

SHELL-BEAVER LAKE

M-39-A

WELL NAME Shell Beaver Lake H-39-A
FIELD Wilcox Area:
LOCATION: Unit K Section 09 Grid 61-10-117-00
Latitude 61-09-00 Longitude 117-07-02.81
From Established Reference Marker 36th Baseline

U.W.I.R 61 15000 - 117 117 45
U.W.I. 362 M346 110 117 000

Rig Release Date: March 6, 1968
Status D & A
Information Release Date

CHANGE OF NAME:

DATE RECEIVED	INDEX
29-2-68	Application for a Drilling Authority.
19-3-68	Well Completion Data.
	Well History Report.
	Application to Amend a Drilling Authority.
	Application to change a Well Name.
May 6 1968	Application to Abandon a Well or Suspend Drilling.
	Application to Alter Condition of a Well.
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	Application to Commingle Production before Measurement.
	Data for Back Pressure Test on Natural Gas Wells — Monograph 7 Method.
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	M.P.R. — Oil — Calculations.
	New Oil Well Report.
	New Gas Well Report.
	Well Inspection Report.
	Rig inspection Report.
	Battery Inspection Report.
	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

CEMENTING RECORD (Plug Squeeze, etc.)				PERFORATING RECORD (Bullet, Jet)				SERVICING RECORD (Acidizing, Plugging, etc.)			
Date	From	To	Remarks	Date	From	To	Remarks	Date	From	To	Remarks
Mar. 6/68	990	Surface	Cemented with 140 sacks + 42 gal in 3 stages 3rd stage completed 4:30 p.m. March 6, 1968 Cut off casing 3' below ground. Welded on plate.	Nil				Nil			

DRILL STEM TESTS

No.	Date	Formation	From	To	V.O. Min.	I.S.I. Min.	F.S.I. Min.	I.S.I.R.H.P.	F.S.I.R.H.P.	L.F.R.H.P.	F.F.R.H.P.	L.H.P.	F.H.P.	REMARKS
Nil														

ANALYSIS

Lab. No.	Sample	From	To	Source	Remarks	PRESENT STATUS OF WELL			
Nil						Oil			(Interval)
						Gas			(Interval)
						Dry			
						Susp.			

Company **Shell Canada Limited**
 ORIGINAL SIGNATURE
 Signed by **P. J. BERN** for **A.M. McLachlin**
 Title **Manager - Edmonton Division Production**
 Date **March 19, 1968**

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



File No. 312
Drilling Authority No.

DEPARTMENT OF INDIAN AFFAIRS AND NORTHERN DEVELOPMENT
RESOURCE MANAGEMENT DIVISION

Application to Abandon a Well or Suspend 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 Beaver Lake #39(A)

Location: Unit # Section 33
Latitude 61° 09' 00"N Longitude 117° 07' 02.84"W

From Established Reference Marker

Universal Well Location Reference 61.15000° N. Lat. 117.11745° W. Long.

Permit No. Lease No.

Shell Canada Limited

(Particulars, License, License)

Date of commencement of proposed program—

OIL, GAS, AND WATER ENCOUNTERED
(Depths)

Oil at 311

Gas at 704-719

Water at Slave Point shown to be water bearing by logs

Total Depth 330

Present condition of well Plugged & Abandoned Date of last operations March 6, 1968

CASING RECORD

Casing Size O.D. Inches	Weight	Amount	Set At—	Sacks of Cement and Additives	Amount Palled
7"	H.40	198.51'	207.51' KB	80 sacks + 2% CaCl ₂	311
1.					
2.					
3.					
4.					
5.					

PROPOSED ABANDONMENT PROGRAM

No.	Flag Position	Geological Formation	Number of Sacks of Cement	Remarks
1	TD - Surface	Devonian-Surface	140 Sacks	+ 4% Gel. Cement in 3 stages. Cut off casing 3' below ground level. Weld on plate; erect sign

The following logs have been run None

Other operations proposed

Operations Calgary, Alberta Big Indian Drilling Co. 18213

Address V.A. Albertson Contractor Calgary, Alberta

Responsible Agent in Charge Edmonton 19 March 68

Dated at A.M. McLaughlin this 19 March 68

Signed Manager-Edmonton Div. Production Company Shell Canada Limited 1877

Title Operator's Exploratory Licence No.

Note:—The Oil Conservation Engineer's office must be notified before work is commenced.

(For RESOURCE MANAGEMENT DIVISION use only)

APPROVAL

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

Confirming oral approval given by Mr. B.D.J. Thoms on the 6th of March 1968.

