 of 10

MIDWEST SURVEYS & SERVICES LTD.
10138 - 81 AVENUE
EDMONTON, ALBERTA
1-403-433-6411
E-707-83-1
Exam'd VSV + WDC 7.11.84

CANADA LANDS SURVEYS RECORD

PROJECT NUMBER

9211-H5-1-1

COMPANY

HOME OIL

REPORT TITLE

well history: Home Silt Lake ^{TX}-64

COMMENTS:

ENGINEERING BRANCH

[Signature]

ENVIRONMENTAL PROTECTION BRANCH

[Initials]

[Initials]

RESOURCE EVALUATION BRANCH

very good report.



Canada Oil and Gas
Lands Administration

355 River Road
Ottawa, Ontario
K1A 0E4

Administration du pétrole
et du gaz des terres du Canada

355, chemin River
Ottawa (Ontario)
K1A 0E4

File No. 9211-H5-1-1

May 11, 1984

Mr. N.W. Bentsen
Home Oil Company Limited
2300 Home Oil Tower
324 Eighth Avenue S.W.
Calgary, Alberta
T2P 2Z5

Dear Mr. Bentsen:

Home Silt Lake H-64

We note from the well survey plan submitted with the well history report that the proper name of this well is as above and not A-64 as approved. Please amend all of your records to show the proper designation.

The survey plan should also be amended to show Home Silt Lake, as approved and not "Silt River". We will make the necessary amendments to the records you have already submitted.

Thank you.

Yours sincerely,

F.H. Lepine
Director Exploration
Engineering Branch

cc: M. Thomas
M. Bell
D. Sherwin
R. Harrison

FINAL WELL REPORT
HOME SILT LAKE H-64

84-04-19

M.G. Wilcox P. Eng.
Chief Drilling Engineer

CANADA OIL AND GAS LANDS
ADMINISTRATION
ADMINISTRATION DU PÉTROLE ET DU
GAZ DES TERRES DU CANADA

MAY 10 1984

ENGINEERING AND CONTROL
BRANCH
TECHNIQUE ET DU CONTRÔLE

TABLE OF CONTENTS

	<u>Page</u>
INTRODUCTION	
Summary	1
Locality Map	2
GENERAL DATA	3
SUMMARY OF DRILLING OPERATIONS	4
Table 1	5
TIME DISTRIBUTION	6
Table 2	6
DEVIATION SURVEYS	7
CONDUCTOR STRING	
Casing Detail	8
Cementing Detail	9
SURFACE CASING	
Casing Detail	10
Cementing Detail	11
PRODUCTION CASING	
Casing Detail	12
Cementing Detail	13
GEOLOGY	14
LITHOLOGY SUMMARY	15-24 confidential
STRATIGRAPHIC COLUMN	25
WELL EVALUATION	26
WELL LOGGING PROGRAM	
Intermediate	27
Total Depth	28
FORMATION AND PRODUCTION TESTING	29

TABLE OF CONTENTS (Cont'd)

APPENDICES

- (1) Transmittal Forms
- (2) Water Analysis
- (3) Core Analysis
- (4) DST Information
- (5) Geochemical Report
- (6) Well Logs
- (7) Mud Logs
- (8) Geological Wellsite Report
- (9) Velocity Survey Records
- (10) Well History Log
- (11) Final Survey Plan

FINAL WELL REPORT
HOME SILT LAKE A-64

H

SUMMARY:

Home Silt Lake ^HA-64 was drilled to a total depth of 1833 m to test the Slave Point/Sulphur Point, and Upper Keg River formations of the Devonian age. Home Oil Company Limited contracted Hi-Tower Drilling Rig # 17 to drill the well.

The well was spudded 83-12-29 at 22:45 hours and drilled to a total depth of 1833 m on 84-01-26. No problems. Drilling operation includes setting 339 mm conductor casing to 133 m and 245 mm surface casing to 482 m. Two (2) cores were cut in the Slave Point and one (1) bottom hole test was run.

Core # 1	1514 m - 1532 m	- 18 m	Full Recovery
Core # 2	1532 m - 1550 m	- 15.5 m	86% Recovery
DST # 1	Bottom hole conv. NGTS, 30 m mud. Slave Point		

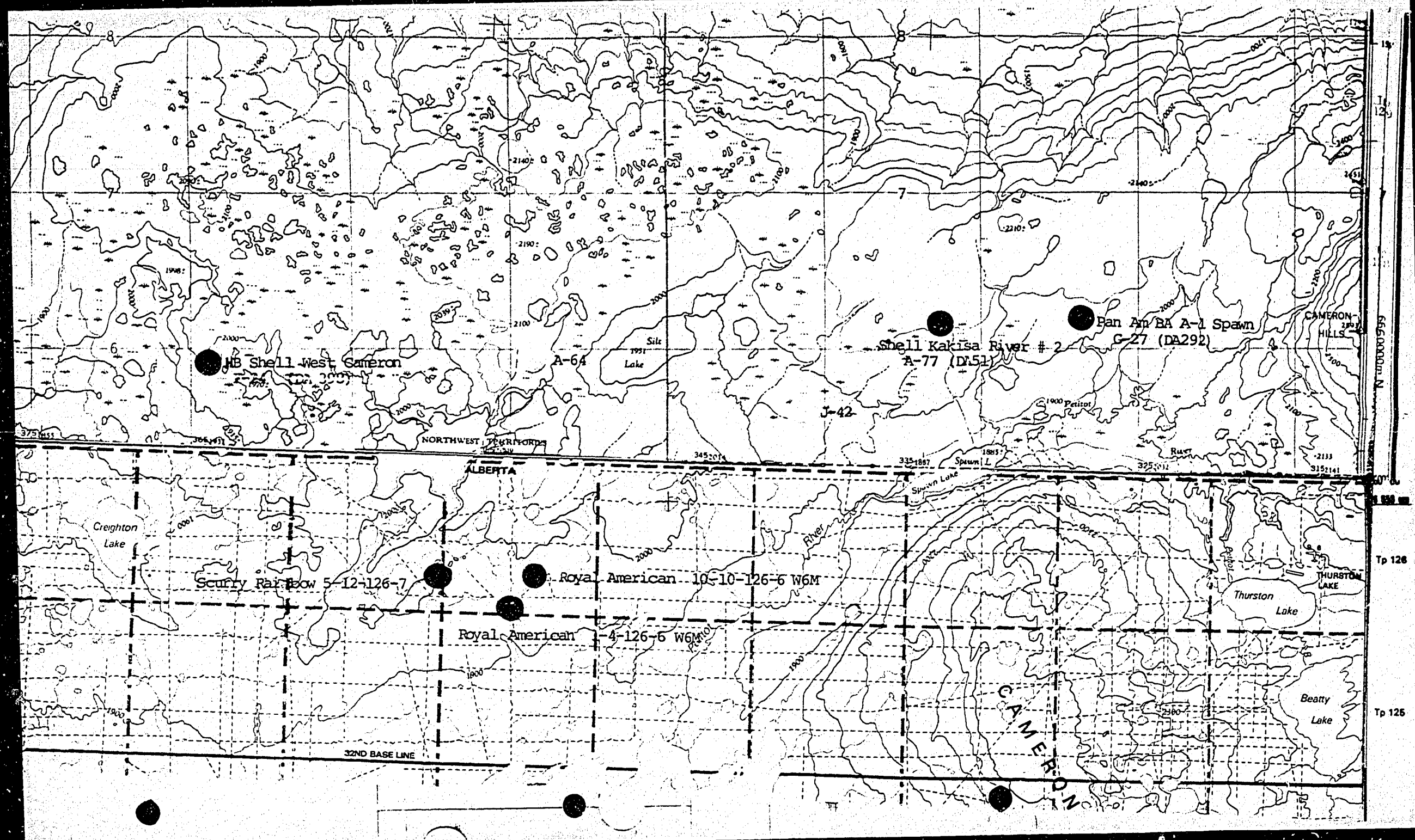
Open hole logs: DILL-SP
BHCS-GR-CAL
CNL-FDC-CAL
Dipmeter
Velocity Survey

After logging four (4) open hole drill stem tests were run

DST # 2	Basal Clastics	NGTS, 59 m Mud
DST # 3	Upper Keg River	NGTS, 135 m mud 915 m Salt Water
DST # 4	Slave Point	NGTS, 112 m Mud
DST # 5	Upper Slave Point	NGTS, 20 m Mud

Home Oil wished to abandon the well on the basis of log, core and DST evaluation. COHO Resources as the farmor of the lands took over the well on 1984-02-02 at 08:00 hours.

The well was then cased with 139.7 mm production casing and suspended awaiting further testing by COHO Resources Limited.
Rig Released: 1984-02-04 at 08:00 hours.



N 00000999

Tp 126

Tp 125

GENERAL DATA

NAME : Home Silt Lake ^HX-64

LOCATION : Latitude 60° 03' 16.667" UTM 6658879.3 m N
Longitude 118° 56' 36.430" UTM 391783.6 m E
Taken from Midwest survey dated 84-01-03.

UNIQUE WELL IDENTIFIER: ~~Drilling Authority # 1121.~~

OPERATOR : Home Oil Company Limited
2300 Home Oil Tower
324 - 8th Avenue S.W.
Calgary, Alberta
T2P 2Z5

CONTRACTOR : Hi Tower Drilling Services Limited
Division of Bow Valley Resources
Box 6650, Postal Station "D"
1600 - 321 Sixth Avenue S.W.
Calgary, Alberta
T2P 2V8

DRILLING UNIT : Hi Tower Rig # 17
Conventional Land Rig with 2200 m depth
rating.

SUMMARY OF DRILLING OPERATIONS

- (1) K.B. Elevation 623.47 m
Ground Elevation 619 m
- (2) T.D. 1833 m
Logged 0 - 482 m Dual Sonic
482 - 1833 m DILL, Sonic DIP CNL
- (3) Spudded 1983-12-29-22:45 hours
- (4) Drilling Completed 1984-01-26
- (5) Rig Released 1984-02-04
- (6) Well Status Cased/Suspended
- (7) Hole Sizes and Depths

<u>Table 1</u>	<u>Size</u>	<u>Interval</u>
Conductor	444.5 mm	0 - 133 m
Surface	311 mm	133 - 482 m
Main	222 mm	482 - 1833 m T.D.

- (8) Casing and Cementing Record: See casing and cementing details

- (9) Sidetracked Hole: None.
- (10) Drilling Fluid: Gel Chemical System.

TABLE 1 Drilling Fluid Properties

Hole Size	Density (kg/m ³)		Viscosity (s/L)		pH	
	Average	Range	Average	Range	Average	Range
Conductor 444.5 mm 0 - 133 m	1160	1050- 1220	55	39-65	9.5	9.5
Surface 311 mm 133-482 m	1155	1090- 1210	55	42-67	9.9	9.5-10
Main 222 mm 482-1833 m	1115	1050- 1175	59	36-80	9.9	9.3-11

- (11) Fishing Operations: None.
- (12) Well Kicks: None.
- (13) Formation Leak Off Tests
- Depth : 488 m
- Fluid Density : 1110 kg/m³
- Applied Pressure: 4866 kPa
- EMD : 2126 kg/m³
- Casing Depth : 481 m
- (14) Time Distribution: See Table 2
- (15) Deviation Survey: See Table 3
- (16) Abandonment Plugs: Cased and Suspended

TABLE 2 TIME DISTRIBUTION

Days from Spud	Drilling	Tripping	Rig Service & BOP's	Reaming	Slip & Cut Line	Survey	Handle Tools	Circulating	Clean to Bottom	Condition Mud	Repairs	Coring	DST's	Fishing	Run Casing	W.O.C.	Logging	Other
1	1.25		0.25															22.50 Rig up
2	11.0	3.75	0.75			1.50	0.50	2.75							3.75			
3			0.75					3.0							5.75	8.0		6.50 Nipple up
4	10.25	0.75	0.75								1.50					7.75		3.00 Drill Cement
5	14.0	6.0	0.75			1.50					1.75							
6	2.25	6.75	0.75			0.50	1.00	2.50		0.50								9.75 W.O. Loggers
7		2.25	0.75				1.00	1.50							2.75	4.75	3.25	.75 W.O. Loggers
8		1.75	0.75															4.75 Circ. casing
9	21.0		0.75													6.75		2.25 Cementing
10	18.25	3.0	0.75		1.00		0.50	0.50										10.75 Nipple up
11	19.50	3.0	0.75			0.50	0.25											4.00 Pressure test
12	22.75		0.75															1.50 Leak off test
13	17.50	4.50	0.75		1.00	0.25												0.75 Drill Cement
14	22.50		0.75			0.50		0.25										
15	22.50		0.75			0.50												
16	23.0		0.75			0.25												0.25 COGLA
17	22.0		0.75			1.25												
18	16.25	5.50	0.75		1.00	0.25		0.25										
19	3.75	5.75	0.75			0.25	1.00		0.50			11.0						1.00 Circ. Sample
20			0.75									23.25						
21		4.25	0.75					1.00	0.50			15.75						0.25 Ran check
22		2.25	0.25				0.25					18.75				1.0		1.50 Recover core
23	1.75	5.75	0.50	2.75	1.00		3.0						8.0			1.25		1.25 Circ. sample
24	20.75		0.75			0.50		2.00										.25 Flow check
25	13.50		0.50			0.50		1.50		2.75								5.25 Mix loss circ mud
26	23.0		0.75				0.25											
27	22.75		0.75				0.50											
28	20.25		0.75					2.00										1.00 Circ. Sample
29	6.75	6.75	0.75			0.25		3.50									6.00	
30		3.50	0.75					2.25	1.50								16.00	
31		2.25	0.75		1.00								20.0					
32			0.75										23.25					
33			0.75										23.25					
34		2.5	0.75				2.25											14.25 W.O.O.
35			0.75															1.50 Laydown D.C.
36		0.75	0.50												3.00			23.25 W.O.O.
37			0.50					5.25							2.50	8.00		5.00 Laydown Pipe
38																		2.00 Handle Casing
TOTAL	356.5	71.0	25.75	2.75	5.00	9.75	9.75	31.0	2.50	3.25	3.25	68.75	74.50		17.75	37.50	25.25	151.75

TABLE 3

DEVIATION SURVEYS

WELL NAME AND LOCATION

Home Silt Lake A-64

DEPTH	DEVIATION	DEPTH	DEVIATION	DEPTH	DEVIATION
33	1	1554	1		
42	$\frac{1}{2}$	1620	$\frac{7}{8}$		
62	$\frac{1}{8}$	1696	$\frac{7}{8}$		
81	$\frac{1}{8}$	1763	$\frac{1}{16}$		
100	$\frac{1}{2}$	1832	$\frac{7}{8}$		
130	$\frac{1}{2}$				
133	$\frac{1}{2}$				
158	$\frac{1}{2}$				
187	$\frac{1}{2}$				
224	$\frac{1}{2}$				
253	$\frac{1}{2}$				
282	$\frac{1}{8}$				
311	$\frac{1}{2}$				
339	$\frac{5}{8}$				
368	1				
406	$\frac{3}{4}$				
444	$\frac{3}{4}$				
482	$\frac{1}{2}$				
621	$\frac{7}{8}$				
778	$\frac{3}{4}$				
814	$\frac{1}{8}$				
892	Misrun				
901	$\frac{1}{2}$				
976	$\frac{1}{16}$				
1051	$\frac{1}{2}$				
1118	$\frac{1}{2}$				
1204	$\frac{1}{8}$				
1279	$\frac{1}{16}$				
1355	1				
1394	$\frac{1}{2}$				
1422	2				
1440	$1-\frac{7}{8}$				
1460	$1-\frac{3}{4}$				
1480	2				
1507	$1-\frac{3}{4}$				

Date

83-12-31

[illegible]

Drilling Supervisor

Dan Kamieniecki

Date _____

83-12-30



CEMENTING DETAIL

		WELL NAME		Home Silt Lake	
		WELL LOCATION		A-64	
CEMENT INTERVAL	1ST STAGE	133	M TO	Surface	M
	2ND STAGE		M TO		M
SLURRY VOLUME (TOTAL/GAUGE)	1ST STAGE	12.88	/	M ³	
	2ND STAGE		/	M ³	
		EXCESS		STAGE TOOL	
		50 %			
1ST STAGE	FILLER	TYPE 0:1:0 + 2% CaCl ₂		YIELD	.76 M ³ /TONNE
		SLURRY VOLUME M ³		DRY VOLUME	15.5 TONNE
	TAIL-IN	TYPE		YIELD	M /TONNE
		SLURRY VOLUME M ³		DRY VOLUME	TONNE
2ND STAGE	TYPE		YIELD	M ³ /TONNE	
	SLURRY VOLUME M ³		DRY VOLUME	TONNE	
PREFLUSH 2 m ³ fresh water					
1ST STAGE	MIXING FILLER	START	8:25	END	8:53
		SLURRY WEIGHT	PROGRAM	1895	KG/M ³
	MIXING TAIL-IN	START		END	
		SLURRY WEIGHT	PROGRAM		KG/M ³
2ND STAGE	START		END		
	SLURRY WEIGHT	PROGRAM		KG/M ³	
DISPLACE START		9:09	PLUG DOWN	9:28	TIME 19 (MIN)
PRESSURES INITIAL		0 KPA	FINAL	4500 KPA	BUMP 9000 KPA
BOTTOM PLUG		N/A	TOP PLUG	Rubber	CEMENT HEAD Swedge
CENTRALIZERS		•			
REMARKS	Conductor casing 339.7 mm				

Dan Kamieniecki
DRILLING SUPERVISOR
83-12-30
DATE

Date _____

84-01-04

[illegible]

Drilling Supervisor

Date _____

Dan Kamieniecki

84-01-04



CEMENTING DETAIL

				WELL NAME Home Silt Lake	
				WELL LOCATION A-64	
CEMENT INTERVAL	1ST STAGE	482	M TO	0	M
	2ND STAGE		M TO		M
SLURRY VOLUME (TOTAL/GAUGE)	1ST STAGE	/		M ³	
	2ND STAGE	/		M ³	
				TOP FORMATION COVERED	Surface • M
				EXCESS — %	STAGE TOOL • M
1ST STAGE	FILLER	TYPE 1:1:0 + 2% CaCl ₂ + .5% CFR-2		YIELD	.83 M ³ /TONNE
		SLURRY VOLUME	18.33 M ³	DRY VOLUME	22 TONNE
	TAIL-IN	TYPE		YIELD	M / TONNE
		SLURRY VOLUME	M ³	DRY VOLUME	TONNE
2ND STAGE	TYPE		YIELD	M ³ /TONNE	
	SLURRY VOLUME	M ³	DRY VOLUME	TONNE	
PREFLUSH 2.0 m ³					
1ST STAGE	MIXING FILLER	START	17:49	END	18:12
		SLURRY WEIGHT	PROGRAM 1800	KG/M ³	ACTUAL (AVG) 1810
	MIXING TAIL-IN	START		END	
		SLURRY WEIGHT	PROGRAM	KG/M ³	ACTUAL (AVG) KG/M ³
2ND STAGE	START		END		
	SLURRY WEIGHT	PROGRAM	KG/M ³	ACTUAL (AVG) KG/M ³	
DISPLACE START		18:27	PLUG DOWN	18:53	TIME 26 (MIN)
PRESSURES INITIAL		0 KPA	FINAL	4,000 KPA	BUMP 8,000 KPA
BOTTOM PLUG		Rubber	TOP PLUG	Rubber	CEMENT HEAD Swedge
CENTRALIZERS		3 Baker wrap around			
REMARKS	6 m ³ good cement returns				
	Casing landed in tension 481.29 m K.B.				

Dan Kamieniecki
DRILLING SUPERVISOR
84-01-04
DATE

Date

84-02-03

Total Depth With Casing	1832.70	Thread Make Up	+	1.4	m	KB - Top CSG	.85 m
Centralizers	Qty. 17	Type				Spacing	as below
Scratchers	Qty. 16	Type				Spacing	as below
Remarks	Cement baskets run 1641 m and 1637 m.						
	Centralizers at 1829, 1807, 1794, 1692, 1678, 1667, 1654, 1578, 1565, 1552						
	1539, 1526, 1514, 1501, 1488, 1014, 990 m.						
	Scratchers 3 m intervals 1680 - 1656, 1590 - 1578, 1539 - 1500 m.						

Drilling Supervisor

Date

Dan Kamieniecki

84-02-03



CEMENTING DETAIL

				WELL NAME Home Silt Lake A-64	
				WELL LOCATION	
CEMENT INTERVAL	1ST STAGE	1400 M TO 1833 T.D.M	TOP FORMATION COVERED	Slave Pt. •	1500 M
	2ND STAGE	375 M TO 1000 M		surface casing	482 M
SLURRY VOLUME (TOTAL/GAUGE)	1ST STAGE	15.80 / 13.17 M ³	EXCESS 20 %	STAGE TOOL	
	2ND STAGE	39.06 / 32.55 M ³		Ft. Simpson •	1002 M
1ST STAGE	FILLER	TYPE 0:1:0 + .75% CFR-2 + .3% HR4	YIELD .7 M ³ /TONNE		
		SLURRY VOLUME 16.72 M ³	DRY VOLUME 22 on location TONNE		
	TAIL-IN	TYPE	YIELD M /TONNE		
		SLURRY VOLUME M ³	DRY VOLUME TONNE		
2ND STAGE	TYPE 0:1:4 + .5% CFR-2	YIELD 1.05 M ³ /TONNE			
	SLURRY VOLUME 39.27 M ³	DRY VOLUME 37.4 TONNE			
PREFLUSH 3 m ³ SAPP wash and scavenger cement					
1ST STAGE	MIXING FILLER	START 3:55	END 4:17	TOTAL 22	RATE .71 M ³ /MIN
		SLURRY WEIGHT PROGRAM 1895	KG/M ³	ACTUAL (AVG) 1895	KG/M ³
	MIXING TAIL-IN	START	END	TOTAL	RATE M ³ /MIN
		SLURRY WEIGHT PROGRAM	KG/M ³	ACTUAL (AVG)	KG/M ³
2ND STAGE	START 16:58	END 17:24	TOTAL 26	RATE .66 M ³ /MIN	
	SLURRY WEIGHT PROGRAM 1655	KG/M ³	ACTUAL (AVG) 1650	KG/M ³	
DISPLACE START	04:19	PLUG DOWN 5:06	TIME 47 (MIN)	RATE 48	M ³ /MIN
PRESSURES INITIAL	0 KPA	FINAL 6,000 KPA	BUMP 1,000 KPA	FLOAT HELD	Latch down
BOTTOM PLUG	TOP PLUG Latch down D.V.		CEMENT HEAD Continuous	CASING RECIP.	7 m stage
CENTRALIZERS • 16 as per casing report					
REMARKS	Stage 2: Displaced 10 min rate 1.2 m ³ /min fresh water below and above				
	stage tool. Fill casing annulus 10 m with diesel. Good returns				
	(mud) both stages.				

808 12/82

Dan Kamieniecki
DRILLING SUPERVISOR
84-02-03
DATE

(1) Drill Cuttings

Samples taken every 5 m from 395 m to T.D. No samples were caught from 1514 m to 1550 m (cored interval). Samples are stored at the Institute of Sedimentary and Petroleum Geology, Calgary.

(2) Cores

	<u>Interval</u>	<u>Recovery</u>
Core # 1	1514 - 1532 m	18 m
Core # 2	1532 - 1550 m	15.5 m

Cores are stored at the Institute of Sedimentary and Petroleum Geology, Calgary.

(3) Lithology

See Attached

(4) Stratigraphic Column

See Attached

Home Silt Lake A-64

LITHOLOGY SUMMARY

<u>Depth (m)</u>	<u>%</u>	<u>Sample Description</u>
395-405	75 25	Shale medium grey, soft, platy. Sandstone clear and frosty quartz, minor pink quartz, coarse to very coarse grained, sub-rounded to rounded, <u>probably fair to good intergranular porosity, no show.</u>
405-415		Shale same as above; with minor (10-15%) stringers of sandstone, as above.
415-440	80 20	Shale as above. Sandstone as above.
440-475		Shale as above; with sl quartz sand, clear and frosty with minor pink quartz, rounded, very coarse grained, <u>fair intergranular porosity, no show.</u>
475-485	60 40	Shale medium to dark grey, subfissile, trace black fish scales and white specks. Sandstone clear and frosty quartz, minor pink and white quartz, rounded to subrounded, medium to coarse grained, minor very coarse grained, well to medium sorted, <u>probably fair to good porosity, no show.</u>
485-495		Shale medium grey, minor green grey, slightly silty and micromicaceous, with minor stringers of quartz sandstone, same as above.
495-550		Limestone white to pearly white, micro- to very finely crystalline, minor crypto-crystalline, micritic, slight chalky, with slight bioclastic fragments, crinoid, shell fragments, trace cherty.
495		<u>Wabamun</u>
550-580		Limestone white, microcrystalline, in part cryptocrystalline, chalky, trace bioclastic fragments.
580-635		Limestone white, micro- to crypto-crystalline, chalky to micritic, trace pyrite, trace sparry calcite veinlets and patches.
635-680		Limestone white, cryptocrystalline, micro-crystalline in part, slight earthy, slight bioclastic fragments, crinoid, ostracod, shell fragments, trace pyrite.

<u>Depth (m)</u>	<u>%</u>	<u>Sample Description</u>
680-710		Limestone white to tan, micro- to very finely crystalline, minor cryptocrystalline, minor bioclastic fragments, ostracod, crinoid, gastropod, slightly pelletoidal.
710-760		Limestone buff white to light tan, micro- to crypto-crystalline, minor very finely crystalline, micritic, slight chalky, trace pyrite; slight silty towards base.
760-765	50	Sandstone buff grey, very fine grained, calcareous cement, slightly argillaceous, subangular to subrounded, well sorted; becoming sandy limestone in minor part.
	30	Limestone same as above.
	20	Limestone light brown, microcrystalline, minor cryptocrystalline, trace pisolite.
764		<u>Kakisa</u>
765-795		Limestone light brown to buff white, micro- to very finely crystalline, slight chalky; with minor stringers of calcareous siltstone near base.
795-820		Limestone buff white to buff grey, micro- to very finely crystalline, silty in part, slight argillaceous, minor chalky.
820-825	70	Limestone white to buff tan, microcrystalline, minor very finely and crypto-crystalline, slight chalky, trace bioclastic fragments.
	30	Siltstone buff grey, calcareous, slightly argillaceous.
825-835	70	Siltstone same as above.
	30	Limestone same as above.
835-890	50	Siltstone buff to light grey, sandy, calcareous cement, slightly argillaceous; grading to very fine grained calcareous sandstone in minor part. Slight medium-green grey shale.
	50	Limestone buff white to light tan, micro- to crypto- crystalline, minor very finely crystalline, slight chalky, trace crinoid.
890-895	50	Limestone buff brown to white, microcrystalline, minor very finely crystalline, slight dolomitic, trace bioclastic.
	30	Sandstone buff grey, very fine grained, frosty and grey quartz, slight argillaceous, calcareous cement, subangular, well sorted, tight.
	20	Shale green grey, subfissile, calcareous.
891		<u>Jean Marie</u>

<u>Denth (m)</u>	<u>%</u>	<u>Sample Description</u>
855-900	60	Limestone same as above.
	20	Sandstone same as above.
	20	Shale same as above.
900-905	60	Siltstone buff grey, sandy, calcareous, slight argillaceous; grading to very fine grained calcareous sandstone in minor part.
	30	Limestone buff white to buff brown, micro-crystalline, trace bioclastic.
	10	Shale green grey, subfissile, calcareous.
902		<u>Fort Simpson</u>
905-930	60	Siltstone same as above; with minor inter-bedded shale, as above.
	40	Limestone buff white to light tan, micro-to very finely crystalline, slight crypto-crystalline.
930-965	50	Shale green grey to reddish brown grey, subfissile, slightly calcareous.
	30	Siltstone same as above.
	20	Limestone same as above.
965-990	50	Shale same as above.
	50	Siltstone buff grey, sandy, slightly calcareous; grading to silty limestone in minor part.
990-1040	70	Shale same as above.
	30	Siltstone buff white to buff grey, sandy, minor calcareous.
1040-1100	75	Shale red to brown grey, minor green grey, subfissile, trace pyritic.
	25	Siltstone buff white to light green, sandy, trace mica, slightly dolomitic, firm, grading to silty limestone in minor part.
1100-1140		Siltstone white to buff white, minor light green grey, sandy, in part calcareous, slight argillaceous; grading to very fine grained calcareous sandstone in minor part; with minor shale partings in places.
1140-1265	70	Shale green grey; minor red brown grey, subfissile, slight calcareous.
	30	Siltstone buff white to buff grey, slight sandy and calcareous.
1265-1350		Shale light green to green grey, slight red brown grey, subfissile, slight micromicaceous and calcareous; with minor stringers of siltstone, buff white to grey, slight sandy and calcareous.

<u>Depth (m)</u>	<u>%</u>	<u>Sample Description</u>
1350-1450		Shale same as above; with slight stringers of siltstone, as above; trace limestone near base.
1450-1455	60	Shale green grey, slight medium grey, sub-fissile, slightly dolomitic and marly.
	25	Sandstone clear and frosty quartz, minor brown quartz, coarse to very coarse grained, rounded to subrounded, well sorted.
	15	Limestone buff white to white, cryptocrystalline, chalky in part.
1451		<u>Muskwa</u>
1455-1490		Shale green grey to light green, subfissile, minor medium grey, marly to dolomitic; with minor stringers of siltstone and argillaceous limestone.
1490-1500		Shale dark brown grey to dark grey, marly, slightly dolomitic; with minor light grey to green grey shale.
1500-1505	50	Shale green grey to light green, subfissile, minor silty; with minor brown grey marly shale.
	50	Limestone buff white to cream grey, cryptocrystalline, slight earthy to microcrystalline, trace pyritic.
1505-1510	60	Shale same as above; with minor limestone, same as above.
	40	Limestone buff to light brown, micro- to very finely crystalline, in part cryptocrystalline, slight bioclastic, showed <u>light yellow cut in solvent.</u>
1508		<u>Slave Point</u>
1510-1514		Limestone buff to light brown, very finely crystalline, minor fine to medium crystalline, slight bioclastic (?), micritic and chalky in part, <u>very poor pinpoint porosity showing light dead (?) oil stain and light straw cut in solvent.</u>
1514.0-1532.0		Core No.1 (see Core Report)
1532.0-1550.0		Core No.2 (see Core Report)
1550-1555		Limestone medium-dark brown, cryptocrystalline, minor buff tan to buff white, slight micritic, probably stromatoporoid, slight thin fractures.
1555-1570		Limestone cream tan to buff white, minor medium brown, cryptocrystalline to earthy, stromatoporoid, trace bioclastic, slight thin fractures.

