

Shell Tree River F-57.

Drilling Authority No. 454
Date Issued 26 October 1970

WELL NAME Shell Tree River F-57

FIELD Area:

LOCATION: Unit F 27.241 Section 57 Grid 67-10 132-15
Latitude 67-06-25.536 -- Longitude 132-25-40.204 411
U.W.L.R. 67.10786 -- 132.42789
U.W.I. 300F576710132150

Rig Release Date:

Status:

Information Release Date:

CHANGE OF NAME:

DATE RECEIVED	INDEX
26-10-70	Application for a Drilling Authority.
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	Well History Report.
10-11-70	Application to Amend a Drilling Authority.
	Application to change a Well Name.
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	Well History Supplement.
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	Well Inspection Report.
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	Equipment Report.
	Well Card.
	New Service Well Report.
	Monthly Water Flood Operations Report
	Monthly Water Receipts and Disposal of Fluids Report
	Logs. Large scale..... Small scale.....



Drilling Authority No. 454
Date Issued 26th October 1970

DEPARTMENT OF INDIAN AFFAIRS AND NORTHERN DEVELOPMENT
RESOURCE MANAGEMENT DIVISION

WELL COMPLETION DATA

To be submitted in duplicate within thirty days after the completion, rework, abandonment, recompletion or suspension of every well.

Well name and number Shell Tree River F-57
Permit No. 6492 Lease No. _____
Shell Canada Ltd. & Shell Explorer Exploratory Licence No. 108 and 116
(Permittee, Licensee, Lessee) Ltd.
Shell Canada Limited Exploratory Licence No. 108
(Operator)

Location: Unit F Section 57 Grid 67°10' 132°15'
Latitude 67°06' 27.241"N. Longitude 132° 25' 40.411" W.
From Established Reference Marker PMO-79
Universal Well Location Reference Lat. 67.10756°N., Long. 132.42789°W.

	DATE	DEPTH	Pool(s)
Spudded	11/10/70		Interval(s) open to production
Suspended			
Resumed Operations			
Finished Drilling	12/8/70	6495 Driller	
Deepened		6492' Logger	Elevation: Gr. 289 K.B. 305
Complete (gas/oil)			Rig No. 11
Abandoned	12/12/70	6495	Drilling Contractor <u>Gustavson Drilling Ltd.</u>
Rig released	12/12/70	6495	Contractor's Business Licence No. 0832

CASING RECORD

Casing Size (Inches)	Grade	Weight	Amount	Set at -	Sacks of Cement and Additives
1. 9 5/8"	K-55	36#	25 jts.	808'	756 sacks of
2.					permafrost cement
3.					
4.					
5.					
6.					

GEOLOGICAL TOPS	ELEVATION		CORE RECORD					
	Depth	Sub-Sea	From	To	Rec.	From	To	Rec.
Imperial	100	+205	3820	3850	30'			
Canol	2305	-2000	4088	4102	13'			
Hume	2570	-2265	6125	6135	4'			
Bear Rock	2885	-2580						
Delorme	4460	-4155						
Mt. Kindle	5312	-5007						

LOG RECORD

Run No.	Type of Log	From	To
1	Microlog-Caliper	808	6491
1	Borehole-Sonic	808	6490
1	Sidewall Neutron		
	Porosity	808	6491
1	Dual Induction		
	Laterolog	808	6488
1	Formation Density	191	6491
	Seismic Reference Survey		

CEMENTING RECORD (Plug, Squeeze, etc.)				PERFORATING RECORD (Bullet, Jet)				SERVICING RECORD (Acidizing, Fracing, etc.)			
Date	From	To	Remarks	Date	From	To	Remarks	Date	From	To	Remarks
Dec. 11/70	5950	6495	300 sacks of cement								
Dec. 11/70	4981	5200	150 sacks of cement								
			Felt at 4981'								
Dec. 12/70	737	900	150 sacks of cement								
			Felt at 737'								
Dec. 12/70	Surface		10 sacks of cement								
			A 1/2" plate was								
			welded on top of the casing and a								
			riser with identification marker								
			was installed.								

DRILL STEM TESTS

No.	Date	Formation	From	To	V.O. Mins.	I.S.I. Mins.	F.S.I. Mins.	I.S.I.B.H.P.	F.S.I.B.H.P.	L.F.B.H.P.	F.F.B.H.P.	L.H.P.	F.H.P.	REMARKS
01	11/27/70	Bear Rock	3996	4112	60	15	90	1011	1011	1011	1011	1069	1056	Tool Plugging Off Recovered 90' inhibited water and 370' muddy water

ANALYSIS				PRESENT STATUS OF WELL			
Lab. No.	Sample	From	To	Source	Remarks	Oil	(Interval)
269	Muddy Salt Water Core #1 Core #2 Core #3	3996 3820 4088 6125	4112 3850 4102 6135	Top of DST Top	Recovered 30 ft. Recovered 13 ft. Recovered 4 ft.		
						Gas	(Interval)
						Dry	
						Susp.	

Company **Shell Canada Limited**

Signed by *P. J. Ben*

Title **Manager, Edmonton Division**

Date

Forms to be prepared in duplicate and forwarded to the Oil
Conservation Engineer, Calgary, Alberta.



File No.....
Drilling Authority No.....454.....

DEPARTMENT OF INDIAN AFFAIRS AND NORTHERN DEVELOPMENT
OIL AND MINERAL DIVISION

Application to Abandon a Well ~~on Suspended Drilling~~

In compliance with the "Canada Oil and Gas Land Regulations", application is hereby made for approval to abandon, to suspend drilling:—

Name and number of well.....Shell Tree River F-57.....
Location: Unit.....F.....Section.....57.....Grid (67°10'N. 132°15'W.)
Latitude 67°06' 27.241" N. Longitude 132°25' 40.411" W.
From Established Reference Marker.....PMO-79.....
Universal Well Location Reference.....Lat. 67.10756°N. Long. 132.42789°W.
Permit No.....5492.....Lease No.....NTR-743.....

Shell Canada Limited
(Permitter, Licensee, Lessee)

Date of commencement of proposed program.....

OIL, GAS, AND WATER ENCOUNTERED
(Depths)

Oil at.....
Gas at.....
Water at.....3996' - 4112'
Total Depth.....6495.....Date of last operations.....December 1970
Present condition of well.....

CASING RECORD

Casing Size O.D. Inches	Weight	Amount	Set At—	Sacks of Cement and Additives	Amount Pulled
1. 9 5/8"	36 1/2	25 jts.	803'	756 sacks of	
2.				permafrost cement	
3.					
4.					
5.					

PROPOSED ABANDONMENT PROGRAM

Plug		Geological Formation	Number of Sacks of Cement	Remarks
No.	Position			
1	5950-6495	Mt. Kindle	300	
2	5000-5200	Delorme	150	Feel
3	700-900	Imperial	150	Feel
4	Surface		5	Permanently marked pipe.

The following logs have been run. SNP, BHCS-GR-C, FDC-GR, DILL, SLC

Other operations proposed.....

Operations to be carried out by.....Gustavson.....Contractor Licence No. 0832
Address.....9825 - 60 Ave. Edmonton, Alberta.....Address.....Box 186, Edmonton, Alberta
Responsible Agent in field.....D. Brown.....
Dated at.....Edmonton, Alberta.....this.....11th.....Day of.....December.....1970
Signed by.....P. J. Benn.....for.....Company.....Shell Canada Ltd.
Title.....Manager, Edmtn. Div. Prod. Operator's Exploratory Licence No. 108
Note:—The Oil Conservation Engineer's office must be notified before work is commenced.

(For OIL AND MINERAL DIVISION use only)

APPROVAL

This application has been examined and proposed programme approved, subject to the following conditions:

Confirming or approval given by Mr. G. E. Hine on the
11th December 1970, including that Plugs Nos. 2 and 3 are
to be felt.

Dated.....22nd December....., 1970

B. J. Hines
Oil Conservation Engineer

LAND 52-90 (5) (2-69)

Forms to be submitted in triplicate to Oil Conservation Engineer,
Department of Indian Affairs and Northern Development, Calgary, Alberta.

File No.....

Drilling Authority No.....454.....



DEPARTMENT OF INDIAN AFFAIRS AND NORTHERN DEVELOPMENT
RESOURCE MANAGEMENT DIVISION

Application to Amend a Drilling Authority

This application, in triplicate, must be submitted and approved before commencing operations. If the well location is changed, this application must be accompanied where required, with a plan of survey approved by the Surveyor General.

In compliance with the "Canada Oil and Gas Land Regulations", application is hereby made to amend Drilling Authority No.....454....., concerning Shell Tree River P-57

(Name and Number of Well)

The following amendments are required:

Change Well Location from: Lat. 67°06' 25.539"N.

Long. 132°25' 40.204"W.

to: Lat. 67°06' 27.241"N.

Long. 132°25' 40.411"W.

Change of Universal Well Location Reference:

From: Lat. 67.10709°N., Long. 132.42784°W.

to: Lat. 67.10756°N., Long. 132.42789°W.

Unique Well Identifier Remains Unchanged.

Reasons for the amendments:

Survey for this well has now been completed.

Dated at Edmonton, Alberta, this 9th day of November, 19 70

Signed by P.J. Benn (P.J. BENN)

Title Manager, Edmonton Division Production

Company Shell Canada Limited

(For Resource Management Division use only)

APPROVED

This application has been examined and approved subject to the following conditions:

Date 10th November, 19 70

B.H. Shoms
Oil Conservation Engineer

Forms to be submitted to the Oil Conservation Engineer,
Department of Indian Affairs and Northern Development, Calgary, Alberta.

SHELL CANADA LIMITED

PLAN SHOWING SURVEY
OF

SHELL *Tree River F-57*

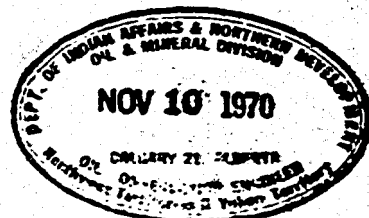
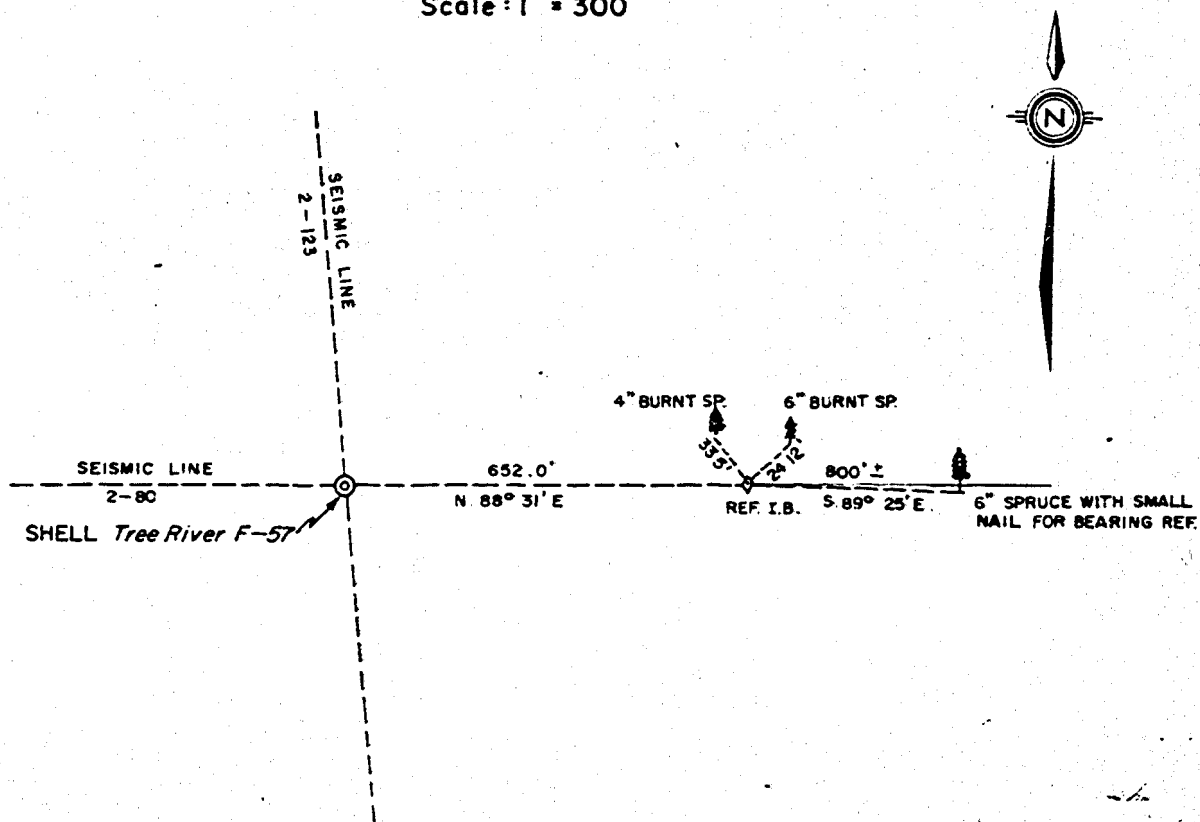
IN

UNIT F SECTION 57 GRID AREA 67°10', 132°15'.

LATITUDE 67°06' 27.241", LONGITUDE 132° 25' 40.411"

NOV. 1970

Scale: 1" = 300'



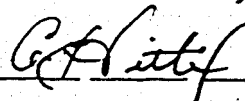
LEGEND

Iron Bar Planted shown thus 
Bearing Referred to 132° Meridian of Longitude.

GROUND ELEVATION 289.0'

WELL LOCATION SURVEYED FROM SEISMIC
INFORMATION WITH DATUM USING SHELL
TELLUROMETER TRAVERSE JULY, 1969
AND GEODETIC STA. "THUNDER."

I certify that the survey represented by this plan
is correct and true to the best of my knowledge and
was completed on the 26th day of October, 1970.



A.L.S.

Drilling Authority No. 454

Project No.

File No.

DEPARTMENT OF INDIAN AFFAIRS AND NORTHERN DEVELOPMENT
RESOURCE MANAGEMENT DIVISION**Application for a Drilling Authority**

This notice of intention to begin drilling operations, in triplicate, and where required a plan of survey approved by the Surveyor General showing the target area or the site of the well must be submitted and approved before commencing operations.

In compliance with the "Canada Oil and Gas Land Regulations", application is hereby made for approval to drill:—

Name and number of well Shell Tree River F-57
Location: Unit F Section 57 Grid (67°10'N, 132°15'W)
Latitude 67°06' 25.539"N Longitude 132°25' 40.204"W
From Established Reference Marker PMD - 79
Universal Well Location Reference Lat. 67.10709°N Long. 132.42784°W
Elevation: Ground 330' (Est.) K.B. 344' (Est.) feet above sea-level.
Well is expected to produce from Bonning formation at a depth
of about 5,000 feet. Expected total final depth 6,500
Area assigned to well
(for Oil Conservation Engineer's use only)

Permit No. 6492 Lease No. 116 Acreage 49,920
Permittee, licensee, or lessee Shell Canada Limited and Shell Explorer Ltd.
Exploratory Licence No. 108
Surface owned by Crown or
(If alienated submit name and address of owner and occupant.)
Petroleum and natural-gas rights owned by Crown

We propose to use the following strings of casing, either cementing or landing them as indicated below:—

Casing Size O.D. (Inches)	Weight (Lb./Ft.)	Grade	New or Used	Estimated Depth	Sacks of Cement
1. <u>9 5/8"</u>	<u>36#</u>	<u>K-55</u>	<u>New</u>	<u>800</u>	<u>500 Sx.</u>
2.					
3.					
4.					
5.					