Dated 6th May 1968

Oil Conservation Engineer

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

Drilling Authority No. 312

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 Beaver Lake M-39 (A)**
 Location Unit **M** Section **39** Grid **61°10'00", 117°00'00"**
 Latitude **61° 09' 00"** Longitude **117° 07' 02.84"**
 From Established Reference Marker
 Universal Well Location Reference **61.15000° N. Lat. 117.11745° W. Long.**
 Elevation: Ground **307** K.B. **316** feet above sea-level.
 Well is expected to produce from **Slave Point** formation at a depth
 of about **700** feet. Expected total final depth **1300**
 Area assigned to well
 (For Oil Conservation Engineer's use only)

Permit No. **3194** Lease No. **30,960**
 Permittee, licensee, or lessee **Shell Canada Limited**
 Exploratory Licence No. **1877**
 Surface owned by Crown or **Crown**

Petroleum and natural-gas rights owned by **Shell Canada Limited**

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	Feet of Cement
7"	170	M-40	Used	215	80 sacks
1.					
2.					
3.					
4.					
5.					

Expected water, gas, and oil horizons and type of control equipment

Slave Point
6" Series 900 Type B Hydraulic Double Shaeffer
6" Series 900 CK Hydril

Well will be drilled with Rotary Rig No. **17** by **Big Indian Drilling Co. Ltd.**
 (Drilling Contractor or company)

Responsible agent of applicant: **W. A. Robertson** Contractor's Business Licence No. **18213**
 At well **Box 186, Edmonton** At registered office **Box 186, Edmonton**
 Address Address
 It is understood that if changes become necessary, notice of the change of plan will be submitted.
 Dated at **Edmonton** this **5** day of **March** 1968
 Signed by **J. M. MacLEOD for A. M. McLachlin** day of **March** 1968
Manager-Edmonton Division Company **Shell Canada Limited**
 Title **Production** Operator's Licence No. **1877**

(For Resource Management Division use only)

APPROVED

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

Dated **29th February** 1968

Oil Conservation Engineer

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

Drilling Authority No. 312

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 Beaver Lake M-39-A
 Location: Unit M Section 39 Grid 61-10-117-00
 Latitude 61-09-00 N Longitude 117-07-02.84 W
 From Established Reference Marker 34th Baseline
 Universal Well Location Reference Lat. 61.15000 N., Long. 117.11745 W.
 Elevation: Ground 507 K.B. 516 feet above sea-level.
 Well is expected to produce from formation at a depth
 of about feet. Expected total final depth
 Area assigned to well

(for Oil Conservation Engineer's use only)

Permit No. 3194 Lease No. Acreage

Permittee, licensee, or leasee Shell Canada Limited

Exploratory Licence No. 1877

Surface owned by Crown or

(If allocated submit name and address of owner and occupant)

Petroleum and natural gas rights owned by

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	Backs of Cement
1. 7"	17#	H.40			30 sacks and
2.					2% CaCl ₂
3.					
4.					
5.					

Expected water, gas, and oil horizons and type of control equipment

Well will be drilled with Rotary Rig No. 17 by Big Indian Drilling Co. Ltd.
 (Drilling Contractor or company)

Responsible agent of applicant:--

Contractor's Business Licence No. 18213

At well

At registered office

Address

Address

It is understood that if changes become necessary, notice of the change of plan will be submitted.

Dated at this 29th day of February 19 68

Signed by Company Shell Canada Limited

Title Operator's Licence No. 1877

(For Resource Management Division use only)

APPROVED

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

Dated 19

Oil Conservation Engineer

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

SHELL BEAVER LAKE M-39(A)

61°09'00"N 117°07'02.84"W

WELL HISTORY REPORT



WELL HISTORY REPORT
SHELL BEAVER LAKE M-39A
SHELL CANADA LIMITED
APRIL 15, 1968.

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

Shell Beaver Lake M-39(A)

(b) Permittee

Shell Canada Limited

(c) Operator

Shell Canada Limited, Box 186, Edmonton, Alberta.

(d) Location

Unit M	Section 39	Grid 61°10'00" 117°00'00"
Latitude 61°09'00"		Longitude 117°07' 02.84"

(e) Permit Number

3194

(f) Drilling Contractor

Big Indian Drilling Co. Ltd., Rig #17

(g) Drilling AuthorityDrilling Authority No. 312
Issued February 29, 1968.(h) Classification

Wildcat

(i) Elevations

Ground 507, K.B. 516

(j) Spudded

Feb. 29, 1968.

(k) Completed Drilling

March 5, 1968.

(l) Abandoned

March 6, 1968.

(m) Total Depth and Plugged Back Total Depth

T.D. 990 K.B. (Driller)
P.B.T.D. - Surface

(n) Well Status

Dry and abandoned

(o) Rig Released

March 6, 1968

(p) Hole Size

9 7/8" to 216'
6 1/4" to 990'

(q) Casing

4 joints 7" H40, 1 joint 7" J55 landed at 207.51 K.B. , with 80
sacks cement + 2% CaCl₂

(r) Universal Well Location Reference

Lat. 61.15000° N.
Long. 117.11745° W.