<u>Depth (m)</u>	<u>%</u>	<u>Sample Description</u>
1570-1575	50	Shale light green to cream green, waxy, clayey, platy, trace pyritic.
	50	Limestone buff white to tan, crypto- to micro-crystalline, slight chalky.
1572		<u>Watt Mountain</u>
1575-1580	40	Limestone same as above.
	20	Shale light to cream green, minor light grey, subfissile in part, trace pyritic.
	40	Limestone light-medium brown, minor brown grey, cryptocrystalline, minor microcrystalline, trace bioclastic.
1577		<u>Sulphur Point</u>
1580-1590		Limestone light brown to tan, cryptocrystalline, slight microcrystalline, minor buff white and micritic; trace medium-coarsely crystalline sparry calcite veinlets.
1590-1630		Limestone light-medium brown, tan in part, cryptocrystalline, slight microcrystalline, minor buff white micritic to earthy, slight chalky; becoming dolomitic near base.
1630-1635	50	Limestone same as above.
	50	Dolomite cream tan to light brown, minor cream white, finely crystalline, minor medium crystalline, <u>poor intercrystalline porosity</u> , no show; trace white dolomite rhombs in vugs.
1632		<u>Upper Keg River</u>
1635-1640		Dolomite cream tan to white, finely crystalline, minor medium crystalline, <u>minor very poor intercrystalline porosity</u> , no show; slight white to clear dolomite rhombs; trace pelletoidal; with minor interbedded limestone, cream brown to buff white, cryptocrystalline, slight chalky.
1640-1650		No samples collected due to lost circulation.
1650-1685		Dolomite light brown to cream tan, fine to medium crystalline, minor coarsely crystalline, <u>poor to very poor pinpoint porosity</u> , <u>clean</u> , no show; with minor white rhombic dolomite, some showing <u>fair to good intercrystalline porosity</u> , no show (probably as vug-fills, <u>vuggy porosity was estimated at fair to good</u>); slight clear calcite and quartz crystals (as veinlets or vug-fills).

<u>Depth (m)</u>	<u>%</u>	<u>Sample Description</u>
1685-1695		Dolomite medium-dark brown, minor tan, fine to medium crystalline, minor coarsely crystalline, with <u>poor to fair intercrystalline porosity</u> , <u>no show</u> ; with minor white rhombic dolomite.
1695-1705		Dolomite medium-dark brown, minor dark brown grey, medium to coarsely crystalline, slight argillaceous, with <u>fair intercrystalline porosity</u> , <u>clean</u> , <u>no show</u> ; with minor white rhombic dolomite.
1705-1710		Dolomite medium-dark brown grey, medium crystalline, slightly argillaceous, minor very poor to poor intercrystalline porosity, <u>no show</u> ; slight buff brown earthy to argillaceous limestone near base.
1710-1715	40	Dolomite light to dark brown, medium crystalline, slightly argillaceous.
	60	Limestone dirty buff brown, earthy to lithographic, slight marly; in part dark grey dolomitic limestone, argillaceous, crypto- to micro- crystalline.
1712		<u>Lower Kex River</u>
1715-1750		Limestone dirty buff brown, earthy to lithographic, minor marly, in part dark grey to dark brown grey, argillaceous to subbituminous, dolomitic.
1750-1755	70	Limestone same as above.
	30	Dolomite tan to cream white, fine to medium crystalline.
1753		<u>Chinchasa</u>
1755-1765	70	Dolomite buff brown to tan, minor medium to dark brown grey, micro- to very finely crystalline, minor finely crystalline, slight argillaceous and silty; slight stringers of anhydrite, cream white, microsugrosic.
	30	Limestone buff white to brown, earthy, in part marly, slightly dolomitic.
1765-1775	70	Dolomite same as above; with minor limestone, buff brown, earthy, slight marly.
	30	Anhydrite cream brown to white, microsugrosic, slightly dolomitic.
1775-1780	60	Anhydrite same as above.
	40	Dolomite same as above.
1780-1790	60	Anhydrite same as above; with minor dolomite, as above.
	40	Shale pale green, micromicaceous, minor silty; with stringers of sandstone, clear and frothy quartz, medium grained, subrounded, a few

<u>Depth (m)</u>	<u>%</u>	<u>Sample Description</u>
		very coarse grained quartz sand.
1785		<u>Granite Wash</u>
1780-1815		Sandstone frosty and clear quartz, coarse to very coarse grained, minor medium grained, subrounded to subangular, medium sorted; minor pink feldspar, arkosic; slight red iron oxides (limonite etc.); with minor interbedded shale, light green to light grey, slight clayey and micromicaceous, trace sandy.
1815-1820	30	Sandstone same as above; with about half weathered brown quartz, slight arkosic.
	70	Granite pink feldspar, black golden biotite, black to dark green amphibole, anhedral to subeuhedral quartz, slight earthy green chlorite, trace leucoxene.
1816		<u>Precambrian</u>
1820-1832		Granite same as above.
1832		<u>Final Total Depth</u>

Home Silt Lake A-64

CORE REPORT

Core No.1: 1514.0--1532.0 m K.B., cut 18 meters, recovered 18 meters
 Core No.2: 1532.0--1550.0 m K.B., cut 18 meters, recovered 15.5 meters

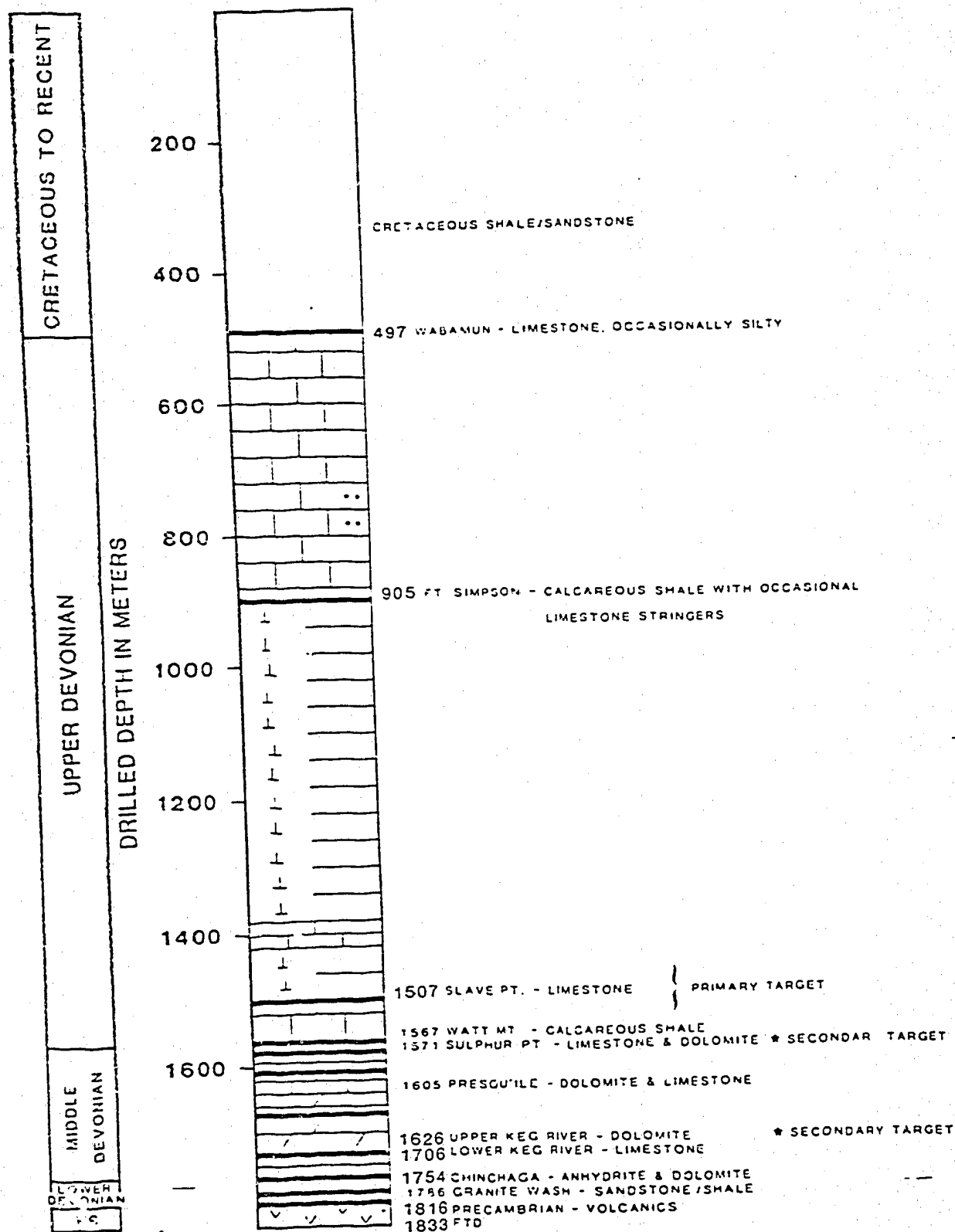
<u>Interval (m)</u>	<u>Thickness (m)</u>	<u>Lithology Description</u>
1514.0-1514.6	0.6	Limestone light brown, micro- to very finely crystalline, massive, bulbous stromatoporoids in places, <u>minor thin fractures with slight oil stain; slight stylolites; trace vugs filled with calcite.</u>
1514.6-1515.45	0.85	Limestone light brown to amber, micro- to very finely crystalline, minor medium crystalline, bulbous and branching stromatoporoids, slight stylolites, in part massive lime mud, <u>a few thin fractures showing minor slow seeping oil; a few coarsely crystalline calcite-lined veinlets.</u>
1515.45-1515.5	0.05	Limestone <u>fair bleeding oil from thin horizontal fractures and minor poor pinpoint and/or intrafossil (organic) porosity.</u>
1515.5-1516.3	0.8	Limestone light brown, micro- to very finely crystalline, stromatolitic to massive, <u>a few vertical hairline fractures showing slow seeping oil and/or live oil stain; slightly argillaceous near base.</u>
1516.3-1521.8	5.5	Limestone dark brown, minor medium brown, micro- to crypto- crystalline, massive, bulbous stromatoporoids in places, slight stylolites; <u>slight thin fractures showing light oil stain; limestone showed light cut in solvent.</u>
1521.8-1523.95	2.15	Limestone medium to dark brown, micro- to very finely crystalline, massive, stromatoporoids in places, occasionally large nodular lenses of lime mud, slight dark argillaceous and cherty limestone in groundmass; minor stylolites and load casts; a few corals; minor

<u>Interval (m)</u>	<u>Thickness (m)</u>	<u>Lithology Description</u>
		thin fractures; limestone generally showed <u>light cut</u> in solvent.
1523.95-1525.4	1.45	Limestone medium brown, micro- to very finely crystalline, massive, in part stromatoporoids, minor stylolites; <u>scattered thin fractures showing light oil stain.</u>
1525.4-1526.2	0.8	Limestone medium brown, micro- to very finely crystalline, massive to bulbous stromatoporoids, minor stylolites.
1526.2-1526.9	0.7	Limestone medium to dark amber brown, very fine to finely crystalline, minor medium crystalline, stromatoporoids, slight shell fragments, <u>fair bleeding oil from horizontal hairline fractures, some from very poor to poor pinpoint and/or organic porosity.</u>
1526.9-1527.6	0.7	Limestone dark brown, minor medium brown, cryptocrystalline, minor microcrystalline, minor stylolites, <u>slight thin fractures showing minor light oil stain; minor stromatoporoids and bioclastic fragments.</u>
1527.6-1529.3	1.7	Limestone medium to dark brown, very fine to finely crystalline, in part medium crystalline, stromatoporoids and bioclastics, <u>fair bleeding oil from horizontal hairline fractures and/or from poor pinpoint and organic porosity.</u>
1529.3-1531.2	1.9	Limestone dark brown, micro- to very finely crystalline, massive, minor stromatoporoids, slight argillaceous lime mud; minor stylolites.
1531.2-1532.0	0.8	Limestone medium brown, very fine to finely crystalline, minor medium crystalline, stromatoporoids(?), <u>fair and minor heavy bleeding oil from thin fractures, some from poor pinpoint and organic porosity.</u>
1532.0		End of Core No.1

Coring times: 43, 83, 153, 129, 134, 109, 123, 144, 167, 144, 129, 140, 110, 88, 48, 121, 127, 73 (minutes per meter)

<u>Interval (m)</u>	<u>Thickness (m)</u>	<u>Lithology Description</u>
1532.0-1535.2	3.2	Limestone dark brown, crypto- to micro- crystalline, massive, minor stromatoporoids, trace corals, minor vertical and irregular thin fractures, slight bituminous stain along fractures planes; trace veinlets of calcite and quartz; limestone showed <u>light yellow cut</u> in solvent; slight stylolites; trace brachiopods.
1535.2-1539.6	4.4	Limestone dark brown, cryptocrystalline, massive, bulbous and branching stromatoporoids in places, slight thin fractures; limestone showed <u>light yellow cut</u> in solvent.
1539.6-1540.7	1.1	Limestone dark brown, cryptocrystalline, massive, thin irregular fractures in upper part, slight stromatoporoids, moderately sheared; limestone showed <u>light to medium oil stain and bituminous stain along fractures, strong petroliferous odor.</u>
1540.7-1541.7	1.0	Limestone dark brown, cryptocrystalline, massive, slight stylolites, minor thin fractures; slight stromatoporoids, trace corals; moderately fractured in lower part.
1541.7-1547.5	5.8	Limestone dark to medium brown, cryptocrystalline, massive, slight stylolites, thinly bedded in part, wavy banded, slight stromatoporoids in places, slight thin irregular fractures; limestone showed <u>very light cut</u> in solvent.
1547.5		End of Core No.2
1547.5-1550.0	2.5	Lost core
Coring times:	109, 108, 103, 120, 140, 102, 108, 86, 87, 83, 94, 99, 100, 120, 119, 113, 111, 123 (minutes per meter)	

STRATIGRAPHIC COLUMN - SILT LAKE A-64 WELL KB 623.4m



WELL EVALUATION(1) Downhole Logs

	<u>Date</u>	<u>Interval</u>	<u>Service Company</u>
Log # 1	84-01-04	135.5 - 480 m	Schlumberger
Log # 2	84-01-26	481 - 1831 m	Schlumberger

For log types and scales see attached well logging program.

(2) Other Logs

Mud logging done from surface casing to F.T.D.

(3) Velocity Surveys

Survey done after final logging run. Records accompany report.

(4) Formation Stimulation

No formation stimulation was conducted on this well.

FORMATION AND PRODUCTION TESTING

<u>Test No. 1</u>	<u>Date</u>	<u>Interval</u>	<u>Recovery</u>
1	84-01-20	1505 - 1550	30 m mud
2	84-01-28	1806 - 1833	59 m mud and water
3	84-01-28	1649 - 1673	135 m mud, 915 m salt water
4	84-01-29	1524 - 1533	112 m, mud and water
5	84-01-30	1510 - 1524	20 m muddy inhibitor & water

Retailed pressure information submitted in appendices



Home Oil Company Limited
2300 Home Oil Tower
324 Eighth Avenue S.W.
Calgary, Alberta, Canada
T2P 2Z5
Telephone (403) 232-7100

TRANSMITTAL FORM

DATE

Feb. 22, 1984

FILE NO.

TO

Canada Oil & Gas Lands Administration (Ottawa)

DEPARTMENT

ATTENTION

L. Brandon

WELL NAME

Home Silt Lake

LOCATION

A-04



UNDER SEPARATE COVER



ENCLOSED AS FOLLOWS

- 2 water analysis for DST #1 Lab #E04-1135-1
- 1 water analysis for DST #3 Lab #E04-1134-5
- 2 water analysis for DST #2 Lab #E04-1132-3
- 2 water analysis for DST #5 Lab #E04-1136

Enclosed as follows

REMARKS

• PLEASE ACKNOWLEDGE RECEIPT OF THE ABOVE DATA BY SIGNING AND RETURNING THE YELLOW COPY

RECEIVED BY

SIGNED

Darlene Hillmo

DATE

DEPARTMENT

Exploration



Home Oil Company Limited
2300 Home Oil Tower
324 Eighth Avenue S.W.
Calgary, Alberta, Canada
T2P 2Z5
Telephone (403) 232-7100

TRANSMITTAL FORM

DATE	FEBRUARY 7, 1984
FILE NO.	

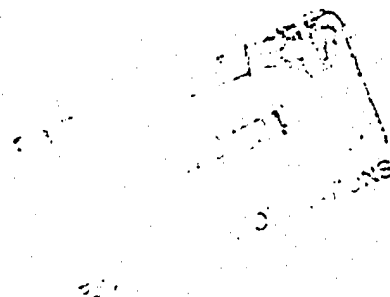
TO CANADA OIL & GAS LANDS ADMIN	
DEPARTMENT	ATTENTION L. BRANDON
WELL NAME HOME SILT LAKE	LOCATION A-64

☐ UNDER SEPARATE COVER

☒ ENCLOSED AS FOLLOWS

2 COPIES WATER ANALYSIS

Brandon



REMARKS	

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RECEIVED BY <i>J. Bruner</i>	SIGNED JANICE BRUNER
DATE 84-02-21	DEPARTMENT EXPLORATION



Home Oil Company Limited
2300 Home Oil Tower
324 Eighth Avenue S.W.
Calgary, Alberta, Canada
T2P 2Z5
Telephone (403) 232-7100

TRANSMITTAL FORM

DATE	84-02-13
FILE NO.	

TO CANADA OIL & GAS LANDS ADMIN	
DEPARTMENT	ATTENTION L. BRANDON
WELL NAME HOME SALT LAKE	LOCATION A-64

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2 COPIES OF THE FOLLOWING DST REPORTS 1,2,3,4, & 5
1 COPY GEOLOGICAL REPORT AND WELL HISTORY LOG
1 COPY CORE ANALYSIS
2 COPIES MUD LOGS

RECEIVED
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DATE 84-02-21	DEPARTMENT EXPLORATION



Home Oil Company Limited
2300 Home Oil Tower
324 Eighth Avenue S.W.
Calgary, Alberta, Canada
T2P 2Z5
Telephone (403) 232-7100

TRANSMITTAL FORM

DATE

April 2, 1984

FILE NO.

TO

Canada Oil & Gas Lands Administration (Ottawa)

DEPARTMENT

ATTENTION

L. Brandon

WELL NAME

Home Oil Ltd.

LOCATION

A-64

☐

UNDER SEPARATE COVER

☒

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2 sets of 10-3 1/2

REMARKS

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Darlene Hillman

DATE

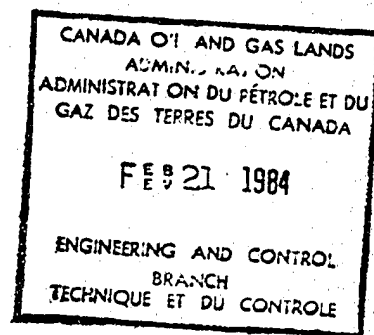
DEPARTMENT

Exploration

HOME OIL COMPANY LIMITED

Home Silt Lake A-64

GEOLOGICAL REPORT



Say Lee Kua
Calgary, Alberta

Home Silt Lake A-64

TABLE OF CONTENTS

Well Data Summary	1
Geological Markers	3
Lithology Summary	4
Core Report	11
Well History Log . .(attached)	

WELL DATA SUMMARY

Well Name: Home Silt Lake
Location: A-64 West Cameron Hills, N.W.T.
Operator: Home Oil Co. Ltd.
Co-ordinates: Latitude 60° 03' 14" N ;
Longitude 118° 56' 34.3" W
Elevations: Ground: +619.0m S.L.; K.B.: +623.4m S.L.
Well Permit No.: Exploration Permit No. 173
Spud Date: 1983-12-29
End Drilling: 1984-01-26
Rig Release:
Total Depth: 1833 m K.B.
Status of Well:
Hole Size: 311 mm: 0-482 m K.B.; 222 mm: 482-1833 m K.B.
Casing: Surface: ran 38 joints (489.34 m) of 244.5 mm,
K-55, 53.57 kg/m, ST&C new Algoma seamless
surface casing equipped with Baker float shoe
and float collar and 3 centralizers; cemented
by Homco with 22 tonnes of 1:1:0 plus 2% CaCl₂
plus 0.5% CFR-2; landed in tension at 481.26m
K.B.
Logs: Surface:
DILL/SFL: 1:240 & 1:600, 0-482 m K.B.
CNL/FDC/GR/CAL: 1:240 & 1:600, 0-482 m K.B.
Sonic/GR: 1:240 & 1:600, 0-482 m K.B.
Final:
DILL/SFL: 1:240 & 1:600, 481-1831 m K.B.
CNL/FDC/GR/CAL: 1:240 & 1:600, 481-1833 m K.B.
Sonic/ GR: 1:240 & 1:600, 481-1830 m K.B.
Coring: Diamond Bit Type C-201; Core Barrel Size: 171
mm (O.D.), 102 mm (I.D.), 18 m (Length)
Core No. 1 : 1514.0-1532.0 m K.B. (Slave Point)
cut 18 meters, recovered 18 meters
Core No. 2 : 1532.0-1550.0 m K.B. (Slave Point)
cut 18 meters, recovered 15.5 meters
Tests: D.S.T. No. 1 : 1505.0-1550.0 m K.B. (Slave Point)
weak air blow (increasing gradually) on PF,
strong air blow (steady throughout) with no
GTS on VO; rec. 30 m drilling mud
D.S.T. No. 2: 1806.0-1833.0 m K.B. (Granite Wash)
weak to fair air blow with no GTS on PF,
weak air blow with no GTS on VO, rec. 20 m
inhibited water cushion and 39 m drilling mud

D.S.T. No.3: 1649.0-1673.0 m K.B. (Upper Keg R.)
plugged bubble hose, strong air blow (decreasing) with no CTS on PF; strong air blow (decreasing) with no GTS on VO; rec. 1050 m of fluid comprised of 20 m inhibited water cushion, 115 m drilling mud, and 915 m water; salinity: 115,000 ppm

D.S.T. No.4: 1524.0-1533.0 m K.B. (Slave Point)
weak to steady air blow with no GTS on PF;
weak to steady air blow with no GTS on VO;
rec. 112 m of fluid comprised of 20 m inhibited water cushion and 92 m drilling mud

D.S.T. No.5: 1505.0-1513.0 m K.B. (Slave Point)
weak air blow with no GTS on PF; weak air blow with no GTS on VO; rec. 20 m inhibited water cushion

Drilling Rig:

Hi Tower Drilling Rig No. 17

Geologist:

Say-Lee Kua

Home Silt Lake A-64

GEOLOGICAL MARKERS

K.B.: +623.4 m S.L.

<u>Formation</u>	<u>Prognosis</u>	<u>Sample</u>	<u>Log</u>	<u>(Subsea)</u>
Wabamun	490	495	497.5	+ 125.9
Kakisa	756	764	768.5	- 145.1
Jean Marie	884	891	892	- 268.6
Fort Simpson	896	902	905.5	- 282.1
Muskwa	-	1451	1463	- 839.6
Slave Point	1501	1508	1507.5	- 884.1
Watt Mountain	1567	1572	1567.5	- 944.1
Sulphur/Presqu'ile	1571	1577	1570.5	- 947.1
Upper Keg River	1671	1632	1626.5	-1003.1
Lower Keg River	1734	1712	1706.5	-1083.1
Chinchaga	1770	1753	1754	-1130.6
Granite Wash	1786	1785	1788.5	-1165.1
Precambrian	1801	1816	1817.5	-1194.1
Final Total Depth	1816	1832	1833	-1209.6

Home Silt Lake A-64

LITHOLOGY SUMMARY

<u>Depth (m)</u>	<u>%</u>	<u>Sample Description</u>
395-405	75 25	Shale medium grey, soft, platy. Sandstone clear and frosty quartz, minor pink quartz, coarse to very coarse grained, sub-rounded to rounded, <u>probably fair to good intergranular porosity, no show.</u>
405-415		Shale same as above; with minor (10-15%) stringers of sandstone, as above.
415-440	80 20	Shale as above. Sandstone as above.
440-475		Shale as above; with sl quartz sand, clear and frosty with minor pink quartz, rounded, very coarse grained, <u>fair intergranular porosity, no show.</u>
475-485	60 40	Shale medium to dark grey, subfissile, trace black fish scales and white specks. Sandstone clear and frosty quartz, minor pink and white quartz, rounded to subrounded, medium to coarse grained, minor very coarse grained, well to medium sorted, <u>probably fair to good porosity, no show.</u>
485-495		Shale medium grey, minor green grey, slightly silty and micromicaceous, with minor stringers of quartz sandstone, same as above.
495-550		Limestone white to pearly white, micro- to very finely crystalline, minor crypto-crystalline, micritic, slight chalky, with slight bioclastic fragments, crinoid, shell fragments, trace cherty.
495		<u>Wabamun</u>
550-580		Limestone white, microcrystalline, in part cryptocrystalline, chalky, trace bioclastic fragments.
580-635		Limestone white, micro- to crypto-crystalline, chalky to micritic, trace pyrite, trace sparry calcite veinlets and patches.
635-680		Limestone white, cryptocrystalline, micro-crystalline in part, slight earthy, slight bioclastic fragments, crinoid, ostracod, shell fragments, trace pyrite.

<u>Depth (m)</u>	<u>%</u>	<u>Sample Description</u>
680-710		Limestone white to tan, micro- to very finely crystalline, minor cryptocrystalline, minor bioclastic fragments, ostracod, crinoid, gastropod, slightly pelletoidal.
710-760		Limestone buff white to light tan, micro- to crypto-crystalline, minor very finely crystalline, micritic, slight chalky, trace pyrite; slight silty towards base.
760-765	50	Sandstone buff grey, very fine grained, calcareous cement, slightly argillaceous, sub-angular to subrounded, well sorted; becoming sandy limestone in minor part.
	30	Limestone same as above.
	20	Limestone light brown, microcrystalline, minor cryptocrystalline, trace pisolite.
764		<u>Kakisa</u>
765-795		Limestone light brown to buff white, micro- to very finely crystalline, slight chalky; with minor stringers of calcareous siltstone near base.
795-820		Limestone buff white to buff grey, micro- to very finely crystalline, silty in part, slight argillaceous, minor chalky.
820-825	70	Limestone white to buff tan, microcrystalline, minor very finely and crypto-crystalline, slight chalky, trace bioclastic fragments.
	30	Siltstone buff grey, calcareous, slightly argillaceous.
825-835	70	Siltstone same as above.
	30	Limestone same as above.
835-890	50	Siltstone buff to light grey, sandy, calcareous cement, slightly argillaceous; grading to very fine grained calcareous sandstone in minor part. Slight medium-green grey shale.
	50	Limestone buff white to light tan, micro- to crypto- crystalline, minor very finely crystalline, slight chalky, trace crinoid.
890-895	50	Limestone buff brown to white, microcrystalline, minor very finely crystalline, slight dolomitic, trace bioclastic.
	30	Sandstone buff grey, very fine grained, frosty and grey quartz, slight argillaceous, calcareous cement, subangular, well sorted, tight.
	20	Shale green grey, subfissile, calcareous.
891		<u>Jean Marie</u>

<u>Depth (m)</u>	<u>%</u>	<u>Sample Description</u>
855-900	60	Limestone same as above.
	20	Sandstone same as above.
	20	Shale same as above.
900-905	60	Siltstone buff grey, sandy, calcareous, slight argillaceous; grading to very fine grained calcareous sandstone in minor part.
	30	Limestone buff white to buff brown, micro-crystalline, trace bioclastic.
	10	Shale green grey, subfissile, calcareous.
902		<u>Fort Simpson</u>
905-930	60	Siltstone same as above; with minor inter-bedded shale, as above.
	40	Limestone buff white to light tan, micro-to very finely crystalline, slight crypto-crystalline.
930-965	50	Shale green grey to reddish brown grey, subfissile, slightly calcareous.
	30	Siltstone same as above.
	20	Limestone same as above.
965-990	50	Shale same as above.
	50	Siltstone buff grey, sandy, slightly calcareous; grading to silty limestone in minor part.
990-1040	70	Shale same as above.
	30	Siltstone buff white to buff grey, sandy, minor calcareous.
1040-1100	75	Shale red to brown grey, minor green grey, subfissile, trace pyritic.
	25	Siltstone buff white to light green, sandy, trace mica, slightly dolomitic, firm, grading to silty limestone in minor part.
1100-1140		Siltstone white to buff white, minor light green grey, sandy, in part calcareous, slight argillaceous; grading to very fine grained calcareous sandstone in minor part; with minor shale partings in places.
1140-1265	70	Shale green grey, minor red brown grey, subfissile, slight calcareous.
	30	Siltstone buff white to buff grey, slight sandy and calcareous.
1265-1350		Shale light green to green grey, slight red brown grey, subfissile, slight micromicaceous and calcareous; with minor stringers of siltstone, buff white to grey, slight sandy and calcareous.