Expected water, gas, and oil horizons and type of control equipment Unknown
10" Hydril, Double Ram (10") BOP's

Well will be drilled with Rotary Rig No. 11 by Gustavson
(Drilling Contractor or company)

Responsible agent of applicant:— Contractor's business Licence No. 0832
At well D. Brown At registered office D.S. Fleming
Address Box 186, Edmonton Address Box 186, Edmonton, Alberta
It is understood that if changes become necessary, notice of the change of plan will be submitted.
Dated at Edmonton, Alberta, this 23rd day of October 19 70
Signed by _____ Company Shell Canada Limited
Title Manager, Edmonton Div. Prod. Operator's Licence No. 108

(For Resource Management Division use only)

APPROVED

This application has been examined and approved subject to the following conditions:—

- The Company will submit to this office, on Tuesday of each week, the latest reports received by radio on the progress of the well.
- During well drilling and testing operations, every effort shall be made to ensure

Dated 26th October 19 70 Please see other page

Forms to be submitted to Oil Conservation Engineer,
Department of Indian Affairs and Northern Development, Calgary, Alberta.

IAND 52-90-1 (3-67)

UNIQUE WELL IDENTIFIER - 300F576710132150

that drilling fluids, chemicals and wastes shall be disposed of or contained in a manner that will prevent the contamination of adjacent vegetation and surface or sub-surface waters.

3. We draw your attention to Sections 95 and 96 of the Canada Oil and Gas Land Regulations.
4. Any further strings of casing are to receive the approval of the Oil Conservation Engineer prior to running.


B.H.J. Thoms, Oil Conservation Engineer



File No.....
Drilling Authority No....454.....

DEPARTMENT OF INDIAN AFFAIRS AND NORTHERN DEVELOPMENT
OIL AND MINERAL DIVISION

WELL-SITE INSPECTION REPORT

FROM: Field Office or Area: INUVIK Date: 10th July 1971

TO: The Oil Conservation Engineer:

RE: SHELL TREE RIVER F-57 67-10-132-15

Location: 67.10756° N., 132.42789° W. Status: D&A 1970

This location was inspected by the undersigned on 10th July 1971

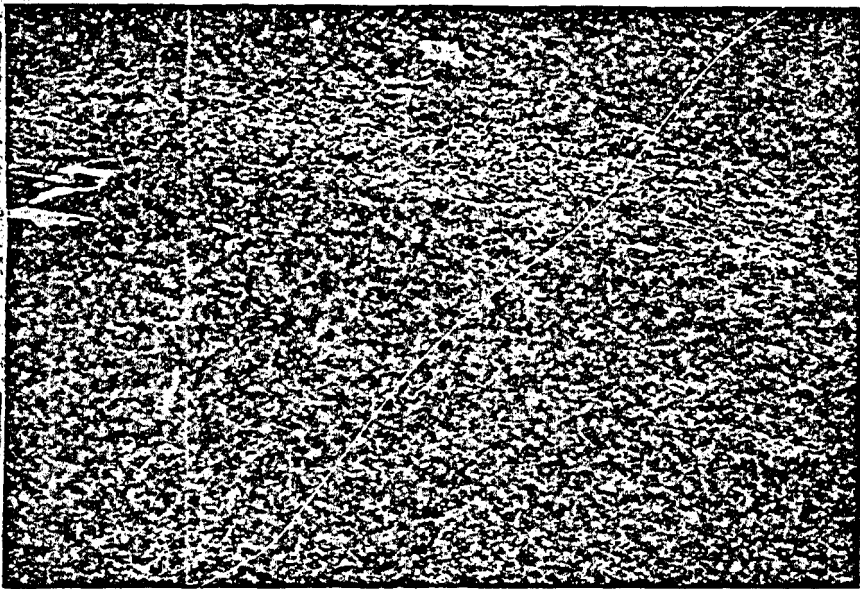
The location is in satisfactory/unsatisfactory condition. TD 6495'

The following items require attention:

1. Reweld plate on casing or set in concrete block above casing. Identifier
2. must be minimum of 4' above ground level.
3. Bury plastic sheeting.
4. Paint identifier pipe and plate fluorescent orange.
5. Remove timbers from around cellar and backfill.
6.

Other comments and recommendations: (Include Map, if necessary for clarity)

2" pipe bent and broken off.



Inspected by M. D. Thomas
M. D. Thomas, District 2

Original to Oil Conservation Engineer, Dept of IA & ND, Duplicate to Field Office or Inspecting Engineer.
AND 52-90-14 (2 of 6)

WELL HISTORY REPORT
SHELL TREE RIVER F-57

37-11-6-105

37-11-6-105



WELL HISTORY REPORT
SHELL TREE RIVER F-57

SHELL CANADA LIMITED

WELL HISTORY REPORT

SHELL TREE RIVER F-57

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SECTION I - SUMMARY OF WELL DATA(a) Well Name and Number

Shell Tree River F-57

(b) PermitteeShell Canada Limited,
P.O. Box 186,
Edmonton, Alberta

and

Shell Explorer Limited

(c) Name of Operator

Shell Canada Limited

(d) Location

Unit F, Section 57, Grid 67°10'N, 132°15'W.

Latitude: 67°06' 27.241"N.

Longitude: 132°25' 40.411"W.

Universal Well Location Reference:

Lat. 67.10756°N.

Long. 132.42789°W.

Unique Well Identifier: 300F576710132150

(e) Permit Number

6492

(f) Drilling Contractor

Gustavson Drilling (1964) Ltd. No. 11

(g) Drilling Authority Number

Drilling Authority No. 454

Issued October 26, 1970

(h) Classification

Wildcat

(i) Elevation

Ground Level 285'

Kelly Bushing 305'

(j) Date Spudded

November 10, 1970 at 8:00 A.M.

(k) Date Completed Drilling

December 8, 1970

(l) Total Depth

F.T.D. 6495' Driller; 6492' Logger

(m) Well Status

Abandoned

(n) Rig Released

December 12, 1970, 11:59 P.M.

(o) Hole Sizes

13 3/4" to 808' K.B.
8 3/4" to 6495' K.B.

(p) Casing

9 5/8", New K-55, 36#
Surface Casing Landed at 808' K.B.
Cemented with 756 sacks of permafrost
cement.

SECTION II - GEOLOGICAL SUMMARY

(a) Formation Tops

<u>Formation</u>	<u>Sample Tops</u>	<u>Log Top</u>
Imperial	100'	-
Canol	2340'	2305'
Hume	2580'	2570'
Bear Rock	2890'	2885'
Delorme	4450'	4460'
Mt. Kindle	5310'	5312'

(b) Cored Intervals

Core #1:
3820 - 3850, Bear Rock, Rec. 30'

Core #2:
4088 - 4102, Bear Rock, Rec. 13'

Core #3:
6125 - 6135, Mt. Kindle, Rec. 4'

(c) Core Description

Core #1: Dolomite, very fine, microfractures
closed with calcite

Coring Times

<u>Depth</u>	<u>Min./Ft.</u>
3820	
21	8
22	4.5
23	5
24	5
25	5.4
26	5.8
27	4.2
28	4.4
29	5.2
30	6.6
31	4.4
32	2.8
33	3.6
34	3.6
35	4.0

Coring Times

<u>Depth</u>	<u>Min./Ft.</u>
36	3.4
37	4.6
38	4.8
39	6.2
40	7.8
41	6.2
42	6.5
43	5.6
44	6.6
45	6.4
46	5.8
47	5.0
48	3.4
49	5.6
50	7.8

Core #2: Dolomite, grey, very fine, brecciated
microfractures closed with calcite,
trace of pyrite.

Coring Times

<u>Depth</u>	<u>Min./Ft.</u>
4088	
89	8
90	4
91	4
92	3
93	2.4
94	4.2
95	4.5
96	8
97	2.2
98	5
99	7.8
4100	5.2
01	9.5
02	4.4

Core #3: Dolomite, very fine, microfractures
closed with calcite

Coring Times

<u>Depth</u>	<u>Min./Ft.</u>
6125	
26	2
27	4.2
28	5
29	4
30	2.2
31	5
32	22
33	3
34	2.8
35	2.2

(d) Sample Description

0' - 100'	Glacial Till	Unconsolidated gravels with stringers of sandstone
100' - 2660'	Shale-Siltstone	Consolidated and siliceous traces of limestone
2660' - 2860'	Limestone	Traces of pyrite Minor amounts of shale.
2860' - 3060'	Shale-Limestone	Shale is slightly calcareous, closely interbedded with limestone.
3060' - 3240'	Shale-Limestone	Slightly to very argillaceous limestone interbedded with shale.
3240' - 3600'	Limestone	Clean limestone with minor amounts of slight to moderately argillaceous limestone. Trace of shale and sucrosic dolomite.
3600' - 3680'	Limestone	Clean to slightly argillaceous, trace of dolomite.
3680' - 3780'	Limestone-Dolomite	Clean limestone with slightly argillaceous dolomite.
3780' - 3690'	Dolomite	Traces of calcite
3960' - 4160'	Dolomite	Clean dolomite with minor amounts of limestone and trace of calcite.
4160' - 4500'	Dolomite	Clean to moderately argillaceous with traces of calcite and quartz crystals.
4500' - 4550'	Dolomite	Clean to slightly argillaceous with minor amounts of shale and trace of limestone
4550' - 4900'	Dolomite	Minor amounts of limestone, trace of pyrite.
4900' - 5190'	Dolomite	Minor amounts of siltstone, trace of pyrite and calcite

5190' - 5280'	Dolomite-Siltstone	Trace of calcite and shale.
5280' - 5610'	Dolomite	Slightly argillaceous, trace of limestone, calcite and chert.
5610' - 5880'	Dolomite	Moderately argillaceous, trace of pyrite and calcite.
5880' - 6495'	Dolomite	Clean to slightly argillaceous, trace of pyrite, trace of calcite.

(e) Paleontological Determinations

Nil

SECTION III - ENGINEERING SUMMARY

(a) Drill Stem Tests

<u>No.</u>	<u>Interval</u>	<u>Flow Rate & Recovery</u>	<u>IFP</u>	<u>FFP</u>	<u>ISIP/Time</u>	<u>FSIP/Time</u>
1	3996-4112	90' inhibited water, 370' muddy water, tool plugging off	1811	1811/ 60 mins.	1811/ 15 mins.	1811/90 mins.

(b) Casing Record

<u>Date</u>	<u>Size</u>	<u>Grade</u>	<u>Weight</u>	<u>Amount</u>	<u>Set At</u>
Nov. 16	9 5/8	K-55	36#	25 jts.	808'

Cemented with 756 sacks of permafrost cement.

(c) Bit Record

<u>No.</u>	<u>Size</u>	<u>Type</u>	<u>Depth Out</u>	<u>Footage</u>	<u>Time/Hours on Bottom</u>
1	8 3/4	S4T-J	256	256	13
2	8 3/4	X1G-J	615	359	14 1/2
3	8 3/4	DTJ	815	200	5 3/4
3A	13 3/4	Reamer	395	395	18 3/4
3B	13 3/4	Reamer	764	369	38 1/4
3C	13 3/4	Reamer	808	44	2 1/2
4	8 3/4	DTJ	2125	1310	20 3/4
5	8 3/4	STYAG	2455	330	15 3/4
6	8 3/4	XDU	2727	272	13
7	8 3/4	M4LG	3008	281	15 1/4
8	8 3/4	M4LG	3220	212	16 1/4
9	8 3/4	YMG	3345	125	9 1/2
10	8 3/4	M-88-J	3820	475	27 1/4
11	6 7/32	Diamond	3850	30	2 3/4
12	8 3/4	M-88-J	4088	238	8 1/4
13	6 7/32	Diamond	4102	14	1 1/2
14	8 3/4	M-88-J	4112	11	3/4
15	8 3/4	M-88-J	4262	150	5 1/2
16	8 3/4	M-88-J	4730	458	29
17	8 3/4	RG7XJ	5156	426	45 3/4
18	8 3/4	SCM5	5794	639	49
19	8 3/4	SCM5J	6120	326	27
20	8 3/4	M-88-J	6495	360	32 1/4

(d) Mud Record

	<u>Pounds</u>
Gel	94,400
Benex	252
Caustic	2,000
CMC	1,575
Soda Ash	700
Fiber	51 Sxs.
Peltex	500
Sawdust	115 Sxs.
Barite	7,000
Bicarb	200

(e) Deviation Record

<u>Depth</u>	<u>Deviation</u>	<u>Depth</u>	<u>Deviation</u>
110'	1/2°	2594'	1/8°
204'	1/2°	2846'	1/2°
287'	1 4/°	2990'	1/4°
349'	1°	3345'	0°
420'	7/8°	3800'	1/4°
482'	1°	4045'	1/4°
543'	3/4°	4242'	2°
624'	3/4°	4630'	1 1/2°
685'	3/4°	4730'	7/8°
745'	1°	4980'	7/8°
1010'	3/4°	5220'	1°
1228'	1°	5565'	2 3/4°
1463'	3/4°	5473'	2 1/2°
1651'	1/2°	5794'	4°
1905'	1/2°	5885'	4 1/2°
2125'	7/8°	5979'	4 1/8°
2369'	1/2°	6120'	4 1/8°
		6495'	4°

(f) Abandonment Plugs

<u>Plug Number</u>	<u>Interval</u>	<u>Sacks of Cement</u>
1	5950-6495	300
2	4981-5200	150
3	737-900	150
4	Surface	10

Plug #2 was felt at 4981'. Plug #3 was felt at 737'.
A 1/2" plate was welded on top of the casing and a
riser with identification marker was installed.

(g) Lost Circulation Zones

<u>Depth When Circulation Lost</u>	<u>Fluid Lost</u>
4120'	80 bbls. of mud
5425' - Lost 40 bbls. fluid	
(h) <u>Blowouts</u> 5650' - Lost 60 bbls. fluid	
Nil	

SECTION IV - LOGS

<u>Type</u>	<u>Interval</u>	<u>Date</u>
DILL	6488'-808'	December 10, 1970
BHCS-GR-C	6490'-808'	December 9, 1970
FDC-GR	6491'-191'	December 8, 1970
SNP	6491'-808'	December 8, 1970
MLC	6491'-808'	December 10, 1970
SRS		December 10, 1970

SECTION V - ANALYSIS(a) Core Analysis

See Appendix A

(b) Water Analysis

See Appendix B

(c) Gas Analysis

Nil

(d) Oil Analysis

Nil

SECTION VI - COMPLETION SUMMARY(a) Tubing Record

Nil

(b) Perforation Record

Nil

(c) Cementation

<u>Plug No.</u>	<u>Date</u>	<u>Plug Interval</u>	<u>Porous Interval</u>	<u>Sacks of Cement</u>	<u>Depth Felt</u>
1	12/11/70	5950-6495	6020-6495 5450-5750	300	-
2	12/11/70	4981-5200	3540-4450	150	4981
3	12/12/70	737-900		150	737
4	12/12/70	Surface		10	

A 1/2" plate was welded on top of the casing and a riser with identification marker was installed.

