SHELL. CLOVERLEAF

1-46

Drilling Authority No. 153

Date Issued .....

WELL NAME Shell Cloverleaf I-46

FIELD ..... Area: .....

LOCATION: Unit I Section 46 Grid 64-00; 124-45

Latitude 63-55-44 Longitude 124-52-39

From Established Reference Marker .....

.....

Rig Release Date: .....

Status .....

Information Release Date .....

CHANGE OF NAME:

DATE RECEIVED	INDEX
	Application for a Drilling Authority.
	Well Completion Data.
	Well History Report.
	Application to Amend a Drilling Authority.
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	Application to Abandon a Well or Suspend Drilling.
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	Application to Commingle Production before Measurement.
	Data for Back Pressure Test on Natural Gas Wells — Monograph 7 Method.
	Data for Back Pressure Test on Natural Gas Wells — Vitter's Method.
	M.P.R. — Oil — Calculations.
	New Oil Well Report.
	New Gas Well Report.
19/5/71	Site Well Inspection Report.
	Rig Inspection Report.
	Battery Inspection Report.
	Equipment Report.
	Well Card.
	Well Visit.
	Daily Drilling Reports.
	Logs. Large scale ..... Small scale .....

NANR 52-90(11-62)

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

DEPARTMENT OF INDIAN AFFAIRS AND NORTHERN DEVELOPMENT

OIL AND MINERAL DIVISION

WELL-SITE INSPECTION REPORT

FROM: Field Office or Area: NORMAN WELLS Date: May 19, 1971

TO: The Oil Conservation Engineer:

RE: Shell Cloverleaf I-46

Location: 63° 55' 44" N., 124° 52' 39" Status: Abandoned

This location was inspected by the undersigned on May 14, 1971

The location is in ~~satisfactory~~/unsatisfactory condition.

The following items require attention:

1. Pits filled
2. Debris cleaned up
3. Lease levelled
4.
5.
6.

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

No cleanup has been done yet. A lot of work to be done here.

SPUDDED: 16th June 1965

ABANDONED: 5th July 1965

Inspected by _____

Original to Oil Conservation Engineer, Dept of IA & ND, Duplicate to Field Office or Inspecting Engineer.
IAND 52-90-14 (9-69)

Drilling Authority No. 153
Date Issued Feb. 19, 1965

DEPARTMENT OF NORTHERN AFFAIRS AND NATIONAL RESOURCES
RESOURCES 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 Cloverleaf I-46

Permit No. 432 Lease No.

Shell Canada Limited (Permittee, Licensee, Lessee) Exploratory Licence No. 667

Shell Canada Limited (Operator) Exploratory Licence No. 667

Location: Unit I Section 46 Grid 64° 00', 124° 45'

Latitude 63° 55' 44" N Longitude 124° 52' 39" W

From Established Reference Marker

	DATE	DEPTH
Spudded	3/2/65	
Suspended		
Resumed		
Finished Drilling	6/16/65	11,318'
Deepened		
Complete (gas/oil)		
Abandoned	7/5/65	11,318'
Rig released	2/5/65	11,318'

Pool (s)

Interval(s) open to production

Elevation: Gr. 1441'
K.B. 1456'

Drilling Contractor & Rig No. Regent Rig #6 & 21

Contractor's Licence No. A 11792

CASING RECORD

Casing Size (Inches)	Weight	Amount	Set at—	Sacks of Cement	Method
1. 13-3/8"	54#	22 Jts.	717' KB	700 Portland + 2% $CaCl_2$	
2. 9-5/8"	40#	100 Jts.	7005' KB	) 535 Portland plus	
3. 9-5/8"	36#	119 Jts.	3881' KB	) 0.2% HR4	
4.					
5. Note casing depths are by casing tally					
6.					

GEOLOGICAL TOPS	ELEVATION Depths	ELEVATION Sub-Sea
Cretaceous	Surface	
Ireton	2485	(-1031)
Canol	4740	(-3286)
Hare Indian	5175	(-3721)
Hume	5517	(-4063)
Bear Rock	6175	(-4721)
Fault	10625	(-9170)
T.D.	11318	(-9863)

CORE RECORD

From	To	Rec.	From	To	Rec.
NO CORE CUT					

LOG RECORD

Run No.	Type of Log	From	To
1	IES	7000	717
1	SGR	7000	717
1	MLC	7000	717
2	IES	11312	7004
2	SGR	11306	7004
2	MLC	11313	7004
1	CDM	11310	7004
1	SRS	11290	2400

CEMENTING RECORD (Plug, Squeeze, etc.)

Date	From	To	Remarks
6/29/65		10585'	Felt at 10600' Cemented /115 sacks
7/ 2/65	10585'	10250'	Cemented /160 sacks + 0.2% HR4
7/ 2/65	7050'	6950'	Felt at 6946! Cemented /50 sacks
7/ 4/65	930'	660'	Felt at 645'. " /200 sacks
Ran 10 sacks Portland in Surface casing			
Ran 5 sacks in rat hole and/mouse hole			
5 sacks in			

PERFORATING RECORD (Bullet, Jet)

Date	From	To	Remarks
NONE			

SERVICING RECORD (Acidizing, Fracing, etc.)

Date	From	To	Remarks
NONE			

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.	I.F.B.H.P.	F.F.B.H.P.	I.H.P.	F.H.P.	REMARKS
1	3/27/65	Ireton	2759'	2802'	60 ~~90~~	15	60 ~~90~~	1072	995	536	304	1410	-	Rec. 1320' salty watery drilling mud.
2A	5/30/65	Bear Rock	9338'	9538'	7	MISRUN								Packers did not hold
2B	5/31/65	Bear Rock	9343'	9538'	90	15	90	3725	3850	825	2060	4125	-	Rec. 3510' fresh water.
3A	6/25/65	Bear Rock	10378'	10509'		MISRUN								Packers did not hold
3B	6/26/65	Bear Rock	10402'	10493'		MISRUN								Bypass plugged, top packer did not hold
3C	6/27/65	Bear Rock	10373'	10529'	9	15		1611	-	726	726	-	-	Partial Misrun, packers pulled loose. Rec. 1800'
4A	6/30/65	Bear Rock	10475'	10585'		MISRUN								Plug did not hold (water cushion & 348' mud
4B	7/ 1/65	Bear Rock	10454'	10567'	60	15	60	2060	3605	850	850	4508	4490	Rec. 1960' water cushion & 18' drilling mud.

NOTE: The above pressures are all field figures.

Lab. No.	Sample	From	To	Source	Remarks
160	Water	Drilling Fluid Prior to DST #2A & B		Bear Rock	
161	Water	9343	9538	DST 2B	
160A	Water	Drilling Fluid Prior to DST 2A & B		Flow Line	
105 & 106	Water	2759	2802	DST 1	

PRESENT STATUS OF WELL

Oil ..... (Interval)

Gas ..... (Interval)

Dry and abandoned

Susp.

Company Shell Canada Limited

Signed by A. M. McLachlin

Title Manager - Edmonton Division Production

Date July 27, 1965

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

File No.
Drilling Authority No. 153

DEPARTMENT OF NORTHERN AFFAIRS AND NATIONAL RESOURCES
RESOURCES DIVISION

Application to Abandon a Well or Suspend Drilling

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

Name and number of well: Shell Cloverleaf I-46

Location: Unit I Section 46 Grid 64°, 00°, 124° 45'

Latitude 63° 55° 44" N Longitude 124° 52' 39" W

From Established Reference Marker

Permit No. 3432 Lease No.

Shell Canada Limited
(Permittee, Licensee, Lessee)

Date of commencement of proposed programme

OIL, GAS, AND WATER ENCOUNTERED
(Depths)

Oil at Nil

Gas at Minor gas show @ surface when drilled through 2759' - 2802'

Water at

Total Depth 11318' Date of last operations July 5, 1965

Present condition of well Plugged and abandoned

CASING RECORD

	Casing Size O.D. Inches	Weight	Amount	Set At—	Sack of Cement	Method	Amount Pulled
1.	13-3/8"	54#	22 Jts.	717' KB	700 Portland + 2% CaCl2		
2.	9-5/8"	40#	100 Jts.	7005' KB	535 Portland		871'
3.	9-5/8"	36#	119 Jts.	3831' KB	+ 0.2% HA4		(27 Jts.)
4.	Note: Casing depths are by casing tally						
5.							

PROPOSED ABANDONMENT PROGRAMME

Plug No.	Plug Position	Geological Formation	Number of Sacks of Cement	Remarks
1	10585'		115	D.S.T. Plug
2	10585'-10250'		160	
3	7050'-6950'		50	
4	930'-660'		200	
5	Surface Casing		10	
	Rat Hole &		5 in	
	Mouse Hole		each	

The following logs have been run Run #2: IES, SGR, FDC Run #1: IES, SGR, HDT, CBM, SNS

Other operations proposed Ran 4 D.S.T.'s

Operations to be carried out by Regent Drilling Company Contractor Licence No. A 11792

Address Edmonton, Alberta Address Edmonton, Alberta

Responsible Agent in field P. M. Nedham

Dated at Edmonton, Alberta, this 27 Day of July 19 65

Signed by A. M. McLachlin Company Shell Canada Limited

Title Manager - Edmonton Division Prod. Exploratory Licence No. 667

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

(For RESOURCES 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.H.J. Thoms on the 2nd July 1965

Dated 29th July, 19 65 B. H. J. Thoms

Forms to be submitted in triplicate to Oil Conservation Engineer, Calgary, Alberta

NANR 52-90 (5) (1-61)

File No

Drilling Authority No. 159

DEPARTMENT OF NORTHERN AFFAIRS AND NATIONAL RESOURCES
RESOURCES 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 made hereby for approval to drill:—

Name and number of well Shell Cloverleaf I - 46

Location. Unit 1 Section 46 Grid 64° 00'; 124°45'

Latitude 65° 55' 44" Longitude 124° 52' 39"

From Established Reference Marker

Elevation: Ground 1441 K.B. 1456 (est.) feet above sea-level.

Well is expected to produce from Projected to in Bear Rock or Silurian Lore formation at a depth of about 12,000 or shallower Feet.

Area assigned to well
(for Oil Conservation Engineer's use only)

Permit No. 3432 Lease No. Acreage 56,332

Permittee, licensee, or lessee Shell Canada Limited

Exploratory Licence No. 667

Surface owned by Crown or Crown
(If alienated submit name and address of owner and occupant.)

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	Brand	New or Used	Estimated Depth	Sacks of Cement
1.	20"	Conductor	Pipe	Domestic	New	40'	50 sax Portland & 4% $CaCl_2$
2.							
3.	13-3/8"	54.5	J-55	Domestic	New	700'	700 sax Portland & 2% $CaCl_2$
4.							
5.							

Expected water, gas, and oil horizons and type of control equipment Bear Rock
Rig 21- Hydril - 6" Series 900 Gil
- Cameron SS 6" Series 900 BOP's
Rig 6- CK Hydril 12" Series 900
- Double Hydraulic

Well will be drilled with (Rotary) Rig No. 21 & 6 by Regent Drilling Company
(Cable) (Drilling Contractor or company)

* Being considered for use on surface hole

Responsible agent of applicant:— Contractor's Licence No. A 11792

At well K. Cumbers At registered office A. H. McLachlin

Address P. O. Box 186 Edmonton Address P. O. Box 186 Edmonton

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

Dated at Edmonton, Alberta, this 18th day of February 19 65

Signed by [signature] Company Shell Canada Limited

Title Manager Edmonton Division Production. Licence No.

(For Resources 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.

Dated 19th February 19 65 [signature]

Forms to be submitted to Oil Conservation Engineer, Calgary, Alberta.

NANR 52-90(1) (1-61)

No.

Drilling Authority No. 149

DEPARTMENT OF NORTHERN AFFAIRS AND NATIONAL RESOURCES
RESOURCES 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 made hereby for approval to drill:—

Name and number of well SHELL CLOVERLEAF K-47

Location: Unit K Section 47 Grid 64° 0' 124° 45'

Latitude 63° 56' 47" Longitude 124° 53' 34"

From Established Reference Marker

Elevation: Ground 1100' (est.) K.B. 1110' (est.) feet above sea-level.

Projected T.D. in Bear Rock or Lower Silurian Lone formation at a depth of about 12,000' or shallower

Area assigned to well
(for Oil Conservation Engineer's use only)

Permit No. 3452 Lease No. Acreage 56,332

Permittee, licensee, or lessee Shell Canada Limited

Exploratory Licence No. 677 667

Surface owned by Crown or Crown
(If alienated submit name and address of owner and occupant.)

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	Brand	New or Used	Estimated Depth	Sacks of Cement
1.	20"	Conductor Pipe		Domestic	New	40'	50 sx Portland + 4% $CaCl_2$
X							
2x	13-3/8"	54.5	J-55	Domestic	New	700'	700 sx Portland + 2% $CaCl_2$
4.							
5.							

Expected water, gas, and oil horizons and type of control equipment Bear Rock
Rig 21 - Hydril - 6" Series 900 GK
- Cameron SS 6" Series 900 BOP's
Rig 6 - CK Hydril 12" Series 900
- Double hydraulic

Well will be drilled with (Rotary) (Cable) Rig No. 21 & 6 by Regent Drilling Company
(Drilling Contractor or company)

* being considered for use on surface hole

Responsible agent of applicant:— Contractor's Licence No. All792

At well R. Cumbers At registered office A. M. McLachlin

Address P.O. Box 186, Edmonton Address P.O. Box 186, Edmonton

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

Dated at Edmonton, Alberta, this 19th day of January 19 65

Signed by C. F. WATTS FOR Company Shell Canada Limited

Title Manager - Edmonton Div. Production Licence No.

(For Resources 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.

Dated 21st January 1965

Forms to be submitted to Oil Conservation Engineer, Calgary, Alberta.

NANR 52-90(1) (1-61)

SHELL CLOVERLEAF

I-46

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GEOLOGICAL & EVALUATION
Resource Management Division
NOV 22 1965
OTTAWA, CANADA.
Dept. of Northern Affairs & National Resources

Section I - Summary of Well Data

(A) Well Name and Number
Shell Cloverleaf I-46

(B) Permittee
Shell Canada Limited

(C) Name of Operator
Shell Canada Limited
P.O. Box 186, Edmonton, Alberta

(D) Location
Unit I Section 46 Grid: 64°, 00', 124°, 45'
Latitude 63° 55' 44" N Longitude 124° 52' 39" W

(E) Permit Number
3452

(F) Drilling Contractor
Regent Drilling Company
Rig # 21 and 6

(G) Drilling Authority No.
No. 153 Date Issued February 19, 1965

(H) Classification
Wildcat

(I) Elevation
Ground Level 1441' K.B. Elevation 1456'

(J) Date Spudded
March 2, 1965

(K) Date Completed Drilling
June 16, 1965

(L) Total Depth and Plugged Back Total Depth
T.D. 11318' P.B.T.D. Surface

(M) Well Status
Plugged and Abandoned

(N) Date Rig Released
July 5, 1965

(O) Hole Size
24" Hole to 40'
17-1/2" Hole to 717' K.B.
12-1/4" Hole to 7004' K.B.
8-3/4" Hole to 11318' K.B.

(P) Casing

	Casing Size	Weight	Amount	Set At	Sacks of Cement	Amount Pulled
1.	20"	Conductor Pipe		40'	50 sacks Portland	
2.	13-3/8"	54#	22 JTS	717' KB	700 sacks Portland + 2% $CaCl_2$	
3.	9-5/8"	40#	100 JTS	7005' KB	535 sacks Portland + 0.2% HR4	871'
	9-5/8"	36#	119 JTS	5881' KB		

Note: Casing depths are by Casing tally.

Section II - Geological Summary

Formation Tops

Formation	E Log Depth
Cretaceous	Surface
Ireton	2485 (-1051)
Canol	4740 (-3286)
Hare Indian	5175 (-3721)
Hume	5517 (-4063)
Bear Rock	6175 (-4721)
Fault	10525 (-9170)

Cored Intervals

No Cores Cut

Core Description

No Cores Cut

SHELL, CLOVERLEAF LAKE I-46

K.B. 1,455'

T.D. 11,318'

Latitude: 63° 56' 47" N.

Longitude: 124° 53' 34" W.

0-240'		No Samples.
240'-270'	Sandstone	Light grey, extremely fine to very fine grained, lithic. Bands of coal and ironstone. Quartz and black chert. Angular-subangular, fair sorting.
270'-285'	Sandstone	Light grey, very fine to medium grained, lithic. Quartz and black chert. Angular-subangular, fair sorting.
285'-300'	Sandstone	Light grey, very fine to medium grained, lithic. Quartz and black chert. Angular-subangular, fair sorting. Pebbles up to 1 cm, black and grey chert and quartzite.
300'-330'	Sandstone	Light grey, very fine to extremely fine grained, lithic. Band of ironstone. Quartz and black chert. Angular-subangular, fair sorting.
330'-360'	Sandstone	Light grey, very fine to medium grained, lithic. Quartz and black chert. Angular-subangular, fair sorting.
360'-390'	Sandstone	Light grey, very fine to medium grained, lithic. Quartz and black chert. Angular-subangular, fair sorting. Plant remains.

390'-410'	Sandstone	Light grey, very fine to fine grained, lithic. Quartz and black chert. Angular-subangular, fair sorting.
410'-440'	Sandstone	Light grey, very fine to fine grained, lithic. Quartz and black chert. Angular-subangular, fair sorting.
440'-470'	Shale	Medium-dark grey, micaceous.
470'-500'	Sandstone-Siltstone	Siltstone to very fine grained sandstone, medium grey, lithic, with 40% argillaceous content.
500'-530'	Siltstone	Medium grey, lithic, 40% argillaceous content.
530'-560'	Sandstone	Medium grey, extremely fine to very fine grained, lithic.
560'-590'	Shale	Medium grey with 30% siltstone content.
590'-620'	Siltstone-Sandstone	Siltstone to very fine grained sandstone, medium grey, lithic. 20% argillaceous content.
620'-650'	Siltstone-Shale	50% lithic siltstone and 50% shale, medium grey.
650'-670'	Siltstone-Shale	50% lithic siltstone and 50% shale, medium grey.
670'-690'	Siltstone-Sandstone	Siltstone and fine to medium grained sandstone, lithic, medium grey. 10% argillaceous content. Subangular white chert.
690'-720'		No Samples.
720'-730'	Siltstone-Sandstone	Siltstone to very fine grained sandstone, lithic, light to medium grey. 20% argillaceous content. Glauconite. Subangular, salt and pepper.

730'-740'	Siltstone-Sandstone	Siltstone to very fine grained sandstone, lithic, medium grey. 10% argillaceous content, trace of calcareous content. Sub-angular, micaceous.
740'-750'	Shale	Medium grey, 30% lithic siltstone content.
750'-760'	Shale	Medium grey, 20% quartz siltstone content.
760'-770'	Shale	Medium grey, 20% quartz siltstone content.
770'-790'		No Samples.
790'-800'	Shale	Medium grey, 20% quartz siltstone content.
800'-810'		No Samples.
810'-820'	Shale	Medium grey, 20% quartz siltstone content, micaceous.
820'-830'	Shale	Medium grey, 20% quartz siltstone content, pyritic.
830'-835'	Shale	Medium grey, 20% quartz siltstone content.
835'-845'	Sandstone	Medium-light grey, fine to medium grained, lithic. Trace of calcareous content. Subangular, moderate sorting, white and black chert.
845'-850'	Shale	Medium grey, 20% siltstone content. Band of bentonite.
850'-860'	Shale	Medium grey, 10% siltstone content. Band of bentonite.
860'-870'	Shale	Medium grey, 20% siltstone content.
870'-880'	Shale	Medium grey, 10% siltstone content. trace of bentonite.

880'-898'	Siltstone-Sandstone	Siltstone to very fine to fine grained sandstone, light grey, lithic. 10% argillaceous content. Poor sorting, sub-angular, white and black chert.
898'-900'	Shale	Medium grey, 10% lithic siltstone content.
900'-910'	Shale	Medium grey, trace of lithic siltstone.
910'-920'	Shale	Medium grey, trace of lithic siltstone, trace of bentonite.
920'-930'	Shale	Medium grey, trace of lithic siltstone.
930'-940'	Shale	Medium grey, trace of lithic siltstone.
940'-950'	Shale	Medium grey, trace of lithic siltstone.
950'-960'	Shale	Medium grey, trace of lithic siltstone. Band of bentonitic shale.
960'-970'	Shale	Medium grey, trace of lithic siltstone, trace of bentonite.
970'-980'	Shale	Medium grey, 20% bentonite content, trace of lithic siltstone.
980'-990'	Shale	Medium grey, 20% bentonite content, trace of lithic siltstone.
990'-1000'	Shale	Medium grey, 20% bentonite content, trace of lithic siltstone.
1000'-1010'	Shale	Medium grey, 10% lithic siltstone content, 10% bentonite content.
1010'-1020'	Shale	Medium grey, 10% lithic siltstone content. 10% bentonite content.

1020'-1030'	Shale	Medium grey, 10% lithic siltstone content, 10% bentonite content.
1030'-1040'	Shale	Medium grey, 10% lithic siltstone content, pyritic.
1040'-1050'	Shale	Medium grey, 10% lithic siltstone content, pyritic.
1050'-1060'	Shale	Medium grey, 10% lithic siltstone content, bentonitic.
1060'-1070'	Shale	Medium grey, 10% lithic siltstone content, bentonitic.
1070'-1080'	Shale	Medium grey, 10% lithic siltstone content, bentonitic.
1080'-1090'	Shale	Medium grey, 10% lithic siltstone content.
1090'-1100'	Shale	Medium grey, 10% lithic siltstone content.
1100'-1135'	Shale	Medium grey, 10% lithic siltstone content.
1135'-1143'	Siltstone-Sandstone	Siltstone to very fine to fine grained sandstone, light grey. 20% argillaceous content. Subangular. Quartz and chert.
1143'-1150'	Shale	Medium grey, 20% lithic siltstone content.
1150'-1190'	Shale	Medium grey, 25% lithic siltstone content, pyritic.
1190'-1200'	Shale	Medium grey, 20% lithic siltstone to very fine grained sandstone content.
1200'-1210'	Shale	Medium grey, 20% lithic siltstone content, poor samples.
1210'-1213'	Siltstone-Sandstone	Siltstone to very fine grained sandstone, lithic, light grey, 10% argillaceous content.

1213'-1220'	Shale	Medium grey, 10% lithic siltstone content, poor samples.
1220'-1230'	Shale	Medium grey, 20% lithic siltstone content, poor samples.
1230'-1260'	Shale	Medium grey, 10% lithic siltstone content, poor samples.
1260'-1270'		Very poor samples.
1270'-1280'	Shale	Medium grey, 20% lithic siltstone content.
1280'-1290'	Shale	Medium grey, trace of lithic siltstone. Thin band of lithic siltstone, light grey to very fine grained sandstone with trace of argillaceous content.
1290'-1300'	Shale	Medium grey, 10% lithic siltstone content.
1300'-1310'	Shale	Medium grey.
1310'-1320'	Shale	Medium grey, trace of lithic siltstone content.
1320'-1330'	Shale	Medium grey.
1330'-1380'		No Samples.
1380'-1390'	Shale	Dark grey, carbonaceous, plant remains.
1390'-1400'	Shale	Medium grey.
1400'-1460'	Shale	Medium grey.
1460'-1500'	Shale	Medium to dark grey.
1500'-1550'	Shale	Medium to dark grey but occasionally carbonaceous.
1550'-1570'	Shale	Dark grey, micaceous.
1570'-1600'	Shale	Dark grey, micaceous, poor samples.

1600'-1650'	Shale	Dark grey, micaceous, poor samples.
1650'-1690'	Shale	Dark grey, micaceous, poor samples.
1690'-1700'	Shale	Dark grey.
1700'-1750'	Shale	Dark grey, micaceous.
1750'-1760'	Shale	Dark grey.
1760'-1780'	Shale	Dark grey, very poor samples.
1780'-1800'	Shale	Dark grey, micaceous.
1800'-1820'	Shale	Medium to dark grey, trace of siltstone.
1820'-1840'	Shale	Medium to dark grey, trace of siltstone, very poor samples.
1840'-1850'		No Samples.
1850'-1853'	Siltstone-Sandstone	Siltstone to very fine to fine grained sandstone, lithic, light grey, 10% argillaceous content, trace of calcareous content, poorly sorted, subangular. Quartz and black chert, also thin laminated black micaceous shale.
1853'-1860'	Shale	Medium to dark grey, 20% lithic siltstone, micaceous.
1860'-1880'	Sandstone and Siltstone	50% light grey, siltstone to very to fine grained sandstone, trace of argillaceous content, trace of calcareous content, glauconitic, plant remains. 50% medium grey siltstone to very fine grained sandstone, 20% siltstone content, micaceous. Thin laminated black micaceous shale and sandstone.
1880'-1890'	Sandstone	Light grey, extremely fine to very fine grained, trace of argillaceous content, moderate sorting, sub-angular, glauconitic. Thin laminated dark grey silty, micaceous shale.

1890'–1900'	Sandstone	Light grey, extremely fine to fine grained, trace of argillaceous content, thinly laminated? Intercalations of dark silty, micaceous shale. Sandstone is lithic.
1900'–1910'	Siltstone-Sandstone	Siltstone to very fine grained sandstone, light grey, trace of calcareous content, lithic, not well cemented, thin micaceous laminae, subangular quartz and chert, fair to poor sorting, glauconitic.
1910'–1920'	Siltstone-Sandstone	Siltstone to very fine grained sandstone, light grey, lithic, not well cemented, thin micaceous laminae, subangular quartz and chert, fair to poor sorting.
1920'–1930'	Siltstone-Sandstone	Siltstone to very fine grained sandstone, light grey, lithic, not well cemented, thin micaceous laminae, subangular quartz and chert, fair to poor sorting.
1930'–1940'	Siltstone-Sandstone and Shale	7': Light grey siltstone to very fine grained sandstone, micaceous and glauconitic, lithic. 3': Medium to dark grey shale with trace of siltstone, micaceous.
1940'–1950'	Siltstone-Sandstone and Shale	7': Light grey siltstone to very fine grained sandstone, micaceous and glauconitic, lithic. 3': Medium to dark grey shale with trace of siltstone, micaceous.
1950'–1960'	Siltstone-Sandstone	Light grey, siltstone to very fine grained sandstone, lithic, trace of calcareous content, micaceous.
1960'–1970'	Siltstone-Sandstone and Shale	6': Light grey siltstone to very fine grained sandstone, lithic, trace of calcareous content, micaceous and glauconitic. 4': Medium grey shale with 10% siltstone, micaceous.

1970'-1980'	Siltstone-Sandstone and Shale	7': Light grey siltstone to very fine grained sandstone, lithic, trace of calcareous content, carbonaceous and glauconitic. 3': Medium grey shale with 10% siltstone.
1980'-1990'	Siltstone-Sandstone	Light grey, siltstone to very fine grained sandstone, lithic, trace of calcareous content, micaceous and glauconitic.
1990'-2000'	Siltstone-Sandstone and Shale	9': Light grey siltstone to very fine grained sandstone, lithic, micaceous and glauconitic. 1': Medium grey shale, micaceous.
2000'-2010'	Siltstone-Sandstone	Light grey, siltstone to very fine grained sandstone, trace calcareous content - calcareous content variable, thin micaceous laminae, glauconitic. Lithic.
2010'-2020'	Siltstone-Sandstone and Shale	7': Light grey siltstone to fine grained sandstone, subangular to angular, lithic, quartz and chert, moderate sorting, floating medium grains, micaceous and glauconitic. 3': Medium grey shale, trace of siltstone, micaceous. Shale probably occurs as thin interbeds.
2020'-2030'	Siltstone-Sandstone and Shale	Interbedded light grey siltstone to fine grained sandstone (6'), micaceous, glauconitic, pyritic?, lithic with 4' shale, micaceous.
2030'-2040'	Siltstone-Sandstone and Shale	Interbedded light grey siltstone to fine grained sandstone (6'), micaceous, glauconitic, pyritic?, lithic with 4' micaceous shale.
2040'-2050'	Siltstone-Sandstone and Shale	Interbedded light grey siltstone to fine grained sandstone (6'), micaceous, glauconitic, pyritic?, lithic with 4' micaceous shale.

2050'-2060'		No Samples.
2060'-2065'	Sandstone and Shale	30%: Light grey, extremely fine to medium grained sandstone, lithic, micaceous, glauconitic and pyritic. 70%: Medium grey, micaceous shale.
2065'-2070'	Sandstone and Shale	20%: Light grey, extremely fine to medium grained sandstone, lithic, micaceous, glauconitic and pyritic. 80%: Medium grey, micaceous shale.
2070'-2075'	Siltstone-Sandstone and Shale	10%: Light grey, siltstone and fine to medium grained sandstone, lithic. 90%: Medium grey, micaceous shale with a trace of siltstone.
2075'-2080'		No Samples.
2080'-2085'	Shale	4': Medium grey, micaceous shale. 1': Medium grey, micaceous shale with 10% siltstone.
2085'-2090'		No Samples.
2090'-2100'	Shale and Siltstone-Sandstone	5': Medium grey micaceous shale, soft, fissile. 5': Siltstone to fine grained sandstone, lithic, light grey. Sandstone from here down occurs in occasional very thin interbeds.
2100'-2110'	Shale	Medium to dark grey, micaceous and pyritic, thin bed of siltstone to very fine grained sandstone, lithic, micaceous and glauconitic.
2110'-2115'	Shale	Medium to dark grey, micaceous and pyritic, thin interbed of siltstone to fine grained sandstone, lithic, light grey, micaceous and glauconitic.
2115'-2120'	Shale	Medium to dark grey, micaceous and pyritic, thin interbed of siltstone to fine grained sandstone, lithic, light grey, micaceous and glauconitic.