<u>Depth (m)</u>	<u>%</u>	<u>Sample Description</u>
1350-1450		Shale same as above; with slight stringers of siltstone, as above; trace limestone near base.
1450-1455	60	Shale green grey, slight medium grey, sub-fissile, slightly dolomitic and marly.
	25	Sandstone clear and frosty quartz, minor brown quartz, coarse to very coarse grained, rounded to subrounded, well sorted.
	15	Limestone buff white to white, cryptocrystalline, chalky in part.
1451		<u>Muskwa</u>
1455-1490		Shale green grey to light green, subfissile, minor medium grey, marly to dolomitic; with minor stringers of siltstone and argillaceous limestone.
1490-1500		Shale dark brown grey to dark grey, marly, slightly dolomitic; with minor light grey to green grey shale.
1500-1505	50	Shale green grey to light green, subfissile, minor silty; with minor brown grey marly shale.
	50	Limestone buff white to cream grey, cryptocrystalline, slight earthy to microcrystalline, trace pyritic.
1505-1510	60	Shale same as above; with minor limestone, same as above.
	40	Limestone buff to light brown, micro- to very finely crystalline, in part cryptocrystalline, slight bioclastic, showed <u>light yellow cut in solvent.</u>
1508		<u>Slave Point</u>
1510-1514		Limestone buff to light brown, very finely crystalline, minor fine to medium crystalline, slight bioclastic (?), micritic and chalky in part, <u>very poor pinpoint porosity showing light dead (?) oil stain and light straw cut in solvent.</u>
1514.0-1532.0		Core No.1 (see Core Report)
1532.0-1550.0		Core No.2 (see Core Report)
1550-1555		Limestone medium-dark brown, cryptocrystalline, minor buff tan to buff white, slight micritic, probably stromatoporoid, slight thin fractures.
1555-1570		Limestone cream tan to buff white, minor medium brown, cryptocrystalline to earthy, stromatoporoid, trace bioclastic, slight thin fractures.

<u>Depth (m)</u>	<u>%</u>	<u>Sample Description</u>
1570-1575	50	Shale light green to cream green, waxy, clayey, platy, trace pyritic.
	50	Limestone buff white to tan, crypto- to micro-crystalline, slight chalky.
1572		<u>Watt Mountain</u>
1575-1580	40	Limestone same as above.
	20	Shale light to cream green, minor light grey, subfissile in part, trace pyritic.
	40	Limestone light-medium brown, minor brown grey, cryptocrystalline, minor microcrystalline, trace bioclastic.
1577		<u>Sulphur Point</u>
1580-1590		Limestone light brown to tan, cryptocrystalline, slight microcrystalline, minor buff white and micritic; trace medium-coarsely crystalline sparry calcite veinlets.
1590-1630		Limestone light-medium brown, tan in part, cryptocrystalline, slight microcrystalline, minor buff white micritic to earthy, slight chalky; becoming dolomitic near base.
1630-1635	50	Limestone same as above.
	50	Dolomite cream tan to light brown, minor cream white, finely crystalline, minor medium crystalline, <u>poor intercrystalline porosity</u> , no show; trace white dolomite rhombs in vugs.
1632		<u>Upper Keg River</u>
1635-1640		Dolomite cream tan to white, finely crystalline, minor medium crystalline, minor <u>very poor intercrystalline porosity</u> , no show; slight white to clear dolomite rhombs; trace pelletoidal; with minor interbedded limestone, cream brown to buff white, cryptocrystalline, slight chalky.
1640-1650		No samples collected due to lost circulation.
1650-1685		Dolomite light brown to cream tan, fine to medium crystalline, minor coarsely crystalline, <u>poor to very poor pinpoint porosity</u> , clean, no show; with minor white rhombic dolomite, some showing <u>fair to good intercrystalline porosity</u> , no show (probably as vug-fills, <u>vuggy porosity was estimated at fair to good</u>); slight clear calcite and quartz crystals (as veinlets or vug-fills).

<u>Depth (m)</u>	<u>%</u>	<u>Sample Description</u>
1685-1695		Dolomite medium-dark brown, minor tan, fine to medium crystalline, minor coarsely crystalline, with <u>poor to fair intercrystalline porosity</u> , <u>no show</u> ; with minor white rhombic dolomite.
1695-1705		Dolomite medium-dark brown, minor dark brown grey, medium to coarsely crystalline, slight argillaceous, with <u>fair intercrystalline porosity</u> , <u>clean</u> , <u>no show</u> ; with minor white rhombic dolomite.
1705-1710		Dolomite medium-dark brown grey, medium crystalline, slightly argillaceous, minor <u>very poor to poor intercrystalline porosity</u> , <u>no show</u> ; slight buff brown earthy to argillaceous limestone near base.
1710-1715	40	Dolomite light to dark brown, medium crystalline, slightly argillaceous.
	60	Limestone dirty buff brown, earthy to lithographic, slight marly; in part dark grey dolomitic limestone, argillaceous, crypto- to micro- crystalline.
1712		<u>Lower Keg River</u>
1715-1750		Limestone dirty buff brown, earthy to lithographic, minor marly, in part dark grey to dark brown grey, argillaceous to subbituminous, dolomitic.
1750-1755	70	Limestone same as above.
	30	Dolomite tan to cream white, fine to medium crystalline.
1753		<u>Chinchaga</u>
1755-1765	70	Dolomite buff brown to tan, minor medium to dark brown grey, micro- to very finely crystalline, minor finely crystalline, slight argillaceous and silty; slight stringers of anhydrite, cream white, microsugrosic.
	30	Limestone buff white to brown, earthy, in part marly, slightly dolomitic.
1765-1775	70	Dolomite same as above; with minor limestone, buff brown, earthy, slight marly.
	30	Anhydrite cream brown to white, microsugrosic, slightly dolomitic.
1775-1780	60	Anhydrite same as above.
	40	Dolomite same as above.
1780-1790	60	Anhydrite same as above; with minor dolomite, as above.
	40	Shale pale green, micromicaceous, minor silty; with stringers of sandstone, clear and frosty quartz, medium grained, subrounded, a few

<u>Depth (m)</u>	<u>%</u>	<u>Sample Description</u>
		very coarse grained quartz sand.
1785		<u>Granite Wash</u>
1790-1815		Sandstone frosty and clear quartz, coarse to very coarse grained, minor medium grained, subrounded to subangular, medium sorted; minor pink feldspar, arkosic; slight red iron oxides (limonite etc.); with minor interbedded shale, light green to light grey, slight clayey and micromicaceous; trace sandy.
1815-1820	30	Sandstone same as above; with about half weathered brown quartz, slight arkosic.
	70	Granite pink feldspar, black golden biotite, black to dark green amphibole, anhedral to subeuhedral quartz, slight earthy green chlorite, trace leucoxene.
1816		<u>Precambrian</u>
1820-1832		Granite same as above.
1832		<u>Final Total Depth</u>

Home Silt Lake A-64

CORE REPORT

Core No.1: 1514.0--1532.0 m K.B., cut 18 meters, recovered 18 meters

Core No.2: 1532.0--1550.0 m K.B., cut 18 meters, recovered 15.5 meters

<u>Interval (m)</u>	<u>Thickness (m)</u>	<u>Lithology Description</u>
1514.0-1514.6	0.6	Limestone light brown, micro- to very finely crystalline, massive, bulbous stromatoporoids in places, <u>minor thin fractures with slight oil stain; slight stylolites; trace vugs filled with calcite.</u>
1514.6-1515.45	0.85	Limestone light brown to amber, micro- to very finely crystalline, minor medium crystalline, bulbous and branching stromatoporoids, slight stylolites, in part massive lime mud, <u>a few thin fractures showing minor slow seeping oil;</u> a few coarsely crystalline calcite-lined veinlets.
1515.45-1515.5	0.05	Limestone <u>fair bleeding oil from thin horizontal fractures and minor poor pinpoint and/or intrafossil (organic) porosity.</u>
1515.5-1516.3	0.8	Limestone light brown, micro- to very finely crystalline, stromatolitic to massive, <u>a few vertical hairline fractures showing slow seeping oil and/or live oil stain;</u> slightly argillaceous near base.
1516.3-1521.8	5.5	Limestone dark brown, minor medium brown, micro- to crypto- crystalline, massive, bulbous stromatoporoids in places, slight stylolites; <u>slight thin fractures showing light oil stain;</u> limestone showed <u>light cut</u> in solvent.
1521.8-1523.95	2.15	Limestone medium to dark brown, micro- to very finely crystalline, massive, stromatoporoids in places, occasionally large nodular lenses of lime mud, slight dark argillaceous and cherty limestone in groundmass; minor stylolites and load casts; a few corals; minor

<u>Interval (m)</u>	<u>Thickness (m)</u>	<u>Lithology Description</u>
		thin fractures; limestone generally showed <u>light cut</u> in solvent.
1523.95-1525.4	1.45	Limestone medium brown, micro- to very finely crystalline, massive, in part stromatoporoids, minor stylolites; <u>scattered thin fractures showing light oil stain.</u>
1525.4-1526.2	0.8	Limestone medium brown, micro- to very finely crystalline, massive to bulbous stromatoporoids, minor stylolites.
1526.2-1526.9	0.7	Limestone medium to dark amber brown, very fine to finely crystalline, minor medium crystalline, stromatoporoids, slight shell fragments, <u>fair bleeding oil from horizontal hairline fractures, some from very poor to poor pinpoint and/or organic porosity.</u>
1526.9-1527.6	0.7	Limestone dark brown, minor medium brown, cryptocrystalline, minor microcrystalline, minor stylolites, <u>slight thin fractures showing minor light oil stain;</u> minor stromatoporoids and bioclastic fragments.
1527.6-1529.3	1.7	Limestone medium to dark brown, very fine to finely crystalline, in part medium crystalline, stromatoporoids and bioclastics, <u>fair bleeding oil from horizontal hairline fractures and/or from poor pinpoint and organic porosity.</u>
1529.3-1531.2	1.9	Limestone dark brown, micro- to very finely crystalline, massive, minor stromatoporoids, slight argillaceous lime mud; minor stylolites.
1531.2-1532.0	0.8	Limestone medium brown, very fine to finely crystalline, minor medium crystalline, stromatoporoids(?) <u>fair and minor heavy bleeding oil from thin fractures, some from poor pinpoint and organic porosity.</u>
1532.0		End of Core No.1

Coring times: 43, 83, 153, 129, 134, 109, 123, 144, 167, 144, 129, 140, 110, 88, 48, 121, 127, 73 (minutes per meter)

<u>Interval (m)</u>	<u>Thickness (m)</u>	<u>Lithology Description</u>
1532.0-1535.2	3.2	Limestone dark brown, crypto- to micro- crystalline, massive, minor stromatoporoids, trace corals, minor vertical and irregular thin fractures, slight bituminous stain along fractures planes; trace veinlets of calcite and quartz; limestone showed <u>light yellow cut</u> in solvent; slight stylolites; trace brachiopods.
1535.2-1539.6	4.4	Limestone dark brown, cryptocrystalline, massive, bulbous and branching stromatoporoids in places, slight thin fractures; limestone showed <u>light yellow cut</u> in solvent.
1539.6-1540.7	1.1	Limestone dark brown, cryptocrystalline, massive, thin irregular fractures in upper part, slight stromatoporoids, moderately sheared; limestone showed <u>light to medium oil stain and bituminous stain along fractures, strong petroliferous odor.</u>
1540.7-1541.7	1.0	Limestone dark brown, cryptocrystalline, massive, slight stylolites, minor thin fractures; slight stromatoporoids, trace corals; moderately fractured in lower part.
1541.7-1547.5	5.8	Limestone dark to medium brown, cryptocrystalline, massive, slight stylolites, thinly bedded in part, wavy banded, slight stromatoporoids in places, slight thin irregular fractures; limestone showed <u>very light cut</u> in solvent.
1547.5		End of Core No.2
1547.5-1550.0	2.5	Lost core
Coring times: 109, 108, 103, 120, 140, 102, 108, 86, 87, 88, 94, 99, 100, 120, 119, 113, 111, 123 (minutes per meter)		

WELL HISTORY LOG

WELL NAME Home Silt Lake

LOCATION A-64 N.W.T.

FTD 1832 m K.B.

DATE SPUDD 1983-12-29

ELEV: K.B. +623.4 m S.L.

FORMATION Precambrian

RIG RELEASE

ELEV: G.L. +619.0 m S.L.

STATUS

GEOLOGIST Say-Lee Kua

	Breccia		Dolomite		Volcanic		Calcareous		Nodules		Chalky
	Conglomerate		Anhydrite		Metamorphic		Dolomitic		Bioclastic or Frag.		Lithographic
	Granite Wash		Gypsum		Marl, limy		Anhydritic		Oolites		Cryptocrystalline
	Sandstone		Salt		Marl, dolomitic		Gypsiferous		Pellets		No Sample
	Siltstone		Potash		Limestone, streak		Chert, light and dark		Pyrite		Stromatoporeid
	Shale		Coal		Dolomite, streak		Argillaceous		Fossils		Coral
	Shale, black		Glacial Till		Sandy		Glaucinitic		Carbonaceous		
	Limestone		Igneous		Silty		Salt Cast		Earthy		

[illegible]

01-02

01-05

Mud
wt. 1120
vis. 45
w.l. 13
pH 10

Bit wt. 10000daN
R.P.M. 140
Pump P. 8000kPa

SDGH 31mm
387-482m
4.75 hrs
3-2-I

Mud
wt. 1200
vis. 65
w.l. 13
pH 10

Bit wt. 10000
R.P.M. 140
Pump P. 8000

450

500

550

600

SH m gy, sbfis
SS clr & fros qtz, mn pink,
c-vc gr, rd-sbrd, w srted,
prob fair por, no show
SH same as above; with mn
ss strg
SS Same as above

SH m gy to grn gy, sbfis, sft
tr Fe-st; w/ mn strg of
qtz sd

SS clr-fros-pink qtz, m-vc gr
rd-sbrd, w-m srted, prob
fair por, no show; w/ int-
bd sh, m-dk gy, sbfis, tr
bk fish sc & wh sepc

Wabamun 495m (+128.4m S.L.)
LST wh, micxln, micritic, sl
chty, sl biocl, mn chky,
cptxln in places

LST wh, micxln, mn cptxln, pt
micritic to chky, tr biocl

LST wh, cptxln, mn micxln, pt
chky, tr clr calc veinlets
tr pyr

30

101-06

87°

Mud wt. 1110
vis. 39
w-l. 16
pn 10

Bit wt. 12000
R.P.M. 90
Pump P. 7500

513G 222mm
482-663m, 27 1/2 hrs
3-2-I

1-07

550

600

650

700

LST wh, micxln, mnr cptxln, pt
micritic to chky, tr biocl

LST wh, cptxln, mnr micxln, pt
chky, tr clc calc veinlets
tr pyr

LST wh, micxln, pt cptxln,
chky-micritic, tr pyr

LST wh, cptxln, mnr micxln, sl
chky to earthy; tr biocl,
crin, shell frag, tr pyr

LST wh, micxln, pt cptxln,
micritic, sl biocl, ost,
crin; tr sparry calc vein-
lets, tr pyr

LST wh to lt tan, mic-vf xln,
mnr cptxln, sl biocl, ost,
crin, gast, sl pel

LST wh-bf wh, cptxln, mnr mic-
xln, pt micritic, sl chky,
tr pyr

Bit wt. 12000
R.P.M. 90
Pump P. 7500

513G 222mm
482-663m, 27 1/2 hrs
3-2-I

Mud wt. 1130
vis. 36
pH 9.5

Bit wt. 12000
R.P.M. 90
Pump P. 7000

FP12 222mm
663-814m
3 1/2 hrs
3-2-I

Mud wt. 1100
vis. 39
W.L. 18
pH 10

Bit wt. 6000
R.P.M. 80
Pump P. 6000

650

700

750

800

chky to earthy; tr biocl,
crin, shell frag, tr pyr

LST wh, micxln, pt cptxln,
micritic, sl biocl, ost,
crin; tr sparry calc vein-
lets, tr pyr

LST wh to lt tan, mic-vf xln,
mnr cptxln, sl biocl, ost,
crin, gast, sl pel

LST wh-bf wh, cptxln, mnr mic-
xln, pt micritic, sl chky,
tr pyr

LST bf wh to lt tan, micxln,
mnr cptxln & vf xln, pt
micritic

LST bf wh to tan, micxln-vf
xln, sl slty-sdy, tr pyr
crin

LST same as above; sl more
biocl; w/ intbd ss, bf gy,
vf gr, calc, ben sdy lst

Kakisa 764m (-140.6m S.L.)
LST lt brn to bf wh, mic-vf
xln, mnr cptxln, sl chky,
sl slty lst, gd to calc
sltst

LST bf wh to bf gy, mic-vf xln
pt slty, sl arg, mnr cptxln
sl micritic-chky

LST same as above; sl biocl

SLTST bf gy, calc, sl arg; w/
intbd lst

SLTST same as above; gd to vf gr
calc ss; w/ sl sh, grn gy,
sbfis, sl calc; w/ intbd
lst, wh to tan, mic-slty,
sl chky

2108

FP 12 222mm

663-814m

311 hrs

3-2-1

Mud wt. 1100

vis. 39

W.L. 18

pH 10

Bit wt. 16000

R.P.M. 80

Pump P. 6000

800

850

900

950

6010

Mud wt. 1120

vis. 42

W.L. 18

pH 9.5

Bit wt. 16000

R.P.M. 80

Pump P. 7000

10
16

JDA 222mm

814-989m

31.75 hrs

sl slty lst, gd to calc
sltst

LST bf wh to bf gy, mic-vf xln
pt slty, sl arg, mnr cptxln
sl micritic-chky

LST same as above; sl biocl

SLTST bf gy, calc, sl arg; w/
intbd lst

SLTST same as above; gd to vf gr
calc ss; w/ sl sh, grn gy,
sbfis, sl calc; w/ intbd
lst, wh to tan, mic-slty,
sl chky

SLTST bf gy, calc, sl arg, w/
mnr sh, grn gy to tan
sbfis, sl calc; intbd w/
lst, bf wh to tan, micxln
pt cptxln & chky, tr crin

SS bf gy, vf gr, fros & gy qtz
calc cmt, sl arg; mnr grn
gy sh ptgs; intbd w/ lst

Fort Simpson 902m (-278.6m S.L.)

SLTST bf gy, qtzs, calc, sl arg,
gd to vf gr calc ss in mnr
pt; mnr sh ptgs

LST bf wh to lt tan, mic-vf
xln, sl crptxln

SH grn gy to red brn gy, sb-
fis, sl calc; intbd w/
lst & sltst

SLTST bf gy, qtzs, sl calc; w/
mnr lst, bf wh to tan,
micxln to slty; intbd w/
sh, same as above

5

sbfis, sl calc; intbd w/
lst, bf wh to tan, micxln
pt cptxln & chky, tr crin

SS bf gy, vf gr, fros & gy qtz
calc cmt, sl arg; mngr grn
gy sh ptgs; intbd w/ lst

Fort Simpson 902m (-278.6m S.L.)

SLTST bf gy, qtzs, calc, sl arg,
gd to vf gr calc ss in mngr
pt; mngr sh ptgs

LST bf wh to lt tan, mic-vf
xln, sl crptxln

SH grn gy to red brn gy, sb-
fis, sl calc; intbd w/
lst & sltst

SLTST bf gy, qtzs, sl calc; w/
mngr lst, bf wh to tan,
micxln to slty; intbd w/
sh, same as above

SH same as above; w/ mngr slt-
st

SH red to brn gy, mngr grn gy,
sbfis, tr pyr; w/ mngr int-
bd sltst, bf wh to bf gy,
qtzs, mngr calc

Mud wt. 1120
vis. 42
w.l. 13
pH 9.5
Bit wt. 16000
R.P.M. 80
pump P. 7000

JDA 222mm
814-989m
37.75 hrs
4-3-1

Mud wt. 1150
vis. 41
w.l. 15
pH 9.5
Bit wt. 12000
R.P.M. 90
Pump P. 7000

JD4 222mm
814-989m
34.75 hrs
4-3-1

Mud wt. 1150
vis. 41
w.l. 15
pH 9.5
Bit wt. 12000
R.P.M. 90
Pump PP. 7000

Mud wt. 1155
vis. 50
w.l. 15.5
pH 9.5
Bit wt. 12000
R.P.M. 85
Pump P. 6500

SH same as above; w/ mnrl slt-
st

SH red to brn gy, mnrl grn gy,
sbfis, tr pyr; w/ mnrl int-
bd sltst, bf wh to bf gy,
qtzs, mnrl calc

SLTST bf wh, mnrl grn, sdy, mnrl
calc, sl arg; w/ intbd sh

SLTST wh to bf wh, sdy, calc, gd
to vf gr calc ss in mnrl pt
intbd w/ mnrl sh

SH grn gy, mnrl red brn gy,
sbfis, sl calc; w/ mnrl
strg of sltst

70/

01-11

Mud wt. 1155
vis. 50
w.l. 15.5
pH 9.5
Bit wt. 12000
R.P.M. 85
Pump P. 6500

10
8

1150

1200

1250

1300

SLTST wh to bf wh, scy, calc, gd
to vf gr calc ss in mnr pt
intbd w/ mnr sh

SH grn gy, mnr red brn gy,
sbfis, sl calc; w/ mnr
strg of sltst

01-12

Mud wt. 1150
vis. 50
w.l. 10
pH 10
Bit wt. 12000
R.P.M. 85
Pump P. 6500

SH lt grn to grn gy, sl red
brn gy, pt sbfis, sl mic-
mica; w/ mnr strg of sltst

1250

1300

1350

1400

1450

SH lt grn to grn gy, sl red
brn gy, pt sbfis, sl mic-
mica; w/ mnr strg of sltst

SH grn gy to lt grn, fis, sl
micmica, sl slty & lst
strg

Muskwa 1451m (-827.6m S.L.)

5/12
Mud wt. 1150
vis. 50
w.l. 10
ph 10
Bit wt. 12000
R.P.M. 85
Pump P. 6500

5/13
Mud wt. 1175
vis. 52
w.l. 11.6
ph 9.5
Bit wt. 12000
R.P.M. 85
Pump P. 6700

01-13

Mud wt. 1175
vis. 52
W.L. 11.6
pH 9.5
Bit wt. 12000
R.P.M. 85
Pump P. 6700

01-14

521G 222m
989-1485m
100.75 hrs
3-3-1

01-15

521G 222m
1485-1514m
17.75 hrs
2-2-1

01-16

01-17

01-18

01-19

Mud
wt. 1108
vis. 69

1400

1450

1500

1550

Muskwa 1451m (-827.6m S.L.)

SH grn gy to lt grn, sbfis,
mnr m gy, mott, sl mrly;
mnr strg of c gr qtz ss
& wh chky lst

SH dk gy to m brn gy, mrly,
mnr lt-grn gy, sl dol

SH grn gy, sbfis, mnr slty,
pt brn gy mrly; intbd w/
lst, bf wh, ctpxln, sl chky

Slave Point 1508m (-884.6m S.L.)

LST lt brn, vf xln, sl f-m xln
strom, thin frac w/ sl o
stn, slow bleeding o in
places; bcm m-dk brn, vf-
micxln, nod lime mud, sl
arg, tr coral, mnr thin
frac w/ lt o stn; bcm vf-
f xln, mnr m xln, strom,
m live o sta & bleeding o
from thin frac &/or p-fair
org/pp por; bcm dk brn,
ctpxln-micxln, massive,
mnr strom, sl thin frac,
lt o stn in places, lt
cut throughout, sl styl,
pt wavy banded

LST crm tan, ctpxln to earthy,
pt m brn, prob strom, tr
biocl

100

7

& wh chky lst

31.4 222mm
989-1485m
100.75 hrs
3-3-1

S21G 222mm
1485-1514m
11.75 hrs
2-2-1

Mud
wt. 1108
vis. 69
w.l. 8
pH 10
Bit
wt. 2000
RPM 85
P.P. 6500

Mud
wt. 1110
vis. 70
w.l. 8
pH 10

Mud
wt. 1080
vis. 70
w.l. 8
pH 10

1500

1550

1505

1510

1515

1520

1525

1530

1535

1540

1545

1550

SH dk gy to m brn gy, mrly,
mnr lt-grn gy, sl dol

SH grn gy, sbfis, mnr slty,
pt brn gy mrly; intbd w/
lst, bf wh, cptxln, sl chky
Slave Point 1508m (-884.6m S.L.)

LST lt brn, vf xln, sl f-m xln
strom, thin frac w/ sl o
stn, slow bleeding o in
places; bcm m-dk brn, vf-
micxln, nod lime mud, sl
arg, tr coral, mnr thin
frac w/ lt o stn; bcm vf-
f xln, mnr m xln, strom,
m live o sta & bleeding o
from thin frac &/or p-fail-
org/pp por; bcm dk brn,
cptxln-micxln, massive,
mnr strom, sl thin frac,
lt o stn in places, lt
cut throughout, sl styl,
pt wavy banded

LST crm tan, ctpxln to earthy,
pt m brn, prob strom, tr
biocl

Watt Mtn 1572m (-948.6m S.L.)
SH lt-crm grn, waxy, clayey,
tr pyr; w/ intbd lst, bf
wh-tan, ctpxln, sl chky
Sulphur Point 1577m (-953.6m S.L.)
LST lt brn to tan, ctpxln, sl
micxln, pt bf wh, chky

LST lt-m brn, ctpxln, mnr mic-
xln, mnr bf wh chky &
earthy

LST crm tan, mnr lt brn, ctp-
xln, sl dol, mnr bf wh,
sl chky, tr Alg; sl thin
frac

S.L.)
Upper Keg River 1632m (-1008.6m

DOL crm tan to lt brn, f-xln,
mnr m xln, pt p-por, no
show; sl wh-clr dol rhomb
in vugs; tr pel

No samples collected due
to lost circ

DOL lt brn to tan, f xln, mnr
m-c xln, sl icy wh dol, vc
to rhomb, as fills in vugs
prob p-fair vug por, no
show; mnr lst, bf brn to
wh, ctpxln, sl chky, pyr

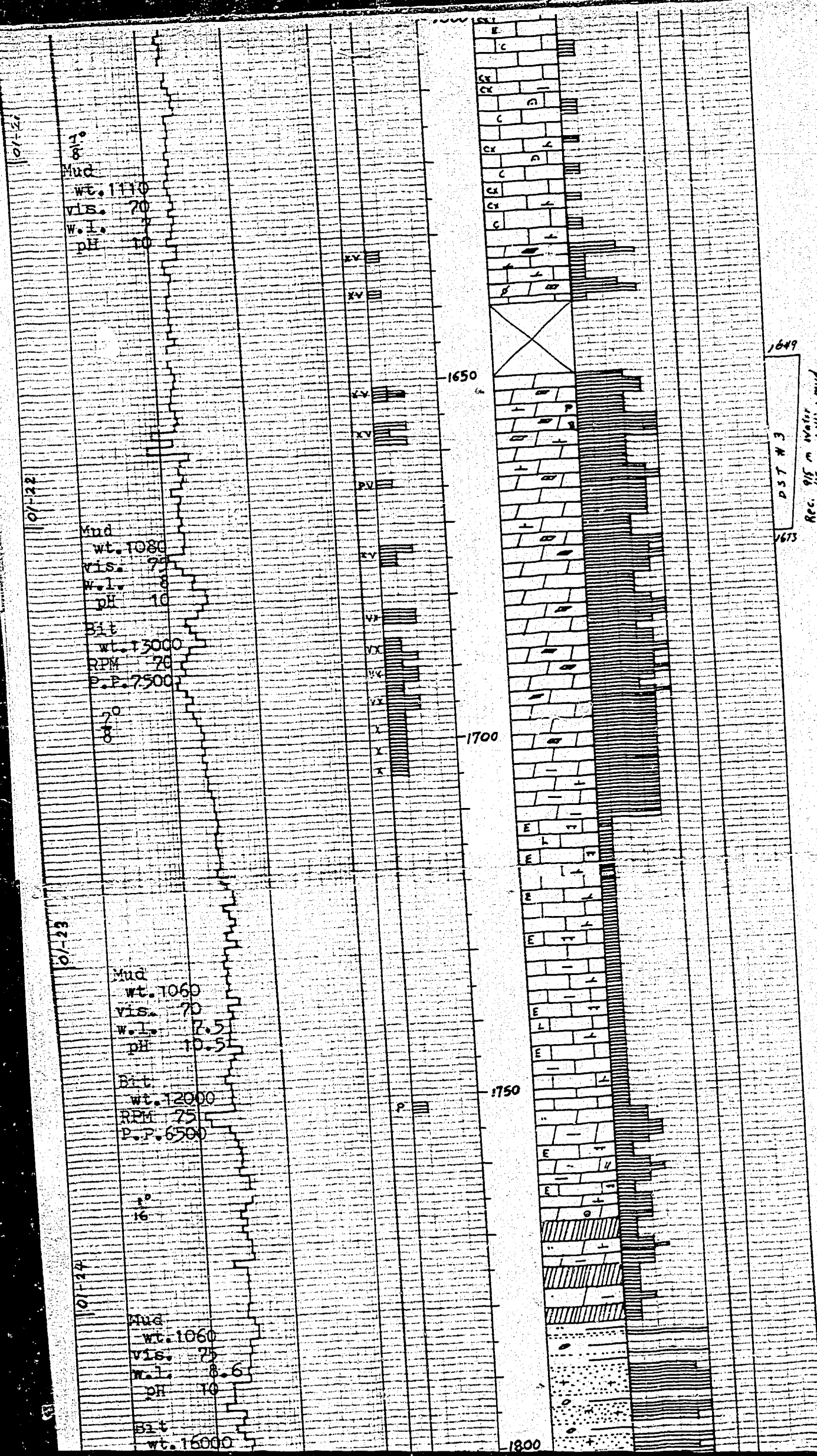
DOL Same as above; w/ incr
wh dol rhomb

1649

1673

Rec. 915 m drilling mud
115 m initial water cushion
20 m initial water cushion

DST #3



LST crm tan, mnr lt brn, cpt-
xln, sl dol, mnr bf wh,
sl chky, tr Alg; sl thin
frac

Upper Keg River 1632m (-1008.6m) S.L.)