(s) Unique Well Identifier

302M396110117000

SECTION II GEOLOGICAL SUMMARY

(a) Formation Tops

Formation
Slave Point

Depth (K.B.)
703 (-187)

(b) Cores

No core cut

(c) Sample Description

See attached report

SECTION III ENGINEERING SUMMARY(a) Drillstem Tests

None

(b) Casing Record

Size	Weight	Grade	Amount	Depth	Cement
7"	17#	H40	4 jts		
7"	20#	J55	1 jt.	207.51 K.B.	80 sacks + 2% CaCl ₂

(c) Bit Record

No.	Size	Type	Depth Out	Feet Cut	Hours
1A	9 7/8"	YT3	216	216	10 1/4
1	6 1/4	DT	824	608	24 1/2
2	6 1/4	DT	990	166	18 1/4

(d) Mud Record

Caustic	Gel	CMC	Peltex
2 sacks	34 sacks	2 sacks	1 sack

(e) Deviation Record

Depth	Deviation (Totco°)
41	1/4
130	3/4
160	7/8
740	1 1/2
990	1

(f) Abandonment Plugs

Date	Interval	Cement & Additives	Remarks
Mar. 6/68	990-Surface	140 sacks + 4% Gel	Cut off csg. 3' below ground level, welded on plate and erected sign.

(g) Lost Circulation Zones

708' K.B. Pumped 30 bbls mud in formation (Slave Point)
Added 3 bags sawdust and circulated.

(h) Blowouts

Well blew out at 708' K.B. All the mud was blown out of the hole by gas. Pressure built up to 300 PSI on manifold and 200 PSI on standpipe. Gas was flared off at flare pit followed by water flow while trying to bleed pressure off. Pumped 9.5 wt. mud and 3 sacks sawdust into hole and kept bleeding off pressure until well was killed. Circulated and conditioned mud for two hours after well was killed before drilling ahead.

SECTION IV LOGS

	<u>Date</u>	<u>Interval</u>	<u>Type</u>
986-208'	Mar.5/68	TD Surface Csg	BHC Sonic Gamma Ray
990-208'	Mar.5/68	TD Surface Csg	Microlog Caliper
990-208'	Mar.5/68	TD Surface Csg	I.Z.S.

Three copies of each log forwarded March 28, 1968.

SECTION V ANALYSIS

(a) Core Analysis

None

(b) Water Analysis

None

(c) Gas Analysis

None

(d) Oil Analysis

None

SECTION VI COMPLETION RECORD(a) Tubing Record

None

(b) Perforation Record

None

(c) Cementation Record

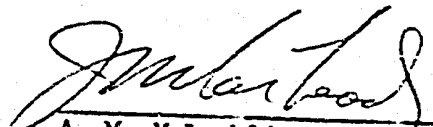
<u>Plug No.</u>	<u>Date</u>	<u>Interval</u>	<u>Formation</u>	<u>Cement</u>
1	Mar.5/68	990-Surface	Slave Point	140 sacks + 4% Gel.

(d) Acidization and Fracturing Record Cut off casing 3' below ground, welded on plate and erected sign.

None

(e) Back Pressure and Production Tests

None


 A. M. McLachlin, Manager,
 Edmonton Division Production.

SHELL BEAVER LAKE Y-39

T.D. 990

K.B. 516

LATITUDE: 61° 09' 00" N.

LONGITUDE: 117° 07' 04" W.

0' -200'		DRIFT. With shale traces.
200' -210'	Shale	Shale, grey, calcareous.
210' -220'	Shale	Shale, grey, calcareous.
220' -230'	Shale	Shale, grey, calcareous.
230' -240'	Shale	Shale, grey, calcareous.
240' -250'	Shale	Shale, grey, calcareous.
250' -260'	Shale	Shale, grey, calcareous.
260' -270'	Shale	Shale, grey, calcareous.
270' -280'	Shale	Shale, grey, calcareous.
280' -290'	Shale	Shale, grey, calcareous.
290' -300'	Shale	Shale, grey, calcareous.
300' -310'	Shale	Shale, grey, calcareous.
310' -320'	Shale	Shale, grey, calcareous.
320' -330'	Shale	Shale, grey, calcareous.
330' -340'	Shale	Shale, grey, calcareous.
340' -350'	Shale	Shale, grey, calcareous.
350' -360'	Shale	Shale, grey, calcareous.
360' -370'	Shale	Shale, grey, calcareous.