2120'-2125'	Shale	Medium to dark grey, micaceous and pyritic, thin interbed of siltstone to fine grained sandstone, lithic, light grey, micaceous and glauconitic.
2125'-2130'	Shale	Medium to dark grey, micaceous and pyritic, thin interbed of siltstone to fine grained sandstone, lithic, light grey, micaceous and glauconitic.
2130'-2135'	Shale	4': Medium to dark grey, soft, fissile, micaceous shale. 1': Medium to dark grey, hard, blocky, micaceous shale with a trace of siltstone.
2135'-2140'	Shale	3': Medium to dark grey, soft, fissile, micaceous shale. 2': Medium to dark grey, hard, blocky, micaceous shale with a trace of siltstone.
2140'-2145'	Shale	3': Medium to dark grey, soft, fissile, micaceous shale. 2': Medium to dark grey, hard, blocky, micaceous shale with a trace of siltstone.
2145'-2150'	Shale	3': Medium to dark grey, soft, fissile, micaceous shale. 2': Medium to dark grey, hard, blocky, micaceous shale with a trace of siltstone.
2150'-2155'	Shale	2': Medium to dark grey, soft, fissile, micaceous shale. 3': Medium to dark grey, hard, blocky, micaceous shale with a trace of siltstone.
2155'-2160'	Shale	Medium to dark grey, micaceous.
2160'-2165'	Shale	Medium to dark grey, micaceous.
2165'-2175'	Shale	Medium to dark grey, trace of siltstone, micaceous, thin pyrite rich streaks, thin laminations of higher silt content.

2175'-2180'	Shale	4': Medium to dark grey, micaceous shale. 1': Medium to dark grey, micaceous shale with 10% siltstone content.
2180'-2185'	Shale	4': Medium to dark grey, micaceous, pyritic shale. 1': Medium to dark grey, micaceous, pyritic shale with 10% siltstone content.
2185'-2200'	Shale	Medium to dark grey, micaceous, pyritic shale and medium to dark grey, micaceous, pyritic shale with 10% siltstone content. Shale:Silty Shale 4:1.
2200'-2225'	Shale	Medium to dark grey, micaceous, pyritic with two thin bands of silty (10%) shale.
2225'-2250'	Shale	Medium to dark grey, micaceous, pyritic with two thin bands of silty (10%) shale.
2250'-2275'	Shale	Medium to dark grey, micaceous, pyritic with two thin bands of silty (10%) shale.
2275'-2280'	Shale	Medium to dark grey, micaceous.
2280'-2285'	Shale	Medium to dark grey, micaceous, trace of siltstone.
2285'-2295'	Shale	Medium to dark grey, micaceous.
2295'-2300'	Shale	Medium to dark grey, micaceous, pyritic, trace of siltstone.
2300'-2305'		No Samples.
2305'-2310'	Shale	4': Medium to dark grey shale, micaceous, pyritic and carbonaceous. 1': Medium to dark grey shale, 10% siltstone, occasional thin silty stringers.

2310'-2325'	Shale	Medium to dark grey, micaceous with two thin bands of medium to dark grey silty (10%) shale, micaceous.
2325'-2335'	Shale	Medium to dark grey, trace of siltstone, micaceous.
2335'-2350'	Shale	Medium to dark grey, trace of siltstone, micaceous, pyritic.
2350'-2355'	Shale	4': Medium to dark grey, micaceous shale. 1': Medium to dark grey, micaceous shale with 20% silty content.
2355'-2360'	Shale	Medium to dark grey, micaceous.
2360'-2365'	Shale	Medium to dark grey, micaceous, pyritic.
2365'-2375'	Shale	Medium to dark grey, micaceous shale with a band of medium to dark grey silty (10%), micaceous shale.
2375'-2380'	Shale	Medium to dark grey,micaceous.
2380'-2385'	Shale	Medium to dark grey.
2385'-2395'	Shale	Medium to dark grey, micaceous. Appearance of white chips - swell in water - bentonite?
2395'-2400'	Siltstone	Medium grey, 30% argillaceous content, calcareous in part, pyritic.
2400'-2405'	Shale	Dark grey, micaceous.
2405'-2410'	Siltstone	Medium to dark grey, slightly greenish, 20% argillaceous content, micaceous. Mica is pale brown, occasionally in very large flakes.
2410'-2415'	Siltstone	Medium to dark grey, slightly greenish, 30% argillaceous content, micaceous. Mica is pale brown, occasionally in very large flakes.

2415'-2425'	Siltstone	Medium to dark grey, 20% argillaceous content, micaceous.
2410'-2425'		Occasional white chips, very calcareous, slightly bentonitic(?) with abundant pale brown mica in books and flakes, also pyritic.
2425'-2430'	Siltstone	Medium to dark grey, 10% argillaceous content, micaceous.
2430'-2435'	Siltstone	Medium to dark grey, 10% argillaceous content, micaceous. Thin shalier interbeds.
2435'-2440'	Shale-Bentonite and Siltstone	1': 50% shale, 50% bentonite, medium grey, trace of siltstone, micaceous. 4': Siltstone, medium to dark grey, 10% argillaceous content, micaceous.
2440'-2445'	Siltstone	Medium to dark grey, 10% argillaceous content, micaceous. Some chips have trace of bentonite, with very large mica flakes.
2445'-2450'	Siltstone	Medium to dark grey, trace of argillaceous content, micaceous.
2450'-2455'	Siltstone	Medium grey, 10% argillaceous content, trace of bentonite, micaceous.
2455'-2465'	Siltstone	Medium grey, quartz, 10% argillaceous content, micaceous.
2465'-2470'	Siltstone	Medium grey, quartz, trace of argillaceous content.
2470'-2475'	Siltstone	Medium grey, quartz, 20% argillaceous content.
2475'-2480'	Siltstone and Shale	2': Medium grey, quartz siltstone with 20% argillaceous content. 1': Maroon shale, moderately hard. 2': Greenish-grey siltstone with 10% argillaceous content, micaceous, very chloritic.

2480'-2490'	Siltstone	Greenish-grey, quartz, trace of argillaceous content, micaceous and chloritic. Two thin bands of maroon shale.
2490'-2500'	Siltstone	Greenish-grey, quartz, trace of argillaceous content, micaceous and chloritic. Two thin bands of maroon shale.
2500'-2505'	Siltstone	Medium to light grey with greenish overtones, quartz, 20% argillaceous content, micaceous, chloritic.
2505'-2510'	Siltstone	Medium to light grey with greenish overtones, quartz, 20% argillaceous content, micaceous, chloritic.
2510'-2525'	Siltstone	Medium to light grey with greenish overtones, quartz, 20% argillaceous content, micaceous.
2525'-2530'	Siltstone	Medium to light grey with greenish overtones, quartz, 20% argillaceous content, micaceous.
2530'-2535'	Siltstone	Medium to light grey with greenish overtones, quartz, 20% argillaceous content, micaceous.
2535'-2540'	Siltstone	Medium to light grey with greenish overtones, quartz, 10% argillaceous content, micaceous, chloritic.
2540'-2542'	Siltstone-Sandstone	Greenish-grey siltstone and very fine grained sandstone, quartz, trace of argillaceous content, chloritic.
2542'-2545'	Siltstone	Greenish-grey, quartz, 10% argillaceous content, micaceous.
2530'-2545'		Thin interbeds of greenish very fine to fine grained sandstone, subangular, quartzitic, chloritic matrix, grains iron stained?

2545'-2550'	Siltstone	Medium to light grey, 10% argillaceous content, micaceous, quartz.
2550'-2555'	Siltstone	Medium grey, quartz, 20% argillaceous content, micaceous, quartz.
2555'-2575'	Siltstone	Medium to dark grey, 10% argillaceous content, micaceous, quartz.
2575'-2580'	Siltstone	Medium grey, slightly greenish, micaceous, 10% argillaceous content, quartz.
2580'-2585'	Siltstone	Medium grey, slightly greenish, micaceous, 10% argillaceous content, quartz.
2585'-2590'	Siltstone	Medium grey, slightly greenish, micaceous, 10% argillaceous content, quartz.
2590'-2595'	Siltstone	Medium grey, 10% argillaceous content, quartz.
2595'-2599'	Siltstone	Medium grey, slightly greenish, 10% argillaceous content, quartz.
2599'-2600'	Sandstone	Greenish grey, trace of argillaceous content, trace of calcareous content. Very fine to fine grained, subangular, poor sorting, chloritic.
2600'-2605'	Siltstone	Medium grey, trace of argillaceous content, quartz, micaceous, occasional floating fragments - very fine to fine, reddish stained quartz grains.
2605'-2610'	Siltstone	Medium grey, quartz, 20% argillaceous content, micaceous.
2610'-2611'	Siltstone-Sandstone	Medium grey, slightly greenish, siltstone to very fine grained sandstone, quartz, 10% argillaceous content, micaceous.

2611'-2615'	Siltstone	Medium grey, quartz, 10% argillaceous content, micaceous.
2615'-2625'	Siltstone	Medium grey, quartz, 10% argillaceous content, micaceous.
2625'-2630'	Siltstone	Medium grey, quartz, 10% argillaceous content, micaceous.
2630'-2635'	Siltstone	Medium grey, quartz, 20% argillaceous content, micaceous.
2635'-2640'	Siltstone	Medium grey, quartz, 20% argillaceous content, micaceous.
2640'-2644'	Siltstone-Shale	Medium to dark grey, 50% quartz siltstone and 50% shale, micaceous.
2644'-2645'	Siltstone	Medium grey, quartz, 10% argillaceous content, micaceous.
2645'-2650'	Siltstone	Medium grey, quartz, 20% argillaceous content, micaceous.
2650'-2655'	Siltstone	Medium grey, quartz, 10% argillaceous content, micaceous.
2655'-2660'	Siltstone	Medium grey, quartz, 10% argillaceous content, micaceous.
2660'-2665'	Siltstone	Medium grey, slightly greenish, quartz, 30% argillaceous content, micaceous, chloritic?
2665'-2670'	Siltstone	Medium grey, slightly greenish, quartz, 20% argillaceous content, trace of calcareous content, micaceous.
2670'-2675'	Siltstone	Medium grey, quartz, 30% argillaceous content, micaceous.
2675'-2680'	Siltstone	Medium grey, quartz, 10% argillaceous content, micaceous.
2680'-2683'	Siltstone	Medium grey, quartz, 10% argillaceous content, micaceous.

2683'-2685'	Siltstone-Sandstone	Medium grey siltstone to very fine grained sandstone, quartz, trace of argillaceous content, slightly calcareous.
2685'-2690'	Siltstone	Medium grey, slightly greenish, quartz, 10% argillaceous content, slightly calcareous, micaceous.
2690'-2695'	Siltstone	Medium grey, quartz, 10% argillaceous content, micaceous.
2695'-2700'	Siltstone	Medium grey, quartz, 10% argillaceous content, micaceous.
2700'-2705'	Siltstone	Medium grey, quartz, 10% argillaceous content, micaceous.
2705'-2710'	Siltstone	Medium grey, quartz, 30% argillaceous content, micaceous.
2710'-2715'	Siltstone	Medium grey, quartz, 10% argillaceous content.
2715'-2725'	Siltstone	Medium grey, quartz, 20% argillaceous content.
2725'-2750'	Siltstone	Medium grey, quartz, 10% argillaceous content, micaceous.
2750'-2760'	Siltstone	Medium grey, quartz, 10% argillaceous content, micaceous.
2760'-2765'	Siltstone	Medium grey, quartz, 20% argillaceous content, micaceous.
2765'-2767'	Siltstone	Medium grey, quartz, trace of argillaceous content.
2767'-2775'	Siltstone-Sandstone	Medium grey, slightly greenish siltstone to very fine grained sandstone, quartz, trace of argillaceous content, poor to fair sorting, subangular grains. Occasional samples has coarse crystalline calcite - frac? Also rare very fine grained quartz sandstone, reddish stained, calcareous, moderate sorting. Micaceous, carbonaceous.

2775'-2780'	Siltstone	Medium grey, slightly greenish, quartz, trace of argillaceous content, trace of calcareous content, micaceous, carbonaceous.
2780'-2785'	Siltstone-Sandstone	Medium grey, slightly greenish, siltstone to very fine grained sandstone, trace of argillaceous content, calcareous, micaceous. Poor to fair sorting, subangular grains. Occasional samples have coarse crystalline calcite - fract Also rare very fine grained quartz sandstone, reddish stained, calcareous, moderate sorting.
2785'-2790'	Siltstone-Sandstone	Medium grey, slightly greenish, quartz, siltstone to very fine grained sandstone, trace of argillaceous content, trace of calcareous content, micaceous. Subangular, poor sorting. Occasional coarse crystalline calcite.
2790'-2794'		No Samples.
2794'-2796'	Siltstone-Sandstone	Medium grey, siltstone to very fine grained sandstone, lithic, trace of calcareous content, subangular, fair sorting, micaceous, carbonaceous, glauconitic. Coarse calcite crystals.
2796'-2798'	Siltstone	Medium grey, lithic, trace of argillaceous content, micaceous.
2798'-2800'	Siltstone-Sandstone	Medium grey, siltstone to very fine grained sandstone, lithic, trace of argillaceous content, trace of calcareous content, micaceous. Occasional chips with very fine, reddish stained floating quartz grains.
2800'-2805'	Siltstone	Medium grey, quartz siltstone, trace of argillaceous content, micaceous.

2805'-2810'	Siltstone	Medium grey, quartz siltstone, trace of argillaceous content, micaceous and carbonaceous.
2810'-2815'	Siltstone	Medium grey, quartz siltstone, trace of argillaceous content, micaceous and carbonaceous.
2815'-2820'	Siltstone	Medium grey, quartz siltstone, trace of argillaceous and calcareous content, micaceous. Occasional floating, extremely fine to very fine rounded quartz grain.
2820'-2825'	Siltstone	Medium grey, quartz, trace of argillaceous content, micaceous.
2825'-2830'	Siltstone	Medium grey, quartz, 10% argillaceous content, micaceous.
2830'-2835'	Siltstone	Medium grey, quartz, 10% argillaceous content, micaceous and carbonaceous.
2835'-2840'	Siltstone	Medium grey, quartz, trace of argillaceous content, micaceous.
2840'-2845'	Siltstone	Medium grey, quartz, trace of argillaceous content, micaceous.
2845'-2850'	Siltstone	Medium grey, quartz, trace of argillaceous content, micaceous.
2850'-2855'	Siltstone	Medium grey, quartz, trace of argillaceous content, micaceous.
2855'-2860'	Siltstone	Medium grey, quartz, 10% argillaceous content, micaceous.
2860'-2865'	Siltstone	Medium grey, quartz, trace of argillaceous content, micaceous.
2865'-2870'	Siltstone	Medium grey, quartz, 10% argillaceous content, micaceous.
2870'-2875'	Siltstone	Medium grey, quartz, 10% argillaceous content, micaceous.

2875'-2880'	Siltstone	Medium grey, quartz, 10% argillaceous content, micaceous.
2880'-2885'	Siltstone	Medium grey, quartz, 10% argillaceous content, micaceous and carbonaceous.
2885'-2890'	Siltstone	Medium grey, quartz, trace of argillaceous content, micaceous and carbonaceous.
2890'-2895'	Siltstone	Medium grey, quartz, trace of argillaceous content, micaceous.
2895'-2900'	Siltstone	Medium grey, quartz, 10% argillaceous content, micaceous.
2900'-2905'	Siltstone	Medium grey, quartz, 30% argillaceous content, micaceous.
2905'-2910'	Siltstone	Medium grey, quartz, trace of argillaceous content, micaceous and carbonaceous.
2910'-2915'	Siltstone	Medium grey, quartz, trace of argillaceous content, micaceous and carbonaceous.
2915'-2920'	Siltstone	Medium grey, quartz, trace of argillaceous content, micaceous.
2920'-2925'	Siltstone	Medium grey, quartz, trace of argillaceous content, micaceous.
2925'-2930'	Siltstone	Medium grey, quartz, 10% argillaceous content, micaceous.
2930'-2935'	Siltstone	Medium grey, quartz, 10% argillaceous content, micaceous and carbonaceous.
2935'-2940'	Siltstone	Medium grey, quartz, trace of argillaceous content, micaceous and carbonaceous.
2940'-2945'	Siltstone	Medium grey, quartz, 10% argillaceous content, micaceous.

2945'-2950'	Siltstone	Medium grey, quartz, 10% argillaceous content, micaceous.
2950'-2955'	Siltstone	Medium grey, quartz, trace of argillaceous and calcareous content, micaceous.
2955'-2960'	Siltstone	Medium grey, quartz, 10% argillaceous content, micaceous.
2960'-2965'	Siltstone	Medium grey, quartz, 10% argillaceous content, micaceous.
2965'-2970'	Siltstone	Medium grey, quartz, 20% argillaceous content, micaceous.
2970'-2975'	Siltstone	Medium grey, quartz, 20% argillaceous content, micaceous.
2975'-2980'	Siltstone	Medium grey, quartz, trace of argillaceous content, micaceous. Thin shalier interbeds.
2980'-2985'	Shale and Siltstone	50% medium grey shale and 50% medium grey, quartz siltstone. Micaceous.
2985'-2995'		No Samples.
2995'-3000'	Siltstone	Medium grey, quartz, trace of argillaceous content, micaceous, samples burnt.
3000'-3005'	Siltstone	Medium grey, quartz, trace of argillaceous content, micaceous, samples burnt.
3005'-3010'	Siltstone	Medium grey, quartz, trace of argillaceous content, micaceous.
3010'-3015'	Siltstone and Shale	Medium grey, 50% quartz siltstone and 50% shale. Micaceous.
3015'-3020'	Siltstone	Medium grey, quartz, 20% argillaceous content, micaceous.
3020'-3025'	Siltstone	Medium grey, quartz, 10% argillaceous content, micaceous.

3025'-3030'	Siltstone	Medium grey, quartz, 10% argillaceous content, micaceous.
3030'-3035'	Siltstone	Medium grey, quartz, trace of argillaceous content, micaceous.
3035'-3040'	Siltstone	Medium grey, quartz, 10% argillaceous content, micaceous.
3040'-3045'	Siltstone	Medium grey, quartz, 10% argillaceous content, micaceous.
3045'-3050'	Siltstone	Medium grey, quartz, 10% argillaceous content, micaceous.
3050'-3055'	Siltstone	Medium grey, quartz, 20% argillaceous content, trace of calcareous content, micaceous.
3055'-3060'	Siltstone	Medium grey, quartz, 10% argillaceous content, micaceous.
3060'-3065'	Siltstone	Medium grey, quartz, 10% argillaceous content, micaceous.
3065'-3070'	Siltstone and Shale	50% medium grey, quartz siltstone and 50% medium grey shale. Micaceous.
3070'-3075'	Siltstone and Shale	50% medium grey, quartz siltstone and 50% medium grey shale. Micaceous.
3075'-3080'	Siltstone	Medium grey, quartz siltstone, trace of argillaceous content, micaceous.
3080'-3085'	Siltstone	Medium grey, quartz siltstone, trace of argillaceous content, micaceous.
3085'-3090'	Siltstone	Medium grey, quartz siltstone, 10% argillaceous content, micaceous.
3090'-3095'	Siltstone	Medium grey, quartz siltstone, 10% argillaceous content, micaceous.
3095'-3100'	Siltstone	Medium grey, quartz siltstone, 10% argillaceous content, micaceous.

3100'-3105'	Siltstone	Medium grey, quartz siltstone, 10% argillaceous content, micaceous.
3105'-3110'	Siltstone	Medium grey, quartz, 30% argillaceous content.
3110'-3115'	Shale	Medium grey, 40% quartz siltstone content, micaceous.
3115'-3120'	Siltstone	Medium grey, quartz, 30% argillaceous content, micaceous.
3120'-3125'	Siltstone	Medium grey, quartz, 10% argillaceous content, micaceous.
3125'-3130'	Siltstone	Medium grey, quartz, 10% argillaceous content, micaceous and carbonaceous.
3130'-3135'	Siltstone	Medium grey, quartz, 10% argillaceous content, micaceous and carbonaceous.
3135'-3140'	Siltstone	Medium grey, quartz, 10% argillaceous content, micaceous and carbonaceous.
3140'-3145'	Siltstone	Medium grey, quartz, trace of argillaceous content, micaceous.
3145'-3150'	Siltstone	Medium grey, quartz, trace of argillaceous content, micaceous.
3150'-3155'	Siltstone	Medium grey, quartz, 10% argillaceous content, micaceous.
3155'-3160'	Siltstone	Medium grey, quartz, trace of argillaceous content, micaceous.
3160'-3165'	Siltstone	Medium grey, quartz, trace of argillaceous content, micaceous.
3165'-3170'	Siltstone	Medium grey, quartz, 10% argillaceous content, micaceous.
3170'-3175'		No Samples.
3175'-3180'	Siltstone	Medium grey, quartz, 30% argillaceous content, micaceous.

3180'-3185'		No Samples.
3185'-3190'	Siltstone	Medium grey, quartz, 20% argillaceous content, micaceous.
3190'-3195'	Siltstone	Medium grey, quartz, 10% argillaceous content, micaceous.
3195'-3200'	Siltstone	Medium grey, quartz, 20% argillaceous content, micaceous, streak of calcareous content.
3200'-3205'	Siltstone	Medium grey, quartz, 20% argillaceous content, micaceous.
3205'-3210'	Siltstone	Medium grey, quartz, trace of argillaceous content, micaceous.
3210'-3215'	Siltstone	Medium grey, quartz, trace of argillaceous content, micaceous.
3215'-3220'	Siltstone	Medium grey, quartz, trace of calcareous content, micaceous.
3220'-3225'	Siltstone	Medium grey, quartz, 10% argillaceous content, trace of calcareous content, micaceous. Some moderate calcareous bands.
3225'-3230'	Siltstone	Medium grey, quartz, 10% argillaceous content, trace of calcareous content, micaceous. Some moderate calcareous bands.
3230'-3235'	Siltstone	Medium grey, quartz, 10% argillaceous content, trace of calcareous content, micaceous.
3235'-3240'	Siltstone	Medium grey, quartz, 10% argillaceous content, trace of calcareous content, micaceous.
3240'-3245'	Siltstone	Medium grey, quartz, 10% argillaceous content, trace of calcareous content, micaceous.
3245'-3250'	Siltstone	Medium grey, quartz, 10% argillaceous content, trace of calcareous content, micaceous.

3250'–325_'	Siltstone	Medium grey, quartz, 10% argillaceous content, trace of calcareous content, micaceous.
3255'–3260'	Siltstone	Medium grey, quartz; 10% argillaceous content, trace of calcareous content, micaceous. Occasional thin band of moderately calcareous, very fine, poorly sorted sandstone.
3260'–3265'	Siltstone	4': Medium grey, quartz siltstone, 10% argillaceous content, trace of calcareous content. 1': Medium grey, quartz siltstone, 10% fragmental limestone and 40% siltite.
3265'–3270'	Siltstone	Medium grey, quartz, 10% argillaceous content, trace of calcareous content, micaceous.
3270'–3275'	Siltstone	Medium grey, quartz, 10% argillaceous content, trace of calcareous content.
3275'–3280'	Siltstone	Medium grey, quartz, 10% argillaceous content, trace of calcareous content, micaceous.
3280'–3285'	Siltstone	Medium grey, quartz, 10% argillaceous content, trace of calcareous content, micaceous.
3285'–3290'	Siltstone	Medium grey, quartz, 10% argillaceous content, trace of calcareous content, micaceous.
3290'–3295'	Siltstone	Medium grey, quartz, 20% argillaceous content, micaceous.
3295'–3300'	Siltstone	Medium grey, quartz, 20% argillaceous content, micaceous.
3300'–3305'	Siltstone	Medium grey, quartz, 10% argillaceous content, micaceous.
3305'–3310'	Siltstone	Medium grey, quartz, 10% argillaceous content, micaceous. Some moderately calcareous bands.

3310'-3315'	Siltstone	Medium grey, quartz, 10% argillaceous content, micaceous.
3315'-3320'	Siltstone	Medium grey, quartz, 10% argillaceous content, trace of calcareous content, micaceous.
3320'-3325'	Siltstone and Shale	Medium grey. 50% quartz siltstone and 50% shale. Micaceous.
3325'-3330'	Siltstone	Medium grey, quartz, 40% argillaceous content, micaceous.
3330'-3335'	Siltstone and Shale	Medium grey. 50% quartz siltstone and 50% shale. Micaceous.
3335'-3340'	Shale	Medium grey, 20% silty content, micaceous.
3340'-3345'	Shale	Medium grey, 20% silty content, micaceous.
3345'-3350'	Siltstone and Shale	Medium grey. 50% shale and 50% quartz siltstone, micaceous.
3350'-3355'	Siltstone	Medium grey, quartz, 30% argillaceous content, micaceous.
3355'-3360'	Siltstone	Medium grey, quartz, 40% argillaceous content, micaceous.
3360'-3365'	Siltstone	Medium grey, quartz, 30% argillaceous content, micaceous.
3365'-3370'	Siltstone	Medium grey, quartz, 30% argillaceous content, micaceous.
3370'-3375'	Siltstone	Medium grey, quartz, 30% argillaceous content, micaceous.
3375'-3380'	Siltstone	Medium grey, quartz, 20% argillaceous content, micaceous. Siltstone quite hard, mica abundant.
3380'-3385'	Siltstone	Medium grey, quartz, 20% argillaceous content, micaceous.
3385'-3390'	Siltstone	Medium grey, quartz, 20% argillaceous content, micaceous.

3390'-3395'	Siltstone	Medium grey, quartz, 20% argillaceous content, micaceous.
3395'-3400'	Siltstone	Medium grey, quartz, 20% argillaceous content, micaceous.
3400'-3405'	Siltstone	Medium grey, quartz, 30% argillaceous content, micaceous. Thin moderately calcareous extremely fine stringers.
3405'-3410'	Siltstone	Medium grey, quartz, 40% argillaceous content, micaceous. Thin moderately calcareous extremely fine stringers.
3410'-3415'	Siltstone	Medium grey, quartz, 30% argillaceous content, micaceous.
3415'-3420'	Siltstone	Medium grey, quartz, 20% argillaceous content, micaceous.
3420'-3425'	Siltstone	Medium grey, quartz, 20% argillaceous content, micaceous.
3425'-3430'	Siltstone	Medium grey, quartz, 10% argillaceous content, micaceous.
3430'-3435'	Siltstone	Medium grey, quartz, 30% argillaceous content, micaceous.
3435'-3440'	Shale	Medium grey, 30% silty content, micaceous.
3440'-3445'	Siltstone	Medium grey, 30% argillaceous content, micaceous, quartz.
3445'-3450'	Siltstone	Medium grey, quartz, 30% argillaceous content, micaceous.
3450'-3455'		No Samples.
3455'-3460'	Siltstone	Medium grey, quartz, 30% argillaceous content, micaceous.
3460'-3465'		No Samples.
3465'-3470'	Siltstone	Medium grey, quartz, 40% argillaceous content, micaceous.

3470'—3475'	Siltstone	Medium grey, quartz, 20% argillaceous content.
3475'—3480'	Siltstone	Medium grey, quartz, 10% argillaceous content, trace of calcareous content, micaceous.
3480'—3485'	Siltstone	Medium grey, quartz, 20% argillaceous content, micaceous.
3485'—3490'	Siltstone	Medium grey, quartz, 30% argillaceous content, micaceous.
3490'—3495'	Siltstone	Medium grey, quartz, 20% argillaceous content, micaceous.
3495'—3500'	Siltstone	Medium grey, quartz, 20% argillaceous content, micaceous.
3500'—3505'	Siltstone	Medium grey, quartz, 20% argillaceous content, micaceous.
3505'—3510'	Shale	Medium grey, 10% silty content, micaceous.
3510'—3515'	Siltstone	Medium grey, quartz, 30% argillaceous content, micaceous.
3515'—3520'	Shale	Medium grey, 10% silty content, micaceous.
3520'—3525'	Siltstone and Shale	Medium grey, 50% quartz siltstone and 50% shale, micaceous.
3525'—3530'	Shale	Medium grey, 10% silty content, micaceous.
3530'—3535'	Shale	Medium grey, 10% silty content, micaceous.
3535'—3540'	Shale	Medium grey, 10% silty content, micaceous.
3540'—3545'	Shale	Medium grey, trace of silty content, micaceous.
3545'—3550'	Shale	Medium grey, trace of silty content, micaceous.