(d) Acidization and Fracturing

Nil

(e) Back Pressure and Production

Nil

D.S. Fleming
 ✓ D.S. Fleming, Manager
 Edmonton Division Production

APPENDIX "A"
CORE ANALYSES

Page 2 of 2

Date:

* Permeability measured along plan through orientation lines.

N.T.O.F.	- No test	open fracture
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SHELL CANADA LIMITED - PRODUCTION LABORATORY
CORE ANALYSIS REPORT

Page 1 of 1
Date: Dec. 1970.

WELL Shell Tree River F-57				KB 305.2'		FIELD Wildcat		CORED INTERVAL 6125.0 - 6135.0				RECOVERY 4.0		FORMATION Bear Rock		Devonian -	
Lab. No.	SECTION REPRESENTED		Interval	Ft.	Lithological Description	ORIENTATION	Porosity %	Kmax md	K90 md	Kvert md	G.D. gm/cc	Oil Sat'n % P.V.	Water Sat'n % P.V.	Fluor Cut	Remarks		
Core #3	6125.0 - 6135.0	4.0	Recovery														
X-6478	6125.0 - 25.5	0.5	DO, I, VF, A tr B				2.4	0.01			2.849			N	Badly Broken		
X-6479	25.5 - 25.9	0.4	DO, CA, I, VR, B tr D				1.3	0.02			2.848			N	"		
X-6480	25.9 - 26.3	0.4	DO, I, VF, A				2.1	0.01			2.847			N	"		
X-6481	26.3 - 26.8	0.5	DO, PB, I tr III/I, VM, A tr D				6.8	10.0	f		2.850			N	"		
X-6482	26.8 - 27.3	0.5	DO, PB, I, VF, A tr C				7.6	24.2	f		2.848			N	"		
X-6483	27.3 - 28.0	0.7	DO, I, VF, A tr D				5.4	49.9	f		2.848			N	"		
X-6484	28.0 - 29.0	1.0	DO, tr AN, I, VF, A														
	29.0 - 35.0	6.0	tr D				1.2	0.01			2.845			N	"	Lost Core	

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APPENDIX "B"

WATER ANALYSIS

SHELL CANADA LIMITED
PRODUCTION LABORATORY ANALYSIS REPORT
CALGARY, ALBERTA

Laboratory Number 269
WATER

Sample Received DECEMBER 1, 1970
Sample Analyzed DECEMBER 2, 1970
Results Reported DECEMBER 4, 1970

Well SHELL TREE RIVER F-57 67° 06' 25" N
132° 25' 10" W

GLACIER AREA, NW 1/4

Well K.B. G.L.
T.D. P.B.T.D.
Perforator O.H.
Sampled by R. COCHRANE
Date Nov. 29, 1970 Time

Lsd Sec Twp Rge W Formation
Method of production D3T #1 3996-4112'
DST Recovery SALT WATER WITH MUD OUT.
Sample obtained from TOP OF TOOL

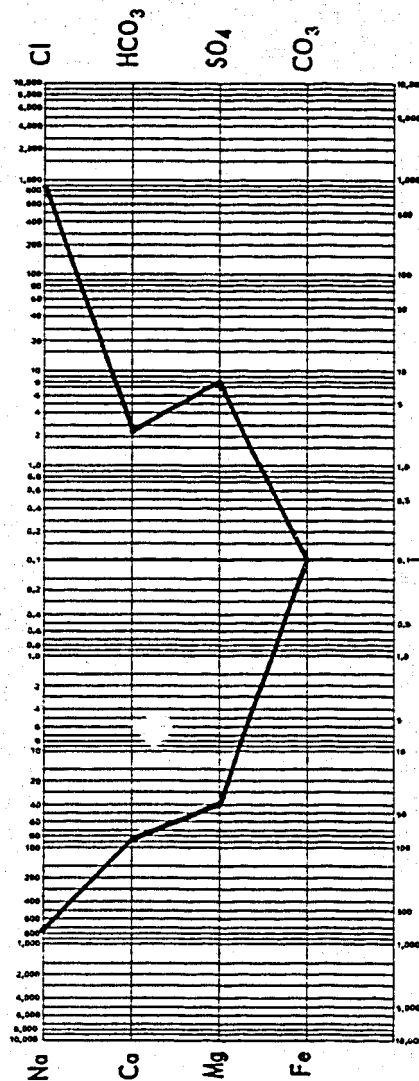
Specific Gravity at 60°F 1.0430 pH 7.2 Resistivity 0.164 ohm-m at 60°F H₂S NONE Calculated Total Solids 51,605 Mg/L

Mg./L	Calc. Na + K	Ca	Mg	Fe	CO ₃	HCO ₃	SO ₄	Cl
17,659	1688		483	NONE	0	140	359	31,276

MEQ./L								
767.80	84.23	39.72			0	2.29	7.48	881.98

MEQ. %								
43.05	4.72	2.23			0	0.13	0.42	49.45

Milliequivalents per Litre



Remarks: FILTER PRESS FILTRATE CLEAR,
WATER-WHITE, SLOWLY BECOMING
'MILKY'.

File Code No. 15-1100
Production Department, Calgary Area 1
Division Office N. Div. EXPLOR. 5
Production Laboratory, Calgary Area 2

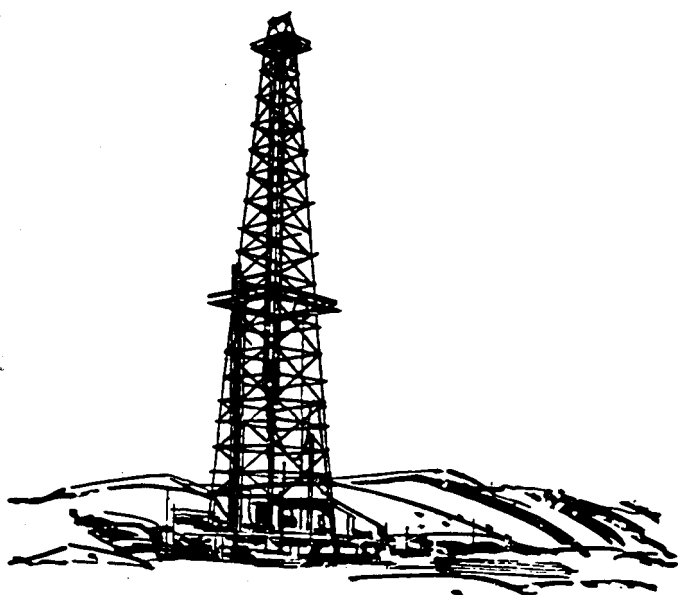
Chemist N.L. Johnson



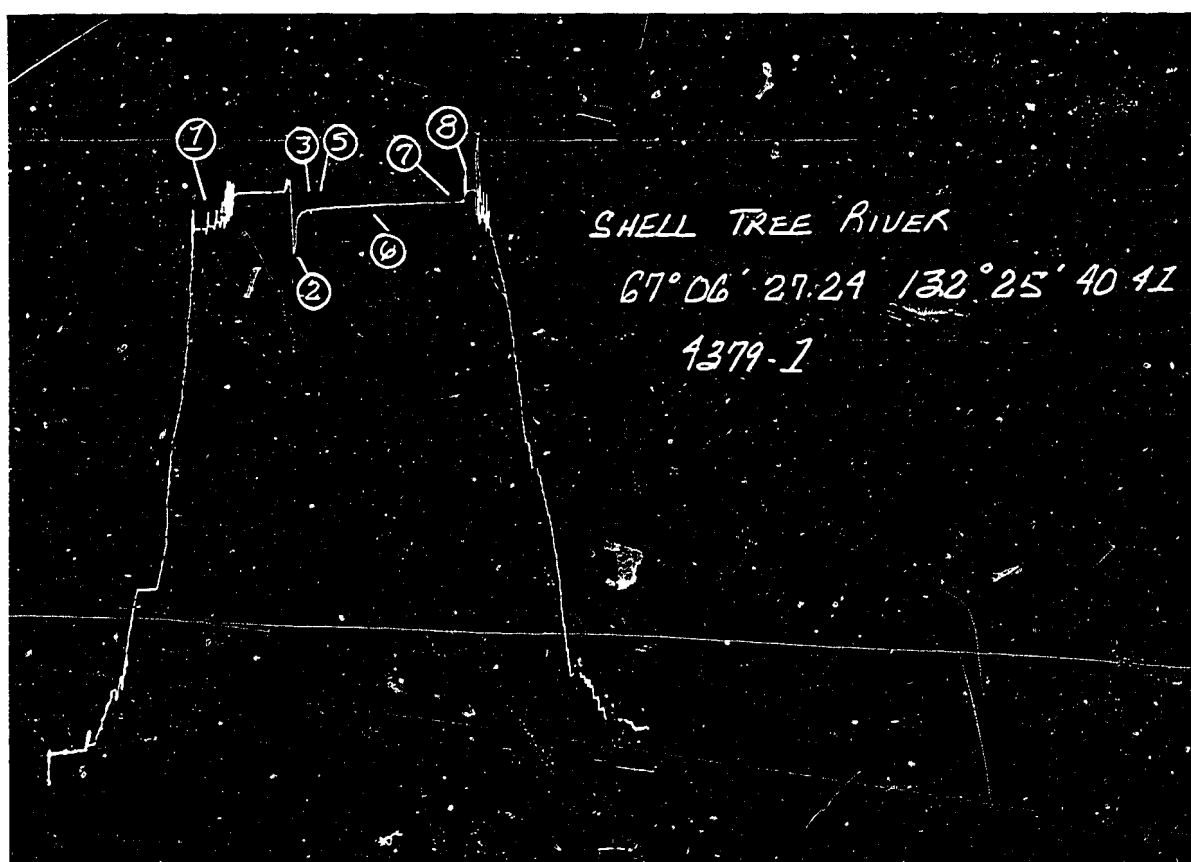
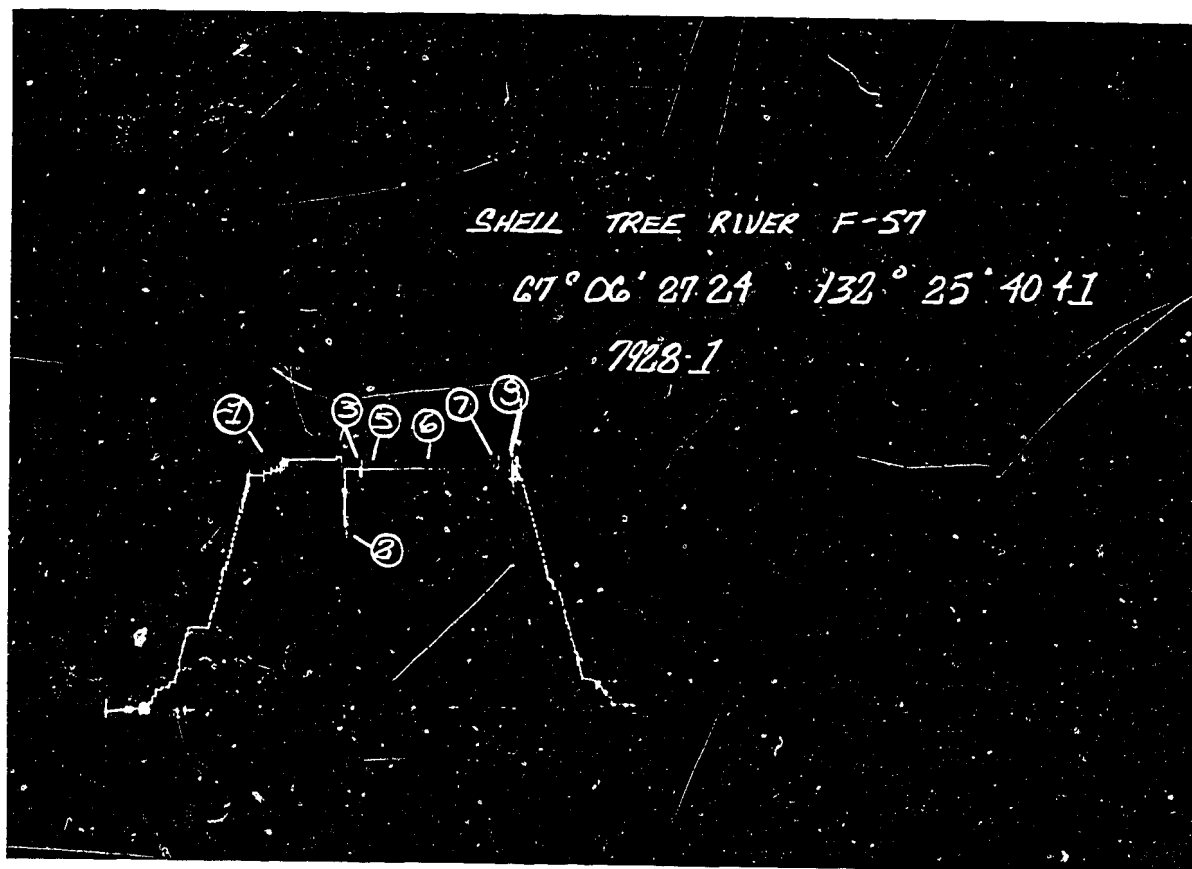
LYNES

BRIGHT NAME IN THE OIL PATCH

Inflatable and Conventional Packer Tools



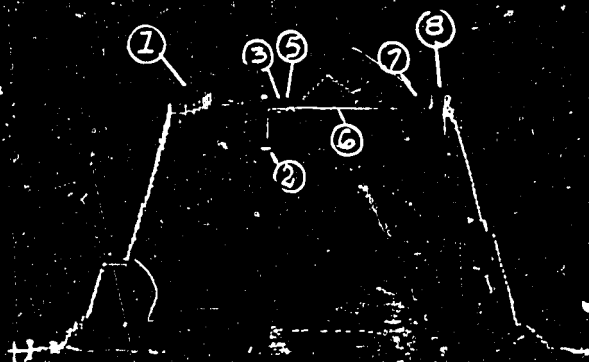
**DRILL STEM TEST
TECHNICAL SERVICE REPORT**



SHELL TREE RIVER F-57

67° 06' 27.21 132° 25' 40.41

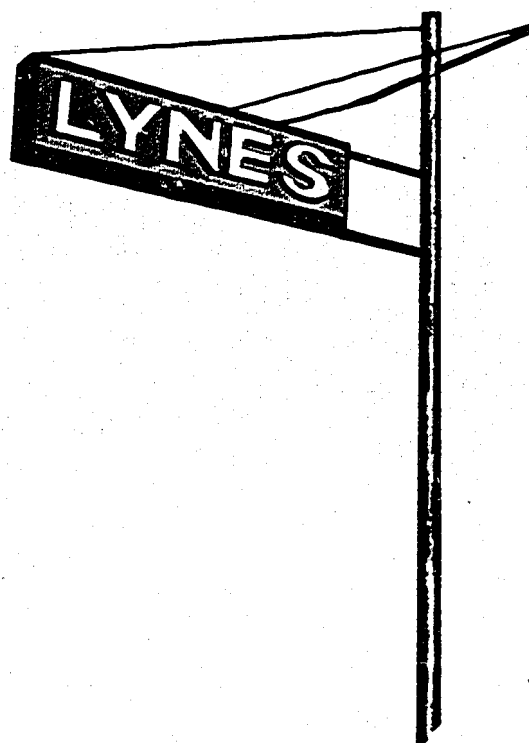
5725-1



SHELL TREE RIVER F-57

TEMP - 1.46133





LYNES UNITED SERVICES LTD. 262-4501 CALGARY, ALBERTA

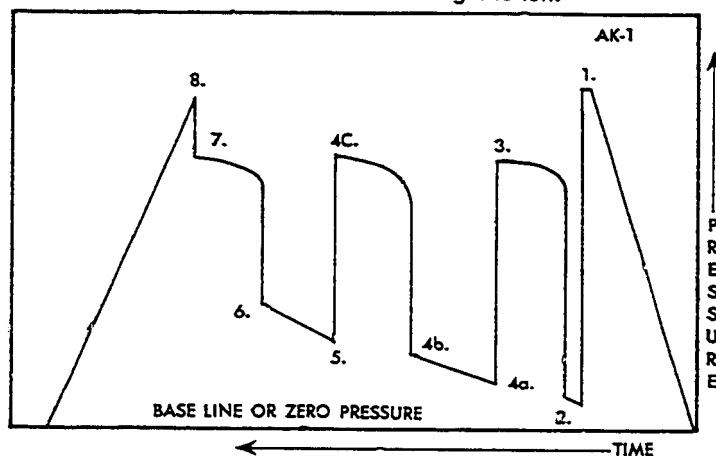
LYNES UNITED SERVICES LTD.