370' -380'	Shale	Shale, grey, calcareous.
380' -390'	Shale	Shale, grey, calcareous.
390' -400'	Shale	Shale, grey, calcareous.
400' -410'	Shale	Shale, grey, calcareous.
410' -420'	Shale	Shale, grey, calcareous.
420' -430'	Shale	Shale, grey, calcareous.
430' -440'	Shale	Shale, grey, calcareous.
440' -450'	Shale	Shale, grey, calcareous.
450' -460'	Shale	Shale, grey, calcareous.
460' -470'	Shale	Shale, grey, calcareous.
470' -480'	Shale	Shale, grey, calcareous.
480' -490'	Shale	Shale, grey, calcareous.
490' -500'	Shale	Shale, grey, calcareous.
500' -510'	Shale	Shale, grey, calcareous.
510' -520'	Shale	Shale, grey, calcareous.
520' -530'	Shale	Shale, grey, calcareous.
530' -540'	Shale	Shale, grey, calcareous.
540' -550'	Shale	Shale, grey, calcareous.
550' -560'	Shale	Shale, grey, calcareous.
560' -570'	Shale	Shale, grey, calcareous.
570' -580'	Shale	Shale, grey, calcareous.
580' -590'	Shale	Shale, grey, calcareous.
590' -600'	Shale	Shale, grey, calcareous.
600' -610'	Shale	Shale, grey, calcareous.
610' -620'	Shale	Shale, grey, calcareous.
620' -630'	Shale	Shale, grey, calcareous.

630' -640'	Shale	Shale, grey, calcareous.
640' -650'	Shale	Shale, grey, calcareous.
650' -660'	Shale	Shale, grey, calcareous.
660' -670'	Shale	Shale, grey, calcareous.
670' -680'	Shale	Shale, grey, calcareous.
680' -690'	Shale	Shale, grey, calcareous.
690' -700'	Shale	Shale, grey, calcareous.
700' -710'	Limestone	Limestone, slightly dolomitic, with some shale, trace of pyrite.
710' -720'	Limestone	Limestone, light grey-medium brown, fossiliferous, with traces of spar and dolomite.
720' -730'	Limestone	Limestone, light grey-brown, fossiliferous, with traces of spar and dolomite.
730' -740'	Limestone	Limestone, medium brown-grey, fossiliferous, traces of shale and spar.
740' -750'	Limestone	Limestone, medium grey-brown, fossiliferous, with trace of spar.
750' -760'	Limestone	Limestone, medium grey-brown, fossiliferous, with trace of spar.
760' -770'	Limestone	Limestone, medium grey-brown, fossiliferous, trace of dolomite.
770' -780'	Limestone	Limestone, medium grey-brown, fossiliferous.
780' -790'	Limestone	Limestone, medium grey-brown, fossiliferous.
790' -800'	Limestone	Limestone, medium-light brown, fossiliferous, trace of shale.

800' -810'	Limestone	Limestone, medium-light brown, fossiliferous, trace of shale.
810' -820'	Limestone	Limestone, medium-light brown, fossiliferous, trace of shale.
820' -830'	Limestone	Limestone, medium-light brown, fossiliferous, trace of sparry matrix.
830' -840'	Limestone	Limestone, medium-light brown, fossiliferous, trace of sparry matrix.
840' -850'	Limestone	Limestone, medium-light brown, fossiliferous, trace of sparry matrix.
850' -860'	Limestone	Limestone, medium-light brown, fossiliferous, trace of sparry matrix and shale.
860' -870'	Limestone	Limestone, medium-light brown grey, fossiliferous, some sparry cement.
870' -880'	Limestone	Limestone, medium-light brown grey, fossiliferous, some sparry cement.
880' -890'	Limestone	Limestone, medium-light brown grey, fossiliferous, some sparry cement.
890' -900'	Limestone	Limestone, medium-light brown grey, fossiliferous, some sparry cement.
900' -910'	Limestone	Limestone, medium-light brown grey, fossiliferous, some sparry cement.
910' -920'	Limestone	Limestone, medium-light brown grey, fossiliferous, some sparry cement.
920' -930'	Limestone	Limestone, medium-light brown grey, fossiliferous, some sparry cement.

930' -940'	Limestone	Limestone, light grey, fossiliferous.
940' -950'	Limestone	Limestone, light grey, fossiliferous.
950' -960'	Limestone	Limestone, light grey, fossiliferous.
960' -970'	Limestone	Limestone, white, fossiliferous.
970' -980'	Limestone	Limestone, light grey, fossiliferous.
980' -990'	Limestone	Limestone, light grey, fossiliferous.