3550'-3555'	Shale	Medium grey, trace of silty content, micaceous.
3555'-3560'	Shale	Medium grey, trace of silty content, micaceous.
3560'-3565'	Shale	Medium grey, 10% silty content, micaceous.
3565'-3570'	Shale	Medium grey, trace of silty content, micaceous.
3570'-3575'	Shale	Medium grey, 10% silty content, micaceous.
3575'-3580'	Shale	Medium grey, trace of silty content, micaceous.
3580'-3585'	Shale	Medium grey, trace of silty content, micaceous.
3585'-3590'	Shale	Medium grey, trace of silty content, micaceous.
3590'-3595'	Shale	Medium grey, trace of silty content, micaceous.
3595'-3600'	Shale	Medium grey, trace of silty content, micaceous.
3600'-3605'	Shale	Medium grey, trace of silty content, micaceous.
3605'-3610'	Shale	Medium grey, trace of silty content, micaceous.
3610'-3615'	Shale	Medium grey, trace of silty content, micaceous.
3615'-3620'	Shale	Medium grey, 20% silty content, micaceous and pyritic.
3620'-3625'	Shale	Medium grey, 10% silty content, micaceous.
3625'-3630'	Siltstone	Medium grey, quartz, 20% argillaceous content, micaceous.

3630'-3635'	Siltstone	Medium grey, quartz, 40% argillaceous content, micaceous.
3635'-3640'	Siltstone	Medium grey, quartz, 30% argillaceous content, micaceous.
3640'-3645'	Shale	Medium grey, 20% silty content, micaceous.
3645'-3650'	Shale	Medium grey, 10% silty content, micaceous.
3650'-3655'	Shale	Medium grey, trace of silty content, micaceous.
3655'-3660'	Shale	Medium grey, trace of silty content, micaceous. Thin siltier stringers present.
3660'-3665'	Shale	Medium grey, trace of silty content, micaceous.
3665'-3670'	Shale	Medium grey, 10% silty content, micaceous.
3670'-3675'	Shale	Medium grey, 10% silty content, micaceous.
3675'-3680'		No Samples.
3680'-3685'	Shale	Medium grey, trace of silty content, micaceous.
3685'-3690'	Shale	Medium grey, trace of silty content, micaceous.
3690'-3695'		No Samples.
3695'-3700'	Shale	Medium grey, 20% silty content, micaceous.
3700'-3705'	Shale	Medium grey, trace of silty content, micaceous.
3705'-3710'	Shale	Medium grey, trace of silty content, micaceous.
3710'-3715'	Shale	Medium grey, trace of silty content, micaceous.

3715'-3720'	Shale	Medium grey, trace of silty content, micaceous.
3720'-3725'	Shale	Medium grey, trace of silty content, micaceous.
3725'-3730'	Shale	Medium grey, trace of silty content.
3730'-3740'	Shale	Medium grey, trace of silty content.
3740'-3750'	Shale	Medium grey, trace of silty content.
3750'-3760'	Shale	Medium grey, trace of silty content.
3760'-3770'	Shale	Medium grey, trace of silty content.
3770'-3780'	Shale	5': Medium grey shale with a trace of silty content. 5': Medium grey shale with 30% silty content.
3780'-3790'	Shale	Medium grey, 20% silty content, micaceous.
3790'-3800'	Shale	Medium grey, 20% silty content, micaceous.
3800'-3810'	Shale	Medium grey, trace of silty content.
3810'-3820'	Shale	Medium grey, 10% silty content, micaceous.
3820'-3830'	Shale	Medium grey, 20% silty content, micaceous.
3830'-3840'	Shale	Medium grey, 20% silty content, micaceous.
3840'-3850'	Shale	Medium grey, trace of silty content.

3850'-3860'	Siltstone	Medium grey, quartz, 30% argillaceous content, micaceous.
3860'-3870'	Siltstone	Medium grey, quartz, 40% argillaceous content, micaceous.
3870'-3880'	Shale	Medium grey, 10% silty content, very poor sample.
3880'-3890'	Shale	Medium grey, 20% silty content, micaceous.
3890'-3900'	Shale	Medium grey, 20% silty content, micaceous.
3900'-3910'	Siltstone	Medium grey, quartz, hard, 20% argillaceous content, micaceous.
3910'-3920'	Siltstone	Medium grey, quartz, 20% argillaceous content, micaceous.
3920'-3930'	Siltstone	Medium grey, quartz, 20% argillaceous content, micaceous.
3930'-3940'	Siltstone	Medium grey, quartz, 30% argillaceous content, micaceous.
3940'-3950'	Siltstone	Medium grey, quartz, 30% argillaceous content, micaceous.
3950'-3960'	Siltstone	Medium grey, quartz, 30% argillaceous content, trace of calcareous content, micaceous.
3960'-3970'	Shale	Medium grey, trace of silty content.
3970'-3980'	Shale	Medium grey, trace of silty content.
3980'-4000'	Siltstone	Medium grey, quartz, 20% argillaceous content, micaceous.
4000'-4020'	Siltstone	Medium grey, quartz, 20% argillaceous content, micaceous.
4020'-4030'	Shale	Medium grey, trace of silty content.

4030'-4040'	Shale	Medium grey, 10% silty content.
4040'-4050'	Siltstone	Medium grey, quartz, 30% argillaceous content, micaceous.
4050'-4060'	Siltstone	Medium grey, quartz, 40% argillaceous content, micaceous. Occasionally with hard, siliceous streaks.
4060'-4070'	Siltstone	Medium grey, quartz, 30% argillaceous content, micaceous.
4070'-4080'	Siltstone	Medium grey, quartz, 20% argillaceous content, micaceous.
4080'-4090'	Siltstone	Medium grey, quartz, 40% argillaceous content, micaceous.
4090'-4100'	Shale	Medium grey, 20% silty content.
4100'-4110'	Shale	Medium grey, 30% silty content.
4110'-4120'	Shale	Medium grey, 30% silty content.
4120'-4130'	Shale	Medium grey, 10% silty content.
4130'-4140'	Siltstone	Medium grey, quartz, 30% argillaceous content, micaceous.
4140'-4150'	Shale	Medium grey, 20% silty content, trace of dolomitic content, micaceous.
4150'-4160'	Shale	Medium grey, trace of silty content, micaceous.
4160'-4180'	Shale	Medium grey, 10% silty content, trace of dolomitic content, micaceous.
4180'-4200'	Shale	Medium grey, 10% silty content, micaceous.
4200'-4210'	Shale	Medium grey, 10% silty content, micaceous.

4210'–4220'	Shale	Medium grey, 10% silty content, trace of dolomitic content, micaceous.
4220'–4250'	Shale	Medium grey, 20% silty content, trace of dolomitic content, micaceous.
4250'–4260'	Shale	Medium grey, trace of silty content, micaceous.
4260'–4270'	Siltstone	Medium grey, quartz, 20% argillaceous content, trace of dolomitic content, micaceous.
4270'–4280'	Shale	Medium grey, 20% silty content, micaceous.
4280'–4290'	Shale	Medium grey, trace of silty content.
4290'–4300'	Shale	Medium grey, 20% silty content, micaceous.
4300'–4310'	Shale	Medium grey, 20% silty content, micaceous.
4310'–4320'	Shale	Medium grey, 20% silty content, micaceous.
4320'–4330'	Shale	Medium grey, trace of silty content, micaceous.
4330'–4350'	Shale	Medium grey, trace of silty content, micaceous.
4350'–4380'	Shale	Medium grey, trace of silty content, micaceous.
4380'–4400'	Shale	Medium grey.
4400'–4410'	Shale	Medium grey, trace of silty content, micaceous.
4410'–4450'	Shale	Medium grey, trace of silty content, micaceous.
4450'–4460'	Shale	Medium grey, trace of silty content, micaceous.

4460'-4470'	Shale	Dark grey, slightly bituminous streak, soft shale.
4470'-4500'	Shale	Dark grey, micaceous. Interbedded slightly bitiminous and non-bituminous, slightly harder than above, siliceous in part.
4500'-4518'	Shale	Greyish black, trace of dolomitic content, slightly siliceous, hard, slightly bituminous, pyritic.
4518'-4540'	Shale	Medium grey, micaceous, soft, interbeds with bituminous streaks.
4540'-4550'	Shale	Medium grey, trace of silty content, soft, micaceous.
4550'-4650'		No Samples.
4650'-4700'	Shale	Medium grey, micaceous, soft non-bituminous shale.
4700'-4730'	Shale	Medium to dark grey, micaceous.
4730'-4750'	Shale	Medium grey, micaceous.
4750'-4770'	Shale	Medium grey, micaceous and pyritic shale interbedded with dark grey, micaceous and pyritic shale. Soft shale interbedded with hard, slightly bituminous shale.
4770'-4780'		No Samples.
4780'-4810'	Shale	Black, 10% siliceous content, very hard; bituminous streak; pyritic. Pyrite disseminated and as cones.
4810'-4820'	Shale	6': Black, 10% siliceous content, very hard; bituminous streak; pyritic. Pyrite disseminated and as cones. 4" Medium grey shale, micaceous.
4820'-4840'		No Samples.
4840'-4900'	Shale	Black, 10% siliceous content, very hard; bituminous streak; pyritic. Pyrite disseminated and as cones.

4900'-4910'		No Samples.
4910'-4940'	Shale	Dark grey, 10% siliceous content, micaceous and pyritic. Variable bituminous streak.
4940'-4960'	Shale	Dark grey shale with 10% siliceous content, micaceous and pyritic. Variable bituminous streak and medium to dark grey shale with a trace of silty content, micaceous.
4960'-4990'	Shale	Black, 10% siliceous content, very hard, bituminous streak; micaceous and pyritic.
4990'-5000'	Shale	Greyish black, 10% siliceous content, moderately hard, trace of pyrite, slightly bituminous.
5000'-5010'	Shale	9': Greyish black shale with 10% siliceous content, moderately hard, trace of pyrite, slightly bituminous. 1': Medium brownish grey shale, streak of soft shale.
5010'-5020'	Shale	Greyish black, 10% siliceous content, moderately hard, trace of pyrite, slightly bituminous.
5020'-5030'	Shale	Greyish black, 10% siliceous content, moderately hard, trace of pyrite, slightly bituminous.
5030'-5040'	Shale	Greyish black, 10% siliceous content, moderately hard, trace of pyrite, slightly bituminous.
5040'-5050'	Shale	Greyish black, trace of dolomitic content, moderately hard, bituminous.
5050'-5060'	Shale	Greyish black, trace of dolomitic content, moderately hard, bituminous.
5060'-5070'	Shale	Greyish black, trace of dolomitic content, moderately hard, bituminous.
5070'-5080'	Shale	Greyish black, trace of dolomitic content, moderately hard, bituminous.

5080'-5090'	Shale	Greyish black, moderately hard, bituminous.
5090'-5100'	Shale	Greyish black, trace of dolomitic content.
5100'-5110'	Shale	Greyish black, trace of dolomitic content.
5110'-5120'	Shale	Greyish black, trace of dolomitic content.
5120'-5130'	Shale	Black, trace of dolomitic content, hard, with bituminous streak, pyritic.
5130'-5140'	Shale	Black, trace of dolomitic content, hard, with bituminous streak, pyritic.
5140'-5150'		No Samples.
5150'-5160'	Shale	Black, trace of dolomitic content, hard, with bituminous streak, pyritic.
5160'-5170'	Shale	Black, trace of dolomitic content, hard, with bituminous streak, pyritic.
5170'-5180'	Shale	Black, trace of dolomitic content, hard, with bituminous streak, pyritic.
5180'-5190'	Shale	Greyish black, trace of dolomitic content, hard, with bituminous streak, pyritic.
5190'-5200'	Shale	Greyish black, trace of dolomitic content, hard, with bituminous streak, pyritic.
5200'-5235'	Shale	Greyish black, moderately hard, slightly siliceous, disseminated pyrite, micaceous, variable bituminous streak. Poor Samples.

5235'-5250'	Shale	Medium grey, soft, fissile shale with satin sheen, slightly calcareous in places.
5250'-5280'	Shale	Medium grey, soft, fissile shale with satin sheen, slightly calcareous in places.
5280'-5300'	Shale	90% Medium grey, soft, fissile shale with satin sheen, slightly calcareous in places interbedded with 10% medium grey shale with a trace of silty content.
5300'-5350'	Shale	Medium grey, trace of silty content, soft, fissile with a satin sheen, slightly calcareous.
5350'-5370'	Shale	Medium grey, trace of silty content, soft, fissile with a satin sheen, slightly calcareous.
5370'-5380'	Shale	Medium grey, trace of silty content, soft, fissile with a satin sheen, slightly calcareous.
5380'-5400'		No Samples.
5400'-5410'	Shale	Medium to dark grey, trace of silty content, soft, fissile with a satin sheen, slightly calcareous.
5410'-5420'	Shale	Dark grey, trace of silty content, medium hard, brownish streak.
5420'-5430'	Shale	Dark grey, trace of silty content, medium hard, brownish streak.
5430'-5450'	Shale	Dark grey, hard, calcareous (10%), siliceous (40%), pyritic, bituminous streak. Occasional very hard siliceous lamination.
5450'-5490'	Shale	Dark grey, hard, calcareous (10%), siliceous (40%), pyritic, bituminous streak. Occasional very hard siliceous lamination.

5490'-5500'	Shale	Dark grey, hard, 10 to 20% calcareous content, trace of siliceous content, pyritic, bituminous streak. Occasional very hard siliceous lamination.
5500'-5522'	Shale	Medium to dark grey, 20 to 30% calcareous content, trace of siliceous content.
5522'-5530'	Limestone	Medium to dark grey, brownish cast, microcrystalline, trace of argillaceous content, 5-10% floating bioclastic debris, fractured.
5530'-5540'	Limestone	Medium to dark grey, brownish cast, microcrystalline, trace of argillaceous content, 5-10% floating bioclastic debris, fractured.
5540'-5550'	Limestone	Medium to dark grey, brownish cast, microcrystalline, trace of argillaceous content, 5-10% floating bioclastic debris, fractured. Occasional thin streaks with approximately 30% bioclastic material, streaks slightly dolomitized.
5550'-5600'	Limestone	Medium to dark grey, brownish cast, microcrystalline, trace of argillaceous content, 5-10% floating bioclastic debris, fractured. Occasional thin streaks with approximately 30% bioclastic material, streaks slightly dolomitized.
5600'-5610'		No Samples.
5610'-5615'	Limestone	Medium to dark grey, brownish cast, microcrystalline, trace of argillaceous content, trace of extremely fine crystalline dolomite.

5615'-5620'	Limestone and Dolomite	4': Limestone, medium to dark grey, brownish cast, microcrystalline, trace of argillaceous content and trace of extremely fine crystalline dolomite. 1': Dolomite, medium to dark grey, brownish cast, extremely fine crystalline, 20% microcrystalline calcareous content, trace of argillaceous content.
5620'-5625'	Limestone and Dolomite	4': Limestone, medium to dark grey, brownish cast, microcrystalline, trace of argillaceous content and trace of extremely fine crystalline dolomite. 1': Dolomite, medium to dark grey, brownish cast, extremely fine crystalline, 20% microcrystalline calcareous content, trace of argillaceous content.
5625'-5645'	Limestone	Medium to dark grey, brownish cast, microcrystalline, trace of argillaceous content. Lime mud with occasional floating fragments.
5645'-5650'	Limestone and Shale	2': Limestone, medium to dark grey, brownish cast, microcrystalline, trace of argillaceous content. Lime mud with occasional floating fragments. 3': Shale, medium to dark grey, brownish cast, 40% microcrystalline calcareous content.
5650'-5655'	Limestone	Medium to dark grey, brownish cast, microcrystalline, trace of argillaceous content, fractured, calcite veins.
5655'-5660'		No Samples.

5660'-5665'	Limestone	Medium to dark grey, brownish cast, microcrystalline, trace of argillaceous content, fractured, calcite veins.
5665'-5670'	Limestone	Medium to dark grey, brownish cast, microcrystalline, 10% extremely fine crystalline dolomite, trace of argillaceous content.
5670'-5673'	Limestone and Dolomite	3': Limestone, medium to dark grey, brownish cast, microcrystalline, 10% extremely fine crystalline dolomite, trace of argillaceous content. 2': Dolomite, medium to dark grey, brownish cast, extremely fine crystalline, 30% microcrystalline calcareous content, 20% argillaceous content.
5673'-5700'	Limestone	Medium grey, slightly brownish, microcrystalline, trace of argillaceous content, streaks with higher argillaceous content, also dolomitized. Residue scummy.
5700'-5710'	Limestone	Medium grey, slightly brownish, microcrystalline, trace of argillaceous content.
5710'-5720'	Limestone and Dolomite	7': Limestone, medium grey, slightly brownish, microcrystalline, trace of argillaceous content. 3': 50% microcrystalline limestone and 50% microcrystalline dolomite, medium grey, slightly brownish, trace of argillaceous content, dolomitized lime mud. Thin interbeds.
5720'-5725'	Limestone	Medium grey, slightly brownish, microcrystalline, trace of argillaceous content, fractured.
5725'-5730'		No Samples.

5730'-5750'	Limestone and Dolomite	16': Limestone, medium grey, slightly brownish, microcrystalline, trace of quartz, trace of argillaceous content. 4': 50% microcrystalline limestone and 50% microcrystalline dolomite, medium grey, slightly brownish, trace of quartz and trace of argillaceous content.
5750'-5765'	Limestone	Medium grey, slightly brownish, microcrystalline, trace of quartz, trace of argillaceous content, occasionally pyritic.
5765'-5770'	Limestone	3': Limestone, medium grey, slightly brownish, microcrystalline, trace of quartz, trace of argillaceous content, occasionally pyritic. 2': Limestone, medium olive grey, microcrystalline, grumulous texture.
5770'-5775'	Limestone	Medium grey, microcrystalline trace of argillaceous content, pyritic.
5775'-5780'	Limestone and Shale	3': Limestone, medium grey, microcrystalline, trace of quartz, trace of argillaceous content, fractured. 2': Shale, medium grey, slightly brownish, 30% microcrystalline dolomite, 20% microcrystalline calcareous content.
5780'-5800'	Limestone and Shale	12': Limestone, medium grey, microcrystalline, trace of quartz, trace of argillaceous content, fractured. 8': Shale, medium grey, slightly brownish, 30% microcrystalline dolomite, 20% microcrystalline calcareous content.
5800'-5805'	Limestone	Medium grey, microcrystalline, 20% microcrystalline dolomite content, 20% argillaceous content, trace of quartz, pyritic.

5805'-5817'	Limestone	Medium grey, microcrystalline, 20% microcrystalline dolomite content, 10% argillaceous content, trace of quartz. Occasional thin streak with abundant bioclastic debris.
5817'-5825'	Limestone	Medium grey, microcrystalline, 20% microcrystalline dolomite content, less then 40% of argillaceous content, trace of quartz. Occasional thin streak with abundant bioclastic debris.
5825'-5830'	Limestone	Medium grey, slightly brownish, microcrystalline, less than 10% microcrystalline dolomite content, trace of argillaceous content, pyritic.
5830'-5835'	Limestone	Medium grey, slightly brownish, microcrystalline, pyritic.
5835'-5850'	Limestone and Shale	Limestone, medium grey, slightly brownish, microcrystalline, pyritic interbedded with 50% limestone, microcrystalline, 50% shale, medium grey, slightly brownish, trace of silty content. Limestone:Limestone-Shale 7:3.
5850'-5855'	Limestone	Medium grey, slightly brownish, microcrystalline, pyritic.
5855'-5860'	Limestone	Medium grey, slightly brownish, microcrystalline, less than 10% microcrystalline dolomite content, trace of argillaceous content, pyritic, authigenic quartz.
5860'-5865'	Limestone	Medium grey, slightly brownish, microcrystalline, less than 10% microcrystalline dolomite content, trace of argillaceous content, pyritic, authigenic quartz.

5805'-5817'	Limestone	Medium grey, microcrystalline, 20% microcrystalline dolomite content, 10% argillaceous content, trace of quartz. Occasional thin streak with abundant bioclastic debris.
5817'-5825'	Limestone	Medium grey, microcrystalline, 20% microcrystalline dolomite content, less than 40% of argillaceous content, trace of quartz. Occasional thin streak with abundant bioclastic debris.
5825'-5830'	Limestone	Medium grey, slightly brownish, microcrystalline, less than 10% microcrystalline dolomite content, trace of argillaceous content, pyritic.
5830'-5835'	Limestone	Medium grey, slightly brownish, microcrystalline, pyritic.
5835'-5850'	Limestone and Shale	Limestone, medium grey, slightly brownish, microcrystalline, pyritic interbedded with 50% limestone, microcrystalline, 50% shale, medium grey, slightly brownish, trace of silty content. Limestone:Limestone-Shale 7:3.
5850'-5855'	Limestone	Medium grey, slightly brownish, microcrystalline, pyritic.
5855'-5860'	Limestone	Medium grey, slightly brownish, microcrystalline, less than 10% microcrystalline dolomite content, trace of argillaceous content, pyritic, authigenic quartz.
5860'-5865'	Limestone	Medium grey, slightly brownish, microcrystalline, less than 10% microcrystalline dolomite content, trace of argillaceous content, pyritic, authigenic quartz.

5865'-5870'	Limestone	Medium grey, slightly brownish, 20% argillaceous content, pyritic, authigenic quartz, microcrystalline.
5870'-5875'	Limestone	Medium grey, slightly brownish, microcrystalline, 10% microcrystalline dolomite, trace of argillaceous content, pyritic, authigenic quartz.
5875'-5880'	Limestone	Medium grey, slightly brownish, microcrystalline, 10% fine bioclastic material, trace of silty content, trace of argillaceous content, pyritic, authigenic quartz.
5880'-5885'	Limestone	Medium grey, slightly brownish, microcrystalline, 10% fine bioclastic material, trace of silty content, trace of argillaceous content, pyritic, authigenic quartz.
5885'-5890'	Limestone	Medium grey, slightly brownish, microcrystalline, trace of silty content and argillaceous content, pyritic, authigenic quartz.
5890'-5895'	Limestone	Medium grey, slightly brownish, microcrystalline, trace of silty content and argillaceous content, pyritic, authigenic quartz.
5895'-5900'	Limestone	Medium grey, slightly brownish, microcrystalline, 10% argillaceous content, trace of silty content, pyritic.
5900'-5905'	Limestone	Medium grey, slightly brownish, microcrystalline, trace of argillaceous content, trace of silty content, pyritic.
5905'-5910'	Limestone and Shale	4': Limestone, medium grey, microcrystalline, 30% fine to coarse grained fragments, trace of argillaceous content, pyritic. 1': 50% microcrystalline limestone and 50% shale, medium grey.

5910'-5915'	Limestone	Medium grey, microcrystalline, 40% fine to coarse bioclastic material, trace of argillaceous content, trace of microcrystalline dolomite, pyritic.
5915'-5920'	Limestone	Medium grey brown, microcrystalline, 10% coarse bioclastic material, trace of silty content, traceof argillaceous content, authigenic quartz, fracturing.
5920'-5925'	Limestone	Medium grey brown, very fine to fine pelletal, 20% calcite eyes, trace of argillaceous content, trace of microcrystalline dolomite, authigenic quartz, very poor sample, lost circulation material.
5925'-5930'	Limestone	Medium grey brown, coarse bioclastic, 10% microcrystalline dolomite, trace of argillaceous content, lost circulation material.
5930'-5935'	Limestone	Medium grey brown, coarse bioclastic, 10% microcrystalline dolomite, trace of silty content, trace of argillaceous content, lost circulation material.
5935'-5940'	Limestone	Medium grey brown, microcrystalline, trace of silty content, trace of argillaceous content, pyritic. Lost circulation material.
5940'-5945'	Shale	Medium grey brown, 40% microcrystalline dolomitic content, 10% microcrystalline limestone, trace of silty content. Lost circulation material.
5945'-5950'	Limestone	Medium grey brown, microcrystalline, 20% coarse fragmental material, 20% microcrystalline dolomite, 20% silty content, trace of argillaceous content. Lost circulation material.

5950'-5955'	Shale	Medium grey brown, 20% microcrystalline limestone, 10% coarse grained fragments, 10% microcrystalline dolomite, 10% silty content, lost circulation material.
5955'-5960'	Shale	Medium grey brown, 20% microcrystalline limestone, 10% coarse grained fragments, 10% microcrystalline dolomite, 10% silty content. Lost circulation material.
5960'-5965'	Shale	Medium grey brown, 30% microcrystalline limestone, 10% silty content. Lost circulation material.
5965'-5970'	Limestone	Medium grey brown, microcrystalline, 10% microcrystalline dolomite content. Lost circulation material.
5970'-5975'	Limestone	Medium grey brown, microcrystalline, pyritic. Fractured with calcite and pyrite infill.
5975'-5980'	Shale	Medium grey brown, 40% microcrystalline limestone content, trace of silty content, pyritic.
5980'-5985'	Limestone	Medium grey brown, 40% argillaceous content, 20% microcrystalline dolomitic content, 10% silty content, pyritic.
5985'-5990'	Limestone	Medium grey, brownish cast, microcrystalline, 10% medium grained fragments, 20% argillaceous content, trace of silty content, pyritic, fractured?
5990'-5995'	Limestone	Medium grey, brownish cast, microcrystalline, 10% medium grained fragments, 20% argillaceous content, trace of silty content, pyritic, fractured?

5995'-6000'	Limestone	Medium grey, brownish cast, microcrystalline, 10% coarse bioclastic material, trace of silty and argillaceous content.
6000'-6005'	Limestone	4': Medium grey, brownish cast, microcrystalline limestone, 10% bioclastic material. Lost circulation material. 1': Medium grey, brownish cast, microcrystalline limestone, 40% argillaceous content.
6005'-6010'		No Samples.
6010'-6015'	Limestone	Medium grey, brownish cast, microcrystalline, 10% bioclastic material, 10% microcrystalline dolomitic material. Lost circulation material, fractured.
6015'-6020'	Limestone	Medium grey, brownish cast, microcrystalline, 30% very fine to fine fragmental limestone. Lost circulation material, fractured.
6020'-6025'		No Samples.
6025'-6030'	Limestone	Medium grey, brownish cast, extremely fine to very fine pelletal limestone with 20% microcrystalline limestone content, trace of argillaceous and silty content. Lost circulation material.
6030'-6035'	Limestone	Medium grey, brownish cast, microcrystalline, trace of argillaceous and silty content, pyritic. Lost circulation material.
6035'-6040'	Limestone and Shale	3': Medium grey, brownish cast, microcrystalline limestone with 20% coarse fragmental material, 20% microcrystalline dolomitic content, trace of silty and argillaceous content, pyritic. 2': Medium grey, brownish cast, 30% microcrystalline limestone content, trace of silty content, pyritic. Lost circulation material.

6040'—6045'	Shale	Medium grey, 30% microcrystalline limestone content, trace of silty content. Lost circulation material.
6045'—6050'	Limestone	Medium grey, microcrystalline, 10% coarse bioclastic material, 30% argillaceous content, trace of silty content, pyritic. Very shaly limestone, fractured. Lost circulation material.
6050'—6055'	Shale	Olive grey, 40% microcrystalline limestone content, trace of silty content, pyritic. Lost circulation material.
6055'—6060'	Shale and Limestone	2': Olive grey shale with 40% microcrystalline content, trace of silty content, pyritic. Lost circulation material. 3': Medium grey, slightly brownish, limestone, microcrystalline, 10% argillaceous content, fractured, calcite vein infill.
6060'—6065'	Shale	Olive grey, 40% microcrystalline limestone content, trace of silty content, pyritic.
6065'—6070'	Limestone	Medium grey, brownish, microcrystalline, 10% medium to coarse fragmental limestone, 10% argillaceous content, fractured.
6070'—6075'	Limestone	Medium grey, brownish, microcrystalline, 10% medium to coarse fragmental limestone, 10% argillaceous content, fractured.
6075'—6080'	Limestone	2': Medium grey, brownish, limestone, medium to coarse grained fragments, 20% sparry calcite matrix, trace of argillaceous content, fractured. 3': Medium grey, brownish limestone, extremely fine to very fine pelletal, 10% sparry calcite matrix.

6080'-6085'	Limestone	Medium grey, brownish, microcrystalline, 30% argillaceous content, 10% silty content.
6085'-6090'	Limestone	Medium grey, brownish, microcrystalline, 10% bioclastic material, trace of argillaceous content.
6090'-6095'	Shale	Light to medium grey, 30% microcrystalline limestone content, pyritic.
6095'-6100'	Limestone	Medium grey, brownish, microcrystalline, 10% bioclastic material, trace of silty and argillaceous content, fractured.
6100'-6105'		No Samples.
6105'-6110'	Limestone and Shale	3': Medium grey, brownish, limestone, microcrystalline, 20% medium to coarse bioclastic material, 10% argillaceous content, pyritic, fractured. Lost circulation material. 2': Medium grey shale, 40% microcrystalline limestone content, trace of silty content, pyritic.
6110'-6115'	Limestone	Medium brownish grey, microcrystalline, 10% medium to coarse bioclastic material, trace of argillaceous content, pyritic, fractured. Lost circulation material.
6115'-6120'	Limestone and Shale	2': Medium grey, 50% shale and 50% microcrystalline limestone, trace of silty content, pyritic, lost circulation material. 3': Medium brownish grey limestone, very fine pelletal, 20% medium to coarse bioclastic material, trace of argillaceous content, pyritic.
6120'-6125'	Limestone	Medium brownish grey, extremely fine to fine pelletal, 20% sparry calcite matrix, trace of argillaceous content.