DOL. crm tan to lt brn, f xln,
mnr m xln, pt p^{er}, no
show; sl wh-clr del rhomb
in vugs; tr pel

carbon No samples collected due to lost circ

DOL It brn to tan, f xln, mnr
m-c xln, sl icy wh dol, vc
to rhomb, as fills in vugs
prob p-fair vug por, no
show; mnr lst, bf brn to
wh, cptxln, sl chky, pyr

DOL Same as above; w/ incr
wh dol rhomb

DOL m-dk brn, mnr tan, m xln,
mnr c & f xln, p-fair por,
no show; mnr wh dol, vc-
rhomb, prob fair vug por,
no show

Lower Keg River 1712m (-1088.6m S.L.)
light bl brn earthy lith

LSST dirth bf brn, earthy- lith
sl arly, pt dk gy del 1st,
cptxn. mnr micxn. sl sb-
bit in lower pt

LST same as above; sl arly &
arg

Ch. nchaga 1753m (-1129.6m S.L.)

DOL bf brn to tan, mnr m brn,
mic-vf xln, sl f xln, sl
slty & arg; intbd w/ 1st,
bf brn, mnr dk brn gy,
earthy, sl mrly; sl anhy

Anny crm brn to wh, micxln, sl
 dol; intbd w/ dol, as
 above

Granite Wash 1785m (-1161.6m S.T.)
fmg & clr qtz, m gr, rd-

Granite Wash 170 m. - 171 m.
SS fros & clr qtz, m gr, rd-
stnd, sl vc gr; tr mica;
w/ sh, pale grn, mic mica,
sl red brn Fe-oxide; ss
bec arkosic; mnr sh, lt gy
to lt grn, sl clayey & mic
mica, tr ady
ss fros & mnr clr qtz, vc-c

no show, fair vug por.
rhomb, prob fair vug por.
no show

S.L.)
Lower Keg River 1712m (-1088.6m)

LST dirt brn, earthy-lith
sl mrlly, pt dk gy dol lst,
cptxin, mnr micxin, sl sb-
bit in lower pt

LST same as above; sl mrlly &
arg

Chinchaga 1753m (-1129.6m S.L.)

DOL bf brn to tan, mnr m brn,
mic-vf xln, sl f xln, sl
slty & arg; intbd w/ lst,
bf brn, mnr dk brn gy,
earthy, sl mrlly; sl anhy

Anhy crm brn to wh, micxin, sl
dol; intbd w/ dol, as
above

Granite Wash 1785m (-1161.6m S.L.)

SS fros & clr qtz, m gr, rd-
sbrd, sl vc gr; tr mica;
w/ sh, pale grn, micmica,
sl red brn Fe-oxide; ss
bcm arkosic; mnr sh, lt gy
to lt grn, sl clayey & mic-
mica, tr ady

SS fros & mnr clr qtz, vc-c
gr, mnr m gr, sbrd, sl pink
feld; mnr sh & Fe-oxide,
deep red to orange limon
& hemat; qtz-arkosic ss
bcm weath towards base

Precambrian 1816m (-1192.6m S.L.)

Gran pink feld, golden bk biot,
dk grn to bk amph, sbeuhed
qtz, mnr earthy grn chlor,
sl leucoxene

Final T.D. 1832m (driller)
1833m (Schlumberger)

LST lt brn, strom, mnr thin frac
w/ sl o stn; sl styl

LST brn-amber, strom, scat thin
frac w/ fair seeping o &
lt o stn

LST dk brn, strom, massive, few
thin frac w/ sl o stn; lst
showed lt cut in general

LST m-dk brn, massive, pt strom
nod, sl arg & chty, mnr styl
mnr thin frac; lst showed
lt cut in general

LST m brn, massive, pt strom,
mnr styl; scat thin frac w/
lt o stn

LST m brn, massive, bulb strom,
mnr styl

LST m-dk brn, strom, fair-hvy
bleeding o from thin frac;
mnr lt o stn in places

LST m-dk brn, strom & biocl,

Mud
wt. 1060
vis. 70
w.l. 7.5
pH 10.5

Bit
wt. 12000
RPM 75
P.P. 6500

Mud
wt. 1060
vis. 75
w.l. 8.6
pH 10

Bit
wt. 16000
RPM 75
P.P. 6500

P2 222mm
1550-1832m
108 hrs

Mud wt. 1150
vis. 50
w.l. 9
pH 10

Bit wt. 12000
R.P.M. 85
Pump P. 5800

Bit wt. 12000
R.P.M. 85
Pump P. 5800

41-10
C201 22 1/2 5mm
1514.0-1532.0 m
34.75 hrs, good

Mud wt. 1140
vis. 58
w.l. 9
pH 10

Bit wt. 12000
R.P.M. 90
Pump P. 5800

81-10
Mud wt. 1126
vis. 53
w.l. 7.5
pH 11

61-10
C201 22 1/2 5mm
1532.0-1550.0 m
32.75 hrs, good

1518

1520

1522

1524

1526

1528

1530

1532

1534

1536

1538

1540

1542

1544

1546

1548

1550

thin frac w/ sl o stn; lst
showed lt cut in general

LST m-dk brn, massive, pt strom
nod, sl arg & chty, mnr styl
mnr thin frac; lst showed
lt cut in general

LST m brn, massive, pt strom,
mnr styl; scat thin frac w/
lt o stn

LST m brn, massive, bulb strom,
mnr styl

LST m-dk brn, strom, fair-hvy
bleeding o from thin frac;
mnr lt o stn in places

LST m-dk brn, strom & bleel,
fair-hvy bleeding o from
thin frac & p por

LST dk brn, massive, mnr strom,
sl arg lime mud; mnr styl

LST m brn, strom, fair-hvy blee-
ding o from thin frac & p
por

LST dk brn, massive, mnr strom,
tr corals, mnr vert & irreg
thin frac, sl bit along
frac; lst showed lt cut; sl
styl; tr brach

LST dk brn, massive, strom in
pt, sl thin frac; lst
showed lt cut

LST dk brn, massive, thin irreg
frac, sl strom, lt o stn &
bit along frac

LST dk brn, massive, sl styl,
thin frac; sl strom & coral

LST dk-m brn, massive, sl styl,
pt thin bd, wavy bnd, sl
strom, thin irreg frac; lst
showed v lt to lt cut

Lost Core

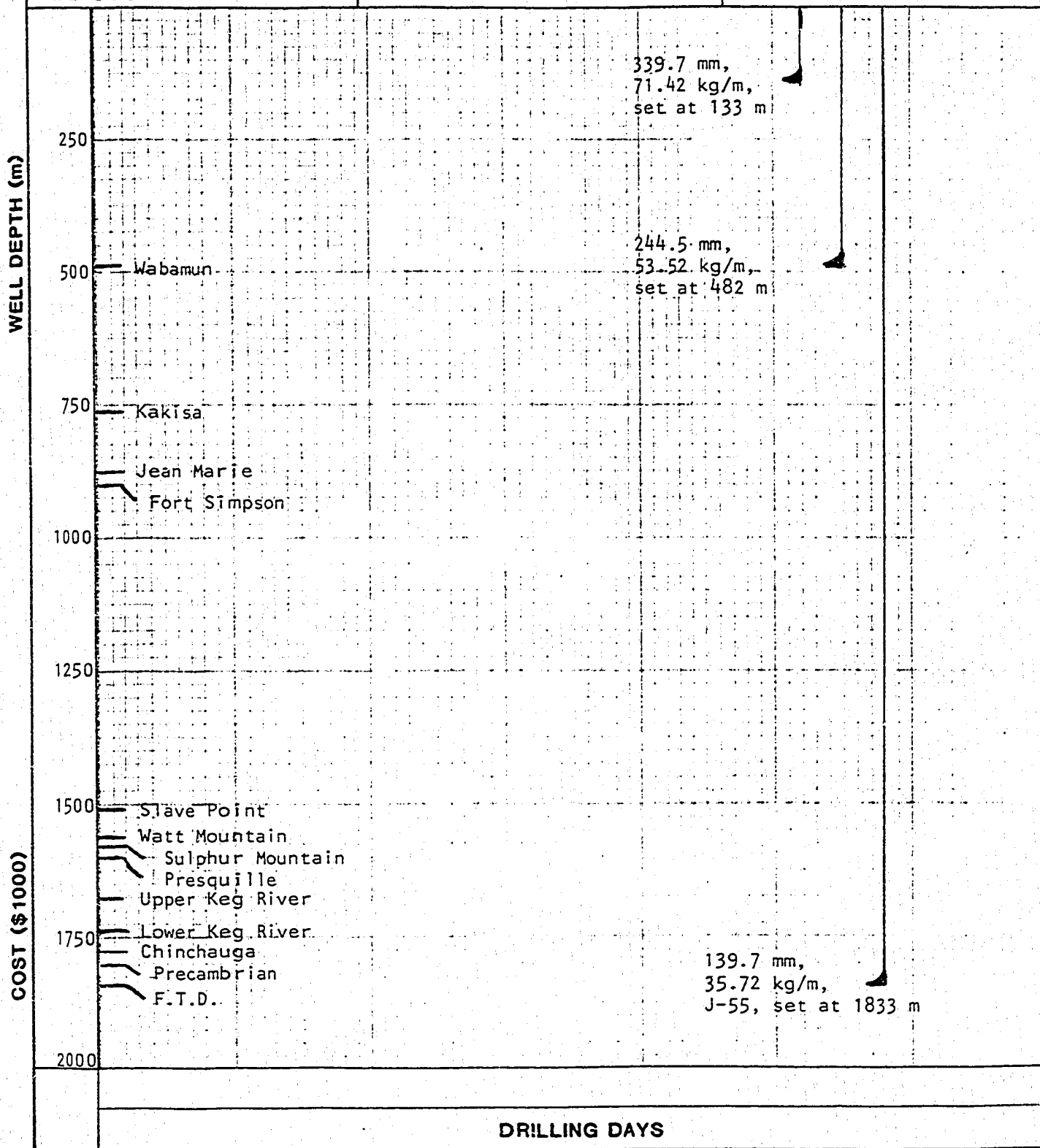
WELL NAME: Home Silt Lake A-64

CONTRACTOR: Hi-Tower Rig # 17

AFE COST:

AFE #:

LOC:





Well!

Home Silt Lake A-64

Rig

Hi-Tower Rig # 17

Pumps

D300 140 x 356

[illegible]

CONCORD DRILLING FLUIDS LTD.

Home Silt Lake
A-64

MUD PRODUCTS USED

Weight & Clays

Avongel	1116 sacks	14,508.00
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Lost Circulation

Sawdust	355 sacks	\$ 2,733.50
Kwik Seal	35 sacks	3,187.50
Walnut Shells	12 sacks	396.00

Chemicals

Bicarbonate of Soda	3 sacks	208.50
Caustic	61 sacks	3,202.50
SAPP	3 sacks	435.00
Soda Ash	30 sacks	1,089.00
Peltex	19 sacks	931.00
Lignite	41 sacks	994.35
Polysec	76 sacks	1,592.20

Pallets		126.00
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TOTAL MUD:	<u>\$29,403.45</u>
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C H E M I C A L & G E O L O G I C A L L A B O R A T O R I E S L T D .

COMPANY: HOME OIL COMPANY LIMITED

WELL: Home Silt Lake

LOCATION: A-64 (NWT)

FIELD: Silt Lake

PROVINCE: Northwest Territories

FORMATION: Slave Point

CORING EQUIPMENT: Diamond

CORING DIAMETER: .102 M

CORING FLUID: Chemical Gel

ELEVATION: K.B.: 623.40 M
Grd.: 619.00 M

PAGE: 1

LAB NO: C84-2545

DATE: 1984-02-08

ANALYSTS: Rob Paul

Core transported in

() Rubber sleeve

() Plastic sleeve

(X) Boxes

() Core artificially kept frozen in transit

() Core placed in deep freeze

(at -28C) at the laboratory

() Core slabbed prior to analysis

() Permeability measured on 0.020 M cubes

() Permeability measured on M drilled plugs

() Permeability measured on a sample jacketed
in an aluminum sleeve

(X) Permeability measured on .102 M full diameter

Type of solvent used for extraction: Toluene

Extraction time: 240 Hours

Drying temperature and time: 120°C For 12 Hours

REMARKS: Samples sandblasted before KH measurements.

METHOD OF ANALYSIS:

POROSITY: Boyle's Law Helium Porosimeter

PERMEABILITY: Hassler Holder

FLUID SATURATION: Ruska Fluid Content Still

The 'OB' samples were confined in aluminum sleeves
and subjected to kPa overburden pressure
during porosity and permeability determinations.

C H E M I C A L & G E O L O G I C A L L A B O R A T O R I E S L T D .

COMPANY: HOME OIL COMPANY LIMITED
 WELL: Home Silt Lake
 LOCATION: A-64 (NWT)
 FIELD: Silt Lake
 PROVINCE: Northwest Territories

FORMATION: Slave Point
 CORING FLUID: Chemical Gel
 CORING EQUIPMENT: Diamond
 ELEVATION: K.B.: 623.40 M
 Grd.: 619.00 M
 REMARKS: Full Diameter Analysis

PAGE: 1A
 LAB NO: C84-2545
 DATE: 1984-02-08
 ANALYST: Rob Paul

S U M M A R Y

SUMMARY INTERVAL: 1514.00 - 1550.00 M
 TOTAL THICKNESS: 36.00 M
 THICKNESS ANALYZED: 4.10 M
 THICKNESS NOT ANALYZED: RUBBLE 0.00 DENSE 29.50 LOST 2.40 DRILLED 0.00 NOT ANALYZED 0.00 31.90 M

PERMEABILITY RANGE	THICKNESS M	WEIGHTED AVERAGE PERMEABILITY MD	PERMEABILITY THICKNESS MD.M	WEIGHTED AVERAGE POROSITY	POROSITY THICKNESS M	WEIGHTED AVERAGE RESIDUAL PORE SAT. OIL	WATER
TOTAL ANALYZED	4.10	0.302	1.240	0.039	0.160	0.147	0.027
10.00 MD AND GREATER	0.00	0.000	0.000	0.000	0.000	0.000	0.000
1.00 MD TO 9.99 MD	0.00	0.000	0.000	0.000	0.000	0.000	0.000
0.50 MD TO 0.99 MD	1.10	0.745	0.819	0.053	0.058	0.205	0.075
0.01 MD TO 0.49 MD	3.00	0.140	0.421	0.034	0.102	0.126	0.009
LESS THAN 0.01 MD	0.00	0.000	0.000	0.000	0.000	0.000	0.000

PORO. &

MD

C H E M I C A L & G E O L O G I C A L L A B O R A T O R I E S L T D .

COMPANY: HOME OIL COMPANY LIMITED

PAGE: 2

WELL: HOME SILT LAKE A-64 (NWT)

LAB NO: CB4-2545

SMPL NO	INTERVAL REPRESENTED			PERMEABILITY TO AIR			PERM THICK MD.M	PORO. THICK M	PORO. THICK M	DENSITY		RESIDUAL		VISUAL EXAMINATION
	TOP M	BASE M	THICK M	KMAX MD	K90' MD	KV MD				BULK KG/M3	GRAIN KG/M3	PORE OIL	SAT. WATER	

CORED INTERVAL				1514.00 - 1550.00 M										
CORE #1				1514.00 - 1532.00 M				RECEIVED IN LAB				18.00 M		
DE	1514.00	1514.55	0.55											CALC,SH,LS
1	1514.55	1515.30	0.75	0.02	0.02	0.01	0.015	0.022	0.017	2660	2720	0.000	0.000	FSS,CALC
2	1515.30	1515.75	0.45	0.01	0.01	<0.01	0.004	0.004	0.002	2710	2720	0.000	0.000	FSS,CALC
DE	1515.75	1526.30	10.55											CALC,SH,LS
3	1526.30	1526.45	0.15	0.03	0.03	<0.01	0.004	0.050	0.007	2580	2720	0.058	0.044	FSS,CALC
4	1526.45	1526.60	0.15	0.05	0.05	<0.01	0.007	0.051	0.008	2570	2710	0.057	0.000	FSS,CALC
5	1526.60	1526.90	0.30	0.36	0.02	<0.01	0.108	0.022	0.007	2630	2690	0.394	0.000	FSS,CALC,HF
DE	1526.90	1527.70	0.80											CALC,SH,LS
6	1527.70	1527.90	0.20	0.03	0.03	<0.01	0.006	0.020	0.004	2620	2680	0.578	0.000	FSS,CALC
7	1527.90	1528.05	0.15	0.16	0.13	<0.01	0.024	0.061	0.009	2520	2680	0.142	0.036	FSS,CALC
8	1528.05	1528.25	0.20	0.65	0.59	0.16	0.130	0.059	0.012	2510	2670	0.245	0.113	FSS,CALC
9	1528.25	1528.45	0.20	0.82	0.61	0.12	0.164	0.072	0.014	2490	2680	0.160	0.093	FSS,CALC,HF
10	1528.45	1528.70	0.25	0.64	0.64	0.04	0.160	0.075	0.019	2480	2680	0.193	0.030	FSS,CALC,HF
11	1528.70	1528.90	0.20	0.81	0.81	<0.01	0.162	0.034	0.007	2610	2700	0.340	0.065	FSS,CALC,HF
12	1528.90	1529.10	0.20	*	0.33	*	0.066	0.054	0.011	2540	2680	0.053	0.041	FSS,CALC,OVF
13	1529.10	1529.35	0.25	0.81	0.02	0.38	0.203	0.026	0.006	2610	2680	0.111	0.085	FSS,CALC,UF

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COMPANY: HOME OIL COMPANY LIMITED

PAGE: 3

WELL: HOME SILT LAKE A-64 (NWT)

LAB NO: C84-2545

SMPL NO	INTERVAL REPRESENTED			PERMEABILITY TO AIR			PERM THICK MD.M	PORO. THICK M	PORO. THICK M	DENSITY		RESIDUAL PORE SAT. OIL	VISUAL EXAMINATION
	TOP M	BASE M	THICK M	KMAX MD	K90 MD	KV MD				BULK KG/M3	GRAIN KG/M3		
DE	1529.35	1531.35	2.00										
14	1531.35	1531.55	0.20	0.33	0.06	0.01	0.066	0.045	0.009	2590	2710	0.193 0.000	CALC,SH,LS
15	1531.55	1531.75	0.20	0.44	0.44	*	0.088	0.059	0.012	2560	2710	0.095 0.038	FSS,CALC
16	1531.75	1532.00	0.25	*	0.13	*	0.033	0.063	0.016	2550	2720	0.138 0.000	FSS,CALC,OVF
CORE #2				1532.00	-	1550.00	RECEIVED IN LAB						
DE	532.00	1547.60	15.60										
LO	1547.60	1550.00	2.40										

15.60 M

CALC,SH,LS

LOST

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LAB REPORT NO: C84-2545

Home Silt Lake A-64 (NWT)

Core #1 1514.00 - 1532.00 M Slave Point (18.00 M) Red.: 18.00 M

1514.00-1524.30 M (10.30 M): Limestone, medium to dark grey, locally grey/brown, predominantly very fine to finely crystalline, commonly crypto crystalline, slight to moderately argillaceous with rare silt to very fine quartz inclusions, dense and tight. Common medium grey limestone and clasts, rare dolomite, locally in excess of width of core (10 cm.) Common argillaceous and carbonaceous round to subround and micro laminations, locally grading to well developed stylolites. Bedding is generally poorly defined, but essentially horizontal, but micro laminations are locally draped over the larger clasts. Sporadic brachiopods, minor algal structures up to 5 cm diameter, local horizons of amphipore-no interval structure, possibly pissolitic. Minor dark brown chert horizon at 1521.7 M, 6 cm thick, slightly calcareous and vitreous to micro crystalline. Chert probably large elongate nodule, marked at top and bottom by moderately well developed stylolites.

1524.30-1529.20 M (4.90 M): Limestone, grey/brown and dark brown, very fine to finely crystalline, clean to slightly argillaceous with poor and locally fair intercrystalline poor porosity. Upper 1.5 M of interval shows abundant stylolites and common clasts up to 4 cm in long axis. Sporadic horizons of poorly preserved shell fragments. Common argillaceous/carbonaceous micro laminations, essentially horizontal, commonly discontinuous, local wavy bedding.

1529.20-1532.00 M (2.80 M): Limestone, dark brown, predominantly very finely crystalline, commonly crypto and finely crystalline, slight to moderately argillaceous with poor and locally fair pin point and intercrystalline porosity to base. Sporadic poorly developed stylolites, becoming common to base. Scattered limestone clasts up to 5 cm in long axis.

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4605-12 STREET N.E. CALGARY ALBERTA T2E 4R3



TELEPHONE
(403) 277-0723

LAB REPORT NO: C34-2545

Home Silt Lake A-64 (NWT)

Core #2 1532.00 - 1550.00 M Slave Point (18.00 M) Rec.: 15.60 M

1532.00-1535.00 M (3.00 M): Limestone, medium to dark brown, predominantly crypto and commonly micro to very finely crystalline, slight to moderately argillaceous and light to scattered fair intra fossil and vuggy porosity. Rare vugs, filled with anhydritic dolomite and calcite, with minor porosity. Local horizons of scattered shells, solitary corals and rare stromatopora filled and replaced by limestone, rare fair porosity. Scattered well developed stylolites. Top of interval marked by slickensided stylolite. Common subangular to subrounded limestone clasts, locally up to 5 cm diameter and locally highly abundant with a poorly developed bedded appearance. Local abundant fractures, vertical and horizontal, both lined and healed with calcite.

1535.00-1539.50 M (4.50 M): Limestone, dark brown, crypto to finely crystalline, dolomitic, slight to moderately argillaceous and tight to very poor inter-crystalline porosity. Scattered poorly preserved shell fragments. Common argillaceous/carbonaceous micro laminations throughout, essentially horizontal. Common amphipora horizons, with associated scattered limestone clasts commonly showing concentric banding ? algal in origin.

1539.50-1540.10 M (0.60 M): Limestone, brown, crypto to finely crystalline, dolomitic, dense and tight. Strongly turbated with common pissolites and clasts up to 7 cm diameter, generally dark brown limestone, crypto to very finely crystalline, dolomitic and tight. Common poor to well developed stylolites. Minor amphipora.

1540.10-1547.60 M (7.50 M): Limestone, dark brown, predominantly crypto crystalline, slight to moderately argillaceous, slightly dolomite and generally tight. Upper 1 M has minor calcite filled vug system and random calcite healed and lined micro fractures (? solution fractures of vug system), very fine to medium crystalline with minor intercrystalline and fracture porosity. Trace poorly preserved shell fragments. Scattered calcite filled pin point porosity. Sporadic poorly defined limestone clasts, up to 1 cm diameter. Lower section has abundant essentially horizontal argillaceous/carbonaceous micro laminations locally grading to poorly developed stylolites.

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COMPANY: HOME OIL COMPANY LIMITED

PAGE: 6

WELL: Home Silt Lake
A-64

LAB NO: C84-2545

RADIOACTIVITY LOG

VERTICAL SCALE 1 : 240

T.C. 15 SEC.

SENS. 6000 CPM

1514.00

1547.60



CHEMICAL & GEOLOGICAL LABORATORIES LTD.

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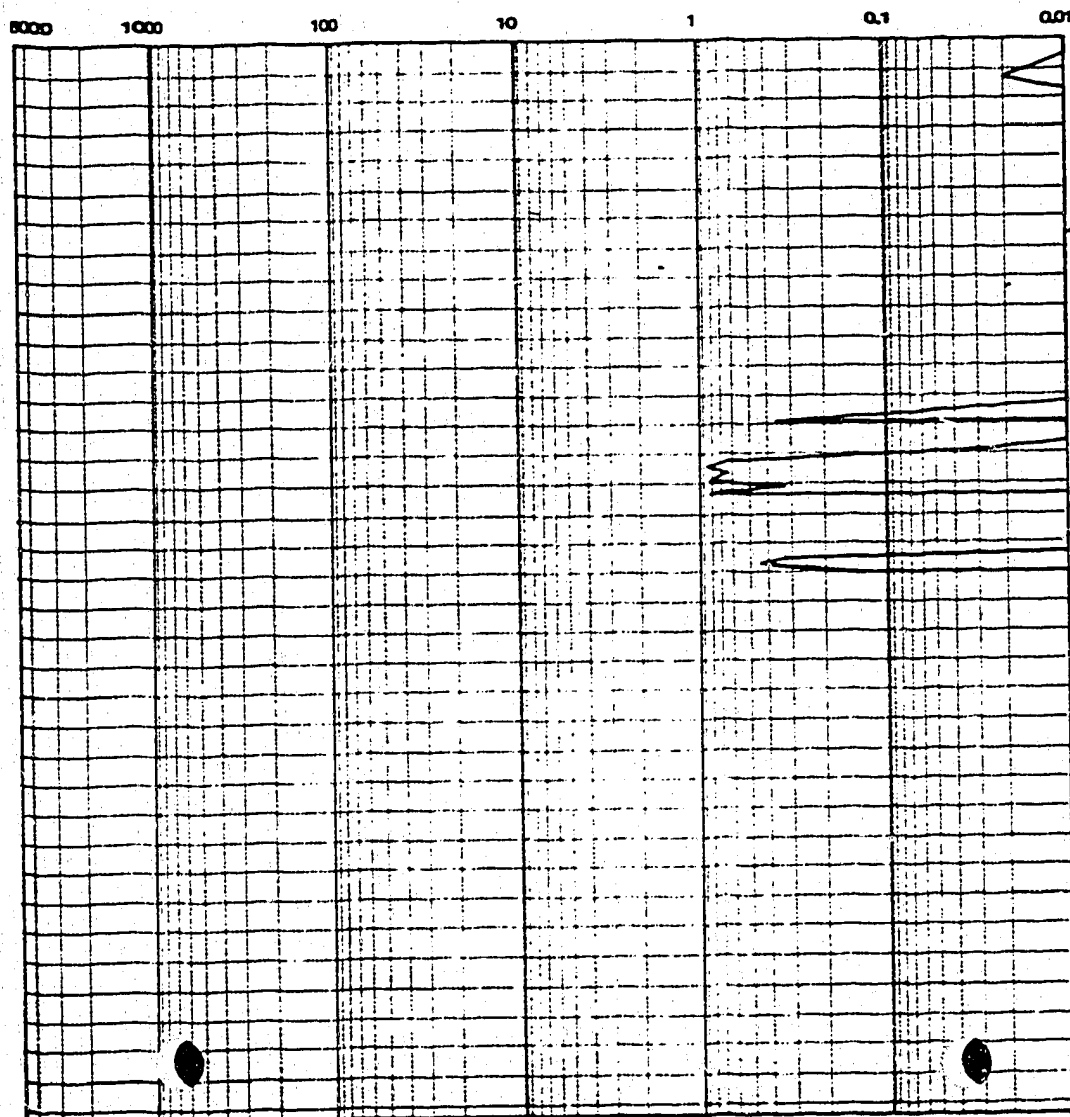
WELL NAME Home Silt Lake A-64 (NWT)

LAB. NUMBER C84-2545

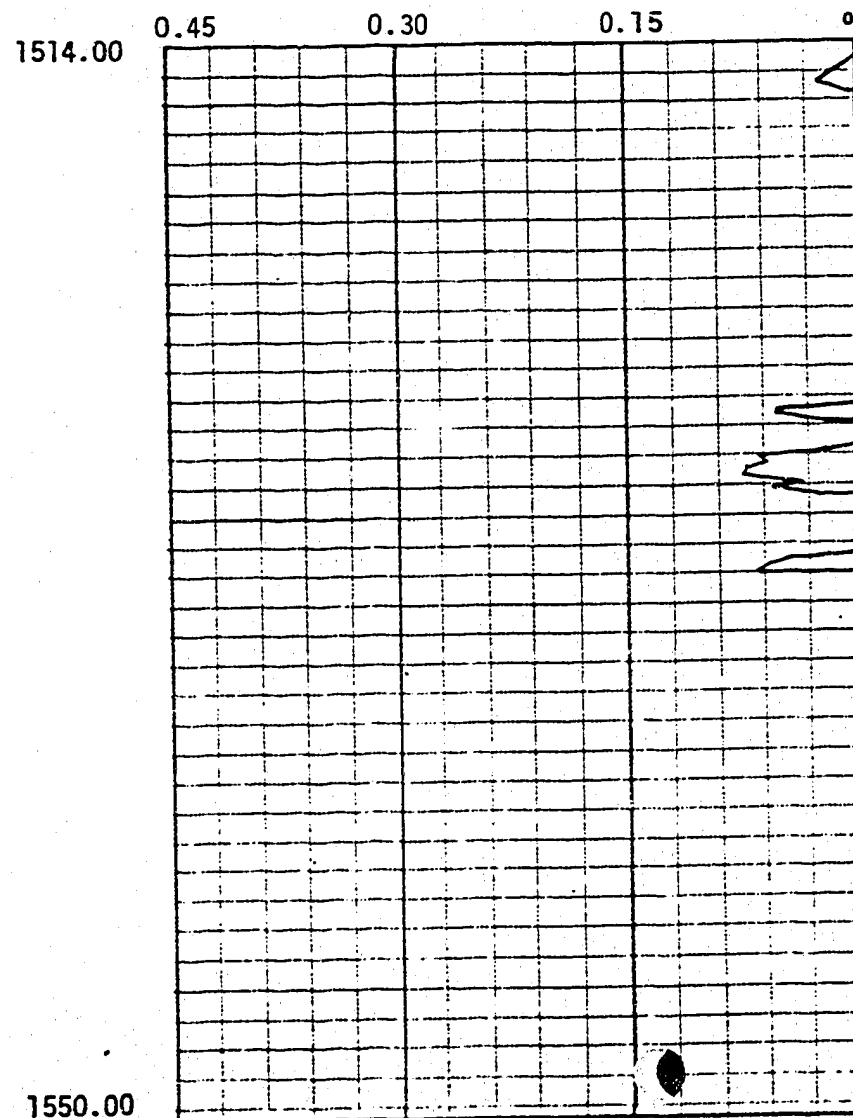
FORMATION Slave Point

CORED INTERVAL 1514.00 to 1550.00

PERMEABILITY



POROSITY



CHEMICAL & GEOLOGICAL LABORATORIES LIMITED

CORE DESCRIPTION SYMBOLS

A	Anhydrite	I	Intergranular	SH	Shale
AMPH	Amphipora	INB	Interbedded	SHL	Shale Lenses
ANG	Angular			SHY	Shaly
ARGIL	Argillaceous	KA	Kaolinite	SIL	Siltstone
AREN	Arenaceous			SL/	Slightly
		LAM	Laminations	SL	Sand Lenses
BD	Bands	LS	Limestone	SP	Small Plug
BLSH	Black Shale	LV	Large Vugs	ST	Stylolite
BN	Bentonite			STK	Streaks
BR	Brecciated	M	Medium	SUBRND	Subrounded
BT	Buttoned	MSS	Medium Sandstone	SUBANG	Subangular
		MUDST	Mudstone	SV	Slightly Vuggy
				STROM	Stromatoporoid
C	Coarse				
CA	Calcite	NR	Not reactive to cold 15% HCl	TR	Trace
CARB	Carbonaceous	NA	Not analyzed by customers request		
CG	Conglomerate			U	Unconsolidated
CH	Chert	O	Open		
CM	Cement	OB	Overburden	V	Vuggy
CO	Coralline Fragments	OCC	Occasional	VC	Vertical Crack
CSS	Coarse Sandstone	OOL	Oolitic	VF	Vertical Fracture
CALC	Calcareous			V.F.	Very Fine
		PPV	Pin Point Vugs	VFSS	Very Fine Sandstone
DE	Dense	PTSL	Paper-thin Shale Laminations		
DOL	Dolomite	PY	Pyrites	XL	Crystals
DF	Diagonal Fracture	PYB	Pyrobitumen	XLN	Crystalline
F	Fine	R1	Slightly reactive to cold 15% HCl	*	Broken Core (K90° used summary purpose)
FE	Ironstone	R2	Reactive to cold 15% HCl	**	Permeability > 30,000 m
FG	Fragmental	RC	Random Cracks		
FOSS	Fossiliferous	RF	Random Fractures	-.01	Permeability < .01
FSL	Fine Sand Lenses	RND	Rounded		
FSS	Fine Sandstone	RU	Rubble		
FD	Full Diameter				
		S	Stained		
GL	Glauconitic	SD	Sand		
		SDY	Sandy		
HC	Horizontal Crack				
HF	Horizontal Fracture				

KH and K90° are transverse permeability measurements on full diameter samples.