OPERATOR		SHELL CANADA LIMITED		LOCATION		LSD.	SEC.	TWP.	RGE.	W.	WELL NAME		No.		PROVINCE																						
CONTRACTOR		BIG INDIAN		RIG NO.		17		DRILL PIPE STRING NO. SIZE		TOOL JOINT		OD		PUMPS		CASING & LINER RECORD		DEPTH SET		PERFORATIONS		CEMENT USED		OTHER													
OPERATOR'S REPRESENTATIVE		W. R. A. Chute		CONTRACTOR'S TOOL PUSHER		W. R. A. Chute		NO.		MANUFACTURER		TYPE		STROKE LENGTH		SIZE		WT. & GR.		FROM		TO		FROM		TO											
TIME DISTRIBUTION—HOURS		MORN		DAY		EVE		NO.		DRILLING ASSEMBLY		BIT RECORD		HRS. DRLD.		CORE NO.		FROM		TO		FORMATION (SHOW CORE RECOVERY)		ROTA- RY R.P.M.		WT. ON BIT 1000#		PUMP PRESS.		PUMP NO. 1 LINER SIZE S.P.M.		PUMP NO. 2 LINER SIZE S.P.M.		METHOD PUMPS RUN		MUD RECORD	
DRILLING ACTUAL								STANDS DP		FT.		RUN NO.																								TIME	
REAMING								SNGLS. DP		FT.		SIZE																						WEIGHT			
CIRCULATING								D.C. ID		FT.		MFG.																						VISC			
TRIPS								RMR BODY OD		FT.		NOZ. NO.																						W.L.C.C.			
DEVIATION SURVEY								STB BODY OD		FT.		SIZE																						FLTR. CK.			
TEST B.O.P								SUBS OD		FT.		SER. NO.																						PH			
CUT OFF DRILL LINE								BIT OR C.B.		FT.		DEPTH OUT																						SD. CONT.			
REPAIR RIG										FT.		CUMULATIVE HOURS RUN																									
CORING								KELLY DOWN		FT.		COND. OF BIT																									
WIRE LINE LOGGING								TOTAL		FT.		REAMER CUTTER NO.																									
OTHER								WT. OF STRING		LBS.		TYPE																									
FISHING								DRILLER																													
COMPLETING (A) PERFORATING								NO.		DRILLING ASSEMBLY		BIT RECORD		HRS. DRLD.		CORE NO.		FROM		TO		FORMATION (SHOW CORE RECOVERY)		ROTA- RY R.P.M.		WT. ON BIT 1000#		PUMP PRESS.		PUMP NO. 1 LINER SIZE S.P.M.		PUMP NO. 2 LINER SIZE S.P.M.		METHOD PUMPS RUN		MUD RECORD	
(B) RUNNING TUBING								STANDS DP		FT.		RUN NO.																						TIME			
(C) SWABBING								SNGLS. DP		FT.		SIZE																						WEIGHT			
(D) TESTING								D.C. ID		FT.		MFG.																						VISC			
(E) ACIDIZING								RMR BODY OD		FT.		NOZ. NO.																						W.L.C.C.			
(F) ADDITIONAL								STB BODY OD		FT.		SIZE																						FLTR. CK.			
TOTALS								SUBS OD		FT.		SER. NO.																						PH			
TIME SUMMARY (OFFICE USE ONLY)								BIT OR C.B.		FT.		DEPTH OUT																						SD. CONT.			
CONTRACTOR'S TIME HRS.										FT.		CUMULATIVE HOURS RUN																									
OPERATOR'S TIME:								KELLY DOWN		FT.		COND. OF BIT																									
HRS. W/D.P.:								TOTAL		FT.		REAMER CUTTER NO.																									

[illegible]

DATE 10/3/55		DAILY DRILLING REPORT		WELL NAME		No.		PROVINCE																													
OPERATOR		SHELL CANADA LIMITED		LOCATION		LSD.		SEC.		TWP.		RGE.		W.		BEAVER LAKE M-39																					
CONTRACTOR		BIG INDIAN DRILL CO.		RIG No.		17		DRILL PIPE STRING NO. SIZE		TOOL JOINT CD		PUMPS		Casing & Liner Record		SIZE		WT. & GR.		DEPTH SET FROM TO		PERFORATIONS FROM TO		CEMENT USED		OTHER											
OPERATOR'S REPRESENTATIVE		CONTRACTOR'S TOOL PUSHER		NO.		1.		MANUFACTURER		TYPE		STROKE LENGTH		1.																							
				2.										2.																							
				3.										3.																							
TIME DISTRIBUTION—HOURS		MORN		DAY		EVE		NO.		DRILLING ASSEMBLY		BIT RECORD		HRS. DRLD.		CORE NO.		FROM		TO		FORMATION (SHOW CORE RECOVERY)		ROTA- RY R.P.M.		WT. ON BIT 1000#		PUMP PRESS.		PUMP NO. 1 LINER SIZE S.P.M.		PUMP NO. 2 LINER SIZE S.P.M.		METHOD PUMPS RUN		MUD RECORD	
DRILLING ACTUAL		7 1/4						12		STANDS DP 384 FT.		RUN NO. 1						708		789				90										TIME 9.5 7.00 6.00			
REAMING								8		SNGLS. DP 231 FT.		SIZE 6 1/4																				WEIGHT 67 9.3 9.2					
CIRCULATING								5		D.C. ID 151 FT.		MFG. Smith																		VISC 60 57							
TRIPS								RMR BODY OD		FT.		NO.																		W.L.C.C. 8.0 8.0 8.0							
DEVIATION SURVEY		1/4						STB BODY OD		FT.		NOZ. SIZE																		FLTR. CK. 2/32							
TEST B.O.P.		H						SUBS OD		FT.		SER. NO.																		PH 10							
CUT OFF DRILL LINE								BIT OR C.B.		FT.		DEPTH OUT																		SD. CONT.							
REPAIR RIG										FT.		CUMULATIVE HOURS RUN																									
CORING								KELLY DOWN		23		FT.		COND. OF BIT																							
WIKE LINE LOGGING								TOTAL		789		FT.		REAMER CUTTER NO.																							
OTHER								WT. OF STRING		LBS.		TYPE																									
FISHING								DRILLER		Richardson																											
COMPLETING (A) PERFORATING								NO.		DRILLING ASSEMBLY		BIT RECORD		HRS. DRLD.		CORE NO.		FROM		TO		FORMATION (SHOW CORE RECOVERY)		ROTA- RY R.P.M.		WT. ON BIT 1000#		PUMP PRESS.		PUMP NO. 1 LINER SIZE S.P.M.		PUMP NO. 2 LINER SIZE S.P.M.		METHOD PUMPS RUN		MUD RECORD	
(B) RUNNING TUBING								STANDS DP		FT.		RUN NO.																				TIME 12.5					
(C) SWABBING								SNGLS. DP		FT.		SIZE																		WEIGHT 8.15 9.3							
(D) TESTING								D.C. ID		5		MFG. 6 1/4																		VISC 4.4 5.3							
(E) ACIDIZING								OD		2380		FT.		TYPE Smith																W.L.C.C. 5.4							
(F) ADDITIONAL								RMR BODY OD		1576		FT.		NO. 3.5																FLTR. CK.							
TOTALS								STB BODY OD		FT.		NOZ. SIZE																		PH							
TIME SUMMARY (OFFICE USE ONLY)								SUBS OD		FT.		SER. NO.																		SD. CONT.							
CONTRACTOR'S TIME HRS.								BIT OR C.B.		FT.		DEPTH OUT																									
OPERATOR'S TIME:																																					