TEST DATA				Lynes Test		GENERAL INFORMATION	
Formation		T.D. 4112		Ft.		Company Shell Oil Canada Ltd.	
Interval Tested		3996		Ft. to 4112		Ft. Address Box 186	
Feet of Net Pay Tested		116		Ft.		Edmonton, Alberta	
Type of Test Dual Bottom Hole Conventional							
Cushion core ban and water		Amount 90		Ft.		Well Name Shell Tree River F-57	
Started in Hole at 4:00		Hrs. Tool Open at 8:00		Hrs.		Well Number 67° 06' 27.24 132° 25' 40.41	
Pre-Flow 3		Mins. Initial Shut-in 15		Mins.		K.B. Elevation 305.25 Sub-Sea Elevation	
2nd Flow		Mins. Second Shut-in		Mins.		Area Inuvik Province N.W.T.	
Final Flow 60		Mins. Final Shut-in 90		Mins.		Company Rep. D. Brown	
Remarks:				Tester J. Ross			
				Contractor Gustavson Ria No. 11			
				Ticket No. 1535 Date November 27/70			
Blows: Fair air blow on preflow.				Service Reports To:			
Weak air blow and decreasing				5 - above address			
throughout the test and dead in							
45 minutes.							
GAS BLOW MEASUREMENTS				MUD AND HOLE DATA			
Measured with				Mud Type Gel Chem			
				Weight 8.9 Viscosity 67 Water Loss 8.4			
				Filter Cake 2/32" Bottom Hole Temperature 1110			
Time	Surface Choke	Reading Inches	Cubic Feet/Day	Drill Pipe Size 4" FH Weight			
				Drill Collars 5" H90" I.D. 2 7/8" Feet Run 368			
				Main Hole or Casing Size 8 3/4"			
				Rathole or Liner Size No. of Feet			
				Bottom Hole Choke Size 3/4"			
				Surface Choke Size			
				Packer Rubber Size 7 3/4"			
				REMARKS Tool plugging off. Although			
				tool plugged off, shut-in			
				pressures suggest			
				permeability within the interval			
				tested.			
RECOVERY							
TOTAL FLUID RECOVERED 460				Ft. Consisting of:			
90 Ft. of core ban and water (cushion)							
370 Ft. of muddy water							
Ft. of							
Ft. of							
Test was/was not Reverse Circulated							
Oil Recovery A.P.I. Water Specific Gravity							
Salinity							
PRESSURE READINGS							
Inside X Outside		Inside Outside X		Inside Outside X		Inside Outside X	
Recorder No. 7928		Recorder No. 4399		Recorder No. 5725		Recorder No. 6482	
Capacity 6150		Capacity 6000		Capacity 6000		Capacity 42- 275°	
Depth 3986		Depth 4016		Depth 4026		Depth 4031	
NUMBER KEY:							
1 - INITIAL HYDROSTATIC		1876		1869		1877	
2 - PRE-FLOW		1805		1702		1824	
3 - INITIAL SHUT-IN		1805		1811		1821	
4a - 2nd INITIAL FLOW							
4b - 2nd FINAL FLOW							
4c - 2nd SHUT-IN							
5 - 3rd INITIAL FLOW		1805		1811		1821	
6 - FINAL FLOW		1805		1811		1821	
7 - FINAL SHUT-IN		1805		1811		1821	
8 - FINAL HYDROSTATIC		1876		1856		1877	
						68°	
						temperature	
						inaccurate	

Shell Canada Ltd. Company
 Shell Tree River F-57 Well Name and Description
 #1
 Test No.
 November 27/70 Date of Test

GUIDE TO INTERPRETATION AND IDENTIFICATION OF LYNES DRILL STEM TEST PRESSURE CHARTS

AK-1 recorders. Read from right to left.

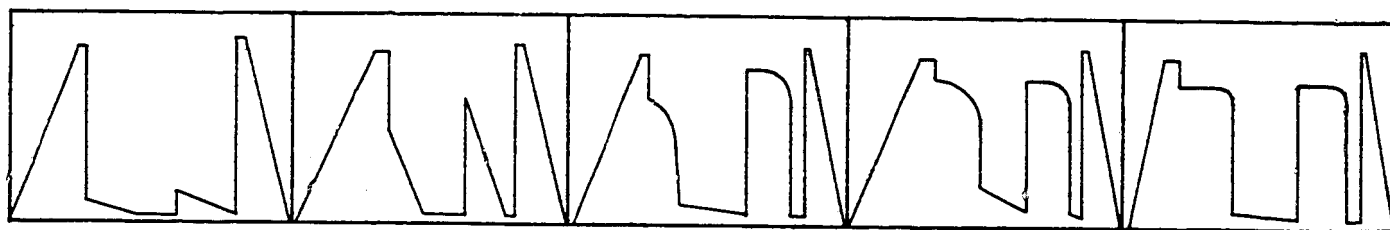


1. INITIAL HYDROSTATIC MUD PRESSURE
2. PRE-FLOW
3. INITIAL SHUT-IN
- 4a. 2nd INITIAL FLOW
- 4b. 2nd FINAL FLOW
- 4c. 2nd SHUT-IN
5. 3rd INITIAL FLOW
6. FINAL FLOW
7. FINAL SHUT-IN
8. FINAL HYDROSTATIC MUD PRESSURE

N.B. When only two shut-in and flow periods are run, 4a, 4b and 4c are omitted.

K-3 recorders. Read from left to right.

Typical charts for visual field analysis ranging from very low to high permeability.



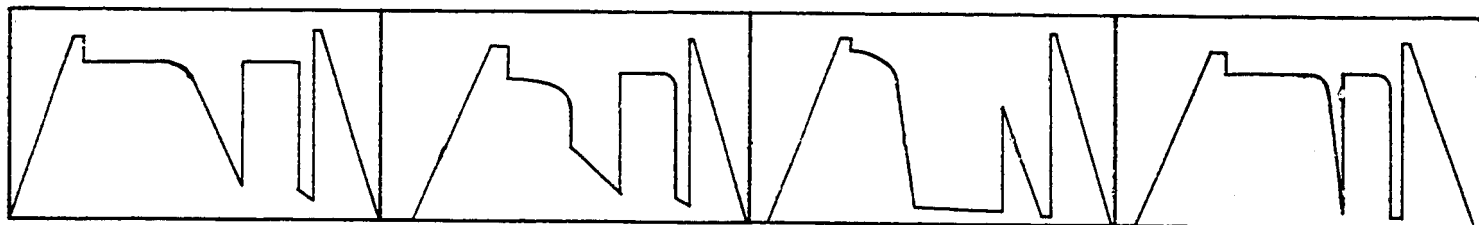
Very low permeability. Usually only mud recovered from interval tested. Virtually no permeability.

Slightly higher permeability. Again mud recovered.

Slightly higher permeability. Small recovery, less than 200' ft).

Average permeability. Final and initial shut-ins differ by 50 psi.

Average permeability. Strong damage effect. High shut-in pressure, low flow pressure.



Excellent permeability where final flow final shut-in pressure.

High permeability where ISIP and FSIP are within 10 psi.

Deep well bore invasion or damage. Final shut-in higher than the initial shut-in.

Tight hole chamber tester. Permeability very difficult to interpret unless the recovery is less than chamber length. Flow pressure builds up rapidly if recovery is large, similar to a shut-in.

[illegible]

TESTING				DRILLING ASSEMBLY AT END OF TOUR				BIT RECORD				MUD RECORD				FOOTAGE		FORMATION (SHOW CORE RECOVERY)				ROTARY R.P.M.		WT. ON BIT (1000#)		PUMP (AIR) PRESS.		AIR VOL. (CFM.)		PUMP NO. 1 LINER SIZE S.P.M.		PUMP NO. 2 LINER SIZE S.P.M.		METHOD PUMPS RUN	
NO.	CODE	AT	END OF TOUR	BIT	FT.	BIT NO.	TIME	WEIGHT	VIS.-SEC.	PV / YP	GELS	W.L.C.C.	PH	% SOLIDS	% SAND	MUD MATERIALS ADDED TYPE AMOUNT TYPE AMOUNT	FROM	TO	HOURS	RM-R CORE-C	CORE NO.														
60	ABANDON			B51	27x63 3.96 FT.	SIZE 8 3/4																													
70	STANDBY			S1	27x63 4.40 FT.	MFG.																													
TOTALS				8 E 8 24	CO 2 2 X 4.30 FT.	TYPE MBB																													
HOURS FOR SHELL ACCOUNT				8 8 8 24		JETS 1/32"																													
BOILER #				8 8 86		SERIAL NO.	R.R. 275040																												
Boiler #2				8 8 8		DEPTH OUT																													
24 Hrs Code 257				21 DC 27x63 6.50 70'		DEPTH IN																													
				62 DP STANDS 5763.91 FT.		TOTAL FTG.																													
WELL CONDITION				1 DP SINGLES 30.62 FT.		TOTAL HRS. RUN																													
1	HOLE DRAG (1000#)			KELLY DOWN 29.00 FT.		BIT CONDITION 1/8" T/B/GAGE																													
2	TORQUE ON BOTTOM (DP TURNS)			TOTAL																															
3	FILL ON BOTTOM (FEET)			WT. OF DC IN AIR 65000 LBS.		REAMER CUTTER NO.																													
				WT OF STRING 140,000 LBS.		REAMER TYPE																													

EVENING TOUR

DEVIATION RECORD		DEPTH	DEVIATION°	DIRECTION	DEPTH	DEVIATION°	DIRECTION	DEPTH	DEVIATION°	DIRECTION
		6495								

TIME LOG		ELAPSED TIME	CODE	DETAILS OF OPERATION IN SEQUENCE AND REMARKS	
FROM	TO				
4:00	8:00	4		VELOCITY SURVEY BY INTEGRATED	
8:00	8:45	3 1/4		TEAR OUT LOGGERS	
8:45	9:15	1/2		RUN IN DRILL COLLARS	
9:15	9:30	1/2		SLIP ORLG LINE	
9:30	12:00	2 1/2		RUN IN W/ DIT	

DRILLER N. Shudra

DAILY DRILLING REPORT

WELL NAME <i>Shell Tree River</i>	PROVINCE <i>N.W.T.</i>
LOCATION <i>F-57</i>	

OPERATOR Shell Canada Limited		CONTRACTOR <i>Gustavson</i>		RIG NO. <i>11</i>	DEPTH AT START OF MORNING TOUR <i>6135</i>	DEPTH AT END OF EVENING TOUR <i>6380</i>	DAILY PROGRESS <i>245</i>	CUMULATIVE ROTATING HOURS	DAYS FROM SPUD <i>27</i>	MONTH <i>12</i>	DAY <i>7</i>	YEAR <i>70</i>					
SIGNATURE OF OPERATOR'S REPRESENTATIVE <i>[Signature]</i>		SIGNATURE OF CONTRACTOR'S TOOL PUSHER <i>[Signature]</i>															
DP / DC SIZE <i>4"</i>	WT. FT. <i>147</i>	GRADE <i>F</i>	MIN. I.D. <i>2 7/8"</i>	TOOL JT O.D. <i>5 1/2"</i>	TYPE THREAD <i>FH</i>	PUMP NO. <i>1</i>	PUMP MANUFACTURER <i>National</i>	TYPE <i>8P80</i>	STROKE LENGTH <i>8 1/2"</i>	LAST CASING TUBING OR LINER <i>9 5/8"</i>	WT. AND GR. <i>26.555</i>	NO. OF JOINTS <i>25</i>	FEET <i>16.25</i>	KB. TO CSG. HEAD <i>8.08</i>	SET AT <i>756</i>	CEMENT USED (SACKS)	REMARKS
TIME DISTRIBUTION - HOURS																	
NO.	OPERATION	MORN.	DAY	EVE.	TOTAL	DRILLING ASSEMBLY AT END OF TOUR											
BIT RECORD																	
NO.	CODE	BIT	FT.	BIT NO.	SIZE	WEIGHT	VIS.-SEC.	PV/YP	GELS.	W.L.-CC.	PH	DEPTH OUT	DEPTH IN	TOTAL FTG.	TOTAL HRS. RUN	BIT CONDITION 1/8" T/B/GAGE	REAMER CUTTER NO.
MUD RECORD																	
FOOTAGE																	
FORMATION (SHOW CORE RECOVERY)																	
ROTARY R.P.M.																	
WT. ON BIT (1000#)																	
PUMP (AIR) PRESS.																	
AIR VOL. (CFM.)																	
PUMP NO. 1																	
PUMP NO. 2																	
METHOD PUMPS RUN																	
DEVIATION RECORD																	
TIME LOG																	
ELAPSED TIME																	
CODE																	
DETAILS OF OPERATION IN SEQUENCE AND REMARKS																	
MORNING TOUR																	
DAY TOUR																	
EVENING TOUR																	
HOLE CONDITION																	
1 HOLE DRAG (1000#)																	
2 TORQUE ON BOTTOM (DP TURNS)																	
3 FILL ON BOTTOM (FEET)																	

DAILY DRILLING REPORT

WELL NAME Shell Tree River		PROVINCE N.W.T.
LOCATION F-57		

OPERATOR Shell Canada Limited						CONTRACTOR Gustafson Drilling Ltd. (1964)		RIG NO. 11	DEPTH AT START OF MORNING TOUR	DEPTH AT END OF EVENING TOUR	DAILY PROGRESS	CUMULATIVE ROTATING HOURS	DAYS FROM SPUD		DATE MONTH DAY YEAR			
SIGNATURE OF OPERATOR'S REPRESENTATIVE <i>[Signature]</i>						SIGNATURE OF CONTRACTOR'S TOOL PUSHER <i>[Signature]</i>			5794'	5980	176		25	12	5	70		
SIZE	WT./FT.	GRADE	MIN. I.D.	TOOL JT. O.D.	TYPE THREAD	PUMP NO.	PUMP MANUFACTURER	TYPE	STROKE LENGTH	LAST CASING TUBING OR LINER	SIZE	WT. AND GR.	NO. OF JOINTS	FELT	KB. TO CSG. HEAD	SET AT	CEMENT USED (SACKS)	REMARKS
4"	14#	E	2 7/8"	5 1/4"	4 FH	1	National	8P80	8 1/2"		9 5/8	36 #35	25	1625	808'	756		
6 3/4"	101		2 7/8"		5"H90	2	"	8P80	8 1/2"									

TIME DISTRIBUTION - HOURS						DRILLING ASSEMBLY		BIT RECORD				MUD RECORD			
CODE NO.	OPERATION	MORN.	DAY	EVE.	TOTAL	NO. CODE AT END OF TOUR		BIT		FT.		BIT NO.		TIME	
1	RIG UP TEAR DOWN					1	35	1/4	3.96	FT.		11			
2	DRILLING ACTUAL	2 3/4	7 1/4	8		1	55	2 1/4	8.60	FT.		8 3/4			
3	REAMING					1	31	1/4	4.10	FT.		Reed			
4	CORING					2	46	2 1/2	4.30	FT.		SCN5			
5	CLEAN TO BOTTOM AND CIRCULATING	1						X		FT.		688987			
6	TRIPS	4						X		FT.					
7	RIG SERVICE	1/4	1/4			21	05	1/4	650.70	FT.					
8	RIG REPAIR					55	DP	STANDS	5111.97	FT.					
9	CUT AND/OR SLIP LINE	1/4					DP	SINGLES		FT.					
10	DEVIATION SURVEY		1/2					KELLY DOWN	34.50	FT.					
11	WIRE LINE LOG							TOTAL	5917.53	FT.					
12	RUN CASING AND CEMENT							WT. OF DC IN AIR	650	LBS.					
13	WAIT ON CEMENT							WT. OF STRING	128.00	LBS.					