6125'-6130'	Shale and Limestone	3': Medium gray shale with 40% microcrystalline limestone content, trace of silty content, pyritic. 2': Medium brownish grey limestone, microcrystalline, 10% medium to coarse bioclastic debris, trace of argillaceous content.
6130'-6135'	Shale and Limestone	3': Medium grey shale with 40% microcrystalline limestone content, trace of silty content, pyritic. 2': Medium brownish grey limestone, microcrystalline, 10% medium to coarse bioclastic debris, trace of argillaceous content.
6135'-6140'	Shale	Medium grey, 40% limestone content (microcrystalline), trace of silty content, pyritic.
6140'-6145'	Shale and Limestone	3': Medium grey shale, 40% limestone content (microcrystalline), trace of silty content, pyritic. 2': Medium grey limestone, microcrystalline, 20% extremely fine crystalline dolomitic content, trace of silty content, some authigenic quartz.
6145'-6150'	Shale and Limestone	3': Medium grey shale, 40% limestone content (microcrystalline), trace of silty content, pyritic. 2': Medium grey limestone, micro0 crystalline, 20% extremely fine crystalline dolomitic content, trace of silty content, some authigenic quartz. Fractured.
6150'-6155'	Limestone and Shale	3': Medium grey, brownish limestone, microcrystalline, 10% microcrystalline dolomitic content, trace of argillaceous content, pyritic, fractured. 2': Medium grey shale, 40% microcrystalline limestone content, trace of silty content.

6155'-6160'	Limestone and Shale	3': Medium grey, brownish limestone, microcrystalline, 10% microcrystalline dolomitic content, trace of argillaceous content, pyritic, fractured. 2': Medium grey shale, 40% microcrystalline limestone content, trace of silty content.
6160'-6165'	Shale	Medium grey, 30% microcrystalline limestone content, 10% fine to medium grained fragmental limestone, 10% silty content.
6165'-6170'	Limestone and Shale	3': Medium brownish grey limestone, microcrystalline, 10% extremely fine crystalline dolomitic content, trace of argillaceous content. 2': Medium grey, shale, 40% microcrystalline limestone content, 10% fragmental limestone, trace of silty content, pyritic.
6170'-6175'	Limestone and Shale	3': Medium brownish grey limestone, microcrystalline, 10% extremely fine crystalline dolomitic content, trace of argillaceous content. 2': Medium grey, shale, 40% microcrystalline limestone content, 10% fragmental limestone, trace of silty content, pyritic.
6175'-6180'	Limestone	Medium grey, extremely fine to very fine pelletal, 20% calcite spar matrix, some authigenic quartz.
6180'-6185'	Limestone	Medium grey, extremely fine to very fine pelletal, 20% sparry calcite matrix, trace of argillaceous content, fractured, calcispheres present.
6185'-6190'	Limestone	Medium grey, extremely fine to very fine pelletal, 20% argillaceous content.

6190'-6195'	Limestone	2': Medium grey, microcrystalline limestone with 10% argillaceous content and a trace of silty content. 3': Medium grey, microcrystalline limestone with 10% medium grained fragments, 10% extremely fine crystalline dolomitic content, trace of argillaceous content.
6195'-6200'	Limestone and Shale	4': Medium grey limestone, very fine to fine pelletal, 10% sparry calcite matrix, some authigenic quartz present. 1': Medium grey, 50% shale and 50% microcrystalline limestone.
6200'-6205'	Limestone	Medium grey, microcrystalline, 10% extremely fine crystalline dolomitic content, 10% argillaceous content, pyritic, some authigenic quartz present.
6205'-6210'	Limestone	Medium grey, very fine to fine pelletal, 10% extremely fine crystalline dolomitic content, trace of argillaceous content.
6210'-6220'	Limestone	8': Medium grey, microcrystalline limestone with 20% very fine to fine pelletal content, 10% extremely fine crystalline dolomitic content, 10% argillaceous content, burrowed, authigenic quartz present. Lost circulation material. 2': Medium grey, cryptogranular limestone, pyritic.
6220'-6225'	Limestone	3': Medium grey, very fine to fine pelletal limestone, with 20% microcrystalline limestone content, trace of argillaceous content, authigenic quartz present. 2': Medium grey, microcrystalline limestone with 10% fine bioclastic material, trace of argillaceous content, some authigenic quartz and birdseyes present. Lost circulation material.

6225'-6230'	Limestone	Medium grey, microcrystalline, 20% very fine to fine pelletal limestone, trace of argillaceous content, pyritic.
6230'-6235'	Limestone	Medium grey, microcrystalline, 20% very fine to fine pelletal limestone, trace of argillaceous content, pyritic.
6235'-6240'	Limestone	Medium grey, microcrystalline with 15% coarse bioclastic debris, 25% medium fragmental content, trace of silty and argillaceous content.
6240'-6245'	Limestone	3': Medium grey, very fine pelletal limestone, trace of argillaceous content. 2': Tan, microcrystalline limestone with 10% fine to medium bioclastic debris.
6245'-6250'	Limestone	Tan, microcrystalline, 10% fine to medium bioclastic debris, birdseye texture, some authigenic quartz present.
6250'-6255'	Limestone	Medium grey, microcrystalline with 10% coarse bioclastic debris, trace of silty and argillaceous content, 5% authigenic quartz.
6255'-6260'	Limestone	Tan, microcrystalline, trace of silty content, mottled and birds-eyed, 5% authigenic quartz.
6260'-6265'	Limestone	3': Medium grey, microcrystalline limestone, 10% bioclastic debris, trace of silty and argillaceous content, pyritic, 5% authigenic quartz. 2': Medium grey, very fine to medium pelletal limestone, 10% sparry calcite matrix, trace of argillaceous content.
6265'-6270'	Limestone	Medium grey, very fine to medium pelletal, 20% sparry calcite matrix, trace of silty and argillaceous content, some authigenic quartz present.

6270'-6275'	Limestone	Medium grey, very fine to medium pelletal, 20% sparry calcite matrix, trace of silty and argillaceous content, some authigenic quartz present.
6275'-6280'	Limestone	Medium grey, extremely fine to fine pelletal limestone, some calcispheres.
6280'-6285'	Limestone	3': Medium grey, extremely fine to fine pelletal limestone with calcispheres. 2': Medium grey, microcrystalline limestone with 30% coarse bioclastic debris.
6285'-6290'	Limestone	Medium grey, microcrystalline, 20% medium bioclastic debris. Lost circulation material, very poor samples.
6290'-6300'	Dolomite	Medium grey, microcrystalline, trace of argillaceous content, pyritic, heavily fractured. Samples very poor.
6300'-6305'		No Samples.
6305'-6310'	Dolomite	Dark grey, microcrystalline, 10% microcrystalline calcareous content, fractured.
6310'-6315'	Dolomite	Dark grey, microcrystalline, 10% microcrystalline calcareous content, 10% argillaceous content, fractured.
6315'-6320'	Dolomite	Dark grey, microcrystalline, 10% microcrystalline calcareous content, trace of argillaceous content, fractured.
6320'-6325'	Dolomite	Dark grey, microcrystalline, 10% microcrystalline calcareous content, trace of argillaceous content, fractured.

6325'-6335'	Dolomite	Dark grey, microcrystalline, 20% microcrystalline limestone content, 20% argillaceous content.
6335'-6340'	Shale	Dark grey, 30% microcrystalline dolomitic content, pyritic.
6340'-6345'	Limestone	Dark grey, microcrystalline, 20% microcrystalline dolomitic content, 20% argillaceous content.
6345'-6350'	Shale	Dark grey, 40% microcrystalline dolomitic content, pyritic.
6350'-6355'	Limestone	Dark brownish grey, microcrystalline, 20% argillaceous content, pyritic, authigenic quartz present. Waxy scum on residue.
6355'-6360'	Limestone	Dark brownish grey, microcrystalline, 20% argillaceous content, pyritic, authigenic quartz present. Waxy scum on residue.
6360'-6363'	Limestone	Dark brownish grey, microcrystalline, 20% argillaceous content, pyritic, authigenic quartz present. Waxy scum on residue.
6363'-6370'	Limestone	Medium grey, very fine to medium pelletal limestone, 10% extremely fine crystalline dolomitic content, 10% sparry calcite matrix, pyritic, authigenic quartz present.
6370'-6375'	Limestone	Medium grey, very fine to medium pelletal limestone, 10% extremely fine crystalline dolomitic content, 10% sparry calcite matrix, pyritic, authigenic quartz present.
6375'-6380'	Limestone	Medium grey, very fine to fine pelletal limestone, 10% sparry calcite matrix, less than 10% extremely fine crystalline dolomitic content.

6380'–6385'	Limestone	Medium grey, microcrystalline, less than 20% microcrystalline dolomitic content, trace of argillaceous content, pyritic.
6385'–6390'	Limestone	Medium to dark grey, very fine to fine pelletal limestone with less than 10% extremely fine crystalline dolomitic content, 10% sparry calcite matrix, authigenic quartz present. Streak of argillaceous (30%) microcrystalline limestone.
6390'–6395'	Limestone	Medium to dark grey, very fine to fine pelletal limestone with less than 10% extremely fine crystalline dolomitic content, 10% sparry calcite matrix, authigenic quartz present. Streak of argillaceous (30%) microcrystalline limestone.
6395'–6400'	Limestone	Dark grey, microcrystalline, less than 20% microcrystalline dolomitic content, 20% argillaceous content.
6400'–6405'	Limestone	Medium to dark grey, microcrystalline, 10% extremely fine crystalline dolomitic content, less than 15% argillaceous content.
6405'–6410'	Limestone	Medium to dark grey, very fine pelletal limestone, trace of argillaceous content, fractured.
6410'–6415'	Limestone	Medium grey, fine to coarse fragmental limestone, less than 20% extremely fine crystalline dolomitic content, 10% sparry calcite matrix, authigenic quartz present.
6415'–6420'	Limestone	Medium grey, very fine pelletal limestone, 10% sparry calcite matrix, less than 10% extremely fine crystalline dolomitic content, authigenic quartz present.

6420'-6425'	Limestone	Medium grey, very fine pelletal limestone, 10% sparry calcite matrix, less than 10% extremely fine crystalline dolomitic content, authigenic quartz present.
6425'-6430'	Limestone	Medium to dark grey, very fine to fine pelletal limestone, 10% sparry calcite matrix, trace of argillaceous conten, fractured, authigenic quartz present.
6430'-6435'	Limestone	Medium to dark grey, micro-crystalline limestone, less than 10% extremely fine crystalline dolomitic content, trace of argillaceous content. Dolomite as veins (?) replacing bioclastic (?) material.
6435'-6440'	Limestone	Medium to dark grey, micro-crystalline limestone, less than 10% extremely fine crystalline dolomitic content, trace of argillaceous content. Dolomite as veins (?) replacing bioclastic (?) material.
6440'-6445'	Limestone and Dolomite	3': Medium to dark grey, micro-crystalline limestone, less than 10% extremely fine crystalline dolomitic content, trace of argillaceous content. Dolomite as veins (?) replacing bioclastic (?) material. 2': Medium to dark grey, micro-crystalline dolomite with 20% microcrystalline calcareous content, trace of argillaceous content, fractured.
6445'-6450'	Limestone	Medium to dark grey, micro-crystalline limestone with less than 20% microcrystalline dolomitic content, trace of argil-laceous content, fractured.

6450'-6455'	Limestone	Medium to dark grey, microcrystalline limestone with less than 20% micro to extremely fine crystalline dolomitic content, trace of argillaceous content, fractured, irregular calcite blebs - birdseyes?
6455'-6460'	Limestone	Medium to dark grey, microcrystalline limestone with less than 20% micro to extremely fine crystalline dolomitic content, trace of argillaceous content. Dolomitization irregular and patchy.
6460'-6465'	Limestone	Medium to dark grey, microcrystalline limestone with less than 20% micro to extremely fine crystalline dolomitic content, trace of argillaceous content. Dolomitization irregular and patchy. Authigenic quartz present.
6465'-6470'	Limestone	Medium to dark grey, very fine pelletal limestone with 20% sparry calcite matrix.
6470'-6475'	Limestone	Medium to dark grey, microcrystalline limestone with a trace of dolomite and a trace of argillaceous content. Dolomitization irregular and patchy.
6475'-6480'	Limestone	3': Medium to dark grey, very fine to medium pelletal limestone, 20% sparry calcite matrix. 2': Medium to dark grey, microcrystalline limestone, less than 20% microcrystalline dolomitic content, trace of argillaceous content, birdseyes present.
6480'-6485'	Limestone	Medium to dark grey, microcrystalline, calcispheres present. Abundant lost circulation material.

6485'-6490'	Limestone	Medium to dark grey, very fine to fine pelletal limestone with 10% sparry calcite matrix, poor samples.
6490'-6495'	Limestone	Medium to dark grey, microcrystalline, trace of argillaceous content, poor samples.
6495'-6500'		Samples to poor to log.
6500'-6505'	Limestone	Medium to dark grey, microcrystalline, stylolitic, poor samples.
6505'-6510'	Limestone	Medium to dark grey, microcrystalline, less than 10% microcrystalline dolomitic content, poor samples.
6510'-6515'	Limestone	Medium to dark grey, microcrystalline, fractured and calcite veined.
6515'-6520'	Limestone	Medium to dark grey, extremely fine to very fine pelletal limestone with 10% spar calcite matrix, some authigenic quartz present.
6520'-6525'	Limestone	Medium to dark grey, extremely fine to very fine pelletal limestone.
6525'-6530'	Limestone	Medium to dark grey, microcrystalline, trace of argillaceous content. Birdseyes and occasional shalier streaks present.
6530'-6535'	Limestone	Medium to dark grey, microcrystalline, pyritic. 10% birdseyes.
6535'-6540'	Limestone	Medium to dark grey, microcrystalline, pyritic. 10% birdseyes.
6540'-6545'	Limestone	Medium to dark grey, very fine to fine pelletal, 10% sparry calcite matrix, stylolitic.

6545'-6550'	Limestone	Medium to dark grey, very fine to fine pelletal, 10% sparry calcite matrix, stylolitic.
6550'-6555'	Limestone	Medium to dark grey, very fine pelletal limestone with 20% spar calcite matrix, less than 10% extremely fine crystalline dolomitic content. Calcispheres are present.
6555'-6560'	Limestone	3': Medium to dark grey, very fine pelletal limestone with 20% spar calcite matrix, less than 10% extremely fine crystalline dolomitic content. Calcispheres are present. 2': Medium to dark grey, micro-crystalline limestone, pyritic.
6560'-6565'	Limestone	3': Medium to dark grey, fine to medium pelletal limestone with 10% spar calcite matrix. 2': Medium to dark grey, micro-crystalline limestone, pyritic, birdseyes present.
6565'-6570'	Limestone	Tan, very fine to fine pelletal limestone, trace of extremely fine crystalline dolomitic content, pyritic.
6570'-6575'	Limestone	Tan, very fine to fine pelletal limestone, trace of extremely fine crystalline dolomitic content, pyritic.
6575'-6580'	Dolomite	Tan, microcrystalline dolomite.
6580'-6585'	Dolomite	Tan, microcrystalline dolomite, 10% very fine to fine pelletal limestone. Occasional pellets and birdseyes undolomitized.
6585'-6590'	Limestone	Tan, extremely fine to very fine pelletal limestone with less than 20% extremely fine crystalline dolomitic content, pyritic.

6590'-6595'	Dolomite	Tan, microcrystalline dolomite, less than 20% extremely fine to very fine pelletal limestone, pyritic.
6595'-6600'	Limestone	Medium to dark grey, very fine to fine pelletal limestone with a trace of microcrystalline dolomite.
6600'-6605'	Limestone	Medium grey, very fine to fine pelletal limestone with a trace of argillaceous content, fractured.
6605'-6610'	Limestone	2': Medium grey, very fine to fine pelletal limestone with a trace of argillaceous content, pyritic. 3': Medium to dark grey, microcrystalline limestone with birdseyes.
6610'-6615'	Limestone-Dolomite	Medium grey, 50% very fine to fine pelletal limestone and 50% microcrystalline dolomite, trace of argillaceous content, pyritic.
6615'-6620'	Limestone	Medium grey, very fine to fine pelletal limestone, 20% sparry calcite matrix, trace of argillaceous content.
6620'-6625'	Limestone	Medium to dark grey, microcrystalline limestone, trace of argillaceous content, pyritic.
6625'-6630'	Dolomite	Medium grey, microcrystalline dolomite, 20% extremely fine to fine pelletal limestone content, trace of argillaceous content. Relict pellets and bioclastic(?) material.
6630'-6635'	Dolomite	Medium grey, microcrystalline dolomite with 10% microcrystalline limestone content, trace of argillaceous content.

6635'-6640'	Dolomite-Limestone	Medium grey, brownish, less than 70% microcrystalline limestone and 30-100% microcrystalline dolomite, trace of argillaceous content, birdseyes present.
6640'-6650'		No Samples.
6650'-6655'	Dolomite	Medium grey to tan, microcrystalline dolomite with 30% microcrystalline limestone content, 10% very fine to fine pelletal limestone, trace of argillaceous content, pyritic.
6655'-6660'	Limestone	Medium to dark brownish grey, microcrystalline limestone with a trace of argillaceous content, fractured, pyritic.
6660'-6665'	Limestone	Medium to dark brownish grey, microcrystalline limestone, birdseyes present.
6665'-6670'	Limestone	Medium to dark brownish grey, microcrystalline limestone, trace of argillaceous content, pyritic, birdseyes and vague pelleting present.
6670'-6675'	Limestone and Dolomite	3': Medium to dark grey, microcrystalline limestone, trace of argillaceous content, pyritic, birdseyes and vague pelleting present, coarse calcite crystals. 2': Tan, microcrystalline dolomite, 40% microcrystalline limestone content, trace of light grey to white argillaceous content, pyritic.
6675'-6680'	Dolomite	Tan, microcrystalline dolomite, 10% microcrystalline limestone, 10% very fine to fine pelletal limestone content, trace of light grey to white argillaceous content.

6680'-6685'	Dolomite and Limestone	3': Tan, microcrystalline dolomite with 10% microcrystalline limestone content, trace of light grey to white argillaceous content. 2': Tan, extremely fine crystalline limestone.
6685'-6690'	Dolomite	Medium grey, microcrystalline dolomite, 30% microcrystalline limestone content, pyritic.
6690'-6695'	Dolomite	Medium grey, microcrystalline dolomite, 30% microcrystalline limestone content, pyritic.
6695'-6700'	Dolomite	Buff, microcrystalline dolomite, 40% light grey argillaceous content, white residue.
6700'-6705'	Dolomite	Tan, microcrystalline dolomite, trace of very light grey argillaceous content.
6705'-6710'	Dolomite and Limestone	3': Tan, microcrystalline dolomite, with 20% very light grey argillaceous content. 2': Medium grey, microcrystalline limestone with a trace of very light grey argillaceous content.
6710'-6715'	Dolomite and Limestone	2': Medium grey, microcrystalline dolomite with 20% microcrystalline limestone content, trace of very light grey argillaceous content, pyritic. 3': Medium grey, microcrystalline limestone, 20-40% microcrystalline dolomitic content, trace of very light grey argillaceous content. Relict pellets?
6715'-6720'	Limestone	Light grey, microcrystalline with 20-40% microcrystalline dolomitic content, 10% argillaceous content.

6720'-6725'	Dolomite and Limestone	3': Tan, microcrystalline dolomite with 20% microcrystalline limestone content. 2': Light to medium grey, microcrystalline limestone with less than 20% microcrystalline dolomite content.
6725'-6730'	Dolomite and Limestone	3': Tan, microcrystalline dolomite. 2': Medium grey, microcrystalline limestone with 40% microcrystalline dolomite content.
6730'-6735'	Dolomite	Light tan, microcrystalline dolomite with 40% light grey and white argillaceous content. White argillaceous residue.
6735'-6740'	Dolomite and Limestone	3': Tan, microcrystalline dolomite. 2': Medium grey, microcrystalline limestone with 40% microcrystalline dolomite content.
6740'-6745'	Limestone and Dolomite	3': Tan, microcrystalline limestone (50%) and dolomite (50%). 2': Light grey, extremely fine to very fine crystalline dolomite. Streaks of light, coarse crystalline dolomite appearing.
6745'-6750'	Limestone and Dolomite	3': Tan, microcrystalline limestone (50%) and dolomite (50%). 2': Light grey, extremely fine to very fine crystalline dolomite. Streaks of light, coarse crystalline dolomite appearing.
6750'-6755'	Dolomite	3': Tan, microcrystalline dolomite with 40$ very light grey to white argillaceous content. 2': Tan, microcrystalline dolomite with 20% very light grey to white argillaceous content.
6755'-6760'	Dolomite and Limestone	3': Tan, microcrystalline dolomite with 20% microcrystalline limestone content, trace of very light grey to white argillaceous content, pyritic. 2': Tan, microcrystalline limestone with 30% microcrystalline dolomite content, trace of very light grey to white argillaceous content, pyritic.

6760'-6765'	Limestone	Tan, microcrystalline with less than 20% extremely fine crystalline dolomite, trace of very light grey to white argillaceous content. Vague pelleting.
6765'-6770'	Dolomite	Tan to light grey, microcrystalline dolomite with 10% light grey to white argillaceous content, pyritic.
6770'-6775'	Limestone	Light to medium grey, microcrystalline, 10% light grey to white argillaceous content, pyritic. Pelleted.
6775'-6780'	Limestone	Medium grey, fine to medium pelletal limestone with 10% spar calcite matrix.
6780'-6785'	Limestone and Dolomite	4': Medium grey, fine to medium pelletal limestone with 10% spar calcite matrix, pyritic. 1': Tan, microcrystalline dolomite.
6785'-6790'	Limestone	Tan, microcrystalline limestone with less than 20% micro to extremely fine crystalline dolomite. Dolomitized bioclastic debris?
6790'-6795'	Limestone and Dolomite	3': Medium grey, very fine to fine pelletal limestone with 20% sparry calcite matrix, calcite veining, authigenic quartz present. 2': Tan, microcrystalline dolomite with 30% microcrystalline limestone content, pyritic.
6795'-6800'	Limestone	Tan, microcrystalline limestone, vaguely pelleted, some authigenic quartz present.
6800'-6805'	Limestone and Dolomite	3': Tan, extremely fine to very fine pelletal limestone with less than 10% extremely fine crystalline dolomite content. Minor amount of anhydrite may be present in some of the light tan microcrystalline carbonates. 2': Light grey, microcrystalline dolomite with 10% microcrystalline limestone content.

6805'-6810'	Limestone	Tan, extremely fine to very fine pelleted limestone, less than 30% microcrystalline dolomite. Minor amount of anhydrite may be present in some of the light tan microcrystalline carbonates.
6810'-6815'	Limestone and Dolomite	3': Medium brownish grey, microcrystalline limestone, pyritic. 2': Light grey, microcrystalline limestone (50%) and microcrystalline dolomite (50%).
6815'-6820'	Limestone and Dolomite	3': Tan, microcrystalline limestone, pyritic, some authigenic quartz present. 2': Light grey, microcrystalline limestone (50%) and microcrystalline dolomite (50%), pyritic, some authigenic quartz present.
6820'-6825'	Dolomite	Light tan, microcrystalline dolomite with 30% microcrystalline limestone, trace of light brownish grey argillaceous content.
6825'-6830'	Dolomite	Light tan, microcrystalline dolomite with 30% microcrystalline limestone, trace of light brownish grey argillaceous content.
6830'-6835'	Dolomite	3': Medium to light grey, microcrystalline dolomite, trace of sucrosic dolomite? 2': Medium to light grey, extremely fine crystalline dolomite.
6835'-6840'	Dolomite	3': Medium to light grey, microcrystalline dolomite. 2': Medium to light grey, extremely fine crystalline dolomite.
6840'-6845'	Dolomite	Medium to light grey, microcrystalline.
6845'-6850'	Dolomite	2': Medium to light grey, microcrystalline dolomite. 3': Medium to light grey, microcrystalline dolomite with 10% microcrystalline limestone.

6850'-6855'	Limestone	Medium grey, very fine to fine pelletal limestone, 10% sparry calcite matrix. Streak of light grey, microcrystalline dolomite.
6855'-6860'	Limestone	Tan, microcrystalline, birdseyes.
6860'-6865'	Limestone and Dolomite	3': Light tan, microcrystalline limestone. 2': Light grey, microcrystalline dolomite with 10% microcrystalline limestone content.
6865'-6870'	Limestone	Tan, microcrystalline, less than 30% microcrystalline dolomitic content.
6870'-6875'	Dolomite	3': Medium to light grey, microcrystalline dolomite. 2': Medium to light grey, extremely fine crystalline dolomite.
6875'-6880'	Dolomite	Medium grey, micro to extremely fine crystalline dolomite with less than 20% microcrystalline limestone content.
6880'-6885'	Dolomite	Medium to dark grey, micro to extremely fine crystalline with 10% microcrystalline limestone content.
6885'-6890'	Limestone and Dolomite	2': Medium to dark grey, microcrystalline limestone. 3': Medium grey, microcrystalline dolomite.
6890'-6895'	Limestone and Dolomite	3': Medium brownish grey, very fine to fine pelletal limestone. 2': Medium grey, microcrystalline dolomite with less than 20% microcrystalline limestone content. Relict pellets.
6895'-6900'	Dolomite and Limestone	3': Medium grey, microcrystalline dolomite with less than 20% microcrystalline limestone content. 2': Light tan, microcrystalline limestone with less than 10% extremely fine crystalline dolomitic content, pyritic.

6900'-6905'	Limestone and Dolomite	2': Light tan, microcrystalline limestone with less than 10% extremely fine crystalline dolomite content, trace of argillaceous content, pyritic. 3': Medium grey, microcrystalline dolomite, trace of argillaceous content, pyritic.
6905'-6910'	Dolomite	Medium grey, micro to extremely fine crystalline dolomite, 10% very light grey argillaceous content.
6910'-6915'	Limestone	Tan, microcrystalline with less than 20% extremely fine crystalline dolomite content.
6915'-6920'	Dolomite	Tan, micro to extremely fine crystalline, 10% microcrystalline limestone content.
6920'-6925'	Dolomite	Medium to light grey, micro to extremely fine crystalline.
6925'-6930'	Dolomite	Medium grey, extremely fine crystalline.
6930'-6935'	Dolomite	Light grey, extremely fine crystalline.
6935'-6940'	Dolomite	Medium grey, micro to extremely fine crystalline.
6940'-6945'	Dolomite	Light grey, extremely fine crystalline.
6945'-6950'	Dolomite	Light grey, extremely fine crystalline.
6950'-6955'	Dolomite	Medium to light grey, extremely fine crystalline.
6955'-6960'	Dolomite	Medium to light grey, extremely fine crystalline dolomite with less than 10% microcrystalline limestone content.
6960'-6965'	Dolomite	Medium grey, extremely fine crystalline.

6965'-6970'	Dolomite	Medium grey, micro to extremely fine crystalline.
6970'-6975'	Dolomite	Medium grey, extremely fine crystalline, less than 10% microcrystalline limestone content.
6975'-6980'	Dolomite	Medium grey, slightly brownish, extremely fine crystalline.
6980'-6985'	Dolomite	Medium grey, slightly brownish, extremely fine crystalline.
6985'-7000'	Dolomite and Anydrite	70% of interval: Dolomite, tan to dark grey, microcrystalline to extremely fine crystalline, 10% dark grey argillaceous material, 10% anhydrite - small eyes or finely disseminated. 10% of interval: Anhydrite, cream to white, bedded with 5 to 10% dolomitic content. 20% of interval: Lost circulation material.
7000'-7030'	Dolomite	Light tan, microcrystalline dolomite with a trace of very fine to fine, floating anhydrite rhombs, in parts pelmicrite texture interbedded with medium to dark grey dolomite, extremely fine to microcrystalline with a trace of floating, very fine to fine anhydrite rhombs. Light tan dolomite:dark grey dolomite 7:3.
7030'-7085'	Dolomite	Light tan, microcrystalline dolomite with a trace of very fine to fine, floating anhydrite rhombs, in parts pelmicrite texture interbedded with medium to dark grey dolomite, extremely fine to microcrystalline with a trace of floating, very fine to fine anhydrite rhombs. Light tan dolomite:medium to dark grey dolomite 7:3.

7085'-7135'	Dolomite	Interbedded sequences of light tan dolomite (50%) and medium to dark grey dolomite (50%). Light tan dolomite is micro-crystalline to very fine crystal-line, very fine pelmicrite texture in streaks, trace of very fine anhydrite rhombs (floating), small dolomitic birdseyes. Medium to dark grey dolomite is microcrystalline to extremely fine crystalline, trace of very fine floating anhydrite rhombs, small dolomitic birdseyes, laminated in part.
7135'-7195'	Dolomite	Light tan to medium grey, micro-crystalline and extremely fine crystalline, trace of very fine anhydrite rhombs.
7195'-7210'	Dolomite	Light tan to medium grey, micro-crystalline and extremely fine crystalline, trace of very fine anhydrite rhombs.
7210'-7260'	Dolomite	Brown, very fine crystalline, extremely fine and fine crystal-line streaks. Veinlets filled with coarse secondary white dolomite and trace anhydrite.
7260'-7280'	Dolomite	Brown, extremely fine to very fine crystalline, minor fine crystalline streaks. Veinlets filled with white coarse dolomite crystals or silky-lustered white-cream anhydrite.
7280'-7310'	Dolomite and Chert	80% of Interval: Dolomite, brown, extremely fine crystalline plus some very fine crystalline streaks. Relict textures, micrite and very fine pelmicrite. 20% of Interval: Chert, cream to tan, bedded (in parts with very fine pelletal ghost texture, trace of cream to white silky-lustered anhydrite (bedded?).