DATE *MARCH 3/68*

OPERATOR		LOCATION		LSD.	SEC.	TWP.	RGE.	W.	WELL NAME	No.	PROVINCE	
SHELL CANADA LIMITED		LAT. 61° 09' 00"		LONG. 117° 01' 30.04"					BETTER LAKE M-39-D		N.W.T.	
CONTRACTOR		RIG No.	DRILL PIPE STRING NO. SIZE	TOOL JOINT OD	PUMPS	CASING & LINER RECORD	SIZE	WT. & GR.	DEPTH SET FROM TO	PERFORATIONS FROM TO	CEMENT USED	OTHER
BIG INDIAN DRG		17										
OPERATOR'S REPRESENTATIVE		CONTRACTOR'S TOOL PUSHER		TYPE THD.	NO.	MANUFACTURER	TYPE	STROKE LENGTH				
[Signature]		[Signature]			1.							
					2.							
					3.							

TIME DISTRIBUTION—HOURS

	MORN	DAY	EVEN
DRILLING ACTUAL	3 1/2		8
REAMING			
CIRCULATING			
TRIPS			
DEVIATION SURVEY			
TEST B.O.P	1/4		
CUT OFF DRILL LINE			
REPAIR RIG	1/2		
CORING			
WIRE LINE LOGGING			
OTHER M.M.M.D	3 3/4		
FISHING			

MORNING TOUR

[illegible]

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NO. DRILLING ASSEMBLY				BIT RECORD	
8	STANDS	DP	FT.	RUN NO.	1
	SNGLS.	DP	FT.	SIZE	6 1/4
	ID		MFG.		Smith
	OD	231.80	FT.	TYPE	DT
5	RMW	EX	FT.	NO.	
	BODY	OD	151.76	NO.	
	STB		FT.	SIZE	
	BODY	OD			
	SUBS	OD	FT.	SER. NO	45-037
	BIT OR C.B.		FT.	DEPTH OUT	
			FT.	CUMULATIVE HOURS RUN	11 1/4
	KELLY DOWN		FT.	COND. OF BIT	
	TOTAL		FT.	REAMER CUTTER NO.	
WT. OF STRING			LBS.	TYPE	
DRILLER					

HRS. DRLD.	CORE NO.	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTA- RY R.P.M.	WT.ON BIT 1000#	PUMP PRESS.	PUMP NO. 1		PUMP NO. 2		METHOD PUMPS RUN
								LINER SIZE	S.P.M.	LINER SIZE	S.P.M.	
3 1/2		486.676.										
DEVIATION RECORD:		DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION		
12.00	RIG SERVICE											REMARKS
12.45	DRLG											
2.15	CLEAN MUD TANKS											
2.30	MIX MUD.											
6.00	DRLG											
6.45	RIG REPAIR											
7.15	DRLG											

MUD RECORD			
TIME	6.00		
WEIGHT	8.6		
VISC	48		
W.L.C.C.	9.0		
FLTR. CK.	2/32		
PH	10		
SD. CONT.			
MUD & CHEMICALS ADDED			
TYPE	AMT.	TYPE	AMT.
100 LB CAUSTIC			
27 SAE GEL			
1 1/2 SAE CMC			