14. NIPPLE UP B.O.P.						* DRILLING ASSEMBLY - NO CODE AT END OF TOUR		BIT RECORD				MUD RECORD			
15. TEST B.O.P.		1/4				BIT		FT.		BIT NO.		TIME			
16. DRILL STEM TEST						1 1/2 2 1/2 3 1/2		396 FT.		SIZE 8 3/4		WEIGHT 9 9 9			
17. PLUG BACK						1 5/8 2 X 6 1/2		8.50 FT.		MFG. REED		VIS.-SEC. 58 54 53			
18. SQUEEZE CEMENT						1 5/8 2 1/2 X 6 1/2		4.10 FT.		TYPE SCM5		PV / YP 40/10 40/10 20/18			
19. STUCK OR FISHING						2 5/8 3 1/2 X		4.30 FT.		JETS 1/32"		GELS 6/10 6/10 4/1			
20. HANDLE TOOLS						2 1/2 3 1/2 X		650.70 FT.		SERIAL NO. 685987		W L - C C 7.2 7.2			
21. CONDITION MUD						X		FT.		DEPTH OUT		PH 9.5 9.5 9.5			
22. LOST CIRCULATION						X		FT.		DEPTH IN 5194		% SOLIDS 57% 57% 57%			
23.						DP STANDS		FT.		TOTAL FTG. 93		% SAND			
24.						56 DP SINGLES		520.55 FT.		TOTAL HRS. RUN 9 1/2		MUD MATERIALS ADDED			
C O M P L E T E		40 PERFORATE				KELLY DOWN		10.00 FT.		BIT CONDITION 1/8" T/B/GAGE		TYPE AMOUNT TYPE AMOUNT			
41 TUBING TRIPS						TOTAL		5887.17				Cmc 50%			
42 TREATING						WT. OF DC IN AIR 650 LBS.		REAMER CUTTER NO.				CAUSTIC 100% SODA 50% HSN 100%			
43 SWABBING						WT. OF STRING 128 LBS.		REAMER TYPE							

I O N	44 TESTING				DRILLING ASSEMBLY AT END OF HOUR				BIT RECORD				MUD RECORD					
	NO.	CODE	BIT		FT.	BIT NO.			TIME									
45																		
60	ABANDON				1	8 1/2	2 1/4	X 6 3/4	3.96	FT.	SIZE	8 3/4		WEIGHT	400	8.00	11.00	
70	STANDBY				1	5 1/2	1	X 6 3/4	8.50	FT.	MFG.	REED		VIS.-SEC.	45	44	45	
TOTALS					1	5 1/2	2 1/4	X 6 3/4	4.10	FT.	TYPE	SCMS-T		PV / YP	10/15	17/15	/	
HOURS FOR SHELL ACCOUNT		8	8		2	9	6	7 1/4	X 6 3/4	4.30	FT.	JETS 1/32"	2 1/2		GELS.	8/16	3/7	/
ROTARY POSITION	BOILER #1	8	8	8				X		FT.	SERIAL NO.	685987		W.L.-C.C.	1.2	8.6		
	Boiler #2	8	8	8				X		FT.	DEPTH OUT			PH	2.5	9.5		
	CODE 232	21	9	6	2 1/4	X 6 3/4	4.50	FT.	DEPTH IN	57 1/4		% SOLIDS	5%					
	24 HRS.	56	DP	STANDS	5205	51	FT.	TOTAL FTG.	163		% SAND							
	HOLE CONDITION		2	DP	SINGLES	61.85	FT.	TOTAL HRS. RUN	17 1/2		MUD MATERIALS ADDED							
1	HOLE DRAG (1000#)	6m	KELLY DOWN		37.00	FT.	BIT CONDITION 1/8" T/B/GAGE	6 1/4		TYPE	AMOUNT	TYPE	AMOUNT					
2	TORQUE ON BOTTOM (DP TURNS)		TOTAL		5970	FT.				CMC	50 lbs							
3	FILL ON BOTTOM (FEET)	8'	WT. OF DC IN AIR		65mm	LBS.	REAMER CUTTER NO.			CAUSTIC	50 lbs							
			WT. OF STRING		179mm	LBS.	REAMER TYPE			BEN-EX 4	lbs.							
										SEL	1000	lbs						

MORNING	FOOTAGE		ROT. HOURS	DR-D RM-D CORE-C	CORE NO.	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT. ON BIT (1000#)	PUMP VOL. (CFM.)	PUMP NO. 1		PUMP NO. 2		METHOD PUMPS RUN				
	FROM	TO								LINER SIZE	S.P.M.	LINER SIZE	S.P.M.					
	5794'	5817'	2 1/4	23'		1 BBL Vitrified #41	47-50	44x	2000		6"	132	6"	-				
DEVIATION RECORD	DEPTH		DEVIATION °		DIRECTION		DEPTH		DEVIATION °		DIRECTION		DEPTH		DEVIATION °		DIRECTION	
	5794		40															
G T O U R	TIME LOG		ELAPSED TIME	CODE	DETAILS OF OPERATION IN SEQUENCE AND REMARKS													
	FROM	TO																
	1200	200	2		Hoist (Bit plugged 34566 wct.)													
	200	215	1/4		Checked BOP & Blind Rams													
	215	230	1/4		Servo Pig													
	230	315	3/4		Ran in DC. Moved Tab. up to 60' above Bit.													
315	330	1/4		Slip D/Lg Line 545-800. 2 1/4 D/Lg.														
330	445	1 1/4		Ran in (Slow)														
445	545	1		Reamed & Hoist Bottom 8' F.I.I.														
										DRILLER								

FOOTAGE		ROT. HOURS	DR-D RM-R CORE-C	CORE NO.	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT. ON BIT (1000#)	PUMP (AIR) PRESS.	AIR VOL. (CFM.)	PUMP NO. 1		PUMP NO. 2		PUMPS RUN
FROM	TO									LINER SIZE	S.P.M.	LINER SIZE	S.P.M.	
587	588.7	7 1/4	10			50	43	2000		6	152			
DEVIATION RECORD DEPTH 588.5 DEVIATION ° 4 1/2 ° DIRECTION 1 DEPTH DEVIATION ° DIRECTION DEPTH DEVIATION ° DIRECTION														
TIME LOG		ELAPSED TIME	CODE	DETAILS OF OPERATION IN SEQUENCE AND REMARKS										
FROM	TO													
8:00	8:15	1/4		Rig SER ✓ BOPs.										
8:15	3:00	6 3/4		DRLG 9 3/4" HOLE.										
3:00	3:30	1/2		SURF -										
3:30	4:00	1/2		DRLG										
		8												

[illegible]

DAILY DRILLING REPORT

WELL NAME SHELL TREE RIVER		PROVINCE N.W.D.
LOCATION F 57		

OPERATOR Shell Canada Limited		CONTRACTOR GUSTAVSON		RIG NO. 11	DEPTH AT START OF MORNING TOUR 5216	DEPTH AT END OF EVENING TOUR 5513	DAILY PROGRESS 297	CUMULATIVE ROTATING HOURS 23	DAYS FROM SPUD 12	DATE MONTH 3 DAY 70 YEAR										
SIGNATURE OF OPERATOR'S REPRESENTATIVE <i>[Signature]</i>		SIGNATURE OF CONTRACTOR'S TOOL PUSHER <i>[Signature]</i>																		
DP / DC SIZE 4" / 14	WT. / FT. E	GRADE 2 1/2	MUD I.D. 5 1/4	TOOL JOINT O.D. 4 1/2	TYPE THREAD 4 F.H.	PUMP NO. 1	PUMP MANUFACTURER NATIONAL	TYPE 8P80	STROKE LENGTH 8 1/2	LAST CASING TUBING OR LINER 9 5/8 36" K55 25	NO. OF JOINTS 1625	FEET 808	CEMENT USED (SACKS) 756	REMARKS						
TIME DISTRIBUTION - HOURS		DRILLING ASSEMBLY AT END OF TOUR		BIT RECORD		MUD RECORD		FOOTAGE		FORMATION (SHOW CORE RECOVERY)		PUMP NO. 1		PUMP NO. 2		METHOD				
CODE NO.	OPERATION	MORN.	DAY	EVE.	TOTAL	BIT	FT.	BIT NO.	TIME	12.00	4.00									
1	RIG UP					1 85 2 1/2 x 14	3.96	SIZE	9 3/4	WEIGHT	9	9								
2	TEAR DOWN					1 55 2 1/2 x 14	8.50	MFG.	REED	VIS.-SEC.	54	46								
3	DRILLING ACTUAL	7 1/2	7 1/4	6 3/4	22	1 51 2 1/2 x 14	4.10	TYPE	SCMS	PV / YP	35 / 17									
4	REAMING					2 90 2 1/2 x 14	4.30	JETS 1/32"	12/12/11	GELS.										
5	CORING							DEPTH IN	5156	% SOLIDS										
6	CLEAN TO BOTTOM AND CIRCULATING							TOTAL FTG.	155	% SAND										
7	TRIPS					21 10 2 1/2 x 14	650.70	DEPTH OUT	5156	PH	9.5	9								
8	RIG SERVICE	1/4	1/4	1/2				TOTAL HRS. RUN	12 3/4	MUD MATERIALS ADDED										
9	RIG REPAIR					2 DP STANDS	45 53.73	BIT CONDITION 1/8" T/B/GAGE	100	TYPE	AMOUNT	TYPE	AMOUNT							
10	CUT AND/OR SLIP LINE					2 DP SINGLES	61.78	REAMER CUTTER NO.												
11	DEVIATION SURVEY	1/2	1/4	3/4		KELLY DOWN	34	REAMER TYPE												
12	WIRE LINE LOG					TOTAL	5317.07													
13	RUN CASING AND CEMENT					WT. OF DC IN AIR	60 M LBS.													
14	WAIT ON CEMENT					WT. OF STRING	122 M LBS.													
15	TRIPPLE UP B.O.P.					DRILLING ASSEMBLY AT END OF TOUR		BIT RECORD		MUD RECORD		FOOTAGE		FORMATION (SHOW CORE RECOVERY)		PUMP NO. 1		PUMP NO. 2		METHOD
16	TEST B.O.P.					BIT	FT.	BIT NO.	TIME	8 AM	12 PM	3 PM								
17	DRILL STEM TEST					1 85 2 1/2 x 14	3.96	SIZE	8 3/4	WEIGHT	9	9	9							
18	PLUG BACK					1 55 2 1/2 x 14	8.50	MFG.	Reed	VIS.-SEC.	51	45	49							
19	SQUEEZE CEMENT					1 51 2 1/2 x 14	4.10	TYPE	SCMS	PV / YP	20 / 20									
20	STUCK OR FISHING					2 90 2 1/2 x 14	4.30	JETS 1/32"	12/12/11	GELS.	4									
21	HANDLE TOOLS							DEPTH IN	5156	W.L.-C.C.	7.6	7.8	7.2							
22	CONDITION MUD							DEPTH OUT	5156	PH	9.5	9.5	9							
23	LOST CIRCULATION					21 10 2 1/2 x 14	650.70	TOTAL FTG.	249	% SOLIDS										
24	CIR Sample	3/4	3/4	50		2 DP STANDS	4707.19	BIT CONDITION 1/8" T/B/GAGE	100	TYPE	AMOUNT	TYPE	AMOUNT							
25	AD PERFORATE					2 DP SINGLES	4707.19	REAMER CUTTER NO.												
26	PERFORATE					KELLY DOWN	16.25	REAMER TYPE												
27	TUBING TRIPS					TOTAL	5425.00													
28	FLATING					WT. OF DC IN AIR	60 M LBS.													
29	SWABBING					WT. OF STRING	124 M LBS.													
30	TESTING					DRILLING ASSEMBLY AT END OF TOUR		BIT RECORD		MUD RECORD		FOOTAGE		FORMATION (SHOW CORE RECOVERY)		PUMP NO. 1		PUMP NO. 2		METHOD
31	ABANDON					BIT	FT.	BIT NO.	TIME	4:30	6:30	11:30								
32	STANDBY					1 85 2 1/2 x 14	3.96	SIZE	8 3/4	WEIGHT	9.1	9.0	9.1							
33	TOTALS	8	8	8	24	1 51 2 1/2 x 14	4.10	MFG.	REED	VIS.-SEC.	47	55	50							
34	HOURS FOR SHELL ACCOUNT					2 90 2 1/2 x 14	4.30	TYPE	SCMS	PV / YP	16 / 14	22 / 22	22 / 22							
35	BOILER #1	8	8					JETS 1/32"	12/12/11	GELS.	4/6	5/1	5/1							
36	BOILER #2	8	8			21 10 2 1/2 x 14	650.70	DEPTH IN	5156	W.L.-C.C.	7.8	7.6	7.6							
37	CODE 232							DEPTH OUT	5156	PH	9.5	9	9.0							
38	24 Hrs							TOTAL FTG.	357	% SOLIDS	5%	5%	5%							
39	HOLE CONDITION					51 DP STANDS		BIT CONDITION 1/8" T/B/GAGE		TYPE	AMOUNT	TYPE	AMOUNT							
40	1 HOLE DRAG (1000#)					2 DP SINGLES	4800.27	REAMER CUTTER NO.												
41	2 TORQUE ON BOTTOM (DP TURNS)					KELLY DOWN	48.94	REAMER TYPE												
42	3 FILL ON BOTTOM (FEET)					TOTAL	5513.78													
43						WT. OF DC IN AIR	65 M LBS.													
44						WT. OF STRING	124 M LBS.													

DAILY DRILLING REPORT

WELL NAME

SHELL TREE RIVER

LOCATION

F 57

PROVINCE

OPERATOR

Shell Canada Limited

CONTRACTOR

GUSTAVSON

RIG NO.