7310'-7320'	Dolomite and Limestone	8' : Tan and brown, extremely fine crystalline dolomite with 20% cryptogranular limestone and 5% very finely disseminated anhydrite. 2' : Tan to brown, microcrystalline limestone with very fine pellets and 20% very fine, floating dolomite rhombs. Progressive dolomitization of a lime-mud.
7320'-7385'	Dolomite and Limestone	40-80% extremely fine crystalline dolomite and 60-20% microcrystalline limestone unit with a trace of pyrite, disseminated, veins and blebs. Progressive dolomitization of a lime-mud. Limestone unit, microcrystalline and very fine pelletal, 20% extremely fine, floating dolomite rhombs, trace of birdseyes, calcispheres and anhydrite veins.
7385'-7410'	Dolomite	Dark brown, extremely fine and very fine crystalline, trace of microcrystalline limestone. Dark brown scum, paper thin, black stylolitic partings.
7410'-7440'	Anhydrite and Dolomite	Anhydrite, tan, cream and buff, dolomitic (10-30%). Dolomite, buff, microcrystalline, 20% disseminated anhydrite and anhydrite blebs. Anhydrite:Dolomite 30:70.
7440'-7465'	Anhydrite and Dolomite	Anhydrite, white and cream, bedded. Dolomite, light tan, microcrystalline with 50% anhydrite eyes and blebs and finely disseminated between dolomite rhombs. Anhydrite:Dolomite 50:50.
7465'-7495'	Anhydrite and Dolomite	Anhydrite, white and cream,(bedded). Dolomite, light tan, microcrystalline with 50% anhydrite eyes and blebs and finely disseminated between dolomite rhombs. Anhydrite:Dolomite 75:25.

7495'-7525'	Dolomite	Light tan, microcrystalline to extremely fine crystalline dolomite with 20-50% disseminated anhydrite and anhydrite blebs, trace of calcareous content.
7525'-7545'	Dolomite	Dark brown, extremely fine crystalline, anhydrite veinlets.
7545'-7570'	Limestone	Microcrystalline (very fine pelletal) limestone with 10-50% extremely fine crystalline dolomite. Progressive dolomitization of a lime-mud.
7570'-7615'	Anhydrite, Dolomite and Limestone	Anhydrite, white to cream (bedded). Dolomite, light tan, microcrystalline to extremely fine crystalline with 10% microcrystalline limestone content, 10% anhydrite eyes or finely disseminated. Limestone, microcrystalline with 10-50% extremely fine crystalline dolomite. Anhydrite:Dolomite:Limestone ratio 20:70:10.
7615'-7625'	Chert, Anhydrite and Dolomite	Chert, white to tan. Anhydrite, white to cream. Dolomite, extremely fine crystalline with 10-40% microcrystalline limestone content. Chert:Anhydrite:Dolomite ratio 5:10:85.
7625'-7665'	Dolomite and Anhydrite	Dolomite, microcrystalline to extremely fine crystalline with 10% anhydrite eyes and blebs, trace of calcareous content, earthy texture. Anhydrite, white to cream, bedded. Dolomite:Anhydrite ratio 90:10.
7665'-7690'	Dolomite	Dolomite, tan, extremely fine crystalline with 10% anhydrite eyes and blebs, trace of calcareous content. Dolomite, brown, extremely fine and very fine crystalline. Tan Dolomite:Dark brown Dolomite ratio 60:40.

7690'-7725'	Anhydrite and Dolomite	Anhydrite, white, bedded. Dolomite, light tan, microcrystalline to extremely fine crystalline, 10% very finely disseminated anhydrite and blebs, trace calcareous content. Anhydrite:Dolomite ratio 30:70.
7725'-7745'	Anhydrite and Dolomite	Anhydrite, white, bedded. Dolomite, light tan, microcrystalline to extremely fine crystalline, 10% very finely disseminated anhydrite and blebs, trace calcareous content. Anhydrite:Dolomite ratio 30:70.
7745'-7770'	Dolomite	Dark brown, extremely fine crystalline. 7760-7770': shows white dolomite filled veinlets.
7770'-7780'	Dolomite	Light tan, microcrystalline dolomite with a trace of finely disseminated anhydrite, trace calcareous content.
7780'-7800'	Dolomite	Brown, extremely fine crystalline dolomite, minor streaks are very fine crystalline.
7800'-7825'	Dolomite	Medium to dark gray, extremely fine and very fine crystalline, trace of white chert, pelletal relict texture in parts, white dolomite veinlets.
7825'-7835'	Anhydrite and Dolomite	Anhydrite, white, bedded. Dolomite, tan, microcrystalline to extremely fine crystalline, trace of finely disseminated anhydrite, trace calcareous content, micrite and pelmicrite texture. Anhydrite:Dolomite ratio 20:80.
7835'-7860'	Dolomite	Medium to dark grey, very fine and extremely fine crystalline.
7860'-7885'	Dolomite	Medium to dark grey, extremely fine to very fine crystalline, trace of light grey chert, dolomite veinlets.

7885'-7920'	Anhydrite and Dolomite	Anhydrite, white and cream, bedded. Dolomite, tan, microcrystalline to extremely fine crystalline, 5% finely disseminated anhydrite and anhydrite blebs, trace calcareous content. Anhydrite:Dolomite ratio 30:70.
7920'-7940'	Dolomite	Light tan, very fine pelletal dolomite with 30% anhydrite cement, trace calcareous content.
7940'-7950'	Dolomite	Dolomite, dark brown, micro-crystalline with 20% finely disseminated anhydrite, trace of calcareous content (in streaks). Dolomite, dark brown, very fine pelletal with 40% anhydrite cement and blebs. Trace of brownish black, dolomitic (10%) shale.
7950'-7980'	Anhydrite and Dolomite	Anhydrite, white to cream, laminated. Anhydrite-dolomite, dolomite is microcrystalline. Anhydrite:Anhydrite-Dolomite ratio 70:30.
7980'-7990'	Dolomite	Light tan, microcrystalline, trace calcareous content, white dolomitic veinlets.
7990'-8000'	Dolomite	5': Dolomite, light tan, micro-crystalline, trace of calcareous content, white dolomitic veinlets. 2.5': Dolomite, dark brown, very fine to fine crystalline. 2.5': Dolomite, dark brown, micro-crystalline.
8000'-8010'	Dolomite	Medium and dark grey, very fine and fine crystalline, trace white dolomitic veinlets, possibly trace of bioclastic debris.
8010'-8030'	Dolomite	Dolomite, medium and dark grey, very very fine to fine crystalline, trace white dolomitic veinlets, possibly trace of bioclastic debris. Dolomite, white, coarsely crystal-line, probably blebs and/or veins within the dark dolomite. Grey dolomite:white dolomite ratio 70:30.

8030'-8045'	Dolomite	Dolomite, medium and dark grey, very fine and fine crystalline, trace white dolomitic veinlets, possibly trace of bioclastic debris. Dolomite, white, coarsely crystalline, dolomite blebs and/or veins within the dark dolomite. Grey dolomite:white dolomite ratio 90:10.
8045'-8095'	Anhydrite and Dolomite	Anhydrite, white and cream, bedded. Dolomite, tan, microcrystalline to extremely fine crystalline with 10% disseminated anhydrite and anhydrite blebs. Dolomite, medium to dark grey, extremely fine to very fine crystalline. Anhydrite:Tan Dolomite:Grey Dolomite ratio 50:40:10.
8095'-8135'	Anhydrite and Dolomite	Anhydrite, white to cream. Dolomite, tan, microcrystalline, trace of disseminated anhydrite, trace of calcareous content, white dolomitic veinlets. Anhydrite:Dolomite ratio 10:90.
8135'-8155'	Dolomite	Medium and dark grey, very fine and fine crystalline, abundant veinlets filled with coarse white dolomite rhombs, ghost textures suggest trace of bioclastic debris.
8155'-8170'	Dolomite	Medium and dark grey, very fine and fine crystalline, veinlets filled with white coarsely crystalline dolomite, ghost textures indicate pelsparite with trace bioclastic debris.
8170'-8195'	Anhydrite and Dolomite	Anhydrite, cream to white, bedded. Dolomite, light tan, microcrystalline, 5% anhydrite blebs. Dolomite, medium to dark grey, extremely fine to very fine crystalline, white dolomitic veinlets. Anhydrite:Tan Dolomite:Grey Dolomite ratio 30:50:20.

8195'-8210'	Dolomite	Medium to dark grey, very fine crystalline, trace anhydrite blebs, 20% medium to coarse white dolomite blebs and veins.
8210'-8250'	Anhydrite and Dolomite	Anhydrite, white, bedded, streaks containing floating dolomite rhombs. Dolomite, tan and medium grey, microcrystalline and extremely fine crystalline, trace of anhydrite blebs. Anhydrite:Dolomite ratio 40:60.
8250'-8255'	Anhydrite and Dolomite	Anhydrite, white, bedded, streaks containing floating dolomite rhombs. Dolomite, tan and medium grey, microcrystalline and extremely fine crystalline, trace of anhydrite blebs. Anhydrite:Dolomite ratio 40:60.
8255'-8260'	Anhydrite and Dolomite	Anhydrite, white, bedded. Dolomite, tan, microcrystalline, to extremely fine crystalline, 5% finely disseminated anhydrite. Anhydrite:Dolomite ratio 20:80.
8260'-8290'	Anhydrite and Dolomite	Anhydrite, white. Dolomite, light tan, microcrystalline to extremely fine crystalline, with 5% finely disseminated anhydrite. Dolomite, dark grey, extremely fine and very fine crystalline. Anhydrite:Tan Dolomite:Grey Dolomite ratio 10:40:50.
8290'-8330'	Dolomite	Medium and dark grey, extremely fine pelletal, very fine streaks, trace calcareous content. Relict textures indicate micrite, pel-micrite and pelsparite textures. Interval is badly fractured by narrow veinlets, filled with white dolomite and trace gilsonite.

8330'-8360'	Dolomite	Dark grey, very fine crystalline, very badly fractured, filled with coarse white dolomite blebs, trace slickensided gilsonite. Small dolomitic birdseyes.
8360'-8385'	Dolomite	Dark grey, extremely fine and very fine crystalline, trace white, translucent chert. Dolomite filled fractures decrease.
8385'-8390'	Dolomite and Anhydrite	Dolomite, dark grey, extremely fine and very fine crystalline, trace of white translucent chert. Dolomite filled fractures decrease. Anhydrite: white to cream. Dolomite, light tan, micro-crystalline to extremely fine crystalline. Grey Dolomite:Anhydrite:Tan Dolomite ratio 50:30:20.
8390'-8400'	Anhydrite and Dolomite	Anhydrite, white. Dolomite, medium to dark grey, extremely fine crystalline. Dolomite, tan, microcrystalline to extremely fine crystalline, 5% finely disseminated anhydrite. Anhydrite:Grey Dolomite:Tan Dolomite ratio 25:25:50.
8400'-8410'	Dolomite and Anhydrite	Dolomite, dark grey to black, extremely fine and very fine crystalline. Anhydrite, white, bedded. Dolomite, light tan, microcrystal-line to extremely fine crystalline, anhydritic (20-50%). Grey Dolomite:Anhydrite:Tan Dolomite ratio 50:30:20.
8410'-8420'	Anhydrite and Dolomite	5': Anhydrite, white, bedded. 5': Dolomite, tan and medium grey, microcrystalline and extremely fine crystalline, trace of free sulpher.

8420'-8450'	Anhydrite and Dolomite	Anhydrite, white and cream, bedded (in parts with floating tan microcrystalline dolomite remnants.) Dolomite, tan and medium and dark grey, microcrystalline and extremely fine crystalline, anhydritic (10-60%). Anhydrite:Dolomite ratio 25:75.
8450'-8460'	Dolomite	Medium and dark grey, extremely fine crystalline, minor very fine streaks.
8460'-8470'	Dolomite	Medium and dark grey, extremely fine crystalline, trace of anhydrite rhombs.
8470'-8280'	Dolomite and Anhydrite	Dolomite, medium and dark grey, extremely fine crystalline, trace of anhydrite rhombs. Anhydrite, white and cream. Dolomite:Anhydrite ratio 80:20.
8280'-8500'	Dolomite	Medium grey, very fine crystalline.
8500'-8520'	Anhydrite and Dolomite	Anhydrite, white and cream, bedded. Dolomite, medium grey, extremely fine crystalline. Anhydrite:Dolomite ratio 40:60.
8520'-8530'	Dolomite	Medium grey-tan, microcrystalline, extremely fine crystalline streaks, trace very finely disseminated anhydrite, trace of calcareous content, trace of tan argillaceous content.
8530'-8540'	Dolomite	Medium and dark grey, very fine to fine crystalline, trace of anhydrite rhombs.
8540'-8580'	Anhydrite and Dolomite	Anhydrite, cream, bedded. Dolomite, tan-medium grey, microcrystalline, trace of very finely disseminated anhydrite, trace tan argillaceous content. Anhydrite:Dolomite ratio 25:75.

8580'-8600'	Dolomite	Tan-medium grey, microcrystalline, 5% very finely disseminated anhydrite.
8600'-8630'	Anhydrite and Dolomite	Anhydrite, white and cream, bedded. Dolomite, tan, microcrystalline. Dolomite, brown, extremely fine crystalline. Anhydrite:Tan Dolomite:Brown Dolomite ratio 10:70:20.
8630'-8640'	Anhydrite and Dolomite	Anhydrite, cream, bedded. Dolomite, medium and dark grey, very fine crystalline, trace of translucent, white and tan chert. Anhydrite:Dolomite ratio 30:70.
8640'-8650'	Dolomite	Dark grey, fine crystalline, minor medium streaks.
8650'-8660'	Dolomite	Tan, microcrystalline, trace of calcareous content.
8660'-8710'	Anhydrite and Dolomite	Anhydrite, cream and light tan, bedded. Dolomite, tan and brownish grey, microcrystalline plus some extremely fine crystalline streaks. Anhydrite:Dolomite ratio 25:75.
8710'-8720'	Dolomite	Medium and dark grey, very fine and fine crystalline.
8720'-8745'	Dolomite and Anhydrite	Dolomite, tan and brown, microcrystalline plus some extremely fine crystalline streaks, trace translucent (white) chert. Anhydrite, cream and white, bedded. Dolomite:Anhydrite ratio 80:20.
8745'-8755'	Dolomite and Anhydrite	Dolomite, tan and brown, microcrystalline plus some extremely fine crystalline streaks, trace translucent (white) chert. Anhydrite, cream and white, bedded. Dolomite:Anhydrite ratio 80:20.
8755'-8765'	Anhydrite and Dolomite	Anhydrite, cream and white. Dolomite, tan and medium grey, microcrystalline and extremely fine crystalline with 5% small anhydrite eyes. Anhydrite:Dolomite ratio 50:50.

8765'-8775'	Anhydrite and Dolomite	Anhydrite, white and cream, bedded. Dolomite, tan and medium grey, microcrystalline plus some extremely fine crystalline streaks, trace of anhydrite. Anhydrite:Dolomite ratio 20:80.
8775'-8785'	Dolomite	Tan and medium grey, microcrystalline and extremely fine crystalline, 5% finely disseminated anhydrite.
8785'-8800'	Dolomite	Medium and dark grey, extremely fine crystalline.
8800'-8860'	Anhydrite and Dolomite	Anhydrite, cream and white, bedded. Dolomite, tan and medium grey, microcrystalline and extremely fine crystalline, 5% anhydrite rhombs and small blebs, trace calcareous content. Anhydrite:Dolomite ratio 20:80.
8860'-8890'	Anhydrite and Dolomite	Anhydrite, cream and white, bedded. Dolomite, medium grey and tan, microcrystalline, 5% anhydrite, trace calcareous content. Anhydrite:Dolomite ratio 30:70.
8890'-8910'	Anhydrite and Dolomite	Anhydrite, cream and white, bedded. Dolomite, tan and brownish grey, microcrystalline, extremely fine crystalline streaks, 5% anhydrite, Streaks with 10% brown argillaceous material. Anhydrite:Dolomite ratio 15:85.
8910'-8920'	Anhydrite and Dolomite	Anhydrite, white, strong income of finely crystalline, highly silky-lustered anhydrite. Dolomite, brownish grey and dark grey, extremely fine crystalline. Anhydrite:Dolomite ratio 50:50.
8920'-8935'	Dolomite and Anhydrite	Dolomite, brownish grey to dark brown, microcrystalline and fine pelletal, 5% anhydrite blebs and interpelletal. Anhydrite, white, bedded. Dolomite:Anhydrite ratio 90:10.

8935'-8950'	Anhydrite and Dolomite	Anhydrite, white and cream. Dolomite, microcrystalline with fine pelletal streaks, 5% anhydrite. Anhydrite:Dolomite ratio 30:70.
8950'-8980'	Anhydrite and Dolomite	Anhydrite, white, bedded. Dolomite, brownish grey, microcrystalline with 5% anhydrite. Anhydrite:Dolomite ratio 25:75.
8980'-9040'	Anhydrite and Dolomite	Anhydrite, white, bedded. Dolomite, brownish grey and brownish black, extremely fine crystalline with very fine and microcrystalline streaks, 5% anhydrite content. Anhydrite:Dolomite ratio 15:85.
9040'-9060'	Anhydrite and Dolomite	Anhydrite, cream and white, bedded; streaks contain very fine floating dolomite rhombs. Dolomite, tan and brownish grey, microcrystalline and extremely fine crystalline with 5% anhydrite. Anhydrite:Dolomite ratio 40:60.
9060'-9090'	Dolomite	Tan and brownish grey, microcrystalline to extremely fine crystalline, trace floating anhydrite rhombs.
9090'-9110'	Anhydrite and Dolomite	Anhydrite, white and cream, bedded. Dolomite, tan and brownish grey, microcrystalline to extremely fine crystalline, 5% anhydrite. Anhydrite:Dolomite ratio 50:50.
9110'-9120'	Anhydrite and Dolomite	Anhydrite, cream, bedded. Dolomite, cream to light tan, microcrystalline and very fine pelletal. Anhydrite:Dolomite ratio 50:50.
9120'-9150'	Dolomite	Brownish grey, microcrystalline and extremely fine crystalline, trace of anhydrite.

9150'-9160'	Dolomite and Anhydrite	Dolomite, brownish grey, microcrystalline and extremely fine crystalline with a trace of anhydrite. Anhydrite, white, bedded. Dolomite:Anhydrite ratio 75:25.
9160'-9170'	Dolomite	Brownish grey and dark brown, microcrystalline and extremely fine crystalline.
9170'-9180'	Anhydrite and Dolomite	Anhydrite, white, bedded, dolomitic (10%). Dolomite, brownish grey and dark brown, microcrystalline and extremely fine crystalline. Anhydrite:Dolomite ratio 60:40.
9180'-9190'	Anhydrite and Dolomite	Anhydrite, white, bedded, dolomitic (10%). Dolomite, brownish grey and dark brown, microcrystalline and extremely fine crystalline. Anhydrite:Dolomite ratio 60:40.
9190'-9200'	Dolomite	Light tan, microcrystalline and very fine pelletal, trace of very finely disseminated anhydrite.
9200'-9225'	Anhydrite and Dolomite	Anhydrite, white, bedded. Dolomite, tan and brown, microcrystalline with 5% anhydrite. Anhydrite:Dolomite ratio 10:90.
9225'-9230'		Sample Missing.
9230'-9260'	Anhydrite and Dolomite	Anhydrite, white, bedded. Dolomite, tan and brown, microcrystalline with 5% anhydrite. Anhydrite:Dolomite ratio 10:90.
9260'-9280	Anhydrite and Dolomite	Anhydrite, white, bedded. Dolomite, brownish grey, microcrystalline with a trace of anhydrite. Anhydrite:Dolomite ratio 10:90.

9280'-9310'	Anhydrite and Shale and Dolomite	Anhydrite, white, bedded. Shale, dark grey, very platy and with metallic lustre and 10% silt content. Dolomite, medium to dark brownish grey, microcrystalline and extremely fine crystalline with a trace of anhydrite. Anhydrite:Shale:Dolomite ratio 10:10:80.
9310'-9320'	Dolomite and Anhydrite	Dolomite, brownish grey to dark brown, microcrystalline to fine crystalline, trace of anhydrite. Anhydrite, white and light grey (with a trace of green hue), bedded. Dolomite:Anhydrite ratio 60:40.
9320'-9330'	Dolomite and Anhydrite	Dolomite, brownish grey, microcrystalline with a trace of anhydrite. Anhydrite, white and light grey, bedded. Dolomite:Anhydrite ratio 60:40.
9330'-9345'	Dolomite and Anhydrite	Dolomite, brownish grey, microcrystalline and extremely fine crystalline, minor very fine to fine crystalline streaks. Anhydrite, white and light grey, bedded. Dolomite:Anhydrite ratio 50:50.
9345'-9350'	Dolomite	Medium and dark grey, very fine and fine crystalline, fractured.
9350'-9355'	Dolomite and Anhydrite	Dolomite, medium and dark grey, microcrystalline and extremely fine crystalline. Anhydrite, white and light grey, bedded. Dolomite:Anhydrite ratio 70:30.
9355'-9370'	Dolomite	Brownish grey, extremely fine to fine crystalline, fractured.
9370'-9420'	Dolomite	Medium grey and dark brown, extremely fine, very fine and fine crystalline, fractured, poor samples.

9420'-9430'	Anhydrite and Dolomite	Anhydrite, white and cream, bedded. Dolomite, brown, microcrystalline and extremely fine crystalline. Anhydrite:Dolomite ratio 25:75.
9430'-9445'	Dolomite	Dark brown, microcrystalline and extremely fine crystalline.
9445'-9485'	Dolomite	Tan and dark brown, microcrystalline and extremely fine crystalline with a trace of anhydrite.
9485'-9495'	Dolomite	Dolomite, tan and dark brown, microcrystalline and extremely fine crystalline with a trace of anhydrite. Dolomite, brown, fine crystalline. Tan Dolomite:Brown Dolomite ratio 80:20.
9495'-9505'	Dolomite	Tan and brown, extremely fine crystalline, minor very fine crystalline streaks.
9505'-9515'	Dolomite	Dolomite, microcrystalline and extremely fine crystalline, tan and brown. Dolomite, very fine and fine crystalline, brown. Tan and Brown Dolomite:Brown Dolomite ratio 70:30.
9515'-9535'	Dolomite	Brown, microcrystalline and extremely fine crystalline with a trace of anhydrite and a trace calcareous content.
9535'-9540'		No Sample.
9540'-9545'	Dolomite	Medium to dark grey, extremely fine to very fine crystalline, anhydrite in loose coarse crystals, pyritic, white, crystalline dolomite veins.
9545'-9550'	Dolomite	Medium to dark grey, extremely fine to very fine crystalline, anhydrite in loose coarse crystals, pyritic, white, crystalline dolomite veins.

9550'-9555'	Dolomite	Medium to dark grey, extremely fine to very fine crystalline, white, crystalline dolomite veins.
9555'-9560'	Dolomite	Medium to dark grey, extremely fine to very fine crystalline, white, crystalline dolomite veins.
9560'-9565'	Dolomite	Medium to dark grey, extremely fine to very fine crystalline, white, crystalline dolomite veins.
9565'-9570'	Dolomite	Medium to dark grey, extremely fine to very fine crystalline, white, crystalline dolomite veins.
9570'-9575'	Dolomite	Medium to dark grey, extremely fine to very fine crystalline, white, crystalline dolomite veins.
9575'-9580'	Dolomite	Medium to dark grey, extremely fine to very fine crystalline, white, crystalline dolomite veins.
9580'-9585'	Dolomite	Medium to dark grey, extremely fine to very fine crystalline, white, crystalline dolomite veins.
9585'-9590'	Dolomite	Medium to dark grey, extremely fine to very fine crystalline, white, crystalline dolomite veins.
9590'-9595'	Dolomite	Medium to dark grey, extremely fine to very fine crystalline, white, crystalline dolomite veins.
9595'-9600'	Dolomite	Medium to dark grey, extremely fine to very fine crystalline, white, crystalline dolomite veins.

9600'-9605'	Dolomite	Medium to dark grey, extremely fine to very fine crystalline, white, crystalline dolomite veins.
9605'-9610'		No Samples.
9610'-9615'	Dolomite	Medium grey, extremely fine to very fine crystalline dolomite with white dolomite veins and light grey, extremely fine to very fine crystalline dolomite.
9615'-9620'	Dolomite	Medium and light grey dolomite, extremely fine to very fine crystalline, white dolomite veins, 2% anhydrite eyes.
9620'-9625'		No Sample.
9625'-9630'	Dolomite	Medium and light grey dolomite; anhydritic (5%), extremely fine; trace of anhydrite eyes, 5% dolomite rhombs, dolomite veins, loose crystals of dolomite, anhydrite in loose coarse crystals.
9630'-9635'	Dolomite	Light and medium grey dolomite; 5% anhydrite, extremely fine; trace of anhydrite eyes, 5% dolomite rhombs, loose crystals of dolomite, dolomite veins.
9635'-9640'	Dolomite	Light and medium grey, extremely fine to very fine crystalline, 5% extremely fine anhydrite, 1% anhydrite eyes, 5% dolomite rhombs, loose crystals of dolomite, dolomite veins.
9640'-9645'	Dolomite	Light and medium grey, extremely fine to very fine crystalline, 5% extremely fine anhydrite, 1% anhydrite eyes, 5% dolomite rhombs, loose crystals of dolomite with veins of dolomite.
9645'-9650'	Dolomite	Light and medium grey, extremely fine to very fine crystalline, 5% extremely fine anhydrite, 1% anhydrite eyes, 5% dolomite rhombs, loose crystals of dolomite, dolomite veins.

9650'-9655'	Dolomite	Light grey, and medium grey dolomite, extremely fine to very fine crystalline, trace of carbonaceous material, 1% anhydrite eyes, 5% extremely fine anhydrite, 5% dolomite rhombs, loose crystals of dolomite, dolomite veins.
9655'-9660'	Dolomite	Light and medium grey dolomite, extremely fine to very fine crystalline, 1% anhydrite eyes, 5% extremely fine anhydrite, 5% dolomite rhombs, loose crystals of dolomite, dolomite veins.
9660'-9665'	Dolomite	Light and medium grey dolomite, extremely fine to very fine crystalline, 1% anhydrite eyes, 5% extremely fine anhydrite, 5% dolomite rhombs, loose crystals of dolomite, dolomite veins.
9665'-9670'	Dolomite	Light and medium grey dolomite, extremely fine to very fine crystalline, trace of tan colored chert, 1% anhydrite eyes, 5% extremely fine anhydrite, 5% dolomite rhombs; loose crystals of dolomite and dolomite veins.
9670'-9675'	Dolomite	Light and medium grey dolomite, extremely fine to very fine crystalline, trace of tan colored chert, 1% anhydrite eyes, 5% extremely fine anhydrite, 5% dolomite rhombs; loose crystals of dolomite and dolomite veins.
9675'-9680'	Dolomite	Light and medium grey dolomite, extremely fine to very fine crystalline, trace of tan colored chert, 1% anhydrite eyes, 5% extremely fine anhydrite, 5% dolomite rhombs; loose crystals of dolomite and dolomite veins.

9680'-9685'	Dolomite	Light and medium grey dolomite, extremely fine to very fine crystalline, 5% very fine anhydrite, 1% anhydrite eyes, 5% dolomite rhombs; loose crystals of dolomite and dolomite veins.
9685'-9690'	Dolomite	Light and medium gray, extremely fine to very fine crystalline, 10% extremely fine anhydrite, 5% dolomite rhombs, 1% anhydrite eyes; white dolomite veins.
9690'-9695'	Dolomite	Light and medium grey, extremely fine to very fine crystalline, 5% extremely fine anhydrite, 5% dolomite rhombs, trace anhydrite eyes; white dolomite veins, loose dolomite crystals.
9695'-9700'	Dolomite	Light and medium grey, extremely fine to very fine crystalline, 5% extremely fine anhydrite, 5% dolomite rhombs, trace of anhydrite eyes; white dolomite veins, loose dolomite crystals.
9700'-9705'	Dolomite	Light and medium grey, extremely fine to very fine crystalline, 5% extremely fine anhydrite, 5% dolomite rhombs, trace of anhydrite eyes; white dolomite veins, loose dolomite crystals.
9705'-9710'	Dolomite	Light and medium grey, extremely fine to very fine crystalline, 5% extremely fine anhydrite, 5% dolomite rhombs, trace of anhydrite eyes; white dolomite veins, loose dolomite crystals.
9710'-9715'	Dolomite	Light and medium grey, extremely fine to very fine crystalline, 5% extremely fine anhydrite, 5% dolomite rhombs, trace of anhydrite eyes; white dolomite veins, loose dolomite crystals.