COMPLETING			
(A) PERFORATING			
(B) RUNNING TUBING			
(C) SWABBING			
(D) TESTING			
(E) ACIDIZING			
(F) ADDITIONAL			
TOTALS			
TIME SUMMARY (OFFICE USE ONLY)			
CONTRACTOR'S TIME HRS:			
OPERATOR'S TIME:			
HRS. W/D.P.:			
HRS WO/D.P.:			
HRS STANDBY			

NO. DRILLING ASSEMBLY			BIT RECORD	
STANDS	DP	FT.	RUN NO.	
SNGLS.	DP	FT.	SIZE	
D.C.			MFG.	
RMR		FT.	TYPE	
BODY	OD	FT.	NO	
STB		FT.	SIZE	
BODY	OD			
SUBS	OD	FT.	SER. NOS	
BIT OR C.B.		FT.	DEPTH OUT	
		FT.	CUMULATIVE HOURS RUN	
KELLY DOWN		FT.	COND. OF BIT	
TOTAL		FT.	REAMER CUTTER NO.	
WT. OF STRING		LBS.	TYPE	
DRILLER				

HRS. DRLD.	CORE NO.	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTA- RY R.P.M.	WT. ON BIT 1000s	PUMP PRESS.	PUMP NO. 1		PUMP NO. 2		METHOD PUMPS RUN
								LINER SIZE	S.P.M.	LINER SIZE	S.P.M.	
12	676		108		120	14	35	5	65			
DEVIATION RECORD:		DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION		
REMARKS												
00 Service rig & check R. & P. S. 8:30 Work on pump 9:00 Stop.												
30 20 ft. subline (R. & P. S.) well being run 35 20 ft. subline up rig & pump. 38 Build up well.												

MUD RECORD			
TIME	8:15		
WEIGHT	8.6		
VISC	53		
W.L.C.C.			
FLTR. CK.			
PH			
SD. CONT.	///		
MUD & CHEMICALS ADDED			
TYPE	AMT	TYPE	AMT
Gel. 2000			

[illegible]

STANDS DP		FT.	RUN NO
SNGLS DP		FT.	SIZE
ID		MFG.	
D.C		FT. TYPE	
RMR BODY OD		FT.	NO.
STB BODY OD		FT.	SIZE
SUBS OD		FT.	SER NO
BIT OR C.B.		FT.	DEPTH OUT
		FT.	CUMULATIVE HOURS RUN
KELLY DOWN		FT.	COND. OF BIT
TOTAL		FT.	REAMER CUTTER NO.
WT OF STRING		LBS.	TYPE
DRILLER			

HRS. DRLD.	CORE NO.	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTA- RY R.P.M.	WT.ON BIT 1000#	PUMP PRESS	PUMP NO. 1		PUMP NO. 2		METHOD PUMP RUN
								LINER SIZE	S.P.M.	LINER SIZE	S.P.M.	
DEVIATION RECORD:	DEPTH		DEV.	DIRECTION	DEPTH		DEV.	DIRECTION	DEPTH		DEV.	DIRECTION
9:00 CONDITION MUD TO KILL WELL KILL WELL 9:00 CIRCULATE CONDITION MUD WELL BLEW OUT AT 70' 11:05 GET READY TO DRILL. LOST CIRCULATION 30 BBL MUD WHILE TRYING TO KILL WELL. PRESSURE BUILT UP TO 300 PSI ON MANIFOLD AND 200 ON STANDPIPE. PUMPED 9.5 MUD AND 3 INCH SAWDUST INTO HOLE AND START BLEEDING OFF UNTIL WELL KILLED. KILLED AT 9:00 P.M. CALCULATED AND CONDITIONED MUD FOR 2 HOURS. 10 P.M.												

[illegible]