CHEMICAL & GEOLOGICAL LABORATORIES LTD.

EDMONTON FORT ST. JOHN CALGARY

9211-H5-1-1



CONTAINER IDENTITY
WATER ANALYSIS
LABORATORY NUMBER
E84-1136
LICENCE NUMBER
HOME OIL COMPANY LIMITED
OPERATOR NAME
LOCATION
A64-60-03-118-56
WELL NAME
HOME SILT A-64 H-64
ELEVATIONS
AS SHOWN GRD
623.4
FIELD OR AREA
SILT LAKE
POOL OR ZONE
SLAVE POINT
NAME OF SAMPLER
R. MCINTOSH
COMPANY
Halliburton Services Limited
TEST TYPE
DST
NO.
5
TEST RECOVERY
20 m. muddy Inhibitor & water.
MULTIPLE RECOVERY
Y N
X
SAMPLING POINT
TOP OF TOOL
AMT. & TYPE OF CUSHION
MUD RESISTIVITY
@ 27°C
TYPE OF PRODUCTION
PUMPING FLOWING GAS LIFT SWAB
PRODUCTION RATES
WATER m^3/d OIL m^3/d GAS $10^3 m^3/d$
SEPARATOR TREATER RESERVOIR SOURCE
GAUGE PRESSURE $10^5 Pa$
SEPARATOR TREATER RESERVOIR SOURCE
TEMPERATURE $^{\circ}C$
DATE SAMPLED (Y-M-D) 84/01/30
DATE RECEIVED (Y-M-D) 84/02/03
DATE REPORTED (Y-M-D) 84/02/16
ANALYST S.T.
OTHER INFORMATION

ION	$\frac{m \cdot V^{-1}}{g \cdot m^{-3}}$	Mass Fraction	$\frac{c}{mol \cdot m^{-3}}$	ION	$\frac{m \cdot V^{-1}}{g \cdot m^{-3}}$	Mass Fraction	$\frac{c}{mol \cdot m^{-3}}$
Na	2 840	0.3395	123.54	Cl	1 690	0.2020	47.66
K	46	0.0055	1.18	Br			
Ca	56	0.0067	1.40	I			
Mg	5	0.0006	0.21	HCO ₃	683	0.0816	11.20
Ba				SO ₄	3 045	0.3641	31.67
Sr				CO ₃	0	0.0000	0.00
Fe	TRACE			OH	0	0.0000	0.00
				H ₂ S	NIL		

TOTAL SOLIDS $\frac{m \cdot V^{-1}}{g \cdot m^{-3}}$
EVAPORATED @ 110°C
8 360
EVAPORATED @ 180°C
AT IGNITION
7 440
CALCULATED
8 365
ORGANICS: MUCH
RELATIVE DENSITY
1.005 @ 27°C
REFRACTIVE INDEX
1.3342 @ 27°C
OBSERVED pH
8.1 • 22.5
RESISTIVITY (Ohm m)
0.923 @ 27°C

REMARKS

The sample consisted of muddy water.

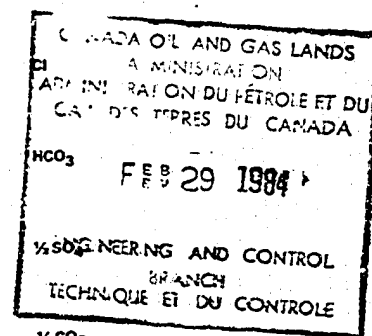
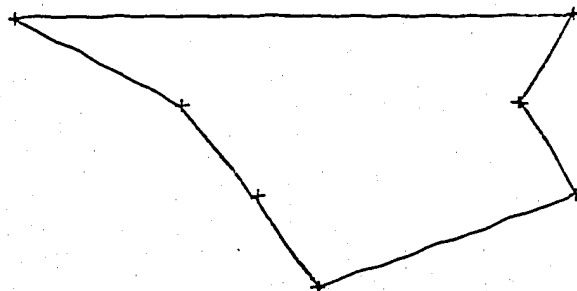
LOGARITHMIC PATTERN $c / mol \cdot m^{-3}$

Na

1/2 Ca

1/2 Mg

1/2 Fe





CHEMICAL & GEOLOGICAL LABORATORIES LTD.

EDMONTON FORT ST. JOHN CALGARY



CONTAINER IDENTITY		WATER ANALYSIS		LABORATORY NUMBER E84-1136	
LICENCE NUMBER		OPERATOR NAME HOME OIL COMPANY LIMITED			
LOCATION A64-60-03-118-56		WELL NAME HOME SILT A-54 H-64		ELEVATION 623.4	
FIELD OR AREA SILT LAKE		POOL OR ZONE SLAVE POINT		NAME OF SAMPLER R. MCINTOSH	
TEST TYPE DST		TEST RECOVERY 20 m. muddy Inhibitor & water.		COMPANY Halliburton Services Limited	
NO. 5		SAMPLING POINT TOP OF TOOL		MUD RESISTIVITY @ 29°C	
MULTIPLE RECOVERY IX		TYPE OF PRODUCTION PUMPING FLOWING GAS LIFT SWAB		PRODUCTION RATES WATER m^3/d OIL m^3/d GAS $10^3 m^3/d$	
Test Interval (metres) 1510 - 1524		GAUGE PRESSURE kPa		TEMPERATURE °C	
Perforations (metres)		SEPARATOR TREATER RESERVOIR SOURCE		OTHER INFORMATION	
DATE SAMPLED (Y-M-D) 84/01/30		DATE RECEIVED (Y-M-D) 84/02/03		DATE REPORTED (Y-M-D) 84/02/16	
		ANALYST S.T.			

ION	$\frac{m \cdot V^{-1}}{g \cdot m^{-3}}$	Mass Fraction	$\frac{c}{mol \cdot m^{-3}}$	ION	$\frac{m \cdot V^{-1}}{g \cdot m^{-3}}$	Mass Fraction	$\frac{c}{mol \cdot m^{-3}}$
Na	2 840	0.3395	123.54	Cl	1 690	0.2020	47.66
K	46	0.0055	1.18	Br			
Ca	56	0.0067	1.40	I			
Mg	5	0.0006	0.21	HCO ₃	683	0.0816	11.20
Ba				SO ₄	3 045	0.3641	31.67
Sr				CO ₃	0	0.0000	0.00
Fe	TRACE			OH	0	0.0000	0.00
				H ₂ S	NIL		

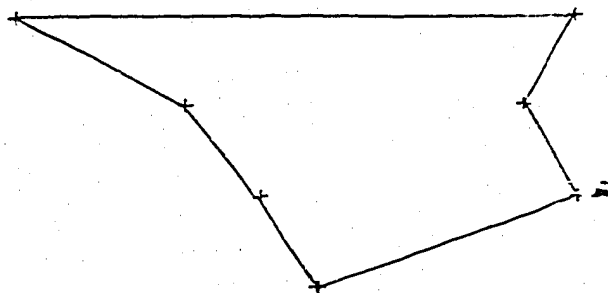
TOTAL SOLIDS $\frac{m \cdot V^{-1}}{g \cdot m^{-3}}$	
EVAPORATED @ 110°C 8 360	EVAPORATED @ 180°C 8 365
AT IGNITION 7 440	CALCULATED 8 365
ORGANICS: MUCH	
RELATIVE DENSITY 1.005 @ 29°C	REFRACTIVE INDEX 1.3342 @ 29°C
OBSERVED pH 8.1 @ 22°C	RESISTIVITY (Ohm-cm) 0.923 @ 29°C

REMARKS

The sample consisted of muddy water.

LOGARITHMIC PATTERN $c/mol \cdot m^{-3}$

Na

 $\frac{1}{2}Ca$ $\frac{1}{2}Mg$ $\frac{1}{2}Fe$ 

CANADA'S METROLOGICAL
ACCREDITED BY THE
GAZ DES PROPRIETES DU CANADA
FEB 29 1984
ENGINEERING AND CONTROL
BRANCH
TECHNIQUE ET DU CONTRÔLE

 $\frac{1}{2}CO_3$

HOME OIL COMPANY LIMITED

LABORATORY REPORT NO: E84-01135

<u>E84-01135-2:</u>	56 m.	
	RESISTIVITY:	0.550 Ohm/meters @ 25°C.
	Muddy water.	
<u>E84-01135-3:</u>	0 m.	
	RESISTIVITY:	0.636 Ohm/meters @ 25°C.
	Muddy water.	

HOME OIL COMPANY LIMITED

LABORATORY REPORT NO: E84-01134

E84-01134-1: 1050 m.
RESISTIVITY: 0.126 Ohm/meter, @ 25°C.
Black muddy water. Hydrogen Sulfide present.

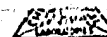
E84-01134-2: 1000 m.
RESISTIVITY: 0.121 Ohm/meters @ 25°C.
Black muddy water. Hydrogen Sulfide present.

E84-01134-3: 650 m.
RESISTIVITY: 0.105 Ohm/meters @ 25°C.
Black suspension. Hydrogen Sulfide present.

E84-01134-4: 325 m.
RESISTIVITY: 0.081 Ohm/meters @ 25°C.
Black suspension. Hydrogen Sulfide present.



EDMONTON FORT ST. JOHN CALGARY



CONTAINER IDENTITY
WATER ANALYSIS
LABORATORY NUMBER
E84-1133-3
OPERATOR NAME
HOME OIL COMPANY LIMITED
LOCATION
A64-60-03-118-56
WELL NAME
HOME SILT A-64 H-114
ELEVATION
623.4
FIELD OR AREA
SILT LAKE
POOL OR ZONE
GRANITE WASH
NAME OF SAMPLER
RON MCINTOSH
COMPANY
Halliburton Services Limited
TEST TYPE
DST
NO
2
TEST RECOVERY
59 m. - 20 m. Inhibitor water.
39 m. mud.

MULTIPLE RECOVERY
X
SAMPLING POINT
0 m.
AMT. & TYPE OF CUSHION
MUD RESISTIVITY
TYPE OF PRODUCTION
PUMPING FLOWING GAS LIFT SWAB
PRODUCTION RATES
WATER m^3/g ON m^3/g GAS $10^3 m^3/g$
SEPARATOR TREATER RESERVOIR SOURCE
GAUGE PRESSURE kPa
SEPARATOR TREATER RESERVOIR SOURCE
TEMPERATURE °C
DATE SAMPLED (Y-M-D)
84/01/28
DATE RECEIVED (Y-M-D)
84/02/03
DATE REPORTED (Y-M-D)
84/02/16
ANALYST
S.T.
OTHER INFORMATION

ION	$\frac{m \cdot V^{-1}}{g \cdot m^{-3}}$	Mass Fraction	$\frac{c}{mol \cdot m^{-3}}$	ION	$\frac{m \cdot V^{-1}}{g \cdot m^{-3}}$	Mass Fraction	$\frac{c}{mol \cdot m^{-3}}$
Na				Cl	595	16.78	
K				Br			
Ca				I			
Mg				HCO ₃			
Ba				SO ₄			
Sr				CO ₃			
Fe	PRESENT			OH			
				H ₂ S	NIL		

TOTAL SOLIDS $\frac{m \cdot V^{-1}}{g \cdot m^{-3}}$
EVAPORATED @ 110°C
11 730
AT IGNITION
9 970
ORGANICS: MUCH
RELATIVE DENSITY @ 20°C
1.3357 @ 20°C
OBSERVED pH
8.6 @ 22°C
RESISTIVITY (1000 m)
0.350 @ 20°C

LOGARITHMIC PATTERN $c / mol \cdot m^{-3}$

|||||

Na

 $\frac{1}{2}Ca$ $\frac{1}{2}Mg$ $\frac{1}{2}Fe$

REMARKS
The analysis was determined on water extracted from watery mud and is characteristic of a mud filtrate water.

Continued..

FEB 29 1984

ENGINEERING AND CONTROL
 $\frac{1}{2}CO_2$ BRANCH
TECHNIQUE ET DU CONTRÔLE

HOME OIL COMPANY LIMITED

LABORATORY REPORT NO: E84-01133

E84-01133-1:

54 m.

RESISTIVITY: 0.974 Ohm/meters @ 25°C.

Muddy water, Inhibitor odour.

E84-01133-2:

27 m.

RESISTIVITY: 0.806 Ohm/meters @ 25°C.

Muddy water.



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WATER ANALYSIS

CONTAINER IDENTITY
LABORATORY NUMBER
EB4-622-3

LICENCE NUMBER
OPERATOR NAME
HOME OIL COMPANY LIMITED

LOCATION
WELL NAME
HOME SILT A-64 H-64

FIELD OR AREA
POOL OR ZONE
SLAVE POINT

TEST TYPE
NO.
30 m MUD

MULTIPLE RECOVERY
Y/N
X

ELEVATIONS
E.S. (metres) GRD.
623.4

NAME OF SAMPLER
COMPANY
HALLIBURTON SERVICES

SAMPLING POINT
TOP OF TOOL

AMT. & TYPE OF CUSHION
MUD RESISTIVITY
@ 27°C

Test Interval (metres)
1505 - 1550

Perforations (metres)

TYPE OF PRODUCTION
PUMPING FLOWING GAS LIFT SWAB

PRODUCTION RATES
WATER m^3/d OIL m^3/d GAS $10^3 m^3/d$

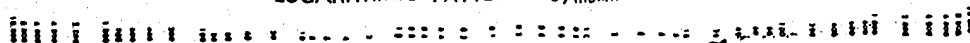
SEPARATOR TREATER RESERVOIR SOURCE
GAUGE PRESSURE LPS

SEPARATOR TREATER RESERVOIR SOURCE
TEMPERATURE °C

DATE SAMPLED (Y-M-D) 84/01/20 DATE RECEIVED (Y-M-D) 84/01/25 DATE REPORTED (Y-M-D) 84/02/02 ANALYST S.T.

OTHER INFORMATION
NO ADDITIONAL INFORMATION PROVIDED

ION	$\frac{m \cdot V^{-1}}{g \cdot m^{-3}}$	Mass Fraction	$\frac{c}{mol \cdot m^{-3}}$	ION	$\frac{m \cdot V^{-1}}{g \cdot m^{-3}}$	Mass Fraction	$\frac{c}{mol \cdot m^{-3}}$
Na				Cl	560		15.79
K				Br			
Ca				I			
Mg				HCO ₃			
Ba				SO ₄			
Sr				CO ₃			
Fe	NIL			OH			
				H ₂ S	NIL		

LOGARITHMIC PATTERN $c/mol \cdot m^{-3}$ 

TOTAL SOLIDS $\frac{m \cdot V^{-1}}{g \cdot m^{-3}}$

EVAPORATED @ 110°C
5 650

EVAPORATED @ 180°C
AT IGNITION
4 000

ORGANICS: MUCH

RELATIVE DENSITY
@ 27°C

REFRACTIVE INDEX
1.3338 @ 27°C

OBSERVED pH
9.0 @ 23°C

RESISTIVITY (cm·m)
1.71 @ 27°C

REMARKS

The analysis was determined on water extracted from watery mud and is characteristic of a mud filtrate water.

Continued.....

CANADA OIL AND GAS LANDS
ADMINISTRATION
ADMINISTRATION DU PÉTROLE ET DU
GAZ DES TERRES DU CANADA

FEB 21 1984

ENGINEERING AND CONTROL
ARCH
TECHNICAL SERVICES

Na

1/2 Ca

1/2 Mg

1/2 Fe

HCO₃1/2 SO₄1/2 CO₃

HOME OIL COMPANY LIMITED

LABORATORY REPORT NUMBER: E84-622

E84-622-1: Sampled from 27 m Above Tool.

RESISTIVITY: 2.21 Ohm metres @25°C

Watery mud.

E84-622-2: Sampled from 18 m Above Tool.

RESISTIVITY: 1.83 Ohm metres @25°C

Watery mud.

E84-622-4: Sampled from Downhole Sampler.

RESISTIVITY: 1.79 Ohm metres @25°C

Halliburton Downhole Sampler #30 received under 0 kPa pressure
and contained 1.0 L of mud only.

FORMATION TESTING

Technical Report

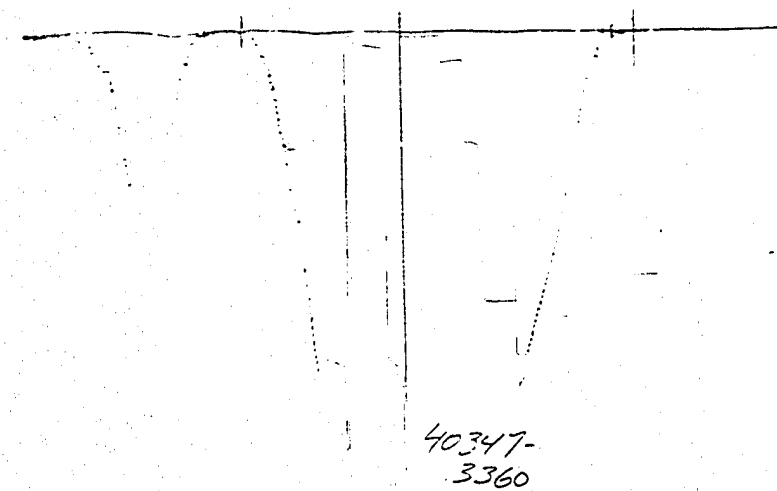
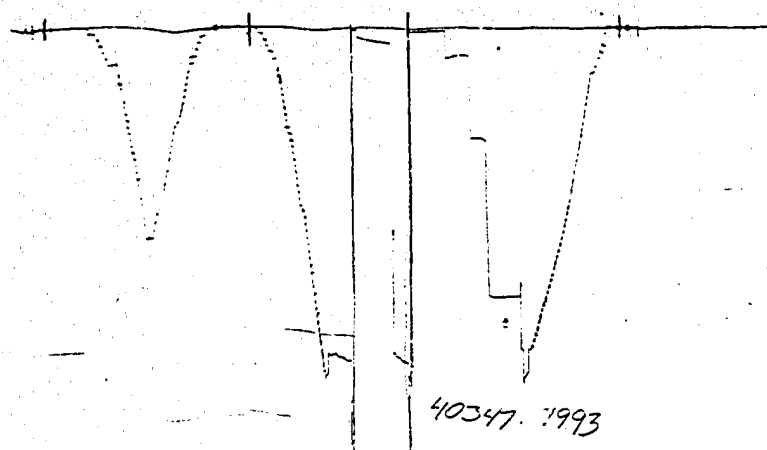
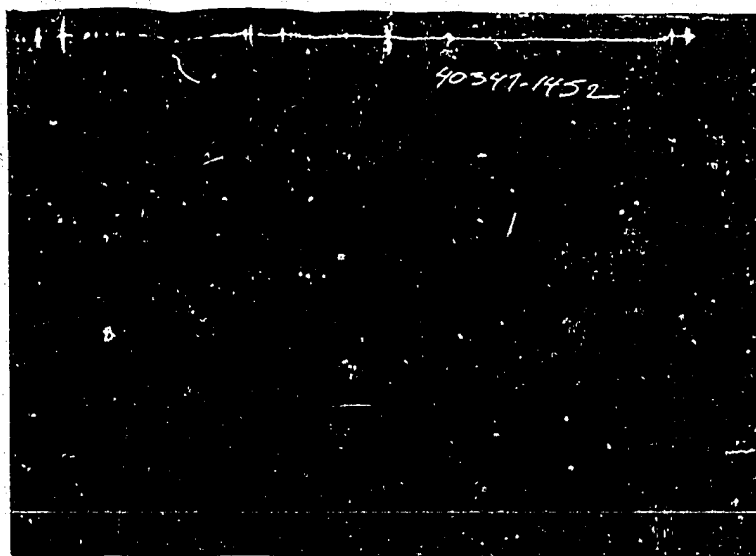


CALGARY, ALBERTA

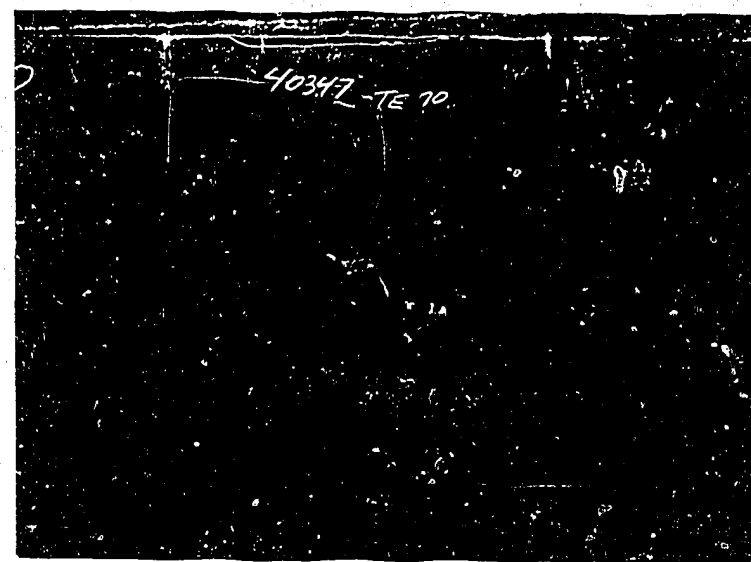
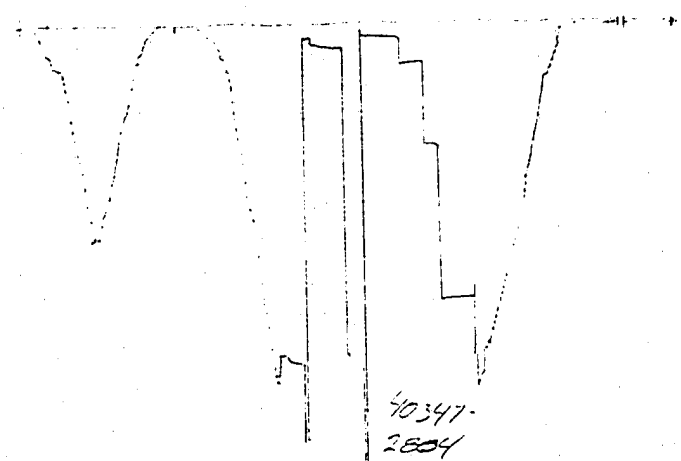
A **Halliburton** Company

COMPANY	HOME OIL COMPANY LIMITED	FIELD OR AREA	SILT LAKE	WELL NAME AND NUMBER	HOME SILT LAKE A-64
LEGAL DESCRIPTION	60-03-14.00 118-56-34.30	PROVINCE OR TERRITORY	N.W.T.	TEST NUMBER	5
				TESTED INTERVAL	1510 - 1524

TIME
PRESSURE



TIME
PRESSURE



TESTERS	R. McIntosh
WITNESS	D. Kamientecki
DRILLING CONTRACTOR	Hi-Tower No. 17



FORMATION TESTING
DATA SHEET

REFER TO INVOICE NO.	40 347
DATE OF TEST	84-01-30
TEST No.	5
JOB TYPE	Hydroflate Straddle

PRESSURE SUMMARY kPa						
GAUGE NUMBER	1452	7993	3360	2804		
GAUGE DEPTH	1489.60	1495.55	1496.80	1524.76		
BLANKED OFF	YES/NO	YES/NO	YES/NO	YES/NO	YES/NO	YES/NO
HOURLY TRAVEL	24	24	24	24		
INITIAL HYDROSTATIC		16 047	16 127	16 545		
FIRST FLOW	INITIAL	44	115	239	683	
	FINAL	61	115	195	629	
FIRST CLOSED IN		70	744	776	1 209	
SECOND FLOW	INITIAL	70	148	176	655	
	FINAL	113	155	180	655	
SECOND CLOSED IN		140	*13 051	*13 100	*13 487	
THIRD FLOW	INITIAL					
	FINAL					
THIRD CLOSED IN						
FINAL HYDROSTATIC		15 688	15 727	16 139		

TIME PERIODS					
	FIRST	SECOND	THIRD		TIME
FLOW	10	60		TESTER VALVE OPENED	16:05
CLOSED IN	60	120		PACKER UNSEATED	20:39

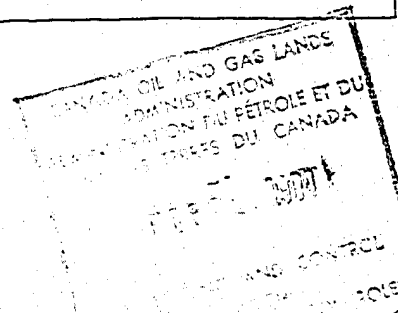
LIQUID RECOVERY DATA		
METRES	DESCRIPTION OF LIQUID	
20	Muddy Inhibitor and water.	
20	TOTAL LIQUID RECOVERY	

EQUIPMENT AND WELL DATA			
FORMATION TESTED	Slave Point	TEMP. REC. No.	TE70
NET PRODUCTIVE THICKNESS	m	DEPTH	1498.05 m
K B ELEVATION	623.4 m	MAX. TEMP.	45 °C
ALL DEPTHS MEASURED FROM:	☒ KB ☐ GROUND	MUD TYPE	Gel Chemical
PACKER DEPTHS	TOP 1510 BOTTOM 1524 m	MUD DENSITY	kg/m ³ 1070
DEPTH OF TESTER VALVE	1490.85 m	MUD VISC	s/L 100
CASING PERFORATED INTERVAL	N/A m	CASING OR HOLE SIZE	222 mm
TOTAL DEPTH	1833 m	RATHOLE SIZE	mm
AMOUNT AND TYPE CUSHION	76 L Water and Inhibitor	DRILL PIPE	OD mm 114.3 kg/m 24.7
		DRILL COLLARS ABOVE TESTER VALVE	ID mm 73 LENGTH m 162.57
		SURFACE CHOKE	25.4 mm
		BOTTOM CHOKE	19.05 mm

SAMPLE DATA		RECOVERY SAMPLES TO C AND G	
OIL GRAVITY	@ °C	SAMPLE SHIPPED TO LABORATORY	YES NO
GAS/OIL RATIO		SAMPLER No.	☐ ☒
REFRACTOMETER/RELATIVE DENSITY		GAS SAMPLE BOTTLE No.	☐ ☒
RECOVERY WATER	@ °C	LABORATORY	
CHLORIDE CONTENT	mg/L		

REMARKS

* Seepage around packer, invalid pressure.



COMPANY	HOME OIL COMPANY LIMITED
LEGAL DESCRIPTION	60-03-14.00 118-56-34.30
PROVINCE OR TERRITORY	N.W.T.
FIELD OR AREA	SILT LAKE
WELL NAME AND NUMBER	HOME SILT LAKE 4-64
TEST NUMBER	5
TESTED INTERVAL	1510 - 1524

TICKET NO.: 40 347
HOME OIL COMPANY LIMITED
Home Silt Lake A-64

DATES AND TIMES
(00:00-24:00 HRS.)

REMARKS

07:30	Reload recorders, change interval, service tool.
08:40	Shut in the hole, weight below hydrospring 2000 daN.
10:40	Realize error in building interval and start out of the hole.
12:30	Tools on surface, change interval.
13:30	Start back in the hole, weight below hydrospring 5000 daN.
15:20	At test interval string weight 45 000 daN, head up.
15:35	Start pumping up packers.
16:05	Tool open weak air blow steady throughout flow.
16:15	Picked up to shut in tool.
17:15	Tool took weight, opened then lost packer seat and mud.
17:17	Repump packers.
17:39	Tool opened very weak air blow decreasing, engineer wants to now have a 1 hour flow and 2 hour shut in. Almost no blow when time to shut in.
18:39	Shut in tool.
20:39	Pulled 5000 daN over to deflate, remove surface equipment.
20:55	Start out of the hole.
23:00	Tools on surface, break down and service and load out.
1984 01 31	
02:00	Job complete.