9715'-9720'	Dolomite	Light and medium grey, extremely fine to very fine crystalline, 5% extremely fine anhydrite, 5% dolomite rhombs, trace of anhydrite eyes; white dolomite veins, loose dolomite crystals.
9720'-9725'	Dolomite	Light and medium grey, extremely fine to very fine crystalline, 5% extremely fine anhydrite, 5% dolomite rhombs, trace of anhydrite eyes; white dolomite veins, loose dolomite crystals.
9725'-9730'	Dolomite	Light and medium grey, extremely fine to very fine crystalline, 5% extremely fine anhydrite, 5% dolomite rhombs, trace of anhydrite eyes; white dolomite veins, loose dolomite crystals.
9730'-9735'	Dolomite	Light and medium grey, extremely fine to very fine crystalline, 5% extremely fine anhydrite, 5% dolomite rhombs, trace of anhydrite eyes; white dolomite veins, loose dolomite crystals.
9735'-9740'	Dolomite	Light and dark grey, extremely fine to very fine crystalline, 5% extremely fine anhydrite, trace of tan colored chert, 5% dolomite rhombs, trace of anhydrite eyes; dolomite veins present.
9740'-9745'	Dolomite	Light and dark grey, extremely fine to very fine crystalline, 5% extremely fine anhydrite, 5% dolomite rhombs, trace of anhydrite eyes; dolomite veins present.
9745'-9750'	Dolomite	Light and dark grey, extremely fine to very fine crystalline, 5% extremely fine anhydrite, 5% dolomite rhombs, trace of anhydrite eyes; dolomite veins present.

9750'-9755'	Dolomite	Light and medium grey, extremely fine to very fine crystalline, 4% extremely fine anhydrite, trace of tan colored chert, 5% dolomite rhombs, trace of anhydrite eyes, white dolomite veins present.
9755'-9760'	Dolomite	Light and medium grey, extremely fine to very fine crystalline, 4% anhydrite - extremely fine; 5% dolomite rhombs, trace of anhydrite eyes, white dolomite veins present.
9760'-9765'	Dolomite	Light and medium grey, extremely fine to very fine crystalline, 4% extremely fine anhydrite, 5% dolomite rhombs, trace of anhydrite eyes, white dolomite veins present.
9765'-9770'	Dolomite	Light and medium grey, extremely fine to very fine crystalline, 4% extremely fine anhydrite, 5% dolomite rhombs, trace of anhydrite eyes, white dolomite veins present.
9770'-9775'	Dolomite	Light and medium grey, extremely fine to very fine crystalline, 4% extremely fine anhydrite, 5% dolomite rhombs, trace of anhydrite eyes, trace of pyrite, white dolomite veins present.
9775'-9780'	Dolomite	Light and medium grey, extremely fine to very fine crystalline, 4% extremely fine anhydrite, 5% dolomite rhombs, trace of anhydrite eyes, white dolomite veins present.
9780'-9785'	Dolomite	Light and medium grey, extremely fine to very fine crystalline, 4% extremely fine anhydrite, 5% dolomite rhombs, trace of anhydrite eyes, white dolomite veins present.
9785'-9790'	Dolomite	Light and medium grey, extremely fine to very fine crystalline, 4% extremely fine anhydrite, 5% dolomite rhombs, trace of anhydrite eyes, white dolomite veins present.

9790'-9795'	Dolomite	Light and medium grey, extremely fine to very fine crystalline, 4% extremely fine anhydrite, trace of anhydrite eyes, white dolomite veins present.
9795'-9800'	Dolomite	Light and medium grey, extremely fine to very fine crystalline, 4% extremely fine anhydrite, trace of anhydrite eyes, 5% dolomite rhombs, trace of tan colored chert, white dolomite veins present.
9800'-9805'	Dolomite	Light and medium grey, extremely fine to very fine crystalline, 4% extremely fine anhydrite, trace of anhydrite eyes, 5% dolomite rhombs, white dolomite veins present.
9805'-9810'	Dolomite	Light and medium grey, extremely fine to very fine crystalline, 4% extremely fine anhydrite, trace of anhydrite eyes, 5% dolomite rhombs, white dolomite veins present.
9810'-9815'	Dolomite	Light and medium grey, extremely fine to very fine crystalline, 4% extremely fine anhydrite, trace of anhydrite eyes, 5% dolomite rhombs, trace of pale grey chert, white dolomite veins present.
9815'-9820'	Dolomite	Light and medium grey, extremely fine to very fine crystalline, 4% extremely fine anhydrite, 5% dolomite rhombs, white dolomite veins present.
9820'-9825'	Dolomite	Light and medium grey, extremely fine to very fine crystalline, 4% extremely fine anhydrite, 5% dolomite rhombs, white dolomite veins present.

9825'-9830'	Dolomite	Light and medium grey, extremely fine to very fine crystalline, 4% extremely fine anhydrite, trace of anhydrite eyes, white dolomite veins present.
9830'-9835'	Dolomite	Light and medium grey, extremely fine to very fine crystalline, 4% extremely fine anhydrite, trace of anhydrite eyes, white dolomite veins present.
9835'-9840'	Dolomite	Light and medium grey, extremely fine to very fine crystalline, 4% extremely fine anhydrite, trace of anhydrite eyes, white dolomite veins present.
9840'-9845'	Dolomite	Light and medium grey, extremely fine to very fine crystalline, 4% extremely fine anhydrite, trace of anhydrite eyes, trace of pyrite, white dolomite veins present.
9845'-9850'	Dolomite	Light and medium grey, extremely fine to very fine crystalline, 4% extremely fine anhydrite, trace of anhydrite eyes, white dolomite veins present.
9850'-9855'	Dolomite	Light and medium grey, extremely fine to very fine crystalline, 4% extremely fine anhydrite, trace of anhydrite eyes, white dolomite veins present.
9855'-9860'	Dolomite	Light grey and medium to dark grey dolomite, extremely fine to very fine crystalline, 4% extremely fine anhydrite, trace of tan colored chert, trace of anhydrite eyes and bioclastic debris, 6% dolomite rhombs, white dolomite veins present.

9860'-9865'	Dolomite	Light grey and medium to dark grey dolomite, extremely fine to very fine crystalline, 4% extremely fine anhydrite, trace of tan colored chert, trace of anhydrite eyes, 6% dolomite rhombs, white dolomite veins present.
9865'-9870'	Dolomite	Light grey and medium to dark grey dolomite, extremely fine to very fine crystalline, 4% extremely fine anhydrite, 6% dolomite rhombs, trace of anhydrite eyes, white dolomite veins present.
9870'-9875'	Dolomite	Light grey and medium to dark grey dolomite, extremely fine to very fine crystalline, 4% extremely fine anhydrite, trace of tan colored chert, trace of anhydrite eyes, 6% dolomite rhombs, white dolomite veins present.
9875'-9880'	Dolomite	Light grey and medium to dark grey dolomite, extremely fine to very fine crystalline, 4% extremely fine anhydrite, trace of tan colored chert, trace of anhydrite eyes, 6% dolomite rhombs, white dolomite veins present.
9880'-9885'	Dolomite	Light grey and medium to dark grey dolomite, extremely fine to very fine crystalline, 4% extremely fine anhydrite, trace of tan colored chert, trace of anhydrite eyes, 6% dolomite rhombs, white dolomite veins present.
9885'-9890'	Dolomite	Light grey and medium to dark grey dolomite, extremely fine to very fine crystalline, 4% extremely fine anhydrite, trace of tan colored chert, trace of anhydrite eyes, 6% dolomite rhombs, white dolomite veins present.

9890'-9895'	Dolomite	Light grey and medium to dark grey dolomite, extremely fine to very fine crystalline, 4% extremely fine anhydrite, trace of anhydrite eyes, 6% dolomite rhombs, white dolomite veins present.
9895'-9900'	Dolomite	Light grey and medium to dark grey dolomite, extremely fine to very fine crystalline, 4% extremely fine anhydrite, trace of anhydrite eyes, 6% dolomite rhombs, white dolomite veins present.
9900'-9905'	Dolomite	Light grey and medium to dark grey dolomite, extremely fine to very fine crystalline, 4% extremely fine anhydrite, trace of tan colored chert, trace of anhydrite eyes, 6% dolomite rhombs, white dolomite veins present.
9905'-9910'	Dolomite	Light grey and medium to dark grey dolomite, extremely fine to very fine crystalline, 4% extremely fine anhydrite, trace of tan colored chert, trace of anhydrite eyes, 6% dolomite rhombs, white dolomite veins present.
9910'-9915'	Dolomite	Light grey and medium to dark grey dolomite, extremely fine to very fine crystalline, 4% extremely fine anhydrite, trace of tan colored chert, trace of anhydrite eyes, 6% dolomite rhombs, white dolomite veins present.
9915'-9920'	Dolomite	Light grey and medium to dark grey dolomite, extremely fine to very fine crystalline, 4% extremely fine anhydrite, trace of tan colored chert, trace of anhydrite eyes, 6% dolomite rhombs, white dolomite veins present.

9920'-9925'	Dolomite	Light grey and medium to dark grey, drusy dolomite, extremely fine to very fine crystalline, 4% extremely fine anhydrite, trace of tan colored chert, trace of anhydrite eyes, 6% dolomite rhombs, white dolomite veins present.
9925'-9930'	Dolomite	Light grey and medium to dark grey dolomite, extremely fine to very fine crystalline, 4% extremely fine drusy anhydrite, trace of tan colored chert, trace of anhydrite eyes, 6% dolomite rhombs.
9930'-9935'	Dolomite	Light grey and medium to dark grey dolomite, extremely fine to very fine crystalline, 4% extremely fine anhydrite, trace of tan colored chert, trace of anhydrite eyes, 6% dolomite rhombs, trace of dolomite veins.
9935'-9940'	Dolomite	Light grey and medium to dark grey dolomite, extremely fine to very fine crystalline, 4% extremely fine anhydrite, trace of tan colored chert, trace of anhydrite eyes, 6% dolomite rhombs, dolomite veins present.
9940'-9945'	Dolomite	Light grey and medium to dark grey dolomite, extremely fine to very fine crystalline, 4% extremely fine anhydrite, 6% dolomite rhombs, trace of tan colored chert, dolomite veins and rare very coarse, rounded quartz grains are present.
9945'-9950'	Dolomite	Light grey and medium to dark grey dolomite, extremely fine to very fine crystalline, 4% extremely fine anhydrite, 6% dolomite rhombs, trace of tan colored chert, trace of bioclastic debris, dolomite veins and rare very coarse, rounded quartz grains are present.

9950'-9955'	Dolomite	Light grey and medium to dark grey dolomite, extremely fine to very fine crystalline, 4% extremely fine anhydrite, 5% dolomite rhombs, trace of anhydrite eyes, dolomite veins and rare very coarse, rounded quartz grains are present.
9955'-9960'	Dolomite	Light grey and medium to dark grey dolomite, extremely fine to very fine crystalline, 4% extremely fine anhydrite, 5% dolomite rhombs, trace of anhydrite eyes, dolomite veins and rare very coarse, rounded quartz grains are present.
9960'-9965'	Dolomite	Light grey and medium to dark grey dolomite, extremely fine to very fine crystalline, 4% extremely fine anhydrite druse, 5% dolomite rhombs, trace of anhydrite eyes, dolomite veins and rare very coarse, rounded quartz grains are present.
9965'-9970'	Dolomite	Light grey and medium to dark grey dolomite, extremely fine to very fine crystalline, 4% extremely fine anhydrite, 5% dolomite rhombs, trace of blue chert, trace of anhydrite eyes, dolomite veins are present.
9970'-9975'	Dolomite	Light grey and medium to dark grey dolomite, extremely fine to very fine crystalline, 4% extremely fine anhydrite, 5% dolomite rhombs, trace of anhydrite eyes, trace of bioclastic debris, dolomite veins are present.
9975'-9980'	Dolomite	Light grey and medium to dark grey dolomite, extremely fine to very fine crystalline, 4% extremely fine anhydrite, 5% dolomite rhombs, trace of anhydrite eyes, dolomite veins are present.

9980'—9985'	Dolomite	Light grey and medium to dark grey dolomite, extremely fine to very fine crystalline, 4% extremely fine anhydrite, 5% dolomite rhombs, 1% brown chert, trace of anhydrite eyes, dolomite veins are present.
9985'—9990'	Dolomite	Light grey and medium to dark grey dolomite, extremely fine to very fine crystalline, 4% extremely fine anhydrite, 5% dolomite rhombs, 1% brown chert, trace of anhydrite eyes, dolomite veins are present. Drusy dolomite.
9990'—9995'	Dolomite	Light grey and medium to dark grey dolomite, extremely fine to very fine crystalline, 4% extremely fine anhydrite, 5% dolomite rhombs, 1% brown chert, trace of anhydrite eyes, dolomite veining present.
9995'-10,000'	Dolomite	Light grey and medium to dark grey dolomite, extremely fine to very fine crystalline, 4% extremely fine anhydrite, 5% dolomite rhombs, 1% brown chert, trace of anhydrite eyes, dolomite veining present.
10,000'-10,005'	Dolomite	Light grey and medium to dark grey dolomite, extremely fine to very fine crystalline, 4% extremely fine anhydrite, 5% dolomite rhombs, 1% brown chert, trace of anhydrite eyes, trace of pyrite, dolomite veining present.
10,005'-10,010'	Dolomite	Light grey and medium to dark grey dolomite, extremely fine to very fine crystalline, 4% extremely fine anhydrite, 5% dolomite rhombs, 1% blue chert, trace of anhydrite eyes, trace of pyrite, dolomite veining present; rare coarse, well rounded spherical and angular quartz grains.

10,010'-10,015'	Dolomite	Light grey and medium to dark grey dolomite, extremely fine to very fine crystalline, 4% extremely fine anhydrite, 5% dolomite rhombs, trace of anhydrite eyes, dolomite veining present; rare coarse, well rounded spherical and angular quartz grains.
10,015'-10,020'	Dolomite	Light grey and medium to dark grey dolomite, extremely fine to very fine crystalline, 4% extremely fine anhydrite, 5% dolomite rhombs, trace of anhydrite eyes, dolomite veining present; rare coarse, well rounded spherical and angular quartz grains.
10,020'-10,025'		No Sample.
10,025'-10,030'	Dolomite	Light grey and medium to dark grey dolomite, extremely fine to very fine crystalline, 4% extremely fine anhydrite, 5% dolomite rhombs, trace of anhydrite eyes, trace of brown chert; drusy dolomite.
10,030'-10,035'	Dolomite	Light grey and medium to dark grey dolomite, extremely fine to very fine crystalline, 4% extremely fine anhydrite, 5% dolomite rhombs, trace of anhydrite eyes, trace of blue chert, dolomite veins present.
10,035'-10,040'	Dolomite	Light grey and medium to dark grey dolomite, extremely fine to very fine crystalline, 4% extremely fine anhydrite, 5% dolomite rhombs, trace of anhydrite eyes, dolomite veins present.
10,040'-10,045'	Dolomite	Light grey and medium to dark grey dolomite, extremely fine to very fine crystalline, 4% extremely fine anhydrite, 5% dolomite rhombs, trace of anhydrite eyes, dolomite veins present.

10,045'-10,050'	Dolomite	Light grey and medium to dark grey dolomite, extremely fine to very fine crystalline, 4% extremely fine anhydrite, 5% dolomite rhombs, trace of anhydrite eyes, dolomite veins present.
10,050'-10,055'	Dolomite	Light grey and medium to dark grey dolomite, extremely fine to very fine crystalline, 4% extremely fine anhydrite, 5% dolomite rhombs, trace of anhydrite eyes, dolomite veins present.
10,055'-10,060'	Dolomite	Light grey and medium to dark grey dolomite, extremely fine to very fine crystalline, 4% extremely fine anhydrite, 5% dolomite rhombs, trace of anhydrite eyes, dolomite veins present.
10,060'-10,065'	Dolomite	Light grey and medium to dark grey dolomite, extremely fine to very fine crystalline, 4% extremely fine anhydrite, 5% dolomite rhombs, trace of anhydrite eyes, dolomite veins present.
10,065'-10,070'	Dolomite	Light grey brown and dark grey dolomite, extremely fine to very fine crystalline, 6% extremely fine anhydrite, 4% dolomite rhombs, trace of anhydrite eyes; dolomite veining.
10,070'-10,075'	Dolomite	Light grey brown and dark grey dolomite, extremely fine to very fine crystalline, 6% extremely fine anhydrite, 4% dolomite rhombs, trace of blue chert, trace of anhydrite eyes; dolomite veining.
10,075'-10,080'	Dolomite	Light grey brown and dark grey dolomite, extremely fine to very fine crystalline, 6% extremely fine anhydrite, 4% dolomite rhombs, trace of anhydrite eyes.

10,080'-10,085'	Dolomite	Light grey brown and dark grey dolomite, extremely fine to very fine crystalline, 6% extremely fine anhydrite, 4% dolomite rhombs, trace of anhydrite eyes; dolomite veining present.
10,085'-10,090'	Dolomite	Light grey brown and dark grey dolomite, extremely fine to very fine crystalline, 6% extremely fine anhydrite, 4% dolomite rhombs, trace of anhydrite eyes; dolomite veining present.
10,090'-10,095'	Dolomite	Light grey brown and dark grey dolomite, extremely fine to very fine crystalline, 6% extremely fine anhydrite, 4% dolomite rhombs, trace of anhydrite eyes; dolomite veining present.
10,095'-10,100'	Dolomite	Light grey brown and dark grey dolomite, extremely fine to very fine crystalline, 6% extremely fine anhydrite, 4% dolomite rhombs, trace of anhydrite eyes; dolomite veining present.
10,100'-10,105'	Dolomite	Light grey brown and dark grey dolomite, extremely fine to very fine crystalline, 6% extremely fine anhydrite, 4% dolomite rhombs, trace of anhydrite eyes; dolomite veining present.
10,105'-10,110'	Dolomite	Dark grey brown to light grey brown dolomite, extremely fine to very fine crystalline, 8% extremely fine anhydrite, 2% dolomite rhombs, trace of anhydrite eyes; dolomite veining present.
10,110'-10,115'	Dolomite	Dark grey brown to light grey brown dolomite, extremely fine to very fine crystalline, 8% extremely fine anhydrite, 2% dolomite rhombs, trace of anhydrite eyes; dolomite veining present.

10,115'-10,120'	Dolomite	Dark grey brown to light grey brown dolomite, extremely fine to very fine crystalline, 8% extremely fine anhydrite, 2% dolomite rhombs, trace of anhydrite eyes; dolomite veining present.
10,120'-10,125'	Dolomite	Dark grey brown to light grey brown dolomite, extremely fine to very fine crystalline, 8% extremely fine anhydrite, 2% dolomite rhombs, trace of anhydrite eyes; dolomite veining present.
10,125'-10,130'	Dolomite	Dark grey brown to light grey brown dolomite, extremely fine to very fine crystalline, 8% extremely fine anhydrite, 2% dolomite rhombs, trace of anhydrite eyes; dolomite veining present.
10,130'-10,135'	Dolomite	Dark grey brown to light grey brown dolomite, extremely fine to very fine crystalline, 8% extremely fine anhydrite, 2% dolomite rhombs, trace of anhydrite eyes; dolomite veining present.
10,135'-10,140'	Dolomite	Dark grey brown to light grey brown dolomite, extremely fine to very fine crystalline, 8% extremely fine anhydrite, 2% dolomite rhombs, trace of anhydrite eyes; dolomite veining present.
10,140'-10,145'	Dolomite	Dark grey brown to light grey brown dolomite, extremely fine to very fine crystalline, 8% extremely fine drusy anhydrite, 2% dolomite rhombs, trace of anhydrite eyes; dolomite veining present.
10,145'-10,150'	Dolomite	Dark grey brown to light grey brown dolomite, extremely fine to very fine crystalline, 8% extremely fine anhydrite, 2% dolomite rhombs, trace of anhydrite eyes; dolomite veining present.

10,150'-10,155'	Dolomite	Dark grey brown to light grey brown dolomite, extremely fine to very fine crystalline, 8% extremely fine anhydrite, 2% dolomite rhombs, trace of anhydrite eyes; dolomite veining present.
10,155'-10,160'	Dolomite	Dark grey brown to light grey brown dolomite, extremely fine to very fine crystalline, 8% extremely fine anhydrite, 2% dolomite rhombs, trace of anhydrite eyes; dolomite veining present.
10,160'-10,165'	Dolomite	Dark grey brown to light grey brown dolomite, extremely fine to very fine crystalline, 8% extremely fine anhydrite, 2% dolomite rhombs, traceof anhydrite eyes; dolomite veining present.
10,165'-10,170'	Dolomite	Dark grey brown to light grey brown dolomite, extremely fine to very fine crystalline, 8% extremely fine anhydrite, 2% dolomite rhombs, trace of anhydrite eyes; dolomite veining present.
10,170'-10,175'	Dolomite	Dark grey brown to light grey brown dolomite, extremely fine to very fine crystalline, 8% extremely fine drusy anhydrite, 2% dolomite rhombs, trace of anhydrite eyes; dolomite veining present.
10,175'-10,180'	Dolomite	Dark grey brown to light grey brown dolomite, extremely fine to very fine crystalline, 8% extremely fine drusy anhydrite, 2% dolomite rhombs, trace of anhydrite eyes; dolomite veining present.
10,180'-10,185'	Dolomite	Dark grey brown to light grey brown dolomite, extremely fine to very fine crystalline, 8% extremely fine drusy anhydrite, 2% dolomite rhombs, trace of anhydrite eyes; dolomite veining present.

10,185'-10,190'	Dolomite	Dark grey brown to light grey brown dolomite, extremely fine to very fine crystalline, 8% extremely fine drusy anhydrite, 2% dolomite rhombs, trace of anhydrite eyes; dolomite veining present.
10,190'-10,195'	Dolomite	Dark grey brown to light grey brown dolomite, extremely fine to very fine crystalline, 8% extremely fine drusy anhydrite, trace of dolomite rhombs and anhydrite eyes; dolomite veining present.
10,195'-10,200'	Dolomite	Dark grey brown to light grey brown dolomite, extremely fine to very fine crystalline, 8% extremely fine drusy anhydrite, trace of dolomite rhombs and anhydrite eyes; dolomite veining present.
10,200'-10,205'	Dolomite	Dark grey brown to light grey brown dolomite, extremely fine to very fine crystalline, 8% extremely fine drusy anhydrite, trace of dolomite rhombs and anhydrite eyes; dolomite veining present.
10,205'-10,210'	Dolomite	Dark grey brown to light grey brown dolomite, extremely fine to very fine crystalline, 8% extremely fine drusy anhydrite, trace of dolomite rhombs and anhydrite eyes; dolomite veining present.
10,210'-10,215'	Dolomite	Dark grey brown to light grey brown dolomite, extremely fine to very fine crystalline, 8% extremely fine drusy anhydrite, trace of dolomite rhombs and anhydrite eyes; dolomite veining present.
10,215'-10,220'	Dolomite	Dark grey brown to light grey brown dolomite, extremely fine to very fine crystalline, 8% extremely fine drusy anhydrite, trace of dolomite rhombs and anhydrite eyes; dolomite veining present.

10,220'-10,225'	Dolomite	Dark grey brown to light grey brown dolomite, extremely fine to very fine crystalline, 8% extremely fine drusy anhydrite, trace of dolomite rhombs and anhydrite eyes; dolomite veining present.
10,225'-10,230'	Dolomite	Dark grey brown to light grey brown dolomite, extremely fine to very fine crystalline, 8% extremely fine drusy anhydrite, trace of dolomite rhombs and anhydrite eyes; dolomite veining present.
10,230'-10,235'	Dolomite	Dark grey brown to light grey brown dolomite, extremely fine to very fine crystalline, 8% extremely fine drusy anhydrite, trace of dolomite rhombs and anhydrite eyes, trace of sulphur; dolomite veining present.
10,235'-10,240'	Dolomite	Dark grey brown to light grey brown dolomite, extremely fine to very fine crystalline, 8% extremely fine drusy anhydrite, trace of tan colored chert, trace of dolomite rhombs and anhydrite eyes; dolomite veining present.
10,240'-10,245'	Dolomite	Dark grey brown to light grey brown dolomite, extremely fine to very fine crystalline, 8% extremely fine drusy anhydrite, trace of dolomite rhombs and anhydrite eyes; dolomite veining present.
10,245'-10,250'	Dolomite	Dark grey brown to light grey brown dolomite, extremely fine to very fine crystalline, 8% extremely fine drusy anhydrite, trace of brown chert, trace of dolomite rhombs and anhydrite eyes; dolomite veining present.
10,250'-10,255'	Dolomite	Dark grey brown to light grey brown dolomite, extremely fine to very fine crystalline, 8% extremely fine drusy anhydrite, trace of dolomite rhombs and anhydrite eyes; dolomite veining present.

10,255'-10,260'	Dolomite	Dark grey brown to light grey brown dolomite, extremely fine to very fine crystalline, 8% extremely fine drusy anhydrite, trace of brown chert, trace of dolomite rhombs and anhydrite eyes; dolomite veining present.
10,260'-10,265'	Dolomite	Dark grey brown to light grey brown dolomite, extremely fine to very fine crystalline, 8% extremely fine drusy anhydrite, trace of tan colored chert, trace of dolomite rhombs and anhydrite eyes; dolomite veining present.
10,265'-10,270'	Dolomite	Dark grey brown to light grey brown dolomite, extremely fine to very fine crystalline, 8% extremely fine drusy anhydrite, trace of tan colored chert, trace of dolomite rhombs and anhydrite eyes; dolomite veining present.
10,270'-10,275'	Dolomite	Dark grey brown to light grey brown dolomite, extremely fine to very fine crystalline, 8% extremely fine anhydrite, trace of tan colored chert, trace of dolomite rhombs and anhydrite eyes; dolomite veining present.
10,275'-10,280'	Dolomite	Dark grey brown to light grey brown dolomite, extremely fine to very fine crystalline, 8% extremely fine anhydrite, trace of dolomite rhombs and anhydrite eyes; dolomite veining present.
10,280'-10,285'	Dolomite	Dark grey brown to light grey brown dolomite, extremely fine to very fine crystalline, 8% extremely fine anhydrite, trace of dolomite rhombs and anhydrite eyes; dolomite veining present.
10,285'-10,290'	Dolomite	Dark grey brown to light grey brown dolomite, extremely fine to very fine crystalline, 8% extremely fine anhydrite, trace of dolomite rhombs and anhydrite eyes; dolomite veining present.

10,290'-10,295'	Dolomite	Dark grey brown to light grey brown dolomite, extremely fine to very fine crystalline, 8% extremely fine anhydrite, trace of dolomite rhombs and anhydrite eyes. Drusy anhydrite and dolomite.
10,295'-10,300'	Dolomite	Dark grey brown to light grey brown dolomite, extremely fine to very fine crystalline, 8% extremely fine anhydrite, trace of dolomite rhombs and anhydrite eyes. Drusy anhydrite and dolomite.
10,300'-10,305'	Dolomite	Dark grey brown to light grey brown dolomite, extremely fine to very fine crystalline, 8% extremely fine anhydrite, trace of dolomite rhombs and anhydrite eyes. Drusy anhydrite and dolomite.
10,305'-10,310'	Dolomite	Dark grey brown to light grey brown dolomite, extremely fine to very fine crystalline, 8% extremely fine anhydrite, trace of dolomite rhombs and anhydrite eyes. Drusy anhydrite and dolomite.
10,310'-10,315'	Dolomite	Dark grey brown to light grey brown dolomite, extremely fine to very fine crystalline, 8% extremely fine anhydrite, trace of dolomite rhombs and anhydrite eyes. Drusy anhydrite and dolomite.
10,315'-10,320'	Dolomite	Dark grey brown to light grey brown dolomite, extremely fine to very fine crystalline, 8% extremely fine anhydrite, trace of dolomite rhombs and anhydrite eyes. Drusy anhydrite and dolomite.
10,320'-10,325'	Dolomite	Dark grey brown to light grey brown dolomite, extremely fine to very fine crystalline, 8% extremely fine anhydrite, trace of dolomite rhombs and anhydrite eyes. Drusy anhydrite and dolomite.

10,325'-10,330'	Dolomite	Dark grey brown to light grey brown dolomite, extremely fine to very fine crystalline, 8% extremely fine anhydrite, trace of dolomite rhombs and anhydrite eyes. Drusy anhydrite and dolomite.
10,330'-10,335'	Dolomite	Dark grey brown to light grey brown dolomite, extremely fine to very fine crystalline, 8% extremely fine anhydrite, trace of tan colored chert, trace of dolomite rhombs and anhydrite eyes. Drusy anhydrite and dolomite.
10,335'-10,340'	Dolomite	Dark grey brown to light grey brown dolomite, extremely fine to very fine crystalline, 8% extremely fine anhydrite, trace of tan colored chert, trace of dolomite rhombs and anhydrite eyes. Drusy anhydrite and dolomite.
10,340'-10,345'	Dolomite	Dark grey brown to light grey brown dolomite, extremely fine to very fine crystalline, 8% extremely fine anhydrite, trace of tan colored chert, trace of dolomite rhombs and anhydrite eyes. Drusy anhydrite and dolomite.
10,345'-10,350'	Dolomite	Dark grey brown to light grey brown dolomite, extremely fine to very fine crystalline, 8% extremely fine anhydrite, trace of tan colored chert, trace of dolomite rhombs and anhydrite eyes. Drusy anhydrite and dolomite.
10,350'-10,355'	Dolomite	Dark grey brown to light grey brown dolomite, extremely fine to very fine crystalline, 8% extremely fine anhydrite, trace of blue chert, trace of dolomite rhombs and anhydrite eyes. Drusy anhydrite and dolomite.
10,355'-10,360'	Dolomite	Dark grey brown to light grey brown dolomite, extremely fine to very fine crystalline, 8% extremely fine anhydrite, trace of brown chert, trace of dolomite rhombs and anhydrite eyes. Drusy anhydrite and dolomite.