11

DEPTH AT START

5035

DEPTH AT END

5216

DAILY

181

CUMULATIVE

22

DAYS FROM

12

DATE

2

70

SIGNATURE OF OPERATOR'S REPRESENTATIVE

SIGNATURE OF CONTRACTOR'S TOOL PUSHER

DP / DC SIZE	WT. / FT.	GRADE	MIN. I.D.	TOOL JOINT O.D.	TYPE THREAD	PUMP NO.	PUMP MANUFACTURER
4"	14	E	5 7/8	5 1/2	4"EH	1	NATIONAL
6"	101		2 3/8	6 3/4	5"NH90	2	NATIONAL

TYPE	STROKE LENGTH
8P80	8 1/2
8P80	8 1/2

LAST CASING TUBING OR LINER	SIZE	WT. AND GR.	NO. OF JOINTS	FEET	KB. TO CSG. HEAD	SET AT	CEMENT USED (SACKS)	REMARKS
	9 5/8	36 #K55	25	16.25	808	756		

TIME DISTRIBUTION - HOURS					DRILLING ASSEMBLY AT END OF TOUR		BIT RECORD		MUD RECORD	
CODE NO.	OPERATION	MORN.	DAY	EVE.	TOTAL	BIT	FT.	BIT NO.	TIME	WEIGHT
1	RIG UP TEAR DOWN					1 BS 2 1/2 x 6 3/4	3.96	SIZE	8 3/4	9.1
2	DRILLING ACTUAL	7 1/4	6 1/4	5 1/4	19 1/4	1 SS 2 1/2 x 6 3/4	8.50	MFG.	H.W.	54
3	REAMING					1 SS 2 1/2 x 6 3/4	4.10	TYPE	A67X5	39/29
4	CORING					2 C 2 1/2 x 6 3/4	4.30	JETS 1/32"	11/11	
5	CLEAN TO BOTTOM AND CIRCULATING							SERIAL NO.	5A540	24
6	TRIPS	1 1/4	2 1/2	3 3/4	7 1/4	1 BS 2 1/2 x 6 3/4	650.70	DEPTH OUT		9.5
7	RIG SERVICE	1/4	1/4	1/2	3/4			DEPTH IN	4730	
8	RIG REPAIR					47 DP STANDS	4366.85	TOTAL FTG.	374	
9	CUT AND/OR SLIP LINE					1 DP SINGLES	31.15	TOTAL HRS. RUN	39 1/2	
10	DEVIATION SURVEY	1/4	1/4		1/2	KELLY DOWN	35	BIT CONDITION 1/8" T/B/GAGE	1/8	GEL 1000
11	WIRE LINE LOG					TOTAL	5104.57		C.M.C.	50
12	RUN CASING AND CEMENT					WT. OF DC IN AIR	60 M	REAMER CUTTER NO.		CAUSTIC 50
13	WAIT ON CEMENT					WT. OF STRING	120 M	REAMER TYPE		BEAUX 4"
14	NIPPLE UP B.O.P.									

TIME DISTRIBUTION - HOURS					DRILLING ASSEMBLY AT END OF TOUR		BIT RECORD		MUD RECORD	
CODE NO.	OPERATION	MORN.	DAY	EVE.	TOTAL	BIT	FT.	BIT NO.	TIME	WEIGHT
15	TEST B.O.P.	1/4	1/4		1/2			9	8-AM	2 PM
16	DRILL STEM TEST					1 BS 2 1/2 x 6 3/4	3.96	SIZE	8 3/4	9.1
17	PLUG BACK					1 SS 2 1/2 x 6 3/4	8.50	MFG.	H.W.	46
18	SQUEEZE CEMENT					1 SS 2 1/2 x 6 3/4	4.10	TYPE	A67X5	30/5
19	STUCK OR FISHING					2 C 2 1/2 x 6 3/4	4.30	JETS 1/32"	11/11	
20	HANDLE TOOLS							SERIAL NO.	5A540	74
21	CONDITION MUD							DEPTH OUT	5156	9.5
22	LOST CIRCULATION					21 DP 2 1/2 x 6 3/4	650.70	DEPTH IN	4730	
23						48 DP STANDS	4460.31	TOTAL FTG.	426	
24						DP SINGLES		TOTAL HRS. RUN	45 3/4	
25	PERFORATE					KELLY DOWN	24.13	BIT CONDITION 1/8" T/B/GAGE	1/8	Gel 1900
26	TUBING TRIPS					TOTAL	5156.00		BEAUX-6	
27	TREATING					WT. OF DC IN AIR	60 M	REAMER CUTTER NO.		
28	SWABBING					WT. OF STRING	121 M	REAMER TYPE		
29	TESTING									

TIME DISTRIBUTION - HOURS					DRILLING ASSEMBLY AT END OF TOUR		BIT RECORD		MUD RECORD	
CODE NO.	OPERATION	MORN.	DAY	EVE.	TOTAL	BIT	FT.	BIT NO.	TIME	WEIGHT
30	ABANDON					1 BS 2 1/2 x 6 3/4	3.96	SIZE	8 3/4	9.1
31	STANDBY					1 SS 2 1/2 x 6 3/4	8.50	MFG.	BEAUX	52
32	TOTALS	8	8	8	24	1 SS 2 1/2 x 6 3/4	4.10	TYPE	5085	19/14
33	HOURS FOR SHELL ACCOUNT					2 C 2 1/2 x 6 3/4	4.30	JETS 1/32"	12/11	
34	BOILER	8	8	8	24	21 DP 2 1/2 x 6 3/4	650.70	SERIAL NO.	68992	8.4
35	Bit #2	8	8	8	24			DEPTH OUT		9.0
36	CODE 232							DEPTH IN	5156	5.7
37	24 hrs					49 DP STANDS		TOTAL FTG.	60	5.7
38	HOLE CONDITION					2 DP SINGLES	4522.58	TOTAL HRS. RUN	5 1/4	
39	1 HOLE DRAG (1000#)	5m				KELLY DOWN	22.00	BIT CONDITION 1/8" T/B/GAGE		GEL 500
40	2 TORQUE ON BOTTOM (DP TURNS)	2				TOTAL	5216.14		BEAUX 2"	
41	3 FILL ON BOTTOM (FEET)	10m				WT. OF DC IN AIR	65m	REAMER CUTTER NO.		CML 25
42						WT. OF STRING	122m	REAMER TYPE		CHUSPE 58

MORNING TOUR

DAY TOUR

EVENING TOUR

FOOTAGE		ROT. HOURS	DR-D RM-R CORE-C	CORE NO.	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT. ON BIT (1000#)	PUMP (AIR) PRESS.	AIR VOL. (CFM.)	PUMP NO. 1 LINER SIZE S.P.M.	PUMP NO. 2 LINER SIZE S.P.M.	METHOD PUMPS RUN
FROM	TO											
5035	5104	7 1/2	69				54	52	2000	6	120	6
5104	5156	1					53	52	2000	6	120	6
5156	5216	5 1/4	60				47	50	2000	6	130	
5216	5216											
DEVIATION RECORD	DEPTH	DEVIATION°	DIRECTION	DEPTH	DEVIATION°	DIRECTION	DEPTH	DEVIATION°	DIRECTION	DEPTH	DEVIATION°	DIRECTION
12.00	1.00	1										
1.00	1.15	4										
1.15	2.00	6 3/4										
TIME LOG	ELAPSED TIME	CODE	DETAILS OF OPERATION IN SEQUENCE AND REMARKS									
FROM	TO											
12.00	1.00	1	DRILL									
1.00	1.15	4	CHECK B.O.P. SER. RIG.									
1.15	2.00	6 3/4	DRILL									
5104	5156	1										
5156	5216	5 1/4										
DEVIATION RECORD	DEPTH	DEVIATION°	DIRECTION	DEPTH	DEVIATION°	DIRECTION	DEPTH	DEVIATION°	DIRECTION	DEPTH	DEVIATION°	DIRECTION
8.00	8.15	1/4										
8.15	2.30	6 3/4										
2.30	2.45	1/4										
2.45	4.00	1 1/4										
4.00	4.45	3/4										
4.45	5.00	1/4										
5.00	6.45	1 3/4										
6.45	12.00	5 1/4										
TIME LOG	ELAPSED TIME	CODE	DETAILS OF OPERATION IN SEQUENCE AND REMARKS									
FROM	TO											
4.00	4.45	3/4	Hoist Bit # 9									
4.45	5.00	1/4	Rig SER. BLIND RAMS									
5.00	6.45	1 3/4	Run w/Bit #10 & Break c.a. (No Fill)									
6.45	12.00	5 1/4	DALG 9 3/4 HOLE									

DRILLER

J. J. J. J.

OPERATOR Shell Canada Limited	CONTRACTOR GUSTAVSON	RIG NO. 11	DEPTH AT START OF MORNING TOUR	DEPTH AT END OF EVENING TOUR	DAILY PROGRESS	CUMULATIVE ROTATING HOURS	DAYS FROM SPUD	MONTH	DATE DAY	YEAR
SIGNATURE OF OPERATOR'S REPRESENTATIVE 	SIGNATURE OF CONTRACTOR'S TOOL PUSHER 		4817	5035	218		21	12	1	20

[illegible][illegible][illegible][illegible]

1	HOLE DRAG (1000#)	KELLY DOWN	27.00 FT.	BIT CONDITION	1/8" T/B/GAGE	915	945	1/2	DRG 8 3/4 HOLE.
2	TORQUE ON BOTTOM (DP TURNS)	TOTAL	50550 FT.			945	1200	2 1/4	SURVY
3	FILL ON BOTTOM (FEET)	WT. OF OC IN AIR	65m.LBS.	REAMER CUTTER NO.					DRG 8 3/4 HOLE.
		WT. OF STRING	120m.LBS.	REAMER TYPE					

DAILY DRILLING REPORT

WELL NAME SHELL TREE RIVER	
LOCATION F57	PROVINCE

OPERATOR Shell Canada Limited		CONTRACTOR GUSTAUSON		RIG NO. 11	DEPTH AT START OF MORNING TOUR 4620	DEPTH AT END OF EVENING TOUR 4817	DAILY PROGRESS 197	CUMULATIVE ROTATING HOURS	DAYS FROM SPUD 20	MONTH NOV	DAY 30	YEAR 70			
SIGNATURE OF OPERATOR'S REPRESENTATIVE <i>[Signature]</i>		SIGNATURE OF CONTRACTOR'S TOOL PUSHER <i>[Signature]</i>													
DP / DC SIZE 4"	WT. / FT. 14	GRADE E	MIN. I.D. 2 7/8"	TOOL JT. O.D. 5	TYPE THREAD 4 F.H.	PUMP NO. 1	PUMP MANUFACTURER NATIONAL	TYPE 8P80	STROKE LENGTH 8 1/2	LAST CASING TUBING OR LINER 9 5/8 36" K55	NO. OF JOINTS 25	FEET 16.25	SET AT 808	CEMENT USED (SACKS) 756	REMARKS
6 3/4"	101		2 7/8"	6 3/4"	5" H90	2	NATIONAL	8P80	8 1/2						
TIME DISTRIBUTION - HOURS															
DRILLING ASSEMBLY AT END OF TOUR															
BIT RECORD															
MUD RECORD															
FOOTAGE															
FORMATION (SHOW CORE RECOVERY)															
ROTARY R.P.M.															
WT. ON BIT (1000#)															
PUMP (AIR) PRESS.															
AIR VOL. (CFM)															
PUMP NO. 1 LINER SIZE S.P.M.															
PUMP NO. 2 LINER SIZE S.P.M.															
METHOD PUMPS RUN															
DEVIATION RECORD															
TIME LOG															
ELAPSED TIME															
CODE															
DETAILS OF OPERATION IN SEQUENCE AND REMARKS															
DRILL															
SURVEY SER RIG.															
DRILL															
HELD BLOWOUT DRILL															
DRILLER <i>[Signature]</i>															
FOOTAGE															
FORMATION (SHOW CORE RECOVERY)															
ROTARY R.P.M.															
WT. ON BIT (1000#)															
PUMP (AIR) PRESS.															
AIR VOL. (CFM)															
PUMP NO. 1 LINER SIZE S.P.M.															
PUMP NO. 2 LINER SIZE S.P.M.															
METHOD PUMPS RUN															
DEVIATION RECORD															
TIME LOG															
ELAPSED TIME															
CODE															
DETAILS OF OPERATION IN SEQUENCE AND REMARKS															
D/Lg															
Blew Kelly & Survey & Hoist Bit #8															
Layed Down Top Stab. Reel Survey & changed Bit Checked Blind Ramo & "A" Ram's O.F.															
Ham in D.C.															
Slip & Cut D/Lg line 14 H.H.															
Run in Slew 245200 D/Lg 8 3/4" Hole															
Blew Kelly & Cleaned to Bottom No Fill															
FOOTAGE															
FORMATION (SHOW CORE RECOVERY)															
ROTARY R.P.M.															
WT. ON BIT (1000#)															
PUMP (AIR) PRESS.															
AIR VOL. (CFM)															
PUMP NO. 1 LINER SIZE S.P.M.															
PUMP NO. 2 LINER SIZE S.P.M.															
METHOD PUMPS RUN															
DEVIATION RECORD															
TIME LOG															
ELAPSED TIME															
CODE															
DETAILS OF OPERATION IN SEQUENCE AND REMARKS															
Daily 8 3/4" Hole															
R.g SER V BOPs.															
DRLg 8 3/4" Hole.															
42° Below															
DRILLER <i>[Signature]</i>															

DAILY DRILLING REPORT

WELL NAME SHELL TREE RIVER		PROVINCE
LOCATION F 57		

OPERATOR	Shell Canada Limited	CONTRACTOR	GUSTAFSON
SIGNATURE OF OPERATOR'S REPRESENTATIVE	<i>H. Brown</i>	SIGNATURE OF CONTRACTOR'S TOOL PUSHER	<i>G. Gustafson</i>

DP / DC. SIZE	WT. / FT.	GRADE	MIN. I.D.	TOOL JT. O.D.	TYPE THREAD	PUMP NO.	PUMP MANUFACTURER
4"	14	E	3"	5 1/4	4" F.H.	1	NATIONAL
6 3/4	10 1/2		2 7/8		H905"	2	NATIONAL

TIME DISTRIBUTION - HOURS						DRILLING APPLICABLE		BIT RECORD		MUD RECORD				
CODE NO.	OPERATION	MORN.	DAY	EVE.	TOTAL	NO.	CODE	AT END OF TOUR	BIT NO.		TIME			
						BIT		FT.	SIZE		WEIGHT			
1	RIG UP TEAR DOWN					165	1D	3.96	8		530			
2	DRILLING ACTUAL	5 1/2	7 3/4	7 3/4	21	155	2D	8.50	8 3/4		9			
3	REAMING					251	1D	8.59	SEC		68			
4	CORING					251	1D	4.30	1788		33/36	/	/	/
5	CLEAN TO BOTTOM AND CIRCULATING					251	1D		JETS 1/32"	11 1/2 10	GELS	/	/	/
6	TRIPS	2 1/2			2 1/2	210	1D	6.50	285065		7.2			
7	RIG SERVICE		1/4	1/4		251	1D		DEPTH OUT		PH	9		
8	RIG REPAIR					39	1D		DEPTH IN	4262	% SOLIDS			
9	CUT AND/OR SLIP LINE					2	1D		TOTAL FTG.	122	% SAND			
10	DEVIATION SURVEY					2	1D		TOTAL HRS. RUN	5 1/2	MUD MATERIALS ADDED			
11	WIRE LINE LOG					KELLY DOWN		25	BIT CONDITION	1 1/2	TYPE	AMOUNT	TYPE	AMOUNT
12	RUN CASING AND CEMENT					TOTAL		4384.97	1/8" T/B/GAGE		CAUSTIC	100 #		
13	WAIT ON CEMENT					WT. OF DC IN AIR		60	REAMER CUTTER NO.		PELTEX	150 #		
						WT. OF STRING		114	REAMER TYPE					