		O. D. (mm)	I. D. (mm)	LENGTH (m)	DEPTH (m)	
3		DRILL COLLARS.....	171.0	73.0	134.03	
50		IMPACT REVERSING SUB.....	171.5	76.2	0.31	
3		DRILL COLLARS.....	171.0	73.0	28.54	
5		CROSSOVER.....	171.5	76.2	0.30	
80		AP RUNNING CASE.....	127.0	57.2	1.25	1489.60
60		HYDROSPRING TESTER.....	127.0	19.1	2.54	1490.85
14		EXTENSION JOINT.....	127.0	25.4	2.16	
80		AP RUNNING CASE.....	127.0	57.2	1.25	1495.55
80		AP RUNNING CASE.....	127.0	57.2	1.25	1496.80
82		TEMPERATURE RUNNING CASE.....	127.0	57.2	1.25	
15		JAR.....	127.0	44.5	1.52	
16		VR SAFETY JOINT.....	127.0	25.4	1.06	
26		PUMP ASSEMBLY.....	127.0	22.3	2.15	
27		SCREEN ASSEMBLY.....	127.0	25.4	1.34	
11		HYDROFLATE PRESSURE LIMITER.....	127.0	25.4	1.25	
13		HYDROFLATE SAFETY JOINT.....	127.0	25.4	1.62	
74		TOP HYDROFLATE PACKER.....	177.8	26.9	2.55	1510.00
28		PORT ASSEMBLY.....	127.0		1.03	
22		BLANK ANCHOR.....	127.0	57.2	1.43	
5		CROSSOVER.....	171.5	76.2	0.30	
3		DRILL COLLARS.....	171.0	73.0	9.54	
5		CROSSOVER.....	171.5	76.2	0.30	
75		LOWER HYDROFLATE PACKER.....	177.8	50.8	2.37	1524.00
97		BELLY SP W/ BLANKED OFF RECORDER		57.2	1.55	1524.76

EQUIPMENT DATA



NOMENCLATURE

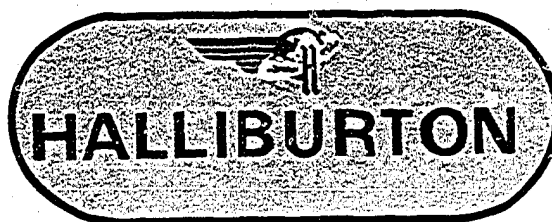
b	=	Formation Volume Factor	1
CD	=	Wellbore Storage Coefficient	1
CT	=	System Compressibility	1/kPa
CUSH	=	Metres or Density of Cushion	m OR kg/m ³
DCFAC	=	Drill Collar Factor	m ² /m
DCID	=	Drill Collar I.D.	mm
DCLEN	=	Drill Collar Length	m
DPFAC	=	Drill Pipe Factor	m ² /m
DPID	=	Drill Pipe I.D.	mm
DR	=	Damage Ratio	1
GOR	=	Gas Oil Ratio	1
GRAD	=	Gradient	kPa/m
h	=	Estimated Net Pay Thickness	m
K	=	Permeability	mD
Kh	=	Permeability * Net Pay	mD.m
Kh/u	=	Transmissibility	mD.m/mPa.s
M(P*)	=	Real Gas Potential of P*	P Pa.Pa/Pa.s
M(Pf)	=	Real Gas Potential of Pf	P Pa.Pa/Pa.s
OF1	=	Indicated Flow Rate (Max)	m ³ /d
OF2	=	Indicated Flow Rate (Min)	m ³ /d
OF3	=	Theoretical Flow Rate (Max)	m ³ /d
OF4	=	Theoretical Flow Rate (Min)	m ³ /d
P*	=	Extrapolated Static Pressure	kPa
PD	=	Pressure Dimensionless	1
Pd	=	Pressure Drop across Damaged Zone (except Gas Horner)	kPa P Pa.Pa/Pa.s
Pf	=	Final Flow Pressure	kPa
PI	=	Productivity Index	kPa
POROS	=	Porosity	%
Pot.	=	Potential Surface	m
Q	=	Liquid Production Rate During Test	m ³ /d
Q1	=	Theoretical Liquid Production Rate with Damage Removed	m ³ /d
S	=	Skin Factor	1
SPGR	=	Gas Gravity	1
SPO	=	Oil Gravity	1
TD	=	Time Dimensionless	1
TEMP	=	Temperature	Celsius
TVDEP	=	Tester Valve Depth	m
VISG	=	Viscosity of Gas	uPa.s
VISO	=	Viscosity of Oil	mPa.s
VISW	=	Viscosity of Water	mPa.s
Z	=	Gas Deviation Factor	1

NOTICE

These calculations are based upon information furnished by you and taken from Drill Stem Test pressure charts, and are furnished you for your information. In furnishing such calculations and evaluations based thereon, Halliburton is merely expressing its opinion. You agree that Halliburton makes no warranty express or implied as to the accuracy of such calculations or opinions, and that Halliburton shall not be liable for any loss or damage, whether due to negligence or otherwise, in connection with such calculations and opinions.

FORMATION TESTING

Technical Report

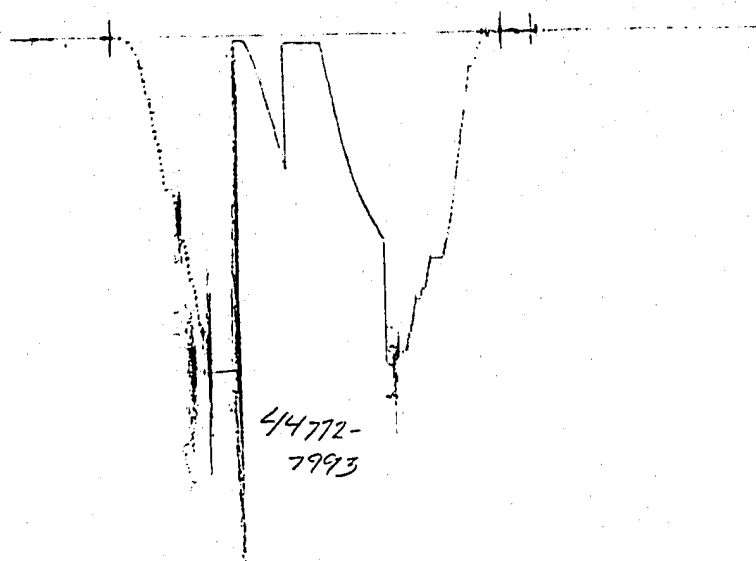


CALGARY, ALBERTA

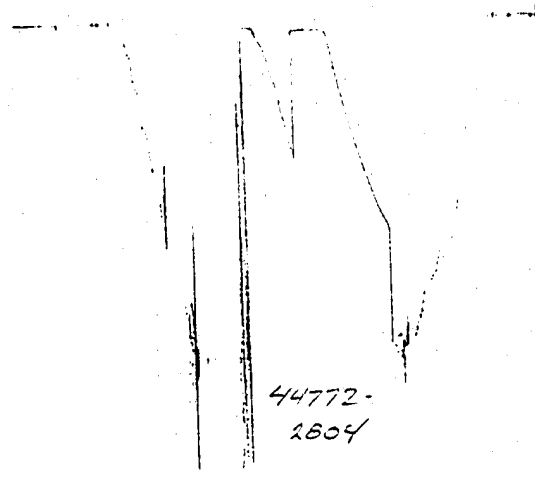
A **Halliburton** Company

COMPANY	HOME OIL COMPANY LIMITED	FIELD OR AREA	SILT LAKE	WELL NAME AND NUMBER	HOME SILT LAKE A-64 H-64
LEGAL DESCRIPTION	60-03-14.00 118-56-34.30	PROVINCE OR TERRITORY	N.W.T.	TEST NUMBER	1
				TESTED INTERVAL	1505 - 1550

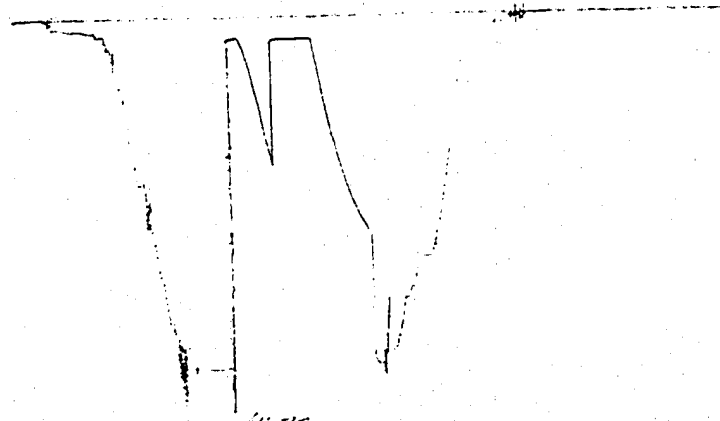
TIME
PRESSURE



44772-
7993



44772-
1804



44772-5500



44772-1670

TESTERS	
R. McIntosh	
WITNESS	
G. Ironside	
DRILLING CONTRACTOR	
Hi-Tower #17	



FORMATION TESTING
DATA SHEET

REFER TO INVOICE NO.	44 772
DATE OF TEST	84-01-20
TEST No.	1
JOB TYPE	Dual Bottom Hole

PRESSURE SUMMARY kPa						
GAUGE NUMBER	7993	2804	3360			
GAUGE DEPTH	1495.83	1498.33	1548.75			
BLANKED OFF	YES/NO	YES/NO	YES/NO	YES/NO	YES/NO	YES/NO
HOURLY TRAVEL	24	24	24			
INITIAL HYDROSTATIC	16 545	16 579	17 153			
FIRST FLOW	INITIAL 254	364	1 027			
	FINAL 259	373	973			
FIRST CLOSED IN	6 611	6 744	7 227			
SECOND FLOW	INITIAL 379	469	1 050			
	FINAL 401	518	1 053			
SECOND CLOSED IN	10 042	10 171	10 659			
THIRD FLOW	INITIAL					
	FINAL					
THIRD CLOSED IN						
FINAL HYDROSTATIC	16 283	16 400	16 995			

TIME PERIODS					
	FIRST	SECOND	THIRD	TESTER VALVE OPENED	TIME
FLOW	15	60			07:11
CLOSED IN	60	90		PACKER UNSEATED	10:56

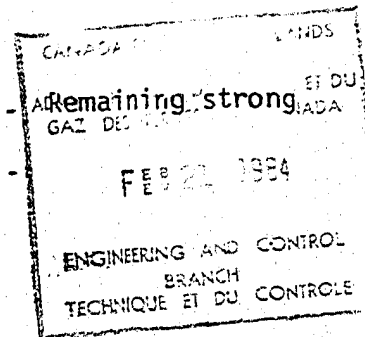
LIQUID RECOVERY DATA		
METRES	DESCRIPTION OF LIQUID	
30	Drilling fluid.	
30	TOTAL LIQUID RECOVERY	

EQUIPMENT AND WELL DATA			
FORMATION TESTED	Slave Point	TEMP. REC. No.	TE70
		DEPTH	1493.33
		MAX. TEMP.	41
NET PRODUCTIVE THICKNESS	m	MUD TYPE	Gel Chemical
K B ELEVATION	623.4	MUD DENSITY	1115
		MUD VISC	70
ALL DEPTHS MEASURED FROM:	☒ KB ☐ GROUND	CASING OR HOLE SIZE	222 mm
PACKER DEPTHS	TOP 1505	RATHOLE SIZE	mm
DEPTH OF TESTER VALVE	1493.29	DRILL PIPE	114.3
		OD mm	24.7
CASING PERFORATED INTERVAL	N/A	DRILL COLLARS ABOVE TESTER VALVE	71
		ID mm	133.78
TOTAL DEPTH	1550	SURFACE CHOKE	25.4 mm
AMOUNT AND TYPE CUSHION	Nil	BOTTOM CHOKE	19.05 mm

SAMPLE DATA		SAMPLE SHIPPED TO LABORATORY	
OIL GRAVITY	°C	YES	NO
GAS/OIL RATIO		☒	☐
REFRACTOMETER / RELATIVE DENSITY		☐	☒
RECOVERY WATER	°C	LABORATORY C and G Edmonton	
CHLORIDE CONTENT	mg/L		

REMARKS

Preflow: Weak air blow increasing slightly.
Final Flow: Strong air blow to bottom of pail in 30 seconds throughout. Pulled tight for 1 1/2 stands (10 000 daN over).



COMPANY	HOME OIL COMPANY LIMITED
LEGAL DESCRIPTION	60-03-14.00 118-56-34.30
PROVINCE OR TERRITORY	N.W.T.
FIELD OR AREA	SILT LAKE
WELL NAME AND NUMBER	LAKE A-64 H-64
TEST NUMBER	1
TESTED INTERVAL	1505 - 1550

		O. D. (mm)	I. D. (mm)	LENGTH(m)	DEPTH(m)	
3		DRILL COLLARS.....	171.0	71.0	114.74	
50		IMPACT REVERSING SUB.....	171.5	76.2	0.31	
3		DRILL COLLARS.....	171.0	71.0	19.07	
5		CROSSOVER.....	171.5	76.2	0.31	
12		DUAL CIP VALVE.....	127.0	22.1	1.49	
60		HYDROSPRING TESTER.....	127.0	19.1	2.54	1493.29
80		AP RUNNING CASE.....	127.0	57.2	1.25	1495.83
80		AP RUNNING CASE.....	127.0	57.2	1.25	1498.33
82		TEMPERATURE RUNNING CASE.....	127.0	57.2	1.25	
15		JAR.....	127.0	44.5	1.52	
16		VR SAFETY JOINT.....	127.0	25.4	0.86	
70		OPEN HOLE PACKER.....	196.9	38.9	1.82	
70		OPEN HOLE PACKER.....	196.9	38.9	1.82	1505.00
20		FLUSH JOINT ANCHOR.....	127.0	60.2	4.37	
5		CROSSOVER.....	171.5	76.2	0.31	
3		DRILL COLLARS.....	171.0	71.0	38.18	
5		CROSSOVER.....	171.5	76.2	0.31	
81		BLANKED-OFF RUNNING CASE.....	127.0	57.2	1.25	1548.75

EQUIPMENT DATA

NOMENCLATURE

b	=	Formation Volume Factor	1
CD	=	Wellbore Storage Coefficient	1
CT	=	System Compressibility	1/kPa
CUSH	=	Metres or Density of Cushion	m OR kg/m ³
DCFAC	=	Drill Collar Factor	m ³ /m
DCID	=	Drill Collar I.D.	mm
DCLN	=	Drill Collar Length	m
DPFAC	=	Drill Pipe Factor	m ³ /m
DPID	=	Drill Pipe I.D.	mm
DR	=	Damage Ratio	1
GOR	=	Gas Oil Ratio	1
GRAD	=	Gradient	kPa/m
h	=	Estimated Net Pay Thickness	m
K	=	Permeability	mD
Kh	=	Permeability * Net Pay	mD.m
Kh/u	=	Transmissibility	mD.m/mPa.s
M(P*)	=	Real Gas Potential of P*	P Pa.Pa/Pa.s
M(Pf)	=	Real Gas Potential of Pf	P Pa.Pa/Pa.s
OF1	=	Indicated Flow Rate (Max)	m ³ /d
OF2	=	Indicated Flow Rate (Min)	m ³ /d
OF3	=	Theoretical Flow Rate (Max)	m ³ /d
OF4	=	Theoretical Flow Rate (Min)	m ³ /d
P*	=	Extrapolated Static Pressure	kPa
PD	=	Pressure Dimensionless	1
Pd	=	Pressure Drop across Damaged Zone (except Gas Horner)	kPa P Pa.Pa/Pa.s
Pf	=	Final Flow Pressure	kPa
PI	=	Productivity Index	kPa
POROS	=	Porosity	%
Pot.	=	Potential Surface	m
Q	=	Liquid Production Rate During Test	m ³ /d
Q1	=	Theoretical Liquid Production Rate with Damage Removed	m ³ /d
S	=	Skin Factor	1
SPGR	=	Gas Gravity	1
SPO	=	Oil Gravity	1
TD	=	Time Dimensionless	1
TEMP	=	Temperature	Celsius
TVDEP	=	Tester Valve Depth	m
VISG	=	Viscosity of Gas	uPa.s
VISO	=	Viscosity of Oil	mPa.s
VISW	=	Viscosity of Water	mPa.s
Z	=	Gas Deviation Factor	1



NOMENCLATURE

AOF	= absolute open flow potential, m^3/d
AOF _i	= theoretical absolute open flow potential if damage were removed, m^3/d
B	= formation volume factor, (l)
C	= compressibility, kPa^{-1}
D	= gauge depth from KB, m
DR	= damage ratio (l)
E	= KB elevation, m
F	= drill pipe capacity, m^3/m
G	= hydrostatic gradient of recovery fluid, kPa/m
h	= net productive thickness of formation, m
h ¹	= thickness of test interval, m
k	= average effective permeability, mD
k ¹	= estimated average effective permeability, mD
m	= slope of final CIP buildup plot, kPa/cycle ($\text{kPa}^2/\text{cycle}$ for gas)
M	= slope of flow plot, min^{-1}
P _D	= average pressure drop across damaged zone during flow, kPa
P _i	= reservoir pressure kPa
P _s	= well bore flow pressure, kPa
P	= weighted average wellbore flow pressure, kPa
PI	= productivity index $\text{m}^3/\text{kPa}\cdot\text{d}$
PI _i	= theoretical productivity index if damage were removed, $\text{m}^3/\text{kPa}\cdot\text{d}$
PS	= potentiometric surface, fresh water corrected to 38°C, m
Q	= average liquid production rate during test, m^3/d
Q _g	= measured gas production rate, m^3/d at 15°C, 101.325 kPa, relative density 0.60
Q _m	= maximum production rate, m^3/d
Q _{mt}	= maximum theoretical production rate if damage were removed, m^3/d
q	= flow rate calculated from hydrostatic of recovery, $\text{kPa}/(\text{x min})$
r _i	= radius of investigation, m
r _w	= wellbore or shaft radius, m
R _s	= solution gas-oil ratio, (l)
s	= fluid saturation, (l)
t	= effective flow time, min
t _i	= time interval from start of continuous production to some future point of interest, min
T	= reservoir temperature, K
μ	= viscosity, $\text{mPa}\cdot\text{s}$
x	= time increment during which q values are calculated, min
Z	= compressibility factor, (l)
φ	= porosity, (l)
θ	= time point during the closed-in period, minutes

Subscripts

g	= gas
o	= oil
w	= water
t	= total

FORMATION TESTING

Technical Report



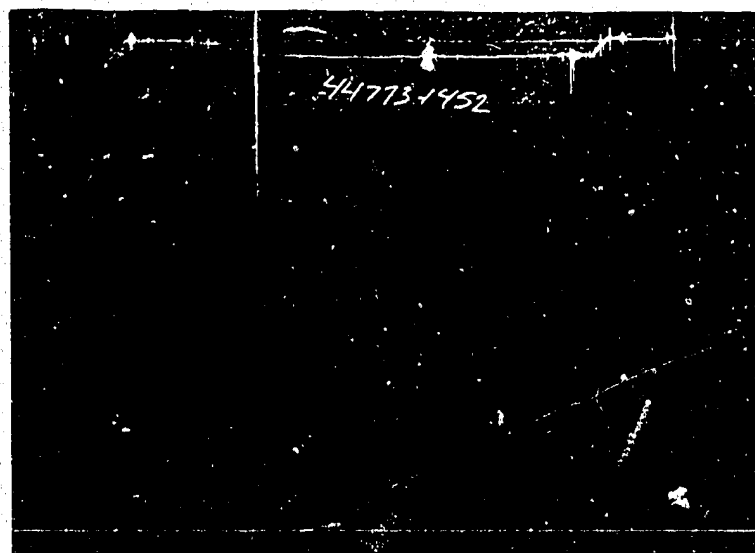
CALGARY, ALBERTA

A **Halliburton** Company

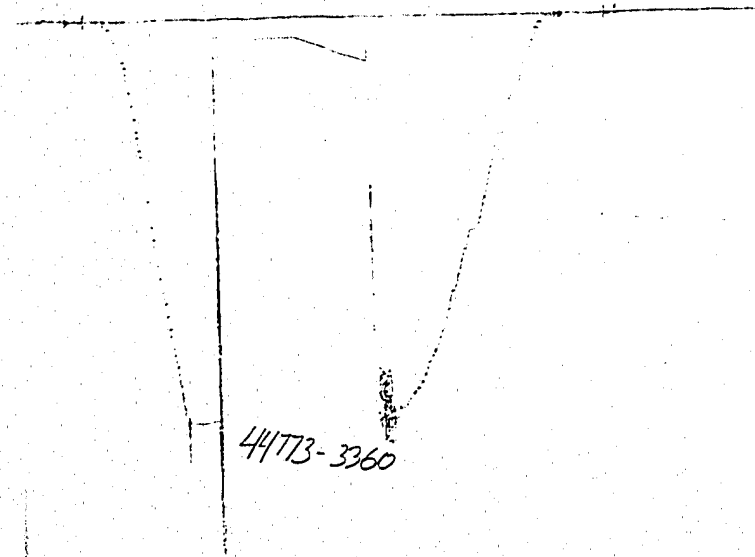
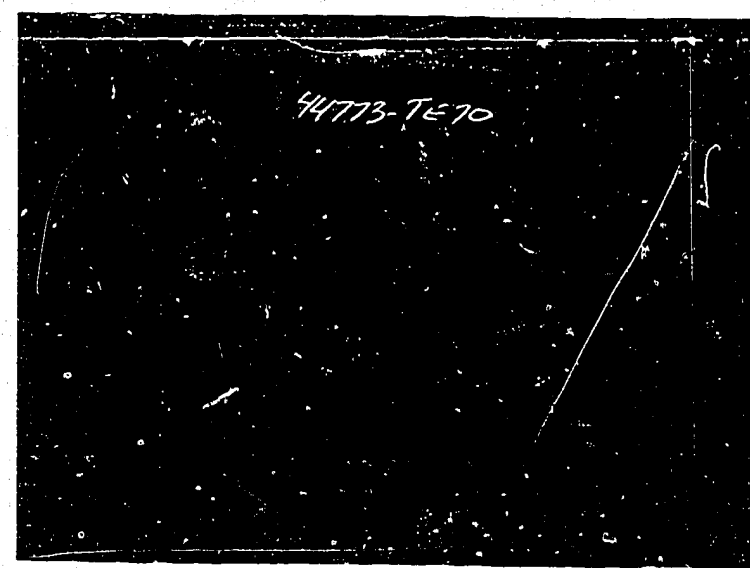
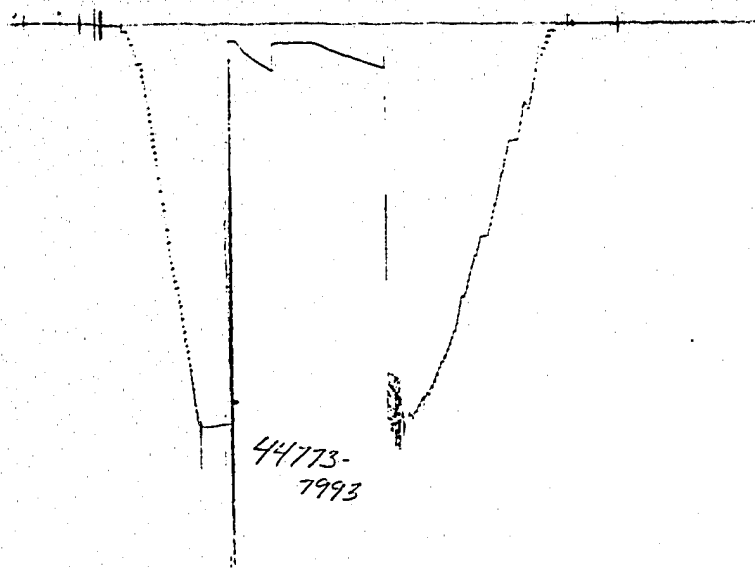
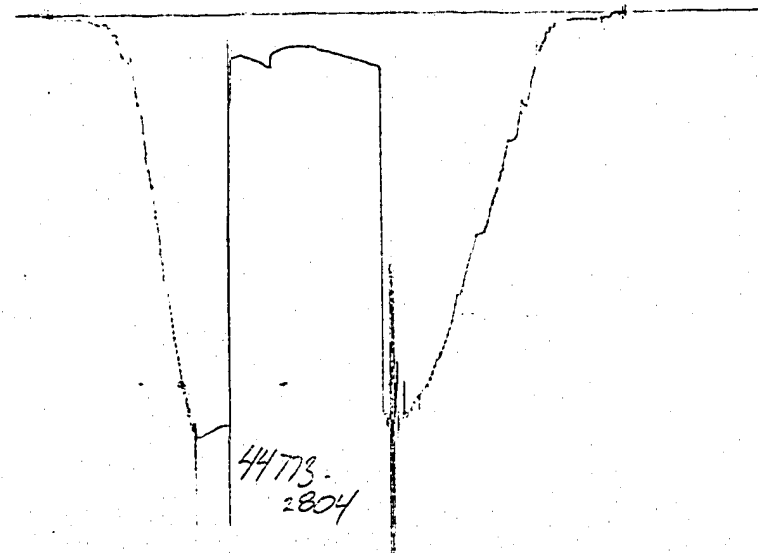
COMPANY	HOME OIL COMPANY LIMITED	FIELD OR AREA	SILT LAKE	WELL NAME AND NUMBER	TESTED INTERVAL
LEGAL DESCRIPTION	60-03-14.00 118-56-34.30	N.W.T.		HOME SILT LAKE A64	1806 - 1833
TEST NUMBER	2				

H-64

TIME →
PRESSURE ↓



TIME →
PRESSURE ↓



TESTERS	R. McIntosh
WITNESS	D. Kameinteki
DRILLING CONTRACTOR	Hi-Tower No. 17



FORMATION TESTING
DATA SHEET

REFER TO INVOICE NO.	44 773
DATE OF TEST	84-01-28
TEST No.	2
JOB TYPE	Dual Bottom Hole

PRESSURE SUMMARY kPa

GAUGE NUMBER	1452	7993	3360	2804		
GAUGE DEPTH	1791.56	1796.83	1798.08	1831.75		
BLANKED OFF	YES/NO	YES/NO	YES/NO	YES/NO	YES/NO	YES/NO
HOURLY CLOCK TRAVEL	24	24	24	24		
INITIAL HYDROSTATIC		19 647	19 678	19 970		
FIRST FLOW	INITIAL	293	854	857	2 076	
	FINAL	778	854	857	2 019	
FIRST CLOSED IN		852	2 321	2 313	2 603	
SECOND FLOW	INITIAL	852	970	968	1 870	
	FINAL	874	965	961	1 587	
SECOND CLOSED IN		884	2 145	2 148	2 591	
THIRD FLOW	INITIAL					
	FINAL					
THIRD CLOSED IN						
FINAL HYDROSTATIC		19 360	19 343	19 605		

TIME PERIODS					
	FIRST	SECOND	THIRD		TIME
FLOW	10	60		TESTER VALVE OPENED	08:13
CLOSED IN	60	120		PACKER UNSEATED	12:23

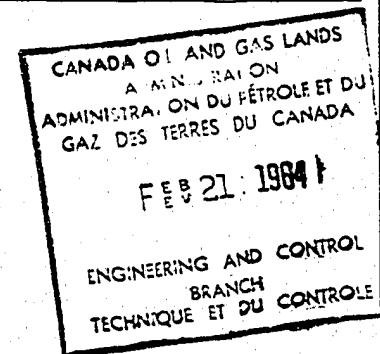
LIQUID RECOVERY DATA		
METRES	DESCRIPTION OF LIQUID	
20	Inhibitor and water.	
39	Mud.	
59	TOTAL LIQUID RECOVERY	

EQUIPMENT AND WELL DATA			
FORMATION TESTED	Granite Wash	TEMP. REC. No.	TE70
NET PRODUCTIVE THICKNESS	m	DEPTH	1799.33 m
K B ELEVATION	623.4 m	MAX. TEMP.	46.5 °C
ALL DEPTHS MEASURED FROM:	☒ KB ☐ GROUND	MUD TYPE	Gel Chemical
PACKER DEPTHS	TOP 1806 BOTTOM m	MUD DENSITY	1070 kg/m ³
DEPTH OF TESTER VALVE	1794.29 m	MUD VISC	100 s/L
CASING PERFORATED INTERVAL	N/A m	CASING OR HOLE SIZE	222 mm
TOTAL DEPTH	1833 m	RATHOLE SIZE	mm
AMOUNT AND TYPE CUSHION	76 L Water and Inhibitor	DRILL PIPE	OD mm 114.3 kg/m 24.7
		DRILL COLLARS ABOVE TESTER VALVE	ID mm 73 LENGTH m 152.21
		SURFACE CHOKE	25.4 mm
		BOTTOM CHOKE	19.05 mm

SAMPLE DATA	
OIL GRAVITY	@ °C
GAS / OIL RATIO	
REFRACTOMETER/RELATIVE DENSITY	
RECOVERY WATER	@ °C
CHLORIDE CONTENT	mg/L

SAMPLE SHIPPED TO LABORATORY	YES	NO
SAMPLER No.	☐	☒
GAS SAMPLE BOTTLE No.	☐	☒
LABORATORY	Recovery Samples to C and G	

REMARKS



COMPANY	HOME OIL COMPANY LIMITED
LEGAL DESCRIPTION	60-03-14.00 118-56-34.30
PROVINCE OR TERRITORY	N.B.T.
FIELD OR AREA	SILT LAKE
TEST NUMBER	2
TESTED INTERVAL	1806 - 1833
WELL NAME	HOME SILT LAKE A64

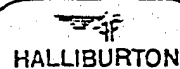
TICKET NO.: 44 773
HOME OIL COMPANY LIMITED
Home Silt Lake A64



DATES AND TIMES
(00:00-24:00 HRS.)