OPERATOR		LOCATION		SEC.	TWP.	RGE.	W.	WELL NAME	No.	PROVINCE		
SHELL CANADA LIMITED		LAT. 61° 09' 00" LONG. 117° 01' 30.04"						SHELL BEAVER LAKE M39-A.		N.W.T.		
CONTRACTOR		RIG No.	DRILL PIPE STRING NO. SIZE	TOOL JOINT	OD	PUMPS		CASING & LINER RECORD	DEPTH SET	PERFORATIONS	CEMENT USED	OTHER
BIG-INDIAN		17				NO. MANUFACTURER TYPE STROKE LENGTH			7" 17LB KB 207.51		80 SAK 2% C.A.R.L.	
OPERATOR'S REPRESENTATIVE		CONTRACTOR'S TOOL PUSHER										
W.R. Melton		John G. Forsyth										
TIME-DISTRIBUTION—HOURS		MUD RECORD										
MORN DAY EVE		TIME										
DRILLING ACTUAL 2		WEIGHT										
REAMING		VISC										
CIRCULATING 1 1/4		W.L.C.C.										
TRIPS		FLTR. CK.										
DEVIATION SURVEY		PH										
TEST B.O.P.		SD. CONT.										
CUT OFF DRILL LINE		REMARKS										
REPAIR RIG		B.R. To Run CSQ 415.445 RAN 197.51, 7"										
CORING WOC 8		Run CSQ 445 630 CASING H USED H40										
WIRE LINE LOGGING		CIR. CSQ 630 700										
OTHER 3 1/2		CEMENT CSQ 700 730 LANDED AT 272.51' KE										
FISHING		W.O.C. 730 600										
COMPLETING (A) PERFORATING		W.P.D.										
(B) RUNNING TUBING												
(C) SWABBING												
(D) TESTING												
(E) ACIDIZING												
(F) ADDITIONAL												
TOTALS												
TIME SUMMARY (OFFICE USE ONLY)												
CONTRACTOR'S TIME HRS:												
OPERATOR'S TIME:												
HRS. W/D.P.:												
HRS. WO/D.P.:												
HRS. STANDBY:												
WIRE LINE RECORD												
REEL NO												
NO OF LINES SIZE												
FEET SLIPPED												
FEET CUT OFF												
PRESENT LENGTH												
TON MI. OF TRIPS SINCE LAST CUT												
CUMULATIVE TON MI. OF TRIPS												
NO. OF DAYS FROM SPUD												
CUMULATIVE ROTATING HRS.												

NO. DRILLING ASSEMBLY		BIT RECORD		HRS. DRLD.	CORE NO.	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTA- RY R.P.M.	WT. ON BIT 1000#	PUMP PRESS.	PUMP NO. 1 LINER SIZE S.P.M.	PUMP NO. 2 LINER SIZE S.P.M.	METHOD PUMPS RUN	MUD RECORD	
STANDS DP	FT.	RUN NO.													TIME	
SNGLS. DP	FT.	SIZE													WEIGHT	
D.C. ID	FT.	MFG.													VISC	
OD	FT.	TYPE													W.L.C.C.	
RMR BODY OD	FT.	NO.													FLTR. CK.	
STB BODY OD	FT.	NOZ. SIZE													PH	
SUBS OD	FT.	SER. NO.													SD. CONT.	
BIT OR C.B.	FT.	DEPTH OUT														
	FT.	CUMULATIVE HOURS RUN														
KELLY DOWN	FT.	COND. OF BIT														
TOTAL	FT.	REAMER CUTTER NO.														
WT. OF STRING	LBS.	TYPE														
DRILLER																
Ken Brunner																

NO. DRILLING ASSEMBLY		BIT RECORD		HRS. DRLD.	CORE NO.	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTA- RY R.P.M.	WT. ON BIT 1000#	PUMP PRESS.	PUMP NO. 1 LINER SIZE S.P.M.	PUMP NO. 2 LINER SIZE S.P.M.	METHOD PUMPS RUN	MUD RECORD	
STANDS DP	FT.	RUN NO.													TIME	
SNGLS. DP	FT.	SIZE													WEIGHT	
D.C. ID	FT.	MFG.													VISC	
OD	FT.	TYPE													W.L.C.C.	
RMR BODY OD	FT.	NO.													FLTR. CK.	
STB BODY OD	FT.	NOZ. SIZE													PH	
SUBS OD	FT.	SER. NO.													SD. CONT.	
BIT OR C.B.	FT.	DEPTH OUT														
	FT.	CUMULATIVE HOURS RUN														
KELLY DOWN	FT.	COND. OF BIT														
TOTAL	FT.	REAMER CUTTER NO.														
WT. OF STRING	LBS.	TYPE														
DRILLER																
4th W.O.C.																

NO. DRILLING ASSEMBLY		BIT RECORD		HRS. DRLD.	CORE NO.	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTA- RY R.P.M.	WT. ON BIT 1000#	PUMP PRESS.	PUMP NO. 1 LINER SIZE S.P.M.	PUMP NO. 2 LINER SIZE S.P.M.	METHOD PUMPS RUN	MUD RECORD	
STANDS DP	FT.	RUN NO.													TIME	
SNGLS. DP	FT.	SIZE													WEIGHT	
D.C. ID	FT.	MFG.													VISC	
OD	FT.	TYPE													W.L.C.C.	
RMR BODY OD	FT.	NO.													FLTR. CK.	
STB BODY OD	FT.	NOZ. SIZE													PH	
SUBS OD	FT.	SER. NO.													SD. CONT.	
BIT OR C.B.	FT.	DEPTH OUT														
	FT.	CUMULATIVE HOURS RUN														
KELLY DOWN	FT.	COND. OF BIT														
TOTAL	FT.	REAMER CUTTER NO.														
WT. OF STRING	LBS.	TYPE														
DRILLER																
12th WOC																

Ken Brennan