10,360'—10,365'	Dolomite	Dark grey brown to light grey brown dolomite, extremely fine to very fine crystalline, 8% extremely fine anhydrite, trace of brown chert, trace of dolomite rhombs and anhydrite eyes. Drusy anhydrite and dolomite.
10,365'—10,370'	Dolomite	Dark grey brown to light grey brown dolomite, extremely fine to very fine crystalline, 8% extremely fine anhydrite, trace of brown chert, trace of dolomite rhombs and anhydrite eyes. Drusy anhydrite and dolomite.
10,370'—10,375'	Dolomite	Dark grey brown to light grey brown dolomite, extremely fine to very fine crystalline, 8% extremely fine anhydrite, trace of brown chert, trace of dolomite rhombs and anhydrite eyes. Drusy anhydrite and dolomite.
10,375'—10,380'	Dolomite	Dark grey brown to light grey brown dolomite, extremely fine to very fine crystalline, 8% extremely fine anhydrite, trace of brown chert, trace of dolomite rhombs and anhydrite eyes. Drusy anhydrite and dolomite.
10,380'—10,385'	Dolomite	Dark grey brown to light grey brown dolomite, extremely fine to very fine crystalline, 8% extremely fine anhydrite, trace of dolomite rhombs and anhydrite eyes. Drusy anhydrite and dolomite.
10,385'—10,390'	Dolomite	Dark grey brown to light grey brown dolomite, extremely fine to very fine crystalline, 8% extremely fine anhydrite, trace of dolomite rhombs and anhydrite eyes. Drusy anhydrite and dolomite.
10,390'—10,395'	Dolomite	Dark grey brown to light grey brown dolomite, extremely fine to very fine crystalline, 8% extremely fine anhydrite, trace of dolomite rhombs and anhydrite eyes. Drusy anhydrite and dolomite.

10,395'-10,400'	Dolomite	Dark grey brown to light grey brown dolomite, extremely fine to very fine crystalline, 8% extremely fine anhydrite, trace of dolomite rhombs and anhydrite eyes. Drusy anhydrite and dolomite.
10,400'-10,405'	Dolomite	Dark grey brown to light grey brown dolomite, extremely fine to very fine crystalline, 8% extremely fine anhydrite, trace of dolomite rhombs and anhydrite eyes. Drusy anhydrite and dolomite.
10,405'-10,410'	Dolomite	Dark grey brown to light grey brown dolomite, extremely fine to very fine crystalline, 8% extremely fine anhydrite, trace of dolomite rhombs and anhydrite eyes. Drusy anhydrite and dolomite.
10,410'-10,415'	Dolomite	Dark grey brown to light grey brown dolomite, extremely fine to fine crystalline, 8% extremely fine anhydrite, trace of blue chert, trace of dolomite rhombs and anhydrite eyes. Drusy anhydrite and dolomite.
10,415'-10,420'	Dolomite	Dark grey brown to light grey brown dolomite, extremely fine to fine crystalline, 8% extremely fine anhydrite, trace of blue chert, trace of dolomite rhombs and anhydrite eyes.
10,420'-10,425'	Dolomite	Dark grey brown to light grey brown dolomite, extremely fine to fine crystalline, 8% extremely fine anhydrite, trace of dolomite rhombs and anhydrite eyes. Drusy anhydrite and dolomite.
10,425'-10,430'	Dolomite	Dark grey brown to light grey brown dolomite, extremely fine to fine crystalline, 8% extremely fine anhydrite, trace of dolomite rhombs and anhydrite eyes.

10,430'-10,435'	Dolomite	Dark grey brown to light grey brown dolomite, extremely fine to fine crystalline, 8% extremely fine anhydrite, trace of dolomite rhombs and anhydrite eyes. Drusy anhydrite and dolomite.
10,435'-10,440'	Dolomite	Dark grey brown to light grey brown dolomite, extremely fine to fine crystalline, 8% extremely fine anhydrite, trace of dolomite rhombs and anhydrite eyes. Drusy anhydrite and dolomite.
10,440'-10,445'	Dolomite	Dark grey brown to light grey brown dolomite, extremely fine to fine crystalline, 8% extremely fine anhydrite, trace of blue chert, trace of dolomite rhombs and anhydrite eyes. Drusy anhydrite and dolomite.
10,445'-10,450'	Dolomite	Dark grey brown to light grey brown dolomite, extremely fine to fine crystalline, 8% extremely fine anhydrite, trace of dolomite rhombs and anhydrite eyes. Drusy anhydrite and dolomite.
10,450'-10,455'	Dolomite	Dark grey brown to light grey brown dolomite, extremely fine to fine crystalline, 8% extremely fine anhydrite, trace of dolomite rhombs and anhydrite eyes. Drusy anhydrite and dolomite.
10,455'-10,460'	Dolomite	Dark grey brown to light grey brown dolomite, extremely fine to fine crystalline, 8% extremely fine anhydrite, trace of dolomite rhombs and anhydrite eyes. Drusy anhydrite and dolomite.
10,460'-10,465'	Dolomite	Dark grey brown to light grey brown dolomite, extremely fine to fine crystalline, 8% extremely fine anhydrite, trace of dark grey chert, trace of dolomite rhombs and anhydrite eyes. Drusy anhydrite and dolomite.

10,465'-10,470'	Dolomite	Dark grey brown to light grey brown dolomite, extremely fine to very fine crystalline, 8% extremely fine anhydrite, trace of dolomite rhombs and anhydrite eyes. Drusy anhydrite and dolomite.
10,470'-10,475'	Dolomite	Dark grey brown to light grey brown dolomite, extremely fine to very fine crystalline, 8% extremely fine anhydrite, trace of tan colored chert, trace of dolomite rhombs and anhydrite eyes. Drusy anhydrite and dolomite.
10,475'-10,480'	Dolomite	Dark grey brown to light grey brown dolomite, extremely fine to very fine crystalline, 8% extremely fine anhydrite, trace of dolomite rhombs and anhydrite eyes. Drusy anhydrite and dolomite.
10,480'-10,485'	Dolomite	Dark grey brown to light grey brown dolomite, extremely fine to very fine crystalline, 8% extremely fine anhydrite, trace of dolomite rhombs and anhydrite eyes. Drusy anhydrite and dolomite.
10,485'-10,490'	Dolomite	Dark grey brown to light grey brown dolomite, extremely fine to very fine crystalline, 8% extremely fine anhydrite, trace of dolomite rhombs and anhydrite eyes. Drusy anhydrite and dolomite.
10,490'-10,495'	Dolomite	Dark grey brown to light grey brown dolomite, extremely fine to very fine crystalline, 8% extremely fine anhydrite, trace of blue chert, trace of dolomite rhombs and anhydrite eyes. Drusy anhydrite and dolomite.
10,495'-10,500'	Dolomite	Dark grey brown to light grey brown dolomite, extremely fine to very fine crystalline, 8% extremely fine anhydrite, trace of dolomite rhombs and anhydrite eyes. Drusy anhydrite and dolomite.

10,300'-10,505'	Dolomite	Dark grey brown to light grey brown dolomite, extremely fine to very fine crystalline, 8% extremely fine anhydrite, trace of tan colored chert, trace of dolomite rhombs and anhydrite eyes. Drusy anhydrite and dolomite.
10,505'-10,510'	Dolomite	Dark grey brown to light grey brown dolomite, extremely fine to fine crystalline, 8% extremely fine anhydrite, trace of brown chert, trace of dolomite rhombs and anhydrite eyes. Drusy anhydrite and dolomite.
10,510'-10,515'	Dolomite	Dark grey brown to light grey brown dolomite, extremely fine to fine crystalline, 8% extremely fine anhydrite, trace of brown and blue chert. drusy anhydrite and dolomite.
10,515'-10,520'	Dolomite	Dark grey brown to light grey brown dolomite, extremely fine to fine crystalline, 8% extremely fine anhydrite, trace of brown and blue chert, trace of pyrite. Drusy anhydrite and dolomite.
10,520'-10,525'	Dolomite	Dark grey brown to light grey brown dolomite, extremely fine to fine crystalline, 8% extremely fine anhydrite, trace of brown and blue chert. Drusy anhydrite and dolomite.
10,525'-10,530'	Dolomite	Dark grey brown to light grey brown dolomite, extremely fine to fine crystalline, 8% extremely fine anhydrite, trace of brown and blue chert. Drusy anhydrite and dolomite.
10,530'-10,535'	Dolomite	Dark grey brown to light grey brown dolomite, extremely fine to fine crystalline, 8% extremely fine anhydrite, trace of brown and blue chert. Drusy anhydrite and dolomite.

10,535'-10,540'	Dolomite	Dark grey to light grey dolomite, extremely fine to very fine crystalline, 5% extremely fine anhydrite, trace of anhydrite eyes and dolomite rhombs. Drusy anhydrite and dolomite.
10,540'-10,545'	Dolomite	Dark grey to light grey dolomite, extremely fine to very fine crystalline, 5% extremely fine anhydrite, trace of anhydrite eyes and dolomite rhombs. Drusy anhydrite and dolomite.
10,545'-10,550'	Dolomite	Dark grey to light grey dolomite, extremely fine to very fine crystalline, 5% extremely fine anhydrite, trace of anhydrite eyes and dolomite rhombs. Drusy anhydrite and dolomite.
10,550'-10,555'	Dolomite	Dark grey to light grey dolomite, extremely fine to very fine crystalline, 5% extremely fine anhydrite, trace of anhydrite eyes and dolomite rhombs. Drusy anhydrite and dolomite.
10,555'-10,560'	Dolomite	Dark grey to light grey dolomite, extremely fine to very fine crystalline, 5% extremely fine anhydrite, trace of blue chert, trace of anhydrite eyes and dolomite rhombs. Drusy anhydrite and dolomite.
10,560'-10,565'	Dolomite	Dark grey to light grey dolomite, extremely fine to very fine crystalline, 5% extremely fine anhydrite, trace of anhydrite eyes and dolomite rhombs. Drusy anhydrite and dolomite.
10,565'-10,570'	Dolomite	Dark grey to light grey dolomite, extremely fine to very fine crystalline, 5% extremely fine anhydrite, trace of anhydrite eyes and dolomite rhombs. Drusy anhydrite and dolomite.

10,570'-10,575'	Dolomite	Dark grey to light grey dolomite, extremely fine to very fine crystalline, trace of blue chert, 5% extremely fine anhydrite, trace of anhydrite eyes and dolomite rhombs. Drusy anhydrite and dolomite.
10,575'-10,580'	Dolomite	Dark grey to light grey dolomite, extremely fine to very fine crystalline, 5% extremely fine anhydrite, trace of blue chert, trace of anhydrite eyes and dolomite rhombs, drusy anhydrite and dolomite.
10,580'-10,585'	Dolomite	Dark grey to light grey dolomite, extremely fine to fine crystalline, 5% extremely fine anhydrite, trace of blue chert, trace of anhydrite eyes and dolomite rhombs. Drusy anhydrite and dolomite.
10,585'-10,590'	Dolomite	Dark grey to light grey dolomite, extremely fine to fine crystalline, 5% extremely fine anhydrite, trace of anhydrite eyes and dolomite rhombs. Drusy anhydrite and dolomite.
10,590'-10,595'	Dolomite	Dark grey to light grey dolomite, extremely fine to fine crystalline, 5% extremely fine anhydrite, trace of anhydrite eyes and dolomite rhombs. Drusy anhydrite and dolomite.
10,595'-10,600'	Dolomite	Dark grey to light grey dolomite, extremely fine to fine crystalline, 5% extremely fine anhydrite, trace of blue chert, trace of anhydrite eyes and dolomite rhombs. Drusy anhydrite and dolomite.
10,600'-10,605'	Dolomite	Dark grey to light grey dolomite, extremely fine to fine crystalline, 5% extremely fine anhydrite, trace of blue and brown chert, trace of anhydrite eyes and dolomite rhombs. Drusy anhydrite and dolomite.

10,605'-10,610'	Dolomite	Dark grey to light grey dolomite, extremely fine to fine crystalline. 5% extremely fine anhydrite, trace of anhydrite eyes and dolomite rhombs. Drusy anhydrite and dolomite.
10,610'-10,615'	Dolomite	Dark grey to light grey dolomite, extremely fine to fine crystalline. 5% extremely fine anhydrite, trace of anhydrite eyes and dolomite rhombs. Drusy anhydrite and dolomite.
10,615'-10,620'	Dolomite	Dark grey to light grey dolomite, extremely fine to fine crystalline. 5% extremely fine anhydrite, trace of blue chert, trace of anhydrite eyes and dolomite rhombs. Drusy anhydrite and dolomite.
10,620'-10,625'	Dolomite	Dark grey to light grey dolomite, extremely fine to fine crystalline. 5% extremely fine anhydrite, trace of tan colored chert, trace of anhydrite eyes and dolomite rhombs. Drusy anhydrite and dolomite.
10,625'-10,630'	Dolomite	Dark grey to light grey dolomite, extremely fine to fine crystalline. 5% extremely fine anhydrite, trace of anhydrite eyes and dolomite rhombs. Drusy anhydrite and dolomite.
10,630'-10,650'	Dolomite	Light and medium grey dolomite, extremely fine crystalline, very poor samples, abundant lost circulation material.
10,650'-10,780'	Dolomite	Light and medium grey dolomite, microcrystalline and extremely fine crystalline, fracturing is indicated by sparry dolomite.
10,780'-10,800'		Samples are missing.
10,800'-10,850'	Dolomite	Medium grey with dark grey streaks, extremely fine with very fine crystalline streaks, white dolomite veinlets.

10,850'-10,900'	Dolomite	Medium grey with dark grey streaks, very fine crystalline, occasional chips show trace of coarse bioclastic debris; fractured.
10,900'-11,000'	Dolomite	Dark grey with medium grey streaks, very fine crystalline with fine crystalline streaks, fractured, white coarse secondary dolomite and trace secondary coarse quartz crystals. Streaks show trace of coarse bioclastic debris.
11,000'-11,100'	Dolomite	Dark grey with medium grey streaks, very fine crystalline and fine crystalline streaks, fractured. Streaks show trace of bioclastic debris.
11,100'-11,200'	Dolomite	Dark grey with medium grey streaks, very fine crystalline, fractured, streaks show trace of coarse bioclastic debris.
11,200'-11,245'	Dolomite	Dark grey with medium grey streaks, very fine crystalline with extremely fine crystalline streaks, fractured, streaks show trace of coarse bioclastic debris.
11,245'-11,250'		Sample is missing.
11,250'-11,260'	Dolomite	Dark grey with medium grey streaks, very fine crystalline with extremely fine crystalline streaks, fractured, streaks show trace of coarse bioclastic debris.
11,260'-11,318'		No Samples.
T. D. 11,318'		

Section III - Engineering Summary

Drill Stem Tests:

Test No.	Interval	T.O.	Flow Rate & Recovery	IFP	FFP	ISIP/Time	FSIP/Time
1	2759-2802	60	21.8 Bbls. W. Mud	524	739	1027/15	975/60
2A	9338-9538	7	Misrun - Packers Did Not Hold				
2B	9343-9538	90	58.9 Bbls. Fresh W.	1247	2026	3599/14	3771/84
3A	10378-10509	--	Misrun - Packers Did Not Hold				
3B	10402-10493	--	Misrun - Bypass Plugged, Top Packer Did Not Hold				
3C	10373-10529	9	3.2 Bbls. W.C. Mud Partial Misrun	709	710	1590/15	-
4A	10475-10585	--	Misrun - Plug Did Not Hold				
4B	10454-10567	60	W.C. + 18' Muddy Water	854	854	2021/15	3613/60

Casing Record

Casing Size	Weight	Grade	Depth	Cement
20"	Conductor Pipe		40'	50 sacks Portland
13-3/8"	54#	J-55	717' K.B.	700 sacks Portland + 2% $CaCl_2$
9-5/8"	40#	N-80	7005' K.B.)	(535 sacks Portland
9-5/8"	36#	J-55	3881' K.B.)	(+ 0.2% HR4

Bit Record

No.	Size	Type	Depth Out	Feet	Hours Run
1A	12-1/4	S3P	316	316	14-1/2
2A	12-1/4	S3	691	375	12-1/4
3A	17-1/2	OSC3	647	647 (Reamer)	31-1/4
4A	17-1/2	S3	719	72 (Reamer)	2
(Rerun 2A)	17-1/2	S3	647-672	25 (Reamer)	2-1/2
6	12-1/4	S3	1129	438	13-3/4
7	12-1/4	S3	1492	363	21-3/4
(Rerun 7)8	12-1/4	S3	1687	195	13-1/4
9	12-1/4	YT3	1968	281	33
10	12-1/4	S3	2065	97	11-3/4
11	12-1/4	YT3	2214	149	21-3/4

No.	Size	Type	Depth Out	Feet	Hours Run
13	12-1/4	S6	2399	185	18-1/2
14	12-1/4	M4N	2535	136	28
15	12-1/4	M4N	2690	155	25
16	12-1/4	M4N	2778	88	12-1/2
17	12-1/4	M4N			
(Rerun 17) 18	12-1/4	M4N	2987	209	29
19	12-1/4	M4N	3146	159	31-3/4
20	12-1/4	M4N	3325	179	29
21	12-1/4	M4N	3478	153	25-3/4
22	12-1/4	M4N	3574	96	22
23	12-1/4	M4N	3694	120	31-1/2
24	12-1/4	M4N	3727	33	10
25	12-1/4	M4N	3832	105	10
26	12-1/4	S6	4065	233	19-3/4
27	12-1/4	S3	4260	195	17
28	12-1/4	S6	4551	291	20-3/4
29	12-1/4	YTL	4776	225	18-3/4
30	12-1/4	YTL	4843	67	9
31	12-1/4	H7	4958	115	18-3/4
32	12-1/4	H7	5081	123	20
33	12-1/4	M4N	5188	107	12-1/2
34	12-1/4	M4N	5490	302	26-1/4
35	12-1/4	M4N	5611	121	10-3/4
36	12-1/4	M4N	5721	110	15-1/2
37	12-1/4	M4N	5921	200	26-1/4
38	12-1/4	M4N	6088	167	31-3/4
39	12-1/4	M4N	6304	216	28-3/4
40	12-1/4	M4N	6475	171	29-1/2
41	12-1/4	M4N	6648	173	28
42	12-1/4	M4N	6758	110	16
43	12-1/4	M4N	6879	121	20
44	12-1/4	M4L	7004	126	22-1/4
45	8-3/4	M4N	7204	200	14

No.	Size	Type	Depth Out	Foot	Hours Run
[redacted]	8-3/4	H8J	7732	528	33-3/4
47	8-3/4	H8J	8250	518	31-3/4
48	8-3/4	HW	8740	490	27-3/4
49	8-3/4	H8J	9218	478	27-1/2
50	8-3/4	YC4G	9440	222	-
51	8-3/4	H8Y	9538	98	6-1/2
52	8-3/4	YHWG	9605	67	5
53	8-3/4	H8-J	10,025	420	28
54	8-3/4	H8-J	10,465	440	27-1/4
55	8-3/4	H8-J	10,630	165	11-3/4
56	8-3/4	H8-J	Not Drilled	-	-
57	8-3/4	YHWG	Not Drilled	-	-
58	8-3/4	HJ8	10,791	161	13
59	8-3/4	CHGR	11,042	251	20-1/2
(Rerun 58) 58A	8-3/4	HJ8	11,257	215	18-1/2
60	8-3/4	HJ8	11,288	31	3
[redacted]	8-3/4	YC4G	11,318	30	2-3/4

(D) Mud Report

Gel	Caustic Soda	Lignite	Peltex	Bicarb	Diesel
321,400 Pounds	11,975 Pounds	8,900 Pounds	16,200 pounds	200 pounds	55 barrels

Quickvis	Sawdust	Walnut Hulls	Mica	Falco Seal	Wood Flux	Cement
33 gallons	20 sacks	1000 sacks	170 sacks	897 sacks	25 sacks	315 sacks

Deviation Record

Depth	Deviation	Depth	Deviation	Depth	Deviation
100'	1/2°	2112'	2-1/4°	4550'	2-1/2°
161'	1/2°	2204'	3°	4835'	2-3/4°
255'	3/4°	2246'	3°	4950'	3-1/2°
316'	1/2°	2338'	2-1/4°	5180'	2°
411'	1/4°	2431'	2-3/4°	5400'	3-1/8°
536'	1/2°	2520'	2-1/4°	5600'	4-3/4°
630'	1/2°	2578'	1-3/4°	5720'	3°
719'	1/4°	2650'	2°	5900'	2-1/2°
1150'	1°	2741'	2°	6100'	2-1/2°
1530'	1-1/4°	2956'	2°	6445'	2°
1620'	2-1/8°	3038'	3°	7004'	2-1/2°
1710'	3°	3233'	3°	7204'	4°
1760'	3-1/2°	3315'	2-1/2°	8250'	7°
1810'	3°	3440'	2-1/4°	8700'	9°
1835'	2-1/2°	3574'	2-1/4°	9200'	11°
1870'	2°	3695'	2-1/2°	9605'	17°
1903'	2°	3900'	3-1/4°	9960'	16°
1960'	1-3/4°	4060'	2-3/4°	10400'	19-1/2°
2020'	2-3/4°	4250'	3°		

Abandonment Plugs

Plug #1 10585' with 115 sacks Portland - Felt plug @ 10600' (D.S.T. Plug)

Plug #2 10585'-10250' with 160 sacks Portland + 0.2% HR4

Plug #3 7050'-6950' with 50 sacks Portland - Felt @ 6946'

Plug #4 930'-660' with 200 sacks Portland - Felt @ 645'

Ran 10 sacks Portland (Neat) in surface casing

Ran 5 sacks Portland (Neat) in rat hole

Ran 5 sacks Portland (Neat) in Mouse Hole

Lost Circulation Zone

Formation	Depth Interval	Amount of Material Lost	Corrective Measures Taken
Ireton	2770'	100-150 Bbls. Drilling mud	Conditioned gel and mud.
Bear Rock	6245'	100 Bbls. Drilling mud	Proceed with coarse Walnut Hulls and Mica
Bear Rock	6575'	30-40 Bbls. Drilling mud	Continued drilling and mudding up
Bear Rock	9440'	Lost mud @ 10 Bbls/hr	Continued Drilling and mudding up
Bear Rock	10641'	1500 Bbls. Drilling mud	Plugged with 35 sacks coarse walnut
Bear Rock	10791'	Loss of mud not determined	Plugged with gel Desel plug
Bear Rock Bear Rock	11258' 11288'	Loss of mud not determined	Plugged with coarse walnut Halls, Mica, Palco Seal and Gel Desel Plugs
Bear Rock	11318'	Loss of mud not determined	Gel and Quickuis

Report of Blowouts

None

Section IV - Log Summary

Type	Interval
IES	7000' - 717'
SGR	7000' - 717'
MLC	7000' - 717'
IES	11312' - 7004'
SGR	11306' - 7004'
MLC	11313' - 7004'
CDM	11310' - 7004'
SRS	11290' - 2400'

Section V - Analyses

Core Analysis

None

Water Analysis

Lab. No.	Sample	Source
160	Drilling Fluid Prior to DST # 2A & B	Bear Rock
161	9343' - 9538'	DST 2B
160A	Drilling Fluid Prior to DST # 2A & B	Flowline

105	2759 - 2802	DST #1
106	2759 - 2802	DST #1
184	10373 - 10529	DST #3C
185	10454 - 10590	DST #4B
186	10454 - 10590	DST #4B

T.G. EASTLAND — testers ltd.

R.R. [illegible] & NORTH • EDMONTON, ALBERTA

SERVICE REPORT

TEST No. One
Date March 27/65
Ticket No. 7091

Well Name: SHELL CLOVERLEAF 1-16 L.S.D. 12-52-39.00 W. L.
Formation Tested:
TYPE OF TEST: ☐ Standard ☒ Duals ☐ Straddle ☐ Casing
From: 2759' To: 2802' Tail Pipe: 43'
Main Hole Depth: 2802' Rat Hole Depth:
Hole Size Tested: 12¼" Main Hole Rat Hole
Casing Depth: Size: Weight:
Type of Drill Pipe: 3½" IF Tubing:
Type of Packer(s):
Size of Rubber Element(s): 11¼"
REMARKS: Good initial puff. Good air blow decreasing to weak at end of test.

PRESENT DURING TEST

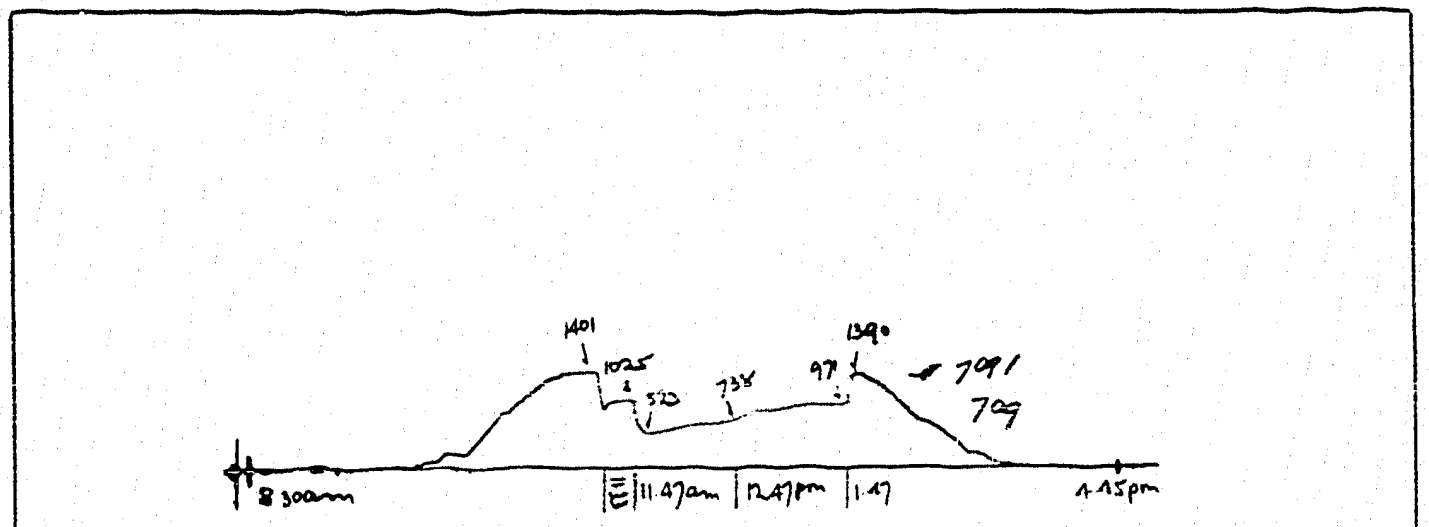
Your Representative E. M. Nedham
Our Operator Harold Buchan
Toolpusher R. Schaffrick
Drlg. Contractor Regent Rig #21

TEST RESULT DATA

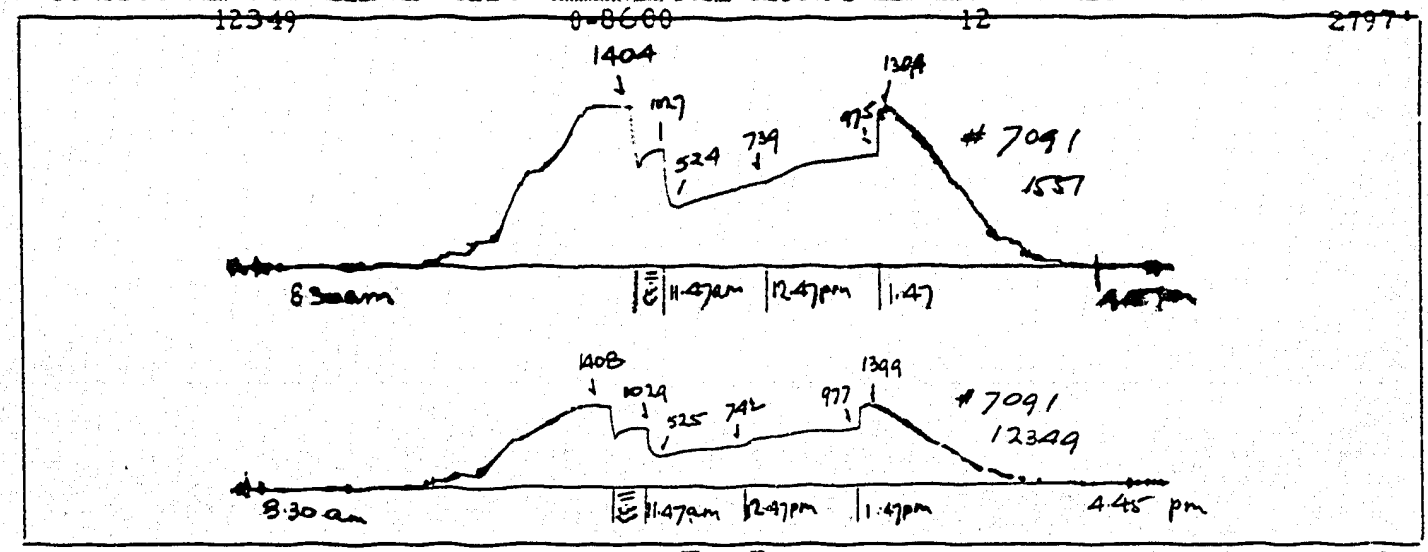
Started in Hole: 9:30 am Tool Opened: 11:47 am
Initial Shut-in: 15 Min. Flow Period: 60 Min
Final Shut-in: 60 Min. Out of Hole: 4:45 pm
Choke Bottom: ½"
Choke Surface: ¾"
Flow Rate Mcf/day Flare Line Riser: 2"
Mcf/day measured by:
Fluid Cushion: Max. Well Temp.: 86 °F
DRLG. FLUID: Viscosity: 85 Weight: 9.9 W.L. 7.0

FIELD (est.)		CORRECTED
1410	Initial Hydrostatic Pressure psig	1404
1072	Shut-In Press. #1 After 15 Min. psig	1027
536	Initial Flowing Pressure psig	524
804	Max. Flowing Pressure psig	739
995	Shut-In Press. #2 After 60 Min. psig	975

FLUID RECOVERY: 1320 ft salty watery drilling mud.