REMARKS

03:00	Start picking up tool.
05:00	Tool made up, weight below hydrospring 8000 daN.
07:30	On bottom, head up, 4 m of fill, string weight 53 000 daN.
08:13	Tool opened, skidded 4 m, lost 6 m of mud, then mud held. Had a fair air blow and steady through-out.
08:23	Shut in tool.
09:23	Opened tool, very weak air blow, dead after 15 minutes.
10:23	Shut in tool.
12:23	Pulled up to release packers, pulled 27 000 daN over to come free. Final weight 53 000 daN.
17:00	Tools on surface 59 m recovery. 3 samples to C and G Edmonton. Recover recorders and break down tool.
19:00	Job complete.



			O.D. (mm)	I.D. (mm)	LENGTH(m)	DEPTH(m)
3		DRILL COLLARS.....	171.0	73.0	125.18	
50		IMPACT REVERSING SUB.....	171.5	76.2	0.31	
3		DRILL COLLARS.....	171.0	73.0	27.03	
5		CROSSOVER.....	171.5	76.2	0.31	
80		AP RUNNING CASE.....	127.0	57.2	1.25	1791.56
12		DUAL CIP VALVE.....	127.0	22.1	1.48	
60		HYDROSPRING TESTER.....	127.0	19.1	2.54	1794.29
80		AP RUNNING CASE.....	127.0	57.2	1.25	1796.83
80		AP RUNNING CASE.....	127.0	57.2	1.25	1798.08
82		TEMPERATURE RUNNING CASE.....	127.0	57.2	1.25	
15		JAR.....	127.0	44.5	1.52	
16		VR SAFETY JOINT.....	127.0	25.4	0.86	
70		OPEN HOLE PACKER.....	196.9	38.9	1.82	
70		OPEN HOLE PACKER.....	196.9	38.9	1.82	1806.00
20		FLUSH JOINT ANCHOR.....	127.0	60.2	5.46	
5		CROSSOVER.....	171.5	76.2	0.30	
3		DRILL COLLARS.....	171.0	73.0	19.09	
5		CROSSOVER.....	171.5	76.2	0.30	
81		BLANKED-OFF RUNNING CASE.....	127.0	57.2	1.25	1831.75

EQUIPMENT DATA

FORMATION TESTING

Technical Report



CALGARY, ALBERTA

A **Halliburton** Company

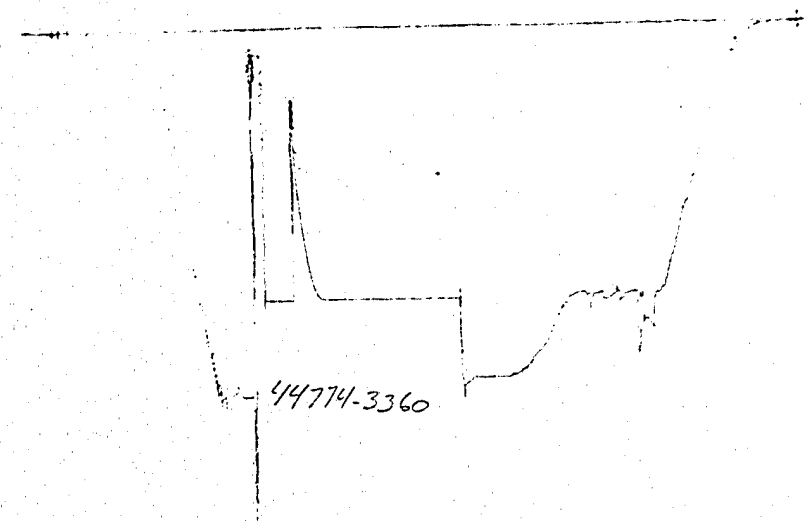
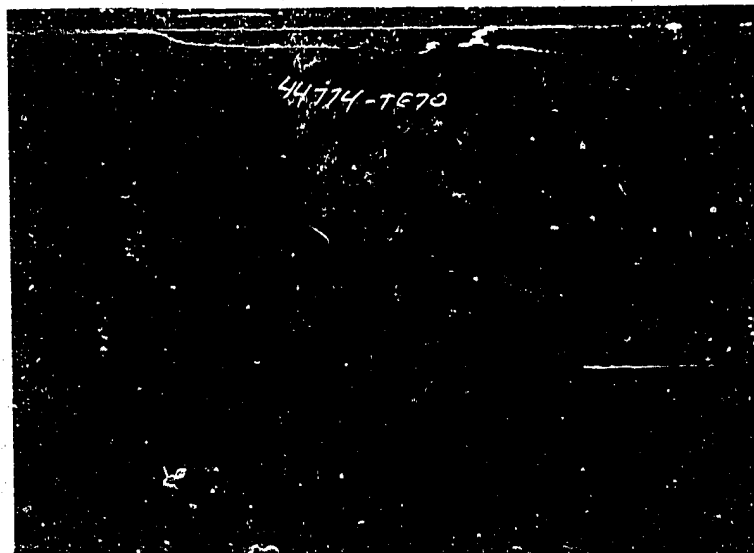
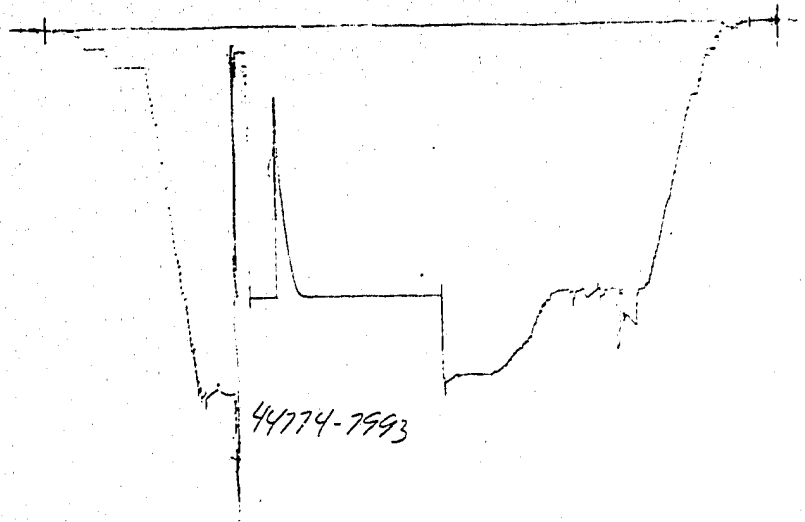
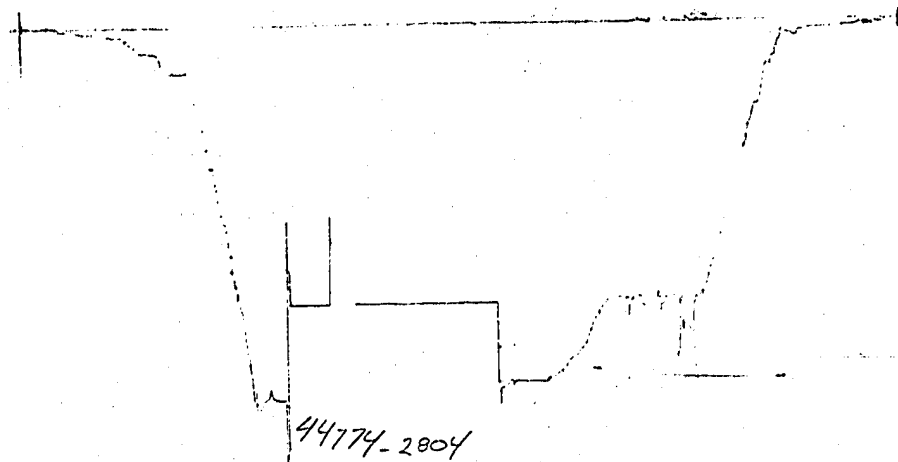
COMPANY	HOME OIL COMPANY LIMITED	FIELD OR AREA	SILT LAKE	WELL NAME AND NUMBER	HOME SILT LAKE A-64
LEGAL DESCRIPTION	60-03-14.00 118-56-34.30	PROVINCE OR TERRITORY	N.W.T.	TEST NUMBER	3
				TESTED INTERVAL	1649 - 1673

H-64

TIME →
PRESSURE ↓



TIME →
PRESSURE ↓



TESTERS	R. McIntosh
WITNESS	D. Kamienteki
DRILLING CONTRACTOR	Hi-Tower No. 17



FORMATION TESTING
DATA SHEET

REFER TO INVOICE NO.	44 774
DATE OF TEST	84-01-28
TEST No.	3
JOB TYPE	Hydroflate Straddle

PRESSURE SUMMARY kPa

GAUGE NUMBER	1452	7993	3360	2804		
GAUGE DEPTH	1628.60	1634.55	1635.80	1674.76		
BLANKED OFF	YES/NO	YES/NO	YES/NO	YES/NO	YES/NO	YES/NO
HOUR CLOCK TRAVEL	24	24	24	24		
INITIAL HYDROSTATIC		17 950	18 002	18 365		
FIRST FLOW	INITIAL 28	924	1 131	9 515		
	FINAL 1 075	*	*	*		
FIRST CLOSED IN	1 050	13 219	13 261	13 655		
SECOND FLOW	INITIAL 1 082	3 755	3 601	10 292		
	FINAL 13 160	13 205	13 245	13 649		
SECOND CLOSED IN	13 170	13 217	13 252	13 654		
THIRD FLOW	INITIAL					
	FINAL					
THIRD CLOSED IN						
FINAL HYDROSTATIC		17 279	17 308	17 750		

TIME PERIODS

	FIRST	SECOND	THIRD	TIME
FLOW	10	90		02:06
CLOSED IN	60	180		07:46

LIQUID RECOVERY DATA

METRES	DESCRIPTION OF LIQUID
135	Drilling mud.
915	Salt water.
1050	TOTAL LIQUID RECOVERY

EQUIPMENT AND WELL DATA

FORMATION TESTED	Upper Keg River	TEMP. REC. No.	TE70
NET PRODUCTIVE THICKNESS	m	DEPTH	1637.05 m
K B ELEVATION	623.4 m	MAX. TEMP.	53 °C
ALL DEPTHS MEASURED FROM:	☒ KB ☐ GROUND	MUD TYPE	Gel Chemical
PACKER DEPTHS	TOP 1649 BOTTOM 1673 m	MUD DENSITY	kg/m ³ 1070
DEPTH OF TESTER VALVE	1629.85 m	MUD VISC	s/L 100
CASING PERFORATED INTERVAL	N/A m	CASING OR HOLE SIZE	222 mm
TOTAL DEPTH	1833 m	RATHOLE SIZE	mm
AMOUNT AND TYPE CUSHION	76 L Water and Inhibitor	DRILL PIPE	OD mm 114.3 kg/m 24.7
		DRILL COLLARS ABOVE TESTER VALVE	ID mm 73 LENGTH m 152.21
		SURFACE CHOKE	25.4 mm
		BOTTOM CHOKE	19.05 mm

SAMPLE DATA

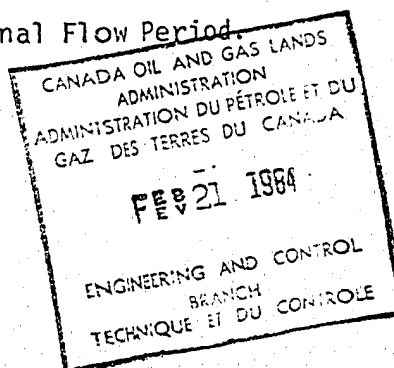
OIL GRAVITY	@	°C
GAS/OIL RATIO		
REFRACTOMETER/RELATIVE DENSITY		
RECOVERY WATER	115 @	°C
CHLORIDE CONTENT	000	mg/L

SAMPLE SHIPPED TO LABORATORY	YES	NO
SAMPLER No.	☐	☒
GAS SAMPLE BOTTLE No.	☐	☒
LABORATORY	Recovery Samples to C and G	

REMARKS

Charts indicate plugging perforations clearing during Final Flow Period.

* Not readable, perforations plugged right off.



COMPANY	HOME OIL COMPANY LIMITED
LEGAL DESCRIPTION	60-03-14-00 118-56-34.30
PROVINCE OR TERRITORY	N.W.T.
FIELD OR AREA	SILT LAKE
TEST NUMBER	3
TESTED INTERVAL	1649 - 1673
WELL NAME AND NUMBER	HOME SILT LAKE 4-64

TICKET NO.: 44 774
HOME OIL COMPANY LIMITED
Home Silt Lake A-64


HALLIBURTON

DATES AND TIMES
(00:00-24:00 HRS.)

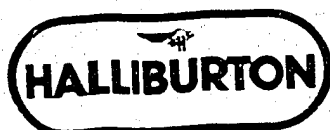
REMARKS

19:00	Start to pick up inflate tools.
21:00	Tool built, weight below hydrospring 8000 daN.
01:20	At test interval string weight 50 000 daN head up.
01:40	Rotate for 20 minutes at 65 RPM to pump up packers.
02:02	Set 6000 daN on tool.
02:06	Tool opened, bubble hose froze off, we had a fair air blow. Thawed hose and returned flow to pail at 5 minute mark and we had a weak air blow.
02:16	Shut in tool.
03:16	Opened tool had a good air blow to pail bottom in 30 seconds. The blow gradually decreased over the 90 minute flow. No gas to surface.
04:46	Shut in tool.
07:46	Open bypass and pulled 63 000 daN to deflate packers, final string weight 59 000 daN. Remove surface equipment.
08:00	Start out of the hole. Cathead on reig not operating right slow coming out.
11:00	Hit fluid 1050 m above tool. Reversed out. Caught 5 samples to ship to C and G (Edmonton).
13:00	Continue out of the hole.
17:00	Tools on surface recover recorders and service tool.
18:30	Job complete.


HALLIBURTON

		O.D. (mm)	I.D. (mm)	LENGTH (m)	DEPTH (m)
3	DRILL COLLARS.....	171.0	73.0	123.51	
50	IMPACT REVERSING SUB.....	171.5	76.2	0.31	
3	DRILL COLLARS.....	171.0	73.0	28.70	
5	CROSSOVER.....	171.5	76.2	0.30	
80	AP RUNNING CASE.....	127.0	57.2	1.25	1628.60
60	HYDROSPRING TESTER.....	127.0	19.1	2.54	1629.85
14	EXTENSION JOINT.....	127.0	25.4	2.16	
80	AP RUNNING CASE.....	127.0	57.2	1.25	1634.55
80	AP RUNNING CASE.....	127.0	57.2	1.25	1635.8^
82	TEMPERATURE RUNNING CASE.....	127.0	57.2	1.25	
15	JAR.....	127.0	44.5	1.52	
16	VR SAFETY JOINT.....	127.0	25.4	1.06	
26	PUMP ASSEMBLY.....	127.0	22.3	2.15	
27	SCREEN ASSEMBLY.....	127.0	25.4	1.34	
11	HYDROFLATE PRESSURE LIMITER.....	127.0	25.4	1.25	
13	HYDROFLATE SAFETY JOINT.....	127.0	25.4	1.62	
74	TOP HYDROFLATE PACKER.....	177.8	26.9	2.55	1649.00
28	PORT ASSEMBLY.....	127.0		1.03	
22	BLANK ANCHOR.....	127.0	57.2	1.89	
5	CROSSOVER.....	171.5	76.2	0.30	
3	DRILL COLLARS.....	171.0	73.0	19.09	
5	CROSSOVER.....	171.5	76.2	0.30	
75	LOWER HYDROFLATE PACKER.....	177.8	50.8	2.37	1673.00
97	BELLY SP W/ BLANKED OFF RECORDER		57.2	1.55	1674.76

EQUIPMENT DATA



NOMENCLATURE

b	=	Formation Volume Factor	1
CD	=	Wellbore Storage Coefficient	1
CT	=	System Compressibility	1/kPa
CUSH	=	Metres or Density of Cushion	m OR kg/m ³
DCFAC	=	Drill Collar Factor	m ³ /m
DCID	=	Drill Collar I.D.	mm
DCLEN	=	Drill Collar Length	m
DPFAC	=	Drill Pipe Factor	m ³ /m
DPID	=	Drill Pipe I.D.	mm
DR	=	Damage Ratio	1
GOR	=	Gas Oil Ratio	1
GRAD	=	Gradient	kPa/m
h	=	Estimated Net Pay Thickness	m
K	=	Permeability	mD
Kh	=	Permeability * Net Pay	mD.m
Kh/u	=	Transmissibility	mD.m/mPa.s
M(P*)	=	Real Gas Potential of P*	P Pa.Pa/Pa.s
M(Pf)	=	Real Gas Potential of Pf	P Pa.Pa/Pa.s
OF1	=	Indicated Flow Rate (Max)	m ³ /d
OF2	=	Indicated Flow Rate (Min)	m ³ /d
OF3	=	Theoretical Flow Rate (Max)	m ³ /d
OF4	=	Theoretical Flow Rate (Min)	m ³ /d
P*	=	Extrapolated Static Pressure	kPa
PD	=	Pressure Dimensionless	1
Pd	=	Pressure Drop across Damaged Zone	kPa
		(except Gas Horner)	P Pa.Pa/Pa.s
Pf	=	Final Flow Pressure	kPa
PI	=	Productivity Index	kPa
POROS	=	Porosity	%
Pot.	=	Potential Surface	m
Q	=	Liquid Production Rate During Test	m ³ /d
Q1	=	Theoretical Liquid Production Rate with Damage Removed	m ³ /d
S	=	Skin Factor	1
SPGR	=	Gas Gravity	1
SPO	=	Oil Gravity	1
TD	=	Time Dimensionless	1
TEMP	=	Temperature	Celsius
TVDEP	=	Tester Valve Depth	m
VISG	=	Viscosity of Gas	uPa.s
VISO	=	Viscosity of Oil	mPa.s
VISW	=	Viscosity of Water	mPa.s
Z	=	Gas Deviation Factor	1

NOTICE

These calculations are based upon information furnished by you and taken from Drill Stem Test pressure charts, and are furnished you for your information. In furnishing such calculations and evaluations based thereon, Halliburton is merely expressing its opinion. You agree that Halliburton makes no warranty express or implied as to the accuracy of such calculations or opinions, and that Halliburton shall not be liable for any loss or damage, whether due to negligence or otherwise, in connection with such calculations and opinions.

FORMATION TESTING

Technical Report

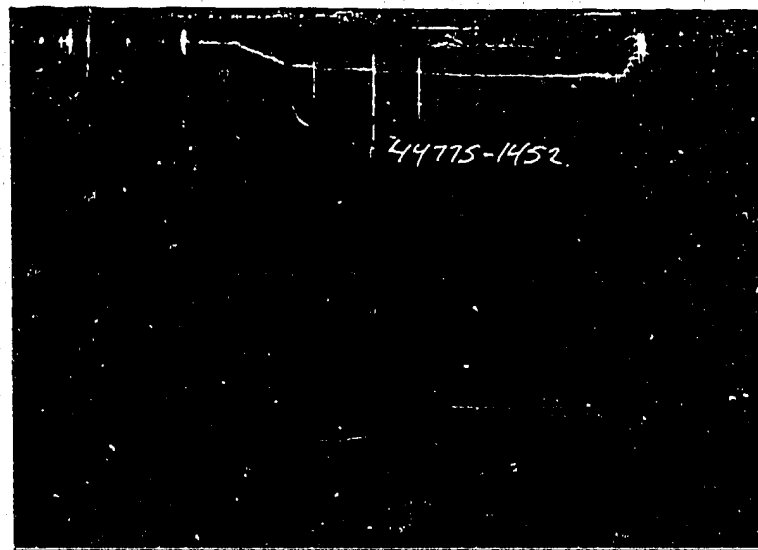


CALGARY, ALBERTA

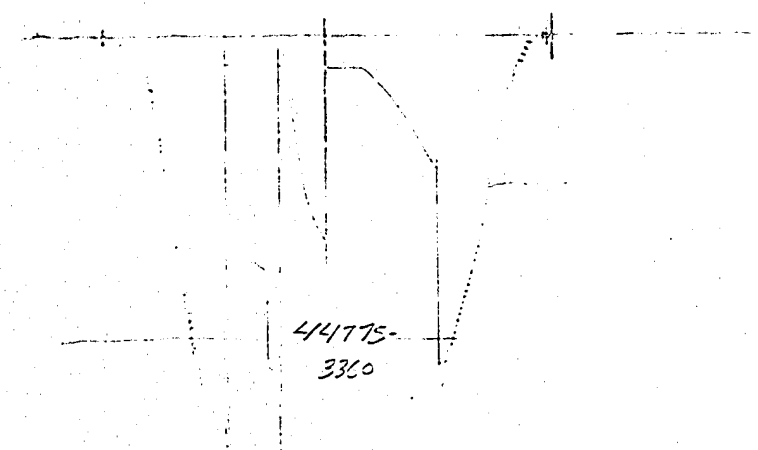
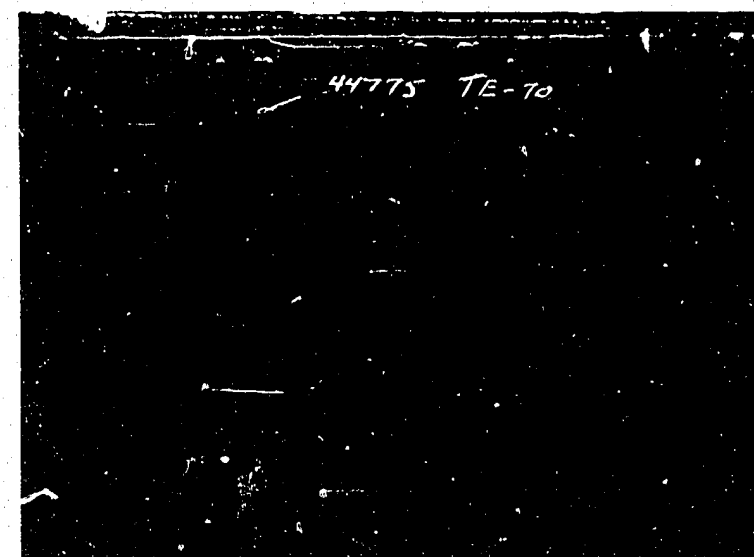
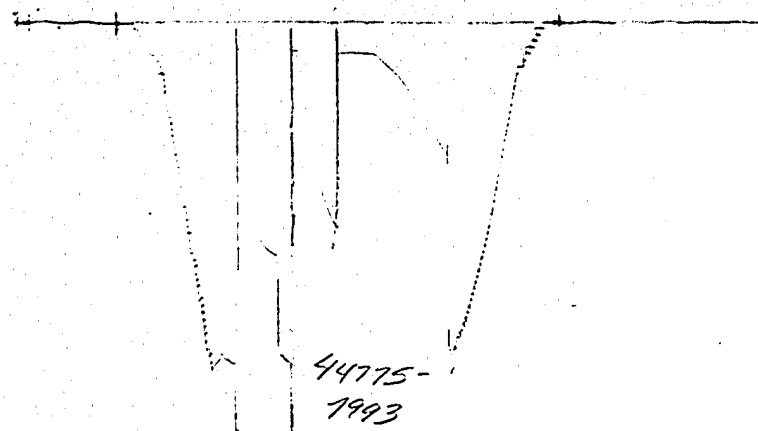
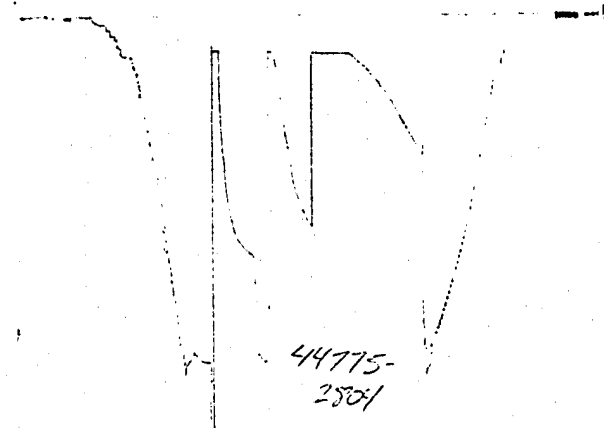
A **Halliburton** Company

COMPANY	HOME OIL COMPANY LIMITED	FIELD OR AREA	SILT LAKE	WELL NAME AND NUMBER	HOME SILT LAKE #64
LEGAL DESCRIPTION	60-03-14.00 118-56-34.30	PROVINCE OR TERRITORY	N.W.T.	TEST NUMBER	4
				TESTED INTERVAL	1524 - 1533

TIME →
PRESSURE ↓



TIME →
PRESSURE ↓



TESTERS	R. McIntosh
WITNESS	D. Kamientecki
DRILLING CONTRACTOR	Hi-Tower No. 17



FORMATION TESTING
DATA SHEET

REFER TO INVOICE NO.	44 775
DATE OF TEST	84-01-29
TEST No.	4
JOB TYPE	Hydroflate Straddle

PRESSURE SUMMARY kPa						
GAUGE NUMBER	1452	7993	3360	2804		
GAUGE DEPTH	1503.60	1509.55	1510.80	1534.76		
BLANKED OFF	YES/NO	YES/NO	YES/NO	YES/NO	YES/NO	YES/NO
HOUR CLOCK TRAVEL	24	24	24	24		
INITIAL HYDROSTATIC		16 669	16 670	16 940		
FIRST FLOW	INITIAL 1 168	1 323	1 379	1 669		
	FINAL 1 229	1 323	1 379	1 669		
FIRST CLOSED IN	1 221	11 380	11 392	11 721		
SECOND FLOW	INITIAL 1 255	1 400	1 479	1 773		
	FINAL 1 354	1 428	1 482	1 796		
SECOND CLOSED IN	1 333	10 042	10 001	10 377		
THIRD FLOW	INITIAL 1 374	1 509	1 543	1 892		
	FINAL 1 460	1 530	1 575	1 892		
THIRD CLOSED IN	1 467	6 499	6 484	6 833		
FINAL HYDROSTATIC		16 006	15 982	16 347		

TIME PERIODS					
	FIRST	SECOND	THIRD	TESTER VALVE OPENED	TIME
FLOW	10	10	60		22:52
CLOSED IN	60	60	120	PACKER UNSEATED	04:33

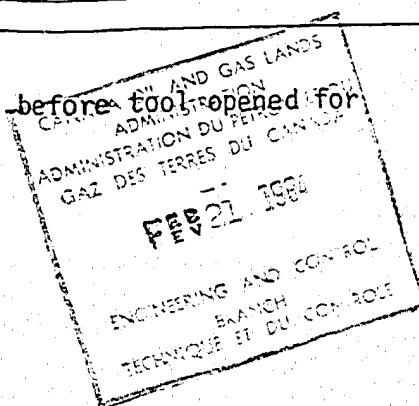
LIQUID RECOVERY DATA		
METRES	DESCRIPTION OF LIQUID	
20	Inhibitor and water.	
92	Mud.	
112	TOTAL LIQUID RECOVERY	

EQUIPMENT AND WELL DATA			
FORMATION TESTED	Slave Point	TEMP. REC. No.	TE70
		DEPTH	1512.05 m
		MAX. TEMP.	45 °C
NET PRODUCTIVE THICKNESS	m	MUD TYPE	Gel Chemical
K B ELEVATION	623.4 m	MUD DENSITY	1070 kg/m ³
		MUD VISC	100 s/L
ALL DEPTHS MEAS. RED FROM:	☒ KB ☐ GROUND	CASING OR HOLE SIZE	222 mm
PACKER DEPTHS	TOP 1524 BOTTOM 1533 m	RATHOLE SIZE	mm
DEPTH OF TESTER VALVE	1504.85 m	DRILL PIPE	114.3 OD mm 24.7 kg/m
CASING PERFORATED INTERVAL	N/A m	DRILL COLLARS ABOVE TESTER VALVE	73 ID mm LENGTH m
TOTAL DEPTH	1833 m	SURFACE CHOKE	25.4 mm
AMOUNT AND TYPE CUSHION	76 L Water and Inhibitor	BOTTOM CHOKE	19.05 mm

SAMPLE DATA		SAMPLE SHIPPED TO LABORATORY		YES	NO
OIL GRAVITY	@ °C	SAMPLER No.		☐	☒
GAS/OIL RATIO		GAS SAMPLE BOTTLE No.		☐	☒
REFRACTOMETER/RELATIVE DENSITY		LABORATORY	Recovery samples to C and G		
RECOVERY WATER	@ °C				
CHLORIDE CONTENT	mg/L				

REMARKS

Fluid recorder (No. 1452) indicates leak into drill pipe before tool joint opened for Preflow.



COMPANY	HOME OIL COMPANY LIMITED
LEGAL DESCRIPTION	60-03-14.00 118-56-34.30
PROVINCE OR TERRITORY	N.M.T.
FIELD OR AREA	SILT LAKE
TEST NUMBER	4
TESTED INTERVAL	1524 - 1533
WELL NAME AND NUMBER	HOME SILT LAKE #64

TICKET NO.: 44 775
HOME OIL COMPANY LIMITED
Home Silt Lake A-64


HALLIBURTON

DATES AND TIMES
(00:00-24:00 HRS.)

REMARKS

18:30	Change interval, reload recorders and service tool.
20:00	Start in the hole weight below hydrospring 2000 daN.
22:10	At test interval weight below hydrospring 48 500 daN, head up.
22:25	Pump up packers.
22:52	Tool opened, very weak air blow steady throughout.
23:02	Picked up to shut in tool.
00:01	Set down on tool, it took no weight, suspect we deflated accidentally while shutting in tool.
00:02	Started to repump packers.
00:23	Open for preflow, weak air blow steady throughout.
00:33	Shut in.
01:33	Open tool weak air blow steady throughout.
02:33	Shut in tool.
04:33	Pull up to deflate pulled 3000 daN over. Come out of hole.
07:00	Recover 112 m 3 samples to C and G Edmonton.
07:10	On surface recover recorders.
07:30	Job complete.