NIPPLE UP B.O.P.				4		DRILLING ASSEMBLY NO. CODE AT END OF TOUR		BIT RECORD				MUD RECORD							
14		TEST B.O.P.		1/4		1/4		BIT		FT.		BIT NO.		8		TIME		9 AM 10 AM 11 PM	
16		DRILL STEM TEST						1 ID. O.D. 1 1/2 X 1 3/4 396		FT.		SIZE		8 3/4"		WEIGHT		9 9 9	
17		PLUG BACK						1 ID. O.D. 1 1/2 X 1 3/4 850		FT.		MFG.		See		VIS - SEC		61 50 46	
18		SQUEEZE CEMENT						2 ID. O.D. 1 1/2 X 1 3/4 859		FT.		TYPE		M88		PV / YP		42 / 9 / /	
19		STUCK OR FISHING						2 ID. O.D. 1 1/2 X 1 3/4 430		FT.		JETS 1/32"		4 11 11		GELS		4 / 4 / /	
20		HANDLE TOOLS						ID. O.D. X		FT.		SERIAL NO.		285065		W L - C C		7.2 7.0	
21		CONDITION MUD						ID. O.D. X		FT.		DEPTH OUT		4		PH		9.5 9.5	
22		LOST CIRCULATION						21 ID. O.D. 1 1/2 X 1 3/4 650.70		FT.		DEPTH IN		4262 4272		% SOLIDS			
23								410 DP STANDS		FT.		TOTAL FTG.		288		% SAND			
24								2 DP SINGLES 3776.98		FT.		TOTAL HRS. RUN		13 1/4		MUD MATERIALS ADDED			
								KELLY DOWN 37.00		FT.		BIT CONDITION 1/8" T/B/GAGE				TYPE AMOUNT TYPE AMOUNT			
C O M P L E X		40 PERFORATE						TOTAL 4494.03		FT.						GEL-1800 #			
41		TUBING TRIPS														BEN-EX-5 #			
42		TREATING						WT. OF DC IN AIR 60 M		LBS.		REAMER CUTTER NO.							
43		SWABBING						WT. OF STRING		LBS.		REAMER TYPE							

I O N	44	TESTING	DRILLING ASSEMBLY				BIT RECORD				MUD RECORD						
			NO.	CODE	AT END OF TOUR		BIT	FT.	BIT NO.		TIME						
	45						8				8			TIME	4:20	6:35	10:00
60		ABANDON					1 BS	2 1/2 x 6 3/4	3.96	FT.	SIZE	8 3/4		WEIGHT	9.1	9.0	9.0
70		STANDBY					1 SS	2 1/2 x 6 3/4	8.50	FT.	MFG.	SEL		VIS-SEC	45	45	53
		TOTALS	8	8	8	24	2 SI	2 1/2 x 6 3/4	8.59	FT.	TYPE	MSS		PV / YP	23/12	18/16	22/15
		HOURS FOR SHELL ACCOUNT	8	8	8	24	2 %	2 1/2	4.30	FT.	JETS 1/32"	11 H H		GELS	5/9	4/5	4/5
CORRECTION FACTOR (SCALE)		BOILER 1"	8	8	8			X		FT.	SERIAL NO.	295065		W.L.-C.C.	8.0	7.5	8.0
		Lines 2"	8	8	8			X		FT.	DEPTH OUT			PH	9.0	9.0	9.5
		24 Hrs Code 232						X		FT.	DEPTH IN	4372		% SOLIDS	5	5	5
							42	DP	STANDS	FT.	TOTAL FTG.	358		% SAND			
HOLE CONDITION						1	DP	SINGLES	3932.33	FT.	TOTAL HRS. RUN	21	MUD MATERIALS ADDED				
1	HOLE DRAG (1000#)					KELLY DOWN		12.00	FT.	BIT CONDITION 1/8" T/B/GAGE				TYPE	AMOUNT	TYPE	AMOUNT
2	TORQUE ON BOTTOM (DP TURNS)					TOTAL		4620.38	FT.					GEL	3000		
3	FILL ON BOTTOM (FEET)					WT. OF DC IN AIR		60	lbs.	REAMER CUTTER NO.				CAUSE	50		
						WT. OF STRING		115	lbs.	REAMER TYPE				BENEX	12		
														CMC	50		

[illegible][illegible][illegible]

FOOTAGE		ROT. HOURS	DR-D RM-R CORE-C	CORE NO.	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT. ON BIT (1000#)	PUMP (AIR) PRESS.	AIR VOL. (CFM.)	PUMP NO. 1		PUMP NO. 2		METHOD PUMPS RUN
FROM	TO									LINER SIZE	S.P.M.	LINER SIZE	S.P.M.	
4490	4620	1 $\frac{3}{4}$	130			53	225	2000		6	120			
DEVIATION RECORD		DEPTH	DEVIATION°	DIRECTION	DEPTH	DEVIATION°	DIRECTION	DEPTH	DEVIATION°	DIRECTION	DEPTH	DEVIATION°	DIRECTION	
TIME LOG		ELAPSED TIME	CODE	DETAILS OF OPERATION IN SEQUENCE AND REMARKS										
FROM	TO													
400	415	1/4		Rig SEA ✓ BOPS.										
415	1200	734		DALg 8 $\frac{3}{4}$ " HOLE										
		DRILLER J. L. D. 2-80												

DAILY DRILLING REPORT

WELL NAME SHELL TREE RIVER.		PROVINCE N.W.T.
LOCATION F.57		

OPERATOR Shell Canada Limited		CONTRACTOR GUSTAFSON DRILLING (1964) LTD	RIG NO. 11						
SIGNATURE OF OPERATOR'S REPRESENTATIVE <i>X. Brown</i>		SIGNATURE OF CONTRACTOR'S TOOL PUSHER <i>Manuel</i>							
DP / DC SIZE 4" 1400	WT. / FT. E	GRADE 3"	MIN. I.D. 5 1/4	TOOL JT O.D. F.H.	TYPE THREAD 1	PUMP NO. NSCO	PUMP MANUFACTURER NSCO	TYPE 8P80	STROKE LENGTH 8 1/2

TIME DISTRIBUTION - HOURS				DRILLING ASSEMBLY		BIT RECORD		MUD RECORD			
CODE NO.	OPERATION	MORN.	DAY	EVE.	TOTAL	NO.	CODE	AT END OF TOUR	NO.	CODE	AT END OF TOUR
1	RIG UP					7					
2	DRILLING ACTUAL	4 1/2	3 1/4		8 1/4	2					
3	REAMING	1 1/4			1 1/4	1					
4	CORING		1 1/2		1 1/2	1					
5	CLEAN TO BOTTOM AND CIRCULATING	1/4	2 1/4		3 1/2						
6	TRIPS	2	1 1/4		3 1/4						
7	RIG SERVICE					21					
8	RIG REPAIR					35					
9	CUT. N/OJ OR SLIP LINE					1					
10	DEVIATION SURVEY		1/2		1/2						
11	WIRE LINE LOG										
12	RUN CASING AND CEMENT										
13	WAIT ON CEMENT										
14	NIPPLE UP B.O.P.										

TIME DISTRIBUTION - HOURS				DRILLING ASSEMBLY		BIT RECORD		MUD RECORD			
CODE NO.	OPERATION	MORN.	DAY	EVE.	TOTAL	NO.	CODE	AT END OF TOUR	NO.	CODE	AT END OF TOUR
15	TEST B.O.P.		1/4		1/4						
16	DRILL STEM TEST					1					
17	PLUG BACK					1					
18	SQUEEZE CEMENT					1					
19	STUCK OR FISHING					2					
20	HANDLE TOOLS										
21	CONDITION MUD					01					
22	LOST CIRCULATION										
23						36					
24						2					
40	PERFORATE										
41	TUBING TRIPS										
42	TREATING										
43	SWABBING										
44	TESTING										
45											

TIME DISTRIBUTION - HOURS				DRILLING ASSEMBLY		BIT RECORD		MUD RECORD			
CODE NO.	OPERATION	MORN.	DAY	EVE.	TOTAL	NO.	CODE	AT END OF TOUR	NO.	CODE	AT END OF TOUR
60	ABANDON					1					
70	STANDBY					1					
TOTALS											
HOURS FOR SHELL ACCOUNT											
BOILER 1											
BOILER 2											
14 HRS CODE 25721											
10 HRS 11 23236											
HOLE CONDITION											
1 HOLE DRAG (1000#)											
2 TORQUE ON BOTTOM (DP TURNS)											
3 FILL ON BOTTOM (FEET)											

DEPTH AT START OF MORNING TOUR 3850	DEPTH AT END OF EVENING TOUR 3850	DAILY PROGRESS 252	CUMULATIVE ROTATING HOURS 16	DAYS FROM SPUD 11	MONTH 11	DAY 26	YEAR 70
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FOOTAGE		ROT. HOURS	DR-D RM-R CORE-C	CORE NO.	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT. ON BIT (1000#)	PUMP (AIR) PRESS.	AIR VOL. (CFM)	PUMP NO. 1 LINER SIZE S.P.M.	PUMP NO. 2 LINER SIZE S.P.M.	METHOD PUMPS RUN
FROM	TO											
3850	3965	4 1/2	115			48	52	2100		6	120	
DEVIATION RECORD												
TIME LOG												
FROM	TO	ELAPSED TIME	CODE	DETAILS OF OPERATION IN SEQUENCE AND REMARKS								
12 00	2 00	2		RUN IN BIT 7								
2 00	2 15	1/4		BLOW KELLY BREAK CIRC.								
2 15	3 30	1 1/4		REAM 6 3/4" HOLE TO 8 3/4								
3 30	8 00	4 1/2		DRILL 8 3/4" HOLE								

FOOTAGE		ROT. HOURS	DR-D RM-R CORE-C	CORE NO.	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT. ON BIT (1000#)	PUMP (AIR) PRESS.	AIR VOL. (CFM)	PUMP NO. 1 LINER SIZE S.P.M.	PUMP NO. 2 LINER SIZE S.P.M.	METHOD PUMPS RUN
FROM	TO											
3965	4088	3 3/4	123			50	50	2100		6	120	6
DEVIATION RECORD												
TIME LOG												
FROM	TO	ELAPSED TIME	CODE	DETAILS OF OPERATION IN SEQUENCE AND REMARKS								
8 00	9 15	1 1/4		DRILL 1.15 - 2 1/2 CIR. CONMUD								
9 15	9 30	1/4		CHECK B.O.P.S. SER. RIG. PRIOR TO CORE								
9 30	11 00	1 1/2		DRILL 2.45 - 400 MEASURE OUT.								
11 00	11 45	3/4		CIR. SAMPLE								
11 45	12 15	1/2		DRILL								
12 15	12 45	1/2		RUN SURVEY @ 4045								
12 45	1 15	1/2		DRILL								

FOOTAGE		ROT. HOURS	DR-D RM-R CORE-C	CORE NO.	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT. ON BIT (1000#)	PUMP (AIR) PRESS.	AIR VOL. (CFM)	PUMP NO. 1 LINER SIZE S.P.M.	PUMP NO. 2 LINER SIZE S.P.M.	METHOD PUMPS RUN
FROM	TO											
4088	4102	1 1/2	14	2		55	60	900		6	65	6
DEVIATION RECORD												
TIME LOG												
FROM	TO	ELAPSED TIME	CODE	DETAILS OF OPERATION IN SEQUENCE AND REMARKS								
4 00	5 15	1 1/4		Finished measuring out.								
5 15	6 15	1		Picked up Core Bit & Jaws, Layed Down stuck sub & stab.								
6 15	8 30	2 1/4		Run in (Slap)								
8 30	9 30	1		Picked up stuck mud line, Cleared to Bottom & Circ. C.B.R.								
9 30	11 00	1 1/2		Cut Core #2 & Jammed @ 4102								
11 00	12 00	1		Blew Kelly & Hoist Core R.B.L.								

DAILY DRILLING REPORT

WELL NAME

SHELL TREE RIVER

LOCATION

F-57

PROVINCE

N.W.T.

OPERATOR

Shell Canada Limited

CONTRACTOR

GUSTAFSON DRILLING (1964) LTD.

RIG NO.

11

DEPTH AT START
OF MORNING TOURDEPTH AT END
OF EVENING TOURDAILY
PROGRESSCUMULATIVE
ROTATING HOURSDAYS FROM
SPUD

MONTH

DATE

SIGNATURE OF OPERATOR'S REPRESENTATIVE

SIGNATURE OF CONTRACTOR'S TOOL PUSHER

J. H. H. H.

DP / DC SIZE	WT. / FT.	GRADE	MIN. I.D.	TOOL JT. O.D.	TYPE THREAD	PUMP NO.	PUMP MANUFACTURER	TYPE	STROKE LENGTH	LAST CASING TUBING OR LINER	SIZE	WT. AND GR.	NO. OF JOINTS	FEET	KB. TO CSG. HEAD	SET AT	CEMENT USED (SACKS)	REMARKS
4"	14.00	E	3	5 1/4	F.H.	1	N.S.C.O.	8-P60	8 1/2		9 5/8	35 K55	25		16.25	828	756	
6 3/4"	101		2 3/4	5 1/4	90	2	N.S.C.O.	8-P90	8 1/2									

TIME DISTRIBUTION - HOURS						DRILLING ASSEMBLY		BIT RECORD		MUD RECORD			FOOTAGE		DETAILS OF OPERATION IN SEQUENCE AND REMARKS															
CODE NO.	OPERATION	MORN.	DAY	EVE.	TOTAL	NO.	CODE	AT END OF TOUR	BIT	FT.	BIT NO.	TIME	WEIGHT	VIS.-SEC.	PV / YP	GELS	W.L.-C.C.	PH	% SOLIDS	% SAND										
1	RIG UP TEAR DOWN					5					5	12:00 4:00 7:30	9 9 9	35 38 37	11 1/2	1	15	9.5												
2	DRILLING ACTUAL	7 1/2	4	5 1/2	17	1	8 3/4	3.96	SIZE	8 3/4																				
3	REAMING					2	8 3/4	4.30	MFG.	SEC																				
4	CORING					1	9 1/4	4.10	TYPE	MPKES																				
5	CLEAN TO BOTTOM AND CIRCULATING	1/2		1/2		1	9 1/4	8.50	JETS 1/32"	11 1/2																				
6	TRIPS	1/4	3 1/2	2	5 1/2				SERIAL NO.	910161																				
7	RIG SERVICE					21	9 1/4	6.50	DEPTH OUT	3220																				
8	RIG REPAIR					27	DP	STANDS	TOTAL FTG.	212																				
9	CUT AND/OR SLIP LINE					1	DP	SINGLES	TOTAL HRS. RUN	16 1/4																				
10	DEVIATION SURVEY	1/4		1/4	1/2				BIT CONDITION	3 3 I																				
11	WIRE LINE LOG								1/8" T/B GAGE																					
12	RUN CASING AND CEMENT								REAMER CUTTER NO.																					
13	WAIT ON CEMENT								REAMER TYPE																					
						WT. OF DC IN AIR		86.0	LBS.																					
						WT. OF STRING		96.000	LBS.																					
						TOTAL		3220.00	FT.																					
						MUD MATERIALS ADDED																								
						TYPE		AMOUNT	TYPE		AMOUNT																			

MORNING TOUR

DAY TOUR

EVENING TOUR

DRILLER

DRILLER

DRILLER

J. H. H. H.

WELL NAME
SHERA TREE RIVER

LOCATION F-57

LOCATION	F-57	PROVINCE	N.W.T.
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OPERATOR **Shell Canada Limited**

SIGNATURE OF OPERATOR'S REPRESENTATIVE

SIGNATURE OF OPERATOR'S REPRESENTATIVE *MUSTADSON DRILLING (1964) LTD*

SIGNATURE OF OPERATOR'S REPRESENTATIVE

SIGNATURE OF OPERATOR'S REPRESENTATIVE MUSTADSON DRILLING (1964) LTD.