HALLIBURTON

		O.D. (mm)	I.D. (mm)	LENGTH (m)	DEPTH (m)
3		171.0	73.0	143.57	
50		171.5	76.2	0.31	
3		171.0	73.0	28.54	
5		171.5	76.2	0.30	
80		127.0	57.2	1.25	1503.60
60		127.0	19.1	2.54	1504.85
14		127.0	25.4	2.16	
80		127.0	57.2	1.25	1509.55
80		127.0	57.2	1.25	1510.80
82		127.0	57.2	1.25	
15		127.0	44.5	1.52	
16		127.0	25.4	1.06	
26		127.0	22.3	2.15	
27		127.0	25.4	1.34	
11		127.0	25.4	1.25	
13		127.0	25.4	1.62	
74		177.8	26.9	2.55	1524.00
28		127.0		1.03	
22		127.0	57.2	6.57	
75		177.8	50.8	2.37	1533.00
97			57.2	1.55	1534.76

EQUIPMENT DATA

NOMENCLATURE

b	=	Formation Volume Factor	1
CD	=	Wellbore Storage Coefficient	1
CT	=	System Compressibility	1/kPa
CUSH	=	Metres or Density of Cushion	m OR kg/m ³
DCFAC	=	Drill Collar Factor	m ³ /m
DCID	=	Drill Collar I.D.	mm
DCLEN	=	Drill Collar Length	m
DPFAC	=	Drill Pipe Factor	m ³ /m
DPID	=	Drill Pipe I.D.	mm
DR	=	Damage Ratio	1
GOR	=	Gas Oil Ratio	1
GRAD	=	Gradient	kPa/m
h	=	Estimated Net Pay Thickness	m
K	=	Permeability	mD
Kh	=	Permeability * Net Pay	mD.m
Kh/u	=	Transmissibility	mD.m/mPa.s
M(P*)	=	Real Gas Potential of P*	P Pa.Pa/Pa.s
M(Pf)	=	Real Gas Potential of Pf	P Pa.Pa/Pa.s
OF1	=	Indicated Flow Rate (Max)	m ³ /d
OF2	=	Indicated Flow Rate (Min)	m ³ /d
OF3	=	Theoretical Flow Rate (Max)	m ³ /d
OF4	=	Theoretical Flow Rate (Min)	m ³ /d
P*	=	Extrapolated Static Pressure	kPa
PD	=	Pressure Dimensionless	1
Pd	=	Pressure Drop across Damaged Zone (except Gas Horner)	kPa
Pf	=	Final Flow Pressure	P Pa.Pa/Pa.s
PI	=	Productivity Index	kPa
POROS	=	Porosity	%
Pot.	=	Potential Surface	m
Q	=	Liquid Production Rate During Test	m ³ /d
Q1	=	Theoretical Liquid Production Rate with Damage Removed	m ³ /d
S	=	Skin Factor	1
SPGR	=	Gas Gravity	1
SPO	=	Oil Gravity	1
TD	=	Time Dimensionless	1
TEMP	=	Temperature	Celsius
TVDEP	=	Tester Valve Depth	m
VISG	=	Viscosity of Gas	uPa.s
VISO	=	Viscosity of Oil	mPa.s
VISW	=	Viscosity of Water	mPa.s
Z	=	Gas Deviation Factor	1

NOTICE

These calculations are based upon information furnished by you and taken from Drill Stem Test pressure charts, and are furnished you for your information. In furnishing such calculations and evaluations based thereon, Halliburton is merely expressing its opinion. You agree that Halliburton makes no warranty express or implied as to the accuracy of such calculations or opinions, and that Halliburton shall not be liable for any loss or damage, whether due to negligence or otherwise, in connection with such calculations and opinions.

C H E M I C A L & G E O L O G I C A L L A B O R A T O R I E S L T D .

COMPANY: HOME OIL COMPANY LIMITED

WELL: Home Silt Lake

LOCATION: A-64 (NWT)

FIELD: Silt Lake

PROVINCE: Northwest Territories

FORMATION: Slave Point

CORING EQUIPMENT: Diamond

CORING DIAMETER: .102 M

CORING FLUID: Chemical Gel

ELEVATION: K.B.: 623.40 M
Grd.: 619.00 M

PAGE: 1

LAB NO: C84-2545

DATE: 1984-02-08

ANALYSTS: Rob Paul

Core transported in

- () Rubber sleeve
- () Plastic sleeve
- (X) Boxes
- () Core artificially kept frozen in transit
- () Core placed in deep freeze
(at -28C) at the laboratory
- () Core slabbed prior to analysis
- () Permeability measured on 0.020 M cubes
- () Permeability measured on M drilled plugs
- () Permeability measured on a sample jacketed
in an aluminum sleeve
- (X) Permeability measured on .102 M full diameter

Type of solvent used for extraction: Toluene

Extraction time: 240 Hours

Drying temperature and time: 120°C For 12 Hours

REMARKS: Samples sandblasted before KH measurements.

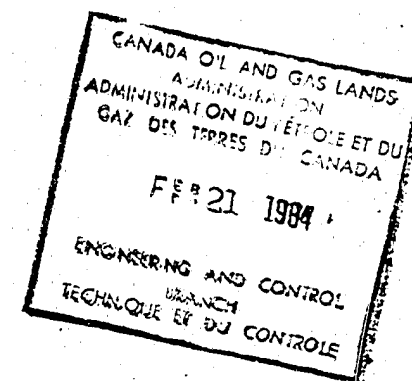
METHOD OF ANALYSIS:

POROSITY: Boyle's Law Helium Porosimeter

PERMEABILITY: Hassler Holder

FLUID SATURATION: Ruska Fluid Content Still

The 'OB' samples were confined in aluminum sleeves and subjected to kPa overburden pressure during porosity and permeability determinations.



C H E M I C A L & G E O L O G I C A L L A B O R A T O R I E S L T D .

COMPANY: HOME OIL COMPANY LIMITED
 WELL: Home Silt Lake
 LOCATION: A-64 (NWT)
 FIELD: Silt Lake
 PROVINCE: Northwest Territories

FORMATION: Slave Point
 CORING FLUID: Chemical Gel
 CORING EQUIPMENT: Diamond
 ELEVATION: K.B.: 623.40 M
 Grd.: 619.00 M
 REMARKS: Full Diameter Analysis

PAGE: 1A
 LAB NO: C84-2545
 DATE: 1984-02-08
 ANALYST: Rob Paul

S U M M A R Y

SUMMARY INTERVAL: 1514.00 - 1550.00 M
 TOTAL THICKNESS: 36.00 M
 THICKNESS ANALYZED: 4.10 M
 THICKNESS NOT ANALYZED: RUBBLE 0.00 DENSE 29.50 LOST 2.40 DRILLED 0.00 NOT ANALYZED 0.00 31.90 M

PERMEABILITY RANGE	THICKNESS M	WEIGHTED AVERAGE PERMEABILITY MD	PERMEABILITY THICKNESS MD.M	WEIGHTED AVERAGE POROSITY	POROSITY THICKNESS M	WEIGHTED AVERAGE RESIDUAL PORE SAT. OIL	WATER
TOTAL ANALYZED	4.10	0.302	1.240	0.039	0.160	0.147	0.027
10.00 MD AND GREATER	0.00	0.000	0.000	0.000	0.000	0.000	0.000
1.00 MD TO 9.99 MD	0.00	0.000	0.000	0.000	0.000	0.000	0.000
0.50 MD TO 0.99 MD	1.10	0.745	0.819	0.053	0.058	0.205	0.075
0.01 MD TO 0.49 MD	3.00	0.140	0.421	0.034	0.102	0.126	0.009
LESS THAN 0.01 MD	0.00	0.000	0.000	0.000	0.000	0.000	0.000

PORO. %

MD

C H E M I C A L & G E O L O G I C A L L A B O R A T O R I E S L T D .

COMPANY: HOME OIL COMPANY LIMITED

PAGE: 2

WELL: HOME SILT LAKE A-64 (NWT)

LAB NO: C84-2545

SMPL NO	INTERVAL REPRESENTED			PERMEABILITY TO AIR			PERM THICK MD.M	PORO. THICK M	PORO. THICK M	DENSITY		RESIDUAL		VISUAL EXAMINATION
	TOP M	BASE M	THICK M	KMAX MD	K90' MD	KV MD				BULK KG/M3	GRAIN KG/M3	PORE OIL	SAT. WATER	

CORED INTERVAL 1514.00 - 1550.00 M														
CORE #1 1514.00 - 1532.00 M RECEIVED IN LAB 18.00 M														
DE	1514.00	1514.55	0.55											CALC,SH,LS
1	1514.55	1515.30	0.75	0.02	0.02	0.01	0.015	0.022	0.017	2660	2720	0.000	0.000	FSS,CALC
2	1515.30	1515.75	0.45	0.01	0.01	<0.01	0.004	0.004	0.002	2710	2720	0.000	0.000	FSS,CALC
DE	1515.75	1526.30	10.55											CALC,SH,LS
3	1526.30	1526.45	0.15	0.03	0.03	<0.01	0.004	0.050	0.007	2580	2720	0.058	0.044	FSS,CALC
4	1526.45	1526.60	0.15	0.05	0.05	<0.01	0.007	0.051	0.008	2570	2710	0.057	0.000	FSS,CALC
5	1526.60	1526.90	0.30	0.36	0.02	<0.01	0.108	0.022	0.007	2630	2690	0.394	0.000	FSS,CALC,HF
DE	1526.90	1527.70	0.80											CALC,SH,LS
6	1527.70	1527.90	0.20	0.03	0.03	<0.01	0.006	0.020	0.004	2620	2680	0.578	0.000	FSS,CALC
7	1527.90	1528.05	0.15	0.16	0.13	<0.01	0.024	0.061	0.009	2520	2680	0.142	0.036	FSS,CALC
8	1528.05	1528.25	0.20	0.65	0.59	0.16	0.130	0.059	0.012	2510	2670	0.245	0.113	FSS,CALC
9	1528.25	1528.45	0.20	0.82	0.61	0.12	0.164	0.072	0.014	2490	2680	0.160	0.093	FSS,CALC,HF
10	1528.45	1528.70	0.25	0.64	0.64	0.04	0.160	0.075	0.019	2480	2680	0.193	0.030	FSS,CALC,HF
11	1528.70	1528.90	0.20	0.81	0.81	<0.01	0.162	0.034	0.007	2610	2700	0.340	0.065	FSS,CALC,HF
12	1528.90	1529.10	0.20	*	0.33	*	0.066	0.054	0.011	2540	2680	0.053	0.041	FSS,CALC,OVF
13	1529.10	1529.35	0.25	0.81	0.02	0.38	0.203	0.026	0.006	2610	2680	0.111	0.085	FSS,CALC,UF

C H E M I C A L & G E O L O G I C A L L A B O R A T O R I E S L T D .

COMPANY: HOME OIL COMPANY LIMITED

WELL: HOME SILT LAKE A-64 (NWT)

PAGE: 3

LAB NO: C84-2545

[illegible]

CHEMICAL & GEOLOGICAL LABORATORIES LTD.

4605-12 STREET NE CALGARY ALBERTA T2E 4R1



TELEPHONE
403-272-0725

LAB REPORT NO: C84-2545

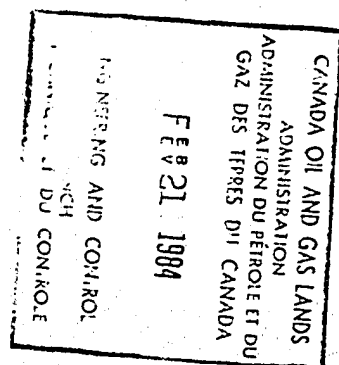
Home Silt Lake A-64 (NWT)

Core #1 1514.00 - 1532.00 M Slave Point (18.00 M) Red.: 18.00 M

1514.00-1524.30 M (10.30 M): Limestone, medium to dark grey, locally grey/brown, predominantly very fine to finely crystalline, commonly crypto crystalline, slight to moderately argillaceous with rare silt to very fine quartz inclusions, dense and tight. Common medium grey limestone and clasts, rare dolomite, locally in excess of width of core (10 cm.) Common argillaceous and carbonaceous round to subround and micro laminations, locally grading to well developed stylolites. Bedding is generally poorly defined, but essentially horizontal, but micro laminations are locally draped over the larger clasts. Sporadic brachiopods, minor algal structures up to 5 cm diameter, local horizons of amphipore-no interval structure, possibly pissolitic. Minor dark brown chert horizon at 1521.7 M, 6 cm thick, slightly calcareous and vitreous to micro crystalline. Chert probably large elongate nodule, marked at top and bottom by moderately well developed stylolites.

1524.30-1529.20 M (4.90 M): Limestone, grey/brown and dark brown, very fine to finely crystalline, clean to slightly argillaceous with poor and locally fair intercrystalline poor porosity. Upper 1.5 M of interval shows abundant stylolites and common clasts up to 4 cm in long axis. Sporadic horizons of poorly preserved shell fragments. Common argillaceous/carbonaceous micro laminations, essentially horizontal, commonly discontinuous, local wavy bedding.

1529.20-1532.00 M (2.80 M): Limestone, dark brown, predominantly very finely crystalline, commonly crypto and finely crystalline, slight to moderately argillaceous with poor and locally fair pin point and intercrystalline porosity to base. Sporadic poorly developed stylolites, becoming common to base. Scattered limestone clasts up to 5 cm in long axis.



CHEMICAL & GEOLOGICAL LABORATORIES LTD.

4605-12 STREET NE CALGARY ALBERTA T2E 4R1



TELEPHONE:
403-277-0725

LAB REPORT NO: C84-2545

Home Silt Lake A-64 (NWT)

Core #2 1532.00 - 1550.00 M Slave Point (18.00 M) Rec.: 15.50 M

1532.00-1535.00 M (3.00 M): Limestone, medium to dark brown, predominantly crypto and commonly micro to very finely crystalline, slight to moderately argillaceous and light to scattered fair intra fossil and vuggy porosity. Rare vugs, filled with anhydritic dolomite and calcite, with minor porosity. Local horizons of scattered shells, solitary corals and rare stromatopora filled and replaced by limestone, rare fair porosity. Scattered well developed stylolites. Top of interval marked by slicken-sided stylolite. Common subangular to subrounded limestone clasts, locally up to 5 cm diameter and locally highly abundant with a poorly developed bedded appearance. Local abundant fractures, vertical and horizontal, both lined and healed with calcite.

1535.00-1539.50 M (4.50 M): Limestone, dark brown, crypto to finely crystalline, dolomitic, slight to moderately argillaceous and tight to very poor inter-crystalline porosity. Scattered poorly preserved shell fragments. Common argillaceous/carbonaceous micro laminations throughout, essentially horizontal. Common amphipora horizons, with associated scattered limestone clasts commonly showing concentric banding ? algal in origin.

1539.50-1540.10 M (0.60 M): Limestone, brown, crypto to finely crystalline, dolomitic, dense and tight. Strongly turbated with common pissolites and clasts up to 7 cm diameter, generally dark brown limestone, crypto to very finely crystalline, dolomitic and tight. Common poor to well developed stylolites. Minor amphipora.

1540.10-1547.60 M (7.50 M): Limestone, dark brown, predominantly crypto crystalline, slight to moderately argillaceous, slightly dolomite and generally tight. Upper 1 M has minor calcite filled vug system and random calcite healed and lined micro fractures (? solution fractures of vug system), very fine to medium crystalline with minor intercrystalline and fracture porosity. Trace poorly preserved shell fragments. Scattered calcite filled pin point porosity. Sporadic poorly defined limestone clasts, up to 1 cm diameter. Lower section has abundant essentially horizontal argillaceous/carbonaceous micro laminations locally grading to poorly developed stylolites.

CHEMICAL & GEOLOGICAL LABORATORIES LTD.

COMPANY: HOME OIL COMPANY LIMITED

PAGE: 6

WELL: Home Silt Lake
A-64

LAB NO: C84-2545

RADIOACTIVITY LOG

VERTICAL SCALE 1 : 240

T.C. 15 SEC.

SENS. 6000 CPM

1514.00

1547.60



CHEMICAL & GEOLOGICAL LABORATORIES LTD.

EDMONTON FORT ST. JOHN CALGARY



WELL NAME Home Silt Lake A-64 (NWT)

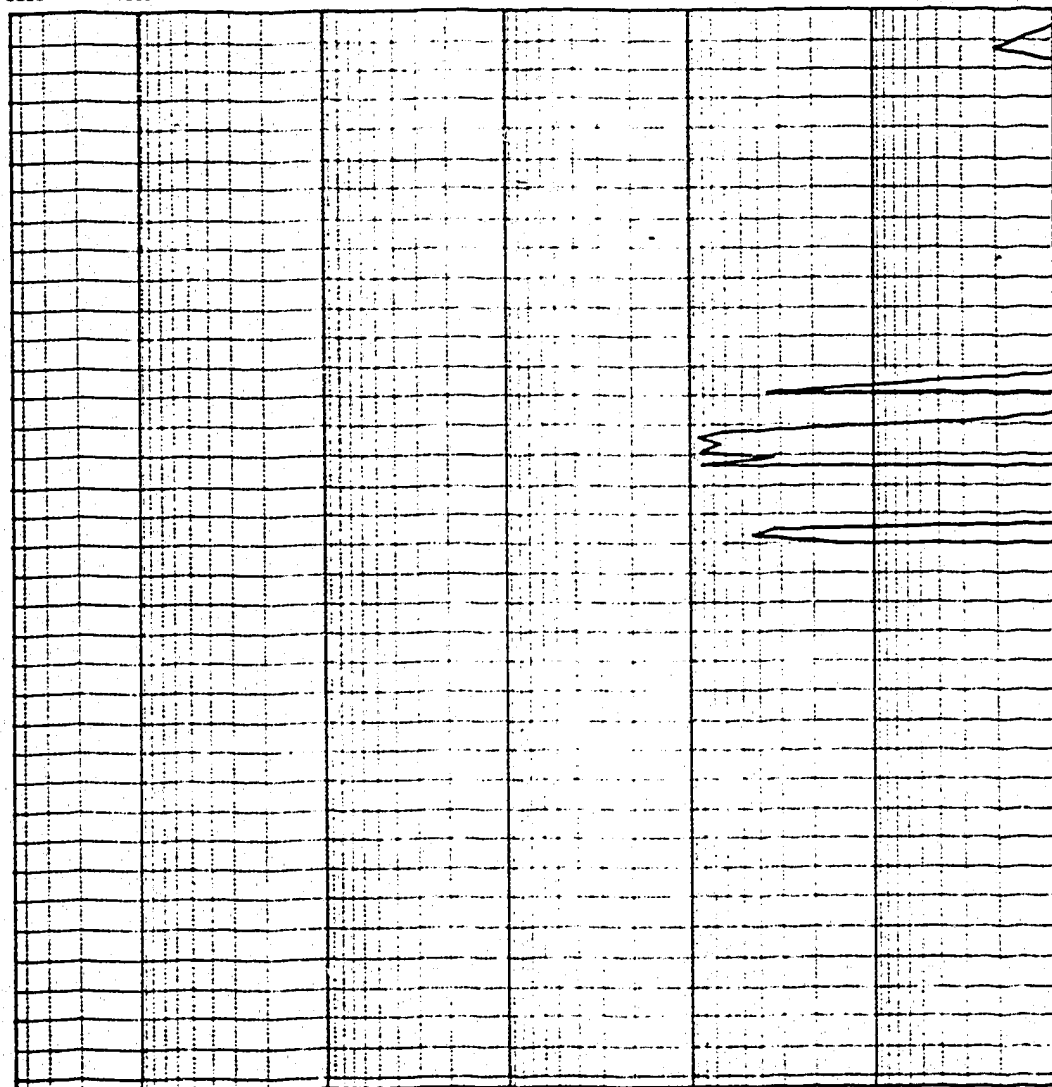
LAB. NUMBER C84-2545

FORMATION Slave Point

CORED INTERVAL 1514.00 to 1550.00

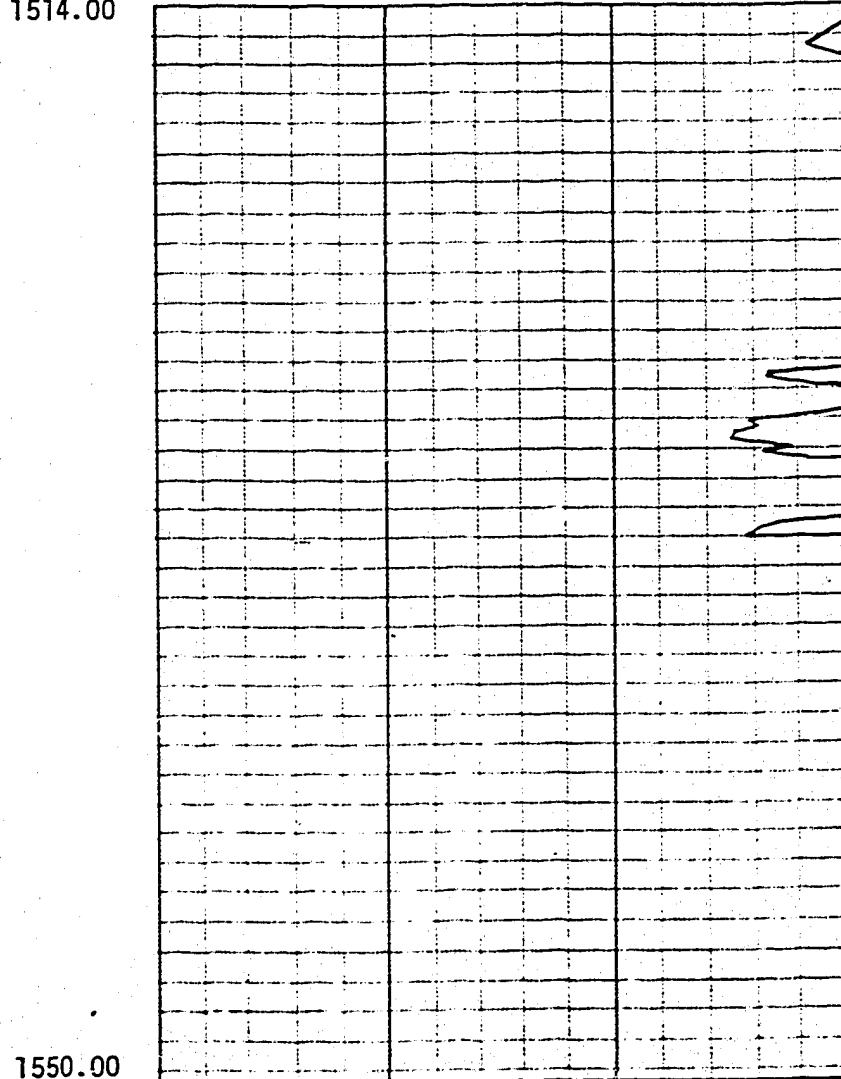
PERMEABILITY

5000 1000 100 10 1 0.1 0.01



POROSITY

1514.00 0.45 0.30 0.15 0



CHEMICAL & GEOLOGICAL LABORATORIES LIMITED

CORE DESCRIPTION SYMBOLS

A	Anhydrite	I	Intergranular	SH	Shale
AMPH	Amphipora	INB	Interbedded	SHL	Shale Lenses
ANG	Angular			SHY	Shaly
ARGIL	Argillaceous	KA	Kaolinite	SIL	Siltstone
AREN	Arenaceous			SL/	Slightly
		LAM	Laminations	SL	Sand Lenses
BD	Bands	LS	Limestone	SP	Small Plug
BLSH	Black Shale	LV	Large Vugs	ST	Stylolite
BN	Bentonite			STK	Streaks
BR	Brecciated	M	Medium	SUBRND	Subrounded
BT	Buttoned	MSS	Medium Sandstone	SUBANG	Subangular
		MUDST	Mudstone	SV	Slightly Vuggy
				STROM	Stromatoporoid
C	Coarse				
CA	Calcite	NR	Not reactive to cold 15% HCl	TR	Trace
CARB	Carbonaceous	NA	Not analyzed by customers request		
CG	Conglomerate			U	Unconsolidated
CH	Chert				
CM	Cement	O	Open	V	Vuggy
CO	Coralline Fragments	OB	Overburden	VC	Vertical Crack
CSS	Coarse Sandstone	OCC	Occasional	VF	Vertical Fracture
CALC	Calcareous	OOL	Oolitic	V.F.	Very Fine
				VFSS	Very Fine Sandstone
DE	Dense	PPV	Pin Point Vugs		
DOL	Dolomite	PTSL	Paper-thin Shale Laminations	XL	Crystals
DF	Diagonal Fracture	PY	Pyrites	XLN	Crystalline
		PYB	Pyrobitumen		
F	Fine			*	Broken Core (K90° used summary purpose)
FE	Ironstone	R1	Slightly reactive to cold 15% HCl		
FG	Fragmental	R2	Reactive to cold 15% HCl	**	Permeability > 30,000 m
FOSS	Fossiliferous	RC	Random Cracks		
FSL	Fine Sand Lenses	RF	Random Fractures	-.01	Permeability < .01
FSS	Fine Sandstone	RND	Rounded		
FD	Full Diameter	RU	Rubble		
GL	Glauconitic	S	Stained		
		SD	Sand		
HC	Horizontal Crack	SDY	Sandy		
HF	Horizontal Fracture				

KH and K90° are transverse permeability measurements on full diameter samples.



Canada Oil and Gas
Lands Administration

Administration du pétrole
et du gaz des terres du Canada

MF

Nova Scotia	☐	West Coast	☐	Well Status	
Newfoundland	☐	Northern	☒	Suspended	☒
Gulf of St. Lawrence	☐	Hudson Bay	☐	Completed	☐
				Abandoned	☐

APPLICATION TO ALTER CONDITION OF A WELL

This application form is to be submitted in triplicate to the District Conservation Engineer at least 45 days before commencement of operations.

Well Name: HOME SILT LAKE H-64 Area: North West Territories
Coordinates: Lat: 60° 3' 16" North Long: 118° 56' 36.4" West
Operator: Coho Resources Limited Contractor: Hi-Tower Drilling
Drilling Rig or Unit: Hi-Tower Rig #17 Depth: 1833 metres
Date ATDW Issued: December 19, 1983 Date of Last Operation: February 4, 1984
UWI: 300H646010118450

TYPE OF OPERATION

Abandon the well as per Canada Oil and Gas Lands Administration's request.

SUMMARY OF PROPOSED OPERATIONS

- (1) Cut casing off 1.0 metre below ground level.
- (2) Dump bail 10 metres of cement in production casing.
- (3) Weld on steel plates over production and surface casing.
- (4) A steel marker painted iridescent orange welded to the casing extending 1.5 metres above ground level with a 500mm x 300mm steel plate with the well name and coordinates bead-welded.
- (5) Location restored to original condition.

Signed: *R. J. [Signature]* Title: Operations Manager
Date: June 6, 1990 Company: Coho Resources Limited

APPROVAL

An approved copy of this notice should be posted at each wellsite.

Signed: *[Signature]*
Conservation Engineer
Date: 90-06-22
ATDW No: 1121 File: 9211-H5-1-1...
WID 1352

Department of Energy,
Mines and Resources

Ministère de l'Énergie,
des Mines et des Ressources

Department of Indian Affairs
and Northern Development

Ministère des Affaires indiennes
et du Nord canadien

Canada



Nova Scotia ☐
Newfoundland ☐
Gulf of St. Lawrence ☐

West Coast ☐
Northern ☒
Hudson Bay ☐

Well Status
Suspended ☐
Completed ☒
Abandoned ☐

WELL TERMINATION RECORD

This record is submitted in triplicate in compliance with Section 184 of the Canada Oil and Gas Drilling Regulations.

WELL DATA

Well Name: HOME SILT LAKE H-64 Area: North West Territories
Grid Area: 60-10-118-45 Field/Pool: Silt Lake
Permit or Lease No.: 173 Final Coordinates: Lat.: 60°3'16" North Long: 118°56'36.4" West
Drilling Unit: Hi-Tower No. 17 Elevations-RT/KB: 623.47m SF/GL: 619m
Spud Date: December 29, 1983 Rig Released: February 4, 1984 Total Depth: 1833m

CASING AND CEMENTING

O.D.	Weight	Grade	Depth Set	Cement and Additives
339.7mm	71.4 kg/m	H-47	132.66m	15.5 T 0:1:0 "G" + 2% CaCl ₂
244.5mm	53.57 kg/m	K-55	481.26m	22.0 T 1:1:0 + 2% CaCl ₂ + .5% CFR-2
139.7mm	23.07	J-55	1832.70m	3m ³ SAAP wash with 22 T 0:1:0 + .75% CFR-2 + .3% HR-4 and 37.4 T U:1:4 + .5% CFR-2

PLUGGING PROGRAM

Approval of the following program was obtained by (person) Ron Tiefenbach from
(person) Maurice Thomas of the Canada Oil and Gas Lands Administration by means of
Letter on June 22, 1990.

Type of Plug	Interval	Felt	Cement and Additives
Cement	15.4 - 5.4m K.B.	Observed at	0:1:0 Class "A"
		1500 hrs 90-08-30	

The casing was cut 1 metre below ground level and a steel plate was welded in place when abandoned on 90-08-30.

Lost Circulation/Overpressure Zones: Lost circulation at 1645m (Upper Keg River)

Equipment left on Seafloor (Describe):

Provision for Re-entry (Describe and attach sketch): None

Cores: Type: Whole Intervals: 1514 - 1532m K.B. Recovered 18m

Whole 1532 - 1550m K.B. Recovered 15.5m

Other Downhole Completion/Suspension Equipment: None

CERTIFICATION

I certify on the basis of personal knowledge of operations undertaken at the above named well that the above information is accurate.

Signed: R.A. Kruger P. Eng.
Name: R.A. Kruger

Title: Senior Engineer
Date: September 11, 1991

Acknowledged by: [Signature]
Engineering Branch

Date: 91-09-26 Sep

File: 9211-H5-1-1

Department of Energy,
Mines and Resources

Ministère de l'Énergie,
des Mines et des Ressources

Department of Indian Affairs
and Northern Development

Ministère des Affaires indiennes
et du Nord canadien

Canada