SIGNATURE OF OPERATOR'S REPRESENTATIVE	W. J. ADSON JR., L.A. NE (1964) LTD.	11	OF MORNING TOW
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SIGNATURE OF OPERATOR'S REPRESENTATIVE	W. J. HADSON JR., L.A. NE (1964) LTD.	11	OF MORNING TOUR	OF EVENING TOUR
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SIGNATURE OF OPERATOR OR REPRESENTATIVE	OF MORNING TOUR	OF EVENING TOUR	PROGRESS
<i>EUSTADSON DA, L.A. (1964) LTD</i>			

SIGNATURE OF OPERATOR REPRESENTATIVE	DATE OF MORNING TOUR	DATE OF EVENING TOUR	PROGRESS	ROTATING HOUR
<i>[Signature]</i>	11	11		

SIGNATURE OF OPERATOR OR REPRESENTATIVE	DATE	TIME	OF MORNING TOUR	OF EVENING TOUR	PROGRESS	ROTATING HOURS	SPUD
<i>[Signature]</i>	08-11-64	(1964)	LTD.	11			

SIGNATURE OF OPERATOR REPRESENTATIVE		DATE	TIME	OF MORNING TOUR	OF EVENING TOUR	PROGRESS	ROTATING HOURS	SPUD	MONTH	DAY
J. H. HUSON JR. (1964)		1/17/64	11							

SIGNATURE OF OPERATOR OR REPRESENTATIVE	DATE	TIME	OF MORNING TOUR	OF EVENING TOUR	PROGRESS	ROTATING HOURS	SPUD	MONTH	DAY	YEAR
[Signature]	06-11-1964	170								

[illegible][illegible]

NIPPLE UP B.O.P.		DRILLING ASSEMBLY AT END OF TOUR		BIT RECORD		MUD RECORD		FOOTAGE		ROT HOURS		CORE NO.		FORMATION (SHOW CORE RECOVERY)		ROTARY R.P.M.		WT. ON BIT (1000 #)		PUMP (AIR) PRESS.		AIR VOL. (CFM)		PUMP NO. 1		PUMP NO. 2		METHOD PUMP RUN	
				BIT		TIME		FROM TO		CORE NO.		FORMATION		ROTARY R.P.M.		WT. ON BIT (1000 #)		PUMP (AIR) PRESS.		AIR VOL. (CFM)		PUMP NO. 1		PUMP NO. 2		METHOD PUMP RUN			
15	TEST B.O.P.	4	1/4	1	85	23	3.96	FT.	SIZE	8 3/4	WEIGHT	8.9	2978	3020	3 1/2	42	65	40	6	120	6								
16	DRILL STEM TEST			2	9	10	4.30	FT.	MFG.	SEC.	VIS.-SEC.	37																	
17	PLUG BACK			1	5	12	4.10	FT.	TYPE	17426	PV/YP	/	/	/															
18	SQUEEZE CEMENT			1	5	23	8.50	FT.	JETS 1/32"	111010	GELS	/	/	/															
19	STUCK OR FISHING			21	QC	23	650.70	FT.	DEPTH OUT	2008	PH	8.5																	
20	HANDLE TOOLS							FT.	SERIAL NO.	911213	W.L.-C.C.																		
21	CONDITION MUD							FT.	DEPTH IN	2727	% SOLIDS																		
22	LOST CIRCULATION			25	DP	STANDS	23	22.11	FT.	TOTAL FTG.	281	% SAND																	
23								FT.	TOTAL HRS. RUN	154	MUD MATERIALS ADDED																		
24								FT.	TOTAL HRS. RUN	154	MUD MATERIALS ADDED																		
40	PERFORATE							FT.	TOTAL HRS. RUN	154	MUD MATERIALS ADDED																		
41	TUBING TRIPS							FT.	TOTAL HRS. RUN	154	MUD MATERIALS ADDED																		
42	TREATING							FT.	TOTAL HRS. RUN	154	MUD MATERIALS ADDED																		
43	SWABBING							FT.	TOTAL HRS. RUN	154	MUD MATERIALS ADDED																		
				KELLY DOWN		27		FT.	BIT CONDITION 1/8" T/B/GAGE		36F																		
				TOTAL		3020.67		FT.																					
				WT. OF DC IN AIR		60		LBS.	REAMER CUTTER NO.																				
				WT. OF STRING		96		LBS.	REAMER TYPE																				

[illegible]

Coj. Lak. alon

[illegible]

TIME DISTRIBUTION - HOURS						NO. CODE AT END OF TOUR							BIT RECORD			MUD RECORD			FOOTAGE		ROT. DR-D RM-R CORE NO.		FORMATION (SHOW CORE RECOVERY)		PUMP NO. 1		PUMP NO. 2		METHOD PUMPS RUN										
COD.	OPERATION	MORN.	DAY	EVE.	TOTAL	#1	ID.	OD.	FT.	BIT NO.	1	TIME	3 rd	8:00	WEIGHT	8.3	8.5	VIS.-SEC.	29	32	PJ/Y.P.	/	/	GELS.	/	/	/	DEVIATION RECORD	DEPTH	DEVIATION°	DIRECTION	DEPTH	DEVIATION°	DIRECTION	DEPTH	DEVIATION°	DIRECTION		
1	RIG UP TEAR DOWN					1 1/2	X		3.96	SIZE	8 3/4																												
2	DRILLING ACTUAL	7	7 1/4	6 1/2	20 3/4	2 8	X		4.30	MFG.	Smith																												
3	REAMING						X			TYPE	DTJ																												
4	CORING						X			JETS 1/32"	10/10/10																												
5	CLEAN TO BOTTOM AND CIRCULATING						X			SERIAL NO.	DK378																												
6	TRIPS					7/4	7/4	18 DC	X	558.14	DEPTH OUT																												
7	RIG SERVICE	1/4	1/4		1/2		X			DEPTH IN	815				% SOLIDS																								
8	RIG REPAIR					7	DP	STANDS	657.80	TOTAL FTG.	435				% SAND																								
9	CUT AND/OR SLIP LINE						DP	SINGLES		TOTAL HRS. RUN	7				MUD MATERIALS ADDED																								
10	DEVIATION SURVEY	1/2	1/2	1/2	1 1/2	KELLY DOWN			35	BIT CONDITION 1/8" T/B/GAGE																													
11	WIRE LINE LOG					TOTAL			1259.20																														
12	RUN CASING AND CEMENT					WT. OF DC IN AIR			56.372	LBS.																													
13	WAIT ON CEMENT					WT. OF STRING			69	LBS.																													
14	NIPPLE UP B.O.P.					DRILLING ASSEMBLY AT END OF TOUR				BIT RECORD			MUD RECORD			FOOTAGE		ROT. DR-D RM-R CORE NO.		FORMATION (SHOW CORE RECOVERY)		PUMP NO. 1		PUMP NO. 2		METHOD PUMPS RUN													
15	TEST B.O.P.					#1	BIT	FT.	BIT NO.	1	TIME	8:00	12:00	4:00	WEIGHT	8.8	8.9	8.9	VIS. SEC.	38	30	32	PV/Y.P.	/	/	/	GELS.	/	/	/									
16	DRILL STEM TEST					1 1/2	X		3.96	SIZE	8 3/4																												
17	PLUG BACK					2 1/2	X		4.30	MFG.	Smith																												
18	SQUEEZE CEMENT						X			TYPE	DTJ																												
19	STUCK OR FISHING						X			JETS 1/32"	10/10/10																												
20	HANDLE TOOLS						X			SERIAL NO.	DK378																												
21	CONDITION MUD						X																																

DAILY DRILLING REPORT

WELL NAME SHELL TREE RIVER	PROVINCE N.W.3
LOCATION F-57	

OPERATOR Shell Canada Limited	CONTRACTOR Gustafson Drilling	RIG NO. 11
SIGNATURE OF OPERATOR'S REPRESENTATIVE <i>[Signature]</i>	SIGNATURE OF CONTRACTOR'S TOOL PUSHER <i>[Signature]</i>	
DP / DC SIZE 4	WT. / FT. 14.00	GRADE E
MIN. I.D. 3"	TOOL JT. O.D. 5 1/4"	TYPE THREAD FH
PUMP NO. 1	PUMP MANUFACTURER NAT	TYPE 8P80
PUMP NO. 2	PUMP MANUFACTURER NAT	TYPE 8P80
		STROKE LENGTH 8 1/2"

TIME DISTRIBUTION - HOURS				DRILLING ASSEMBLY		BIT RECORD		MUD RECORD			
CODE NO.	OPERATION	MORN.	DAY	EVE.	TOTAL	NO.	CODE	AT END OF TOUR	NO.	CODE	AT END OF TOUR
1	RIG UP										
2	DRILLING ACTUAL										
3	REAMING										
4	CORING										
5	CLEAN TO BOTTOM AND CIRCULATING										
6	TRIPS										
7	RIG SERVICE										
8	RIG REPAIR										
9	CUT AND/OR SLIP LINE										
10	DEVIATION SURVEY										
11	WIRE LINE LOG										
12	RUN CASING AND CEMENT										
13	WAIT ON CEMENT										
14	NIPPLE UP B.O.P.										

TIME DISTRIBUTION - HOURS				DRILLING ASSEMBLY		BIT RECORD		MUD RECORD			
CODE NO.	OPERATION	MORN.	DAY	EVE.	TOTAL	NO.	CODE	AT END OF TOUR	NO.	CODE	AT END OF TOUR
15	TEST B.O.P.										
16	DRILL STEM TEST										
17	PLUG BACK										
18	SQUEEZE CEMENT										
19	STUCK OR FISHING										
20	HANDLE TOOLS										
21	CONDITION MUD										
22	LOST CIRCULATION										
23											
24											
40	PERFORATE										
41	TUBING TRIPS										
42	TREATING										
43	SWABBING										
44	TESTING										
45											

TIME DISTRIBUTION - HOURS				DRILLING ASSEMBLY		BIT RECORD		MUD RECORD			
CODE NO.	OPERATION	MORN.	DAY	EVE.	TOTAL	NO.	CODE	AT END OF TOUR	NO.	CODE	AT END OF TOUR
60	ABANDON										
70	STANDBY										
TOTALS		8	8	8							
HOURS FOR SHELL ACCOUNT											
BOILER		8	8	8							
HOLE CONDITION											
1	HOLE DRAG (1000#)										
2	TORQUE ON BOTTOM (DP TURNS)										
3	FILL ON BOTTOM (FEET)										

DEPTH AT START OF MORNING TOUR	DEPTH AT END OF EVENING TOUR	DAILY PROGRESS	CUMULATIVE ROTATING HOURS	DAYS FROM SPUD	DATE
355	576	221	20 1/2	4	11 14 70
SIZE	WT. AND GR.	NO. OF JOINTS	FEET	KB. TO CSG. HEAD	SET AT
CEMENT USED (SACKS)	REMARKS				

FOOTAGE		ROT. HOURS	DR-D RM-R CORE-C	CORE NO.	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT. ON BIT (1000#)	PUMP (AIR) PRESS.	AIR VOL. (CFM)	PUMP NO. 1 LINER SIZE S.P.M.	PUMP NO. 2 LINER SIZE S.P.M.	METHOD PUMPS RUN
FROM	TO											
355	398	5	42				85	7m	300	6	155	
DEVIATION RECORD		DEPTH	DEVIATION°	DIRECTION	DEPTH	DEVIATION°	DIRECTION	DEPTH	DEVIATION°	DIRECTION		
FROM	TO											
1200	1215	1/4										
1215	500	4 3/4										
500												
TIME LOG		ELAPSED TIME	CODE	DETAILS OF OPERATION IN SEQUENCE AND REMARKS								
FROM	TO											
1200	1215	1/4		RIG SER								
1215	500	4 3/4		REAM FROM 8 3/4" HOLE TO 13 3/4"								
500				PULL OUT REAMER & WELD ON NEW B.C. TO NEW REAMER								
				RUN IN								
				REAM FROM 8 3/4" TO 13 3/4"								

FOOTAGE		ROT. HOURS	DR-D RM-R CORE-C	CORE NO.	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT. ON BIT (1000#)	PUMP (AIR) PRESS.	AIR VOL. (CFM)	PUMP NO. 1 LINER SIZE S.P.M.	PUMP NO. 2 LINER SIZE S.P.M.	METHOD PUMPS RUN
FROM	TO											
398	495	95	7 3/4				150	5m	300	6	160	
DEVIATION RECORD		DEPTH	DEVIATION°	DIRECTION	DEPTH	DEVIATION°	DIRECTION	DEPTH	DEVIATION°	DIRECTION		
FROM	TO											
800	1000	2										
1000	1015	1/4										
1015	400	5 3/4										
TIME LOG		ELAPSED TIME	CODE	DETAILS OF OPERATION IN SEQUENCE AND REMARKS								
FROM	TO											
800	1000	2		REAM 8 3/4" HOLE TO 13 3/4" HOLE								
1000	1015	1/4		RIG SER.								
1015	400	5 3/4		REAM 8 3/4" HOLE TO 13 3/4" HOLE								

FOOTAGE		ROT. HOURS	DR-D RM-R CORE-C	CORE NO.	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT. ON BIT (1000#)	PUMP (AIR) PRESS.	AIR VOL. (CFM)	PUMP NO. 1 LINER SIZE S.P.M.	PUMP NO. 2 LINER SIZE S.P.M.	METHOD PUMPS RUN
FROM	TO											
495	576	7 3/4	82				140	5-10	350	6	155	
DEVIATION RECORD		DEPTH	DEVIATION°	DIRECTION	DEPTH	DEVIATION°	DIRECTION	DEPTH	DEVIATION°	DIRECTION		
FROM	TO											
400	630	2 1/2										
630	645	1/4										
645	1200	5 1/4										
TIME LOG		ELAPSED TIME	CODE	DETAILS OF OPERATION IN SEQUENCE AND REMARKS								
FROM	TO											
400	630	2 1/2		REAM 8 3/4" HOLE TO 13 3/4" HOLE								
630	645	1/4		RIG SER.								
645	1200	5 1/4		REAM 8 3/4" HOLE TO 13 3/4" HOLE								