RECORDER No. 709 ELEMENT RANGE: 0-7000 P.S.I. CLOCK SPEED: 12 HRS. RECORDER DEPTH: 2785'
RECORDER No. 1551 ELEMENT RANGE: 0-4200 P.S.I. CLOCK SPEED: 12 HRS. RECORDER DEPTH: 2791'
~~12349~~ ~~0-8600~~ ~~12~~ ~~2797'~~



Form No T 20

T. C. EASTLAND TESTERS LTD.

DRILL STEM TEST PRESSURE BUILD-UP REPORT

Well Name: Shell Cloverleaf 1-46 124 52' 39.00" W.L.

Date: March 27, 1965 DST #1 Ticket No. 7091 B.H. Temp. 86°F

Gauge No. 1551 Depth of Gauge: 2791' KB Equation P_c = 2105.67 + 6.02

Interval: 2759' to 2802' KB

	Time	T mins.	Pressure psig
Initial Hydrostatic ----------			1404
Initial Shut-in	11:33am	0	861
	11:36	3	965
	11:39	6	996
	11:42	9	1013
	11:45	12	1023
	11:47	14	1027
Flowing Pressures ----------			524
			739
Final Shut-in	12:47pm	0	739
	12:50	3	768
	12:53	6	789
	12:56	9	806
	12:59	12	823
	1:02	15	842
	1:05	18	861
	1:08	21	874
	1:11	24	886
	1:14	27	899
	1:17	30	911
	1:20	33	920
	1:23	36	928
	1:26	39	935
	1:29	42	941
	1:32	45	947
	1:35	48	954
	1:38	51	960
	1:41	54	964
	1:44	57	968
	1:47	60	970
	1:50	63	973
	1:53	66	975
Final Hydrostatic ----------			1394

T.G. EASTLAND —— testers ltd.

S.E. No. 6 NORTH • EDMONTON, ALBERTA

TEST No. Two
Date May 30/65
Ticket No. 7276

SERVICE REPORT

Well Name: SHELL CLOVERLEAF 1-46 L.S.D. 12 52' 39.00" W
Formation Tested: -
TYPE OF TEST: ☐ Standard ☒ Duals ☐ Straddle ☐ Casing
From: 9338' To: 9538' Tail Pipe:
Main Hole Depth: 9538' Rat Hole Depth:
Hole Size Tested: 8¾" Main Hole Rat Hole
Casing Depth: 7004' Size: 9 5/8" Weight:
Type of Drill Pipe: 5"XH Tubing:
Type of Packer(s): Wildcat
Size of Rubber Element(s): 7¼"
REMARKS: No initial puff. Packer held for 7 minutes. Good air blow after 7 minutes. Water dropped in hole during test, before and after. Mis-run.

PRESENT DURING TEST

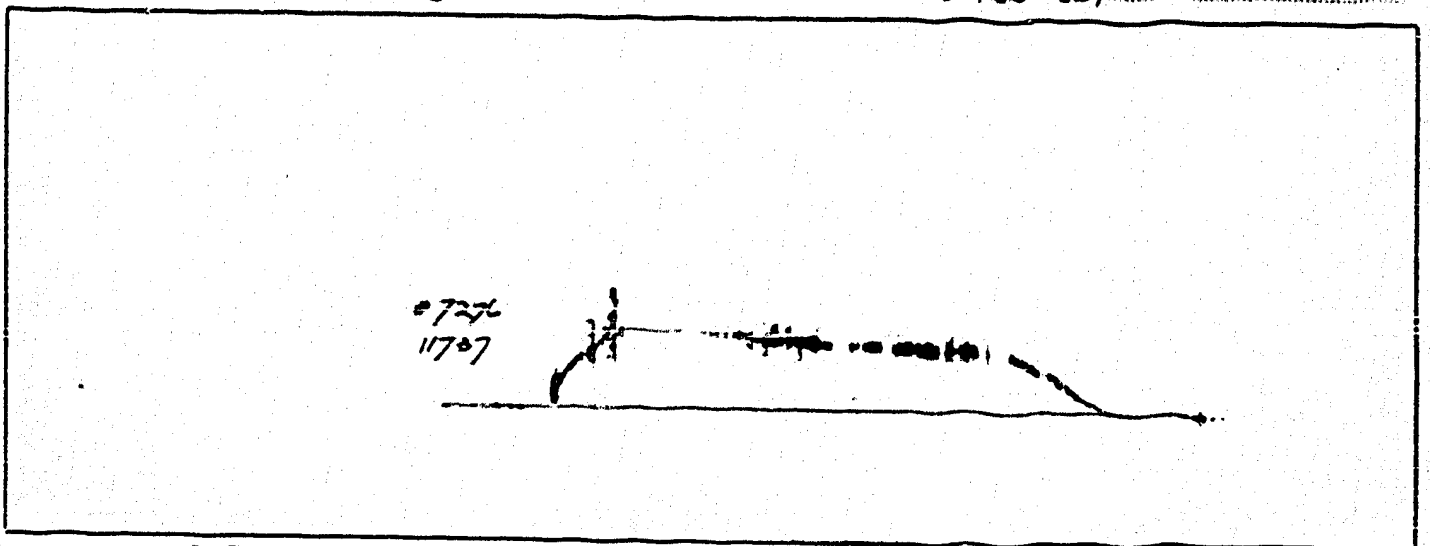
Your Representative E. Ettinger
Our Operator H. Buchan
Toolpusher R. Hansen
Drlg. Contractor Regent Rig #6

TEST RESULT DATA

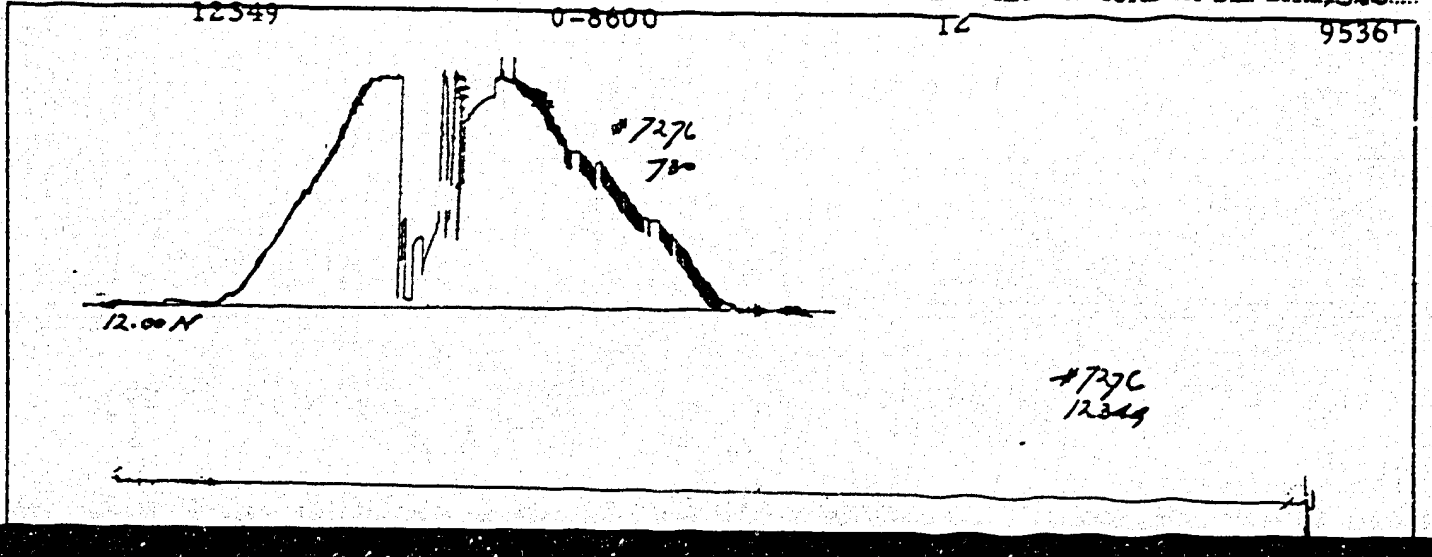
Started in Hole: Noon Tool Opened: 4:45 pm
Initial Shut-in: Min. Flow Period: Min
Final Shut-in: Min. Out of Hole: 11:30 pm
Choke Bottom:
Choke Surface:
Flow Rate Mcf/day Flare Line Riser: 2"
Mcf/day measured by:
Fluid Cushion: Max. Well Temp.: 218 °F
DRLG. FLUID: Viscosity Water Weight: 8.3 W.L.

FIELD (est.)	CORRECTED
Initial Hydrostatic Pressure psig	
Shut-In Press. #1 After Min. psig	
Initial Flowing Pressure psig	
Max. Flowing Pressure psig	
Shut-In Press. #2 After Min. psig	

FLUID RECOVERY: 3330 ft fresh water
(Ran 10 drill collars above tool, 6½" OD, 2 - 15/16" ID)



RECORDER No. 11737 ELEMENT RANGE: 0-7000 P.S.I. CLOCK SPEED: 12 HRS. RECORDER DEPTH: Above tool
RECORDER No. 730 ELEMENT RANGE: 0-8600 P.S.I. CLOCK SPEED: 12 HRS. RECORDER DEPTH: 9346'



J.G. EASTLAND — testers ltd.

N.E. 118 & NORTH • EDMONTON, ALBERTA

TEST No. Two (2)
Date May 31/65
Ticket No. 7277

SERVICE REPORT

Well Name: SHELL CLOVERLEAF 1-10 L.S.D. 12 52' 39.00" V
Formation Tested: -
TYPE OF TEST: ☐ Standard ☒ Dual ☐ Straddle ☐ Casing
From: 9343' To: 9538' Tail Pipe: 195'
Main Hole Depth: 9538' Rat Hole Depth:
Hole Size Tested: 8¼" Main Hole Rat Hole
Casing Depth: Size: Weight:
Type of Drill Pipe: 5"XH Tubing:
Type of Packer(s): Waldcat
Size of Rubber Element(s): 7½"
REMARKS: No initial puff. Weak air blow for 33 minutes, increasing to strong by end of test. Water dropped in hole throughout test, before and after.

PRESENT DURING TEST

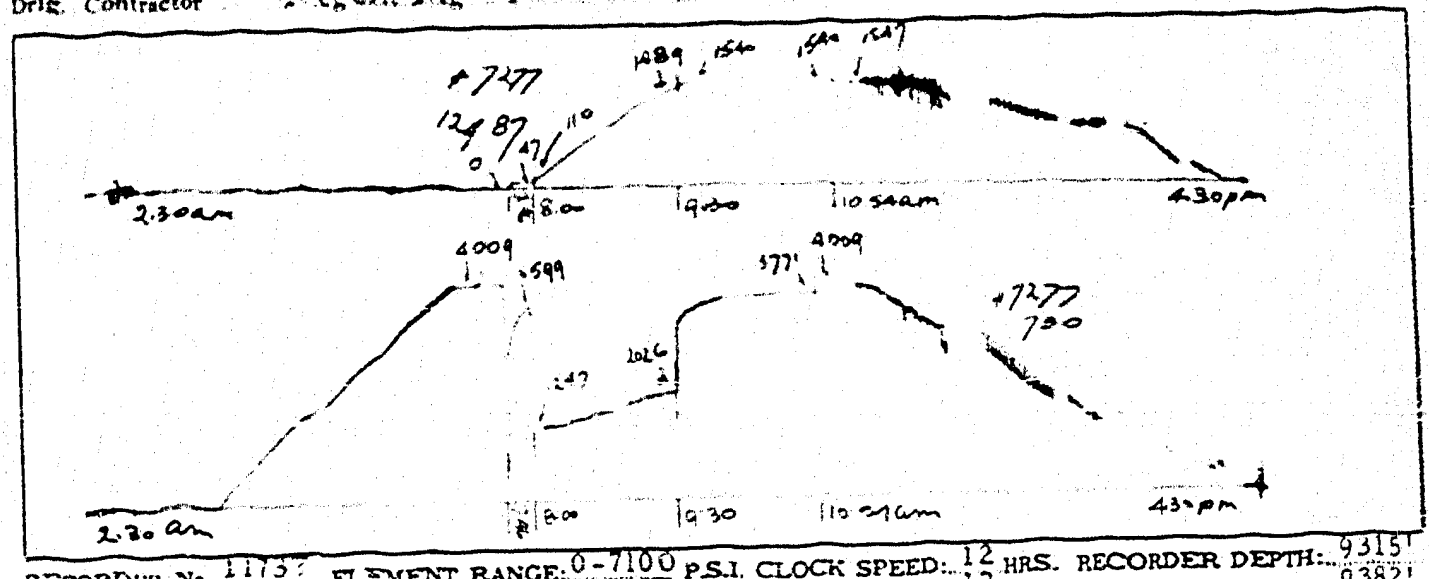
Your Representative E. Ettinger
Our Operator H. Buchan
Toolpusher R. Hansen
Drlg. Contractor Regent Rig #6

TEST RESULT DATA

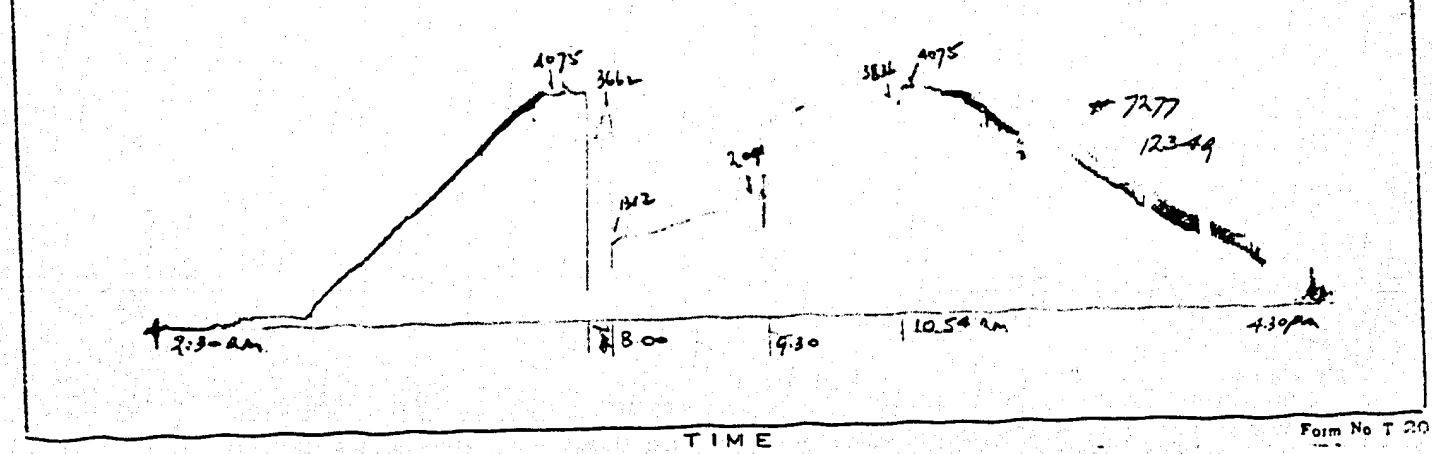
Started in Hole: 2:30 pm. Tool Opened: 8:00 pm.
Initial Shut-in: 14 Min. Flow Period: 90 Min.
Final Shut-in: 84 Min. Out of Hole: 4:30 a.m.
Choke Bottom: 1"
Choke Surface: ¼"
Flow Rate Mcf/day Flare Line Riser: 2"
Mcf/day measured by:
Fluid Cushion: Max. Well Temp: 218 °F
DRLG. FLUID: Viscosity: H₂O Weight: 8.3 W.L.

FIELD (est.)		CORRECTED
4125	Initial Hydrostatic Pressure psig	4009
3650	Shut-In Press. #1 After 14 Min. psig	3599
825	Initial Flowing Pressure psig	1247
1925	Max. Flowing Pressure psig	2026
3850	Shut-In Press. #2 After 84 Min. psig	3771

FLUID RECOVERY: 3510 ft fresh water
(Ran 10 drill collars above tool, 6½" OD, 2-7/8" ID)



RECORDER No. 11737 ELEMENT RANGE: 0-7100 P.S.I. CLOCK SPEED: 12 HRS. RECORDER DEPTH: 9315'
RECORDER No. 730 ELEMENT RANGE: 0-8600 P.S.I. CLOCK SPEED: 12 HRS. RECORDER DEPTH: 9382'
~~12372~~ 0-8600 12 ~~9536'~~



Form No T 20

T. G. EASTLAND TESTERS LTD.

DRILL STEM TEST PRESSURE BUILD-UP REPORT

Well Name: SHELL CLOVERLEAF I-46 124 52' 39.00" W

DST #2(b) Ticket No. 7277 Interval: 9343' to 9538' KB

Gauge No. 730 Depth of Gauge: 9382' KB B.H. Temperature: 218°F

Calibration Equation $P_c = 4405.77 + 39.11$

	Time	T	Pressure psig
Initial Hydrostatic			4009
Initial Shut-in	7:46 am	0	823
	7:49	3	3106
	7:52	6	3317
	7:55	9	3449
	7:58	12	3546
	8:00	14	3599
Flowing Pressures			1247
			2026
Final Shut-in	9:30 am	0	2026
	9:33	3	3365
	9:36	6	3445
	9:39	9	3502
	9:42	12	3551
	9:45	15	3590
	9:48	18	3617
	9:51	21	3643
	9:54	24	3661
	9:57	27	3678
	10:00	30	3696
	10:03	33	3714
	10:06	36	3722
	10:09	39	3731
	10:12	42	3740
	10:15	45	3744
	10:18	48	3749
	10:21	51	3753
	10:24	54	3758
	10:27	57	3762
	10:30	60	3762
	10:33	63	3766
	10:36	66	3766
	10:39	69	3766
	10:42	72	3766
	10:45 am	75	3771
	10:48	78	3771
	10:51	81	3771
	10:54	84	3771
Final Hydrostatic			4009

The EASTLAND Testers Ltd.

AUG 21 1965

N.W. No. 6 NORTH • EDMONTON, ALBERTA

TEST No. Three (a)
Date June 25/65
Ticket No. 7278

SERVICE REPORT

Well Name: SHELL CLOVERLEAF 1-46 LSD. 1-46

Formation Tested:

TYPE OF TEST: ☐ Standard ☒ Duals ☐ Straddle ☐ Casing

From: 10509' To: 10378' Tail Pipe: 131'

Main Hole Depth: 11318' Rat Hole Depth:

Hole Size Tested: 8¼" Main Hole Rat Hole

Casing Depth: 7004' Size: 9 5/8" Weight:

Type of Drill Pipe: 5"XH Tubing:

Type of Packer(s): Wildcat

Size of Rubber Element(s): 7¼"

REMARKS: Cement plug would not hold.
Skidded 30 feet. Mis-run.

PRESENT DURING TEST

Your Representative E. Ettinger

Our Operator H. Euchan

Toolpusher Hansen

Drlg. Contractor Regent Rig #6

TEST RESULT DATA

Started in Hole: 9:00 am Tool Opened:

Initial Shut-in: Min. Flow Period: Min.

Final Shut-in: Min. Out of Hole:

Choke Bottom:

Choke Surface:

Flow Rate Mcf / day Flare Line Riser: 2"

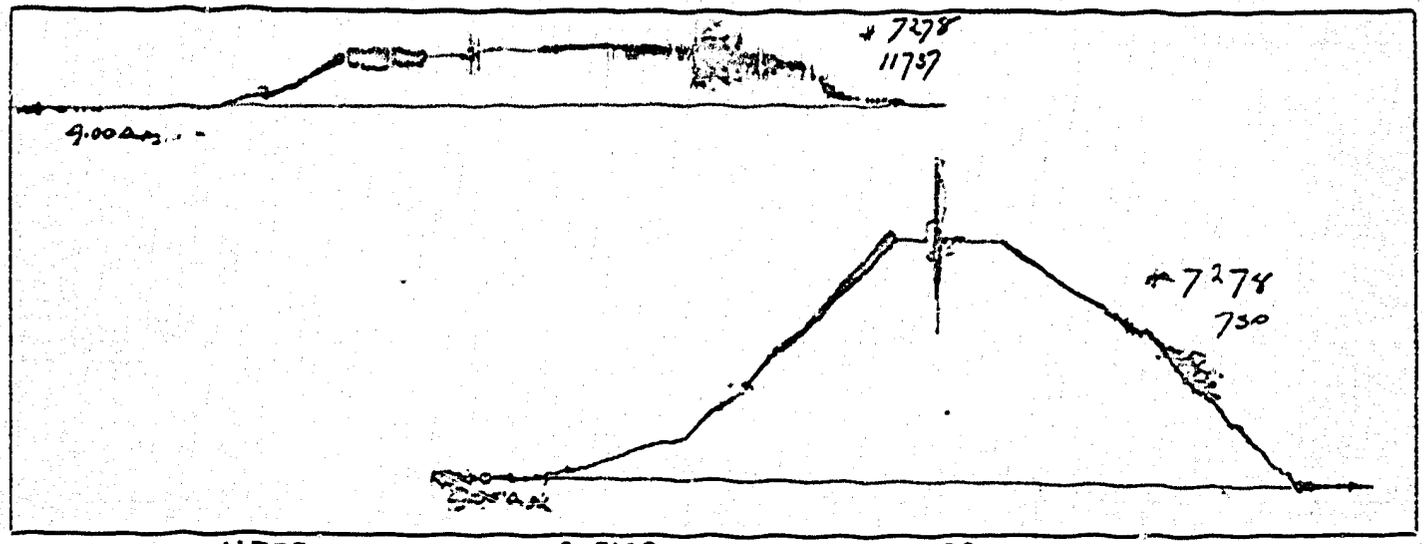
Mcf / day measured by:

Fluid Cushion: 1814' Max. Well Temp.: °F

DRLG. FLUID: Viscosity: H_2O Weight: 8.3 W.L.

FIELD (est.)	CORRECTED
Initial Hydrostatic Pressure psig	
Shut-In Press. #1 After Min. psig	
Initial Flowing Pressure psig	
Max. Flowing Pressure psig	
Shut-In Press. #2 After Min. psig	

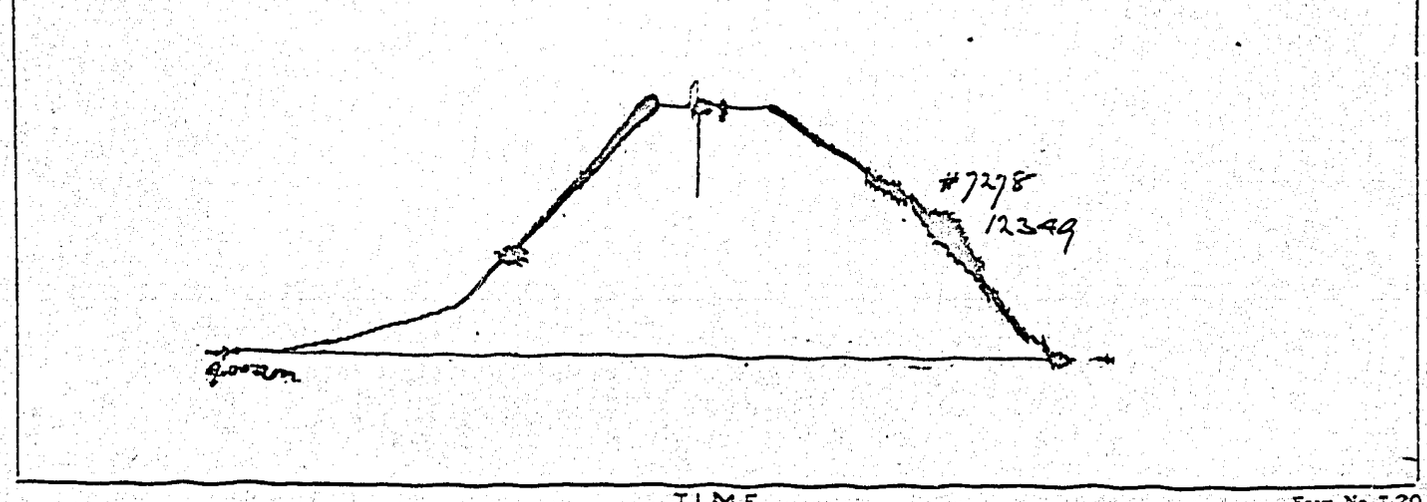
FLUID RECOVERY: Water cushion 1814':
180 ft mud
(Ran 15 drill collars 6½" OD, 2 15/16"ID)



RECORDER No. 11737 ELEMENT RANGE: 0-7000 P.S.I. CLOCK SPEED: 12 HRS. RECORDER DEPTH:

RECORDER No. 730 ELEMENT RANGE: 0-8600 P.S.I. CLOCK SPEED: 12 HRS. RECORDER DEPTH:

12349 0-8600 12



Form No T 20

T.G. EAST ... Testers ltd.

... HWY. No. 6 NORTH • EDMONTON, ALBERTA

TEST No. Three (b)
Date June 26/65
Ticket No. 7279

SERVICE REPORT

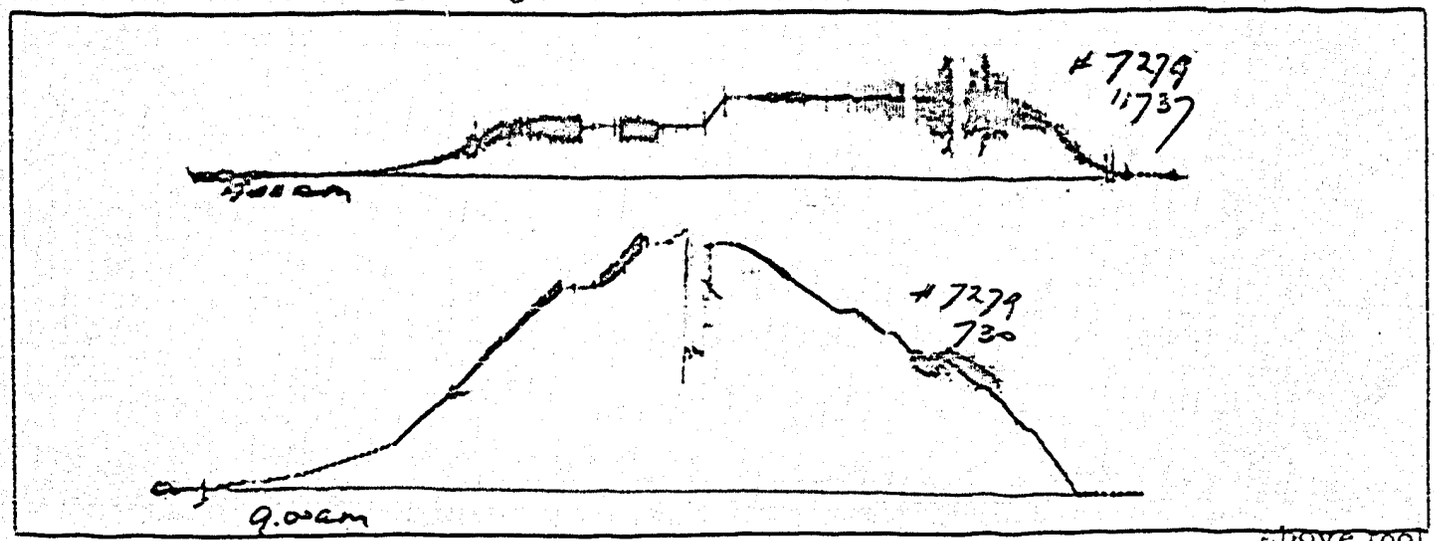
Well Name: SHELL CLOVER LEAF I-16 L.S.D. I-16
Formation Tested: -
TYPE OF TEST: ☐ Standard ☐ Deals ☒ Straddle ☐ Casing
From: 10402' To: 10493' Tail Pipe: 91'
Main Hole Depth: 10550' Rat Hole Depth:
Hole Size Tested: 8¼" Main Hole Rat Hole
Casing Depth: Size: Weight:
Type of Drill Pipe: 5"XH Tubing:
Type of Packer(s): Wildcat
Size of Rubber Element(s): 7¼"
REMARKS: Packer seat failed. Mis-run.

PRESENT DURING TEST
Your Representative E. Ettinger
Our Operator H. Buchan
Toolpusher Hansen
Drlg. Contractor Regent Rig #6

TEST RESULT DATA
Started in Hole: 9:00 am Tool Opened:
Initial Shut-in: Min. Flow Period: Min.
Final Shut-in: Min. Out of Hole:
Choke Bottom: ½"
Choke Surface:
Flow Rate Mcf/day Flare Line Riser: 2"
Mcf/day measured by:
Fluid Cushion: Max. Well Temp.: °F
DRLG. FLUID: Viscosity: H_2O Weight: 8.3 W.L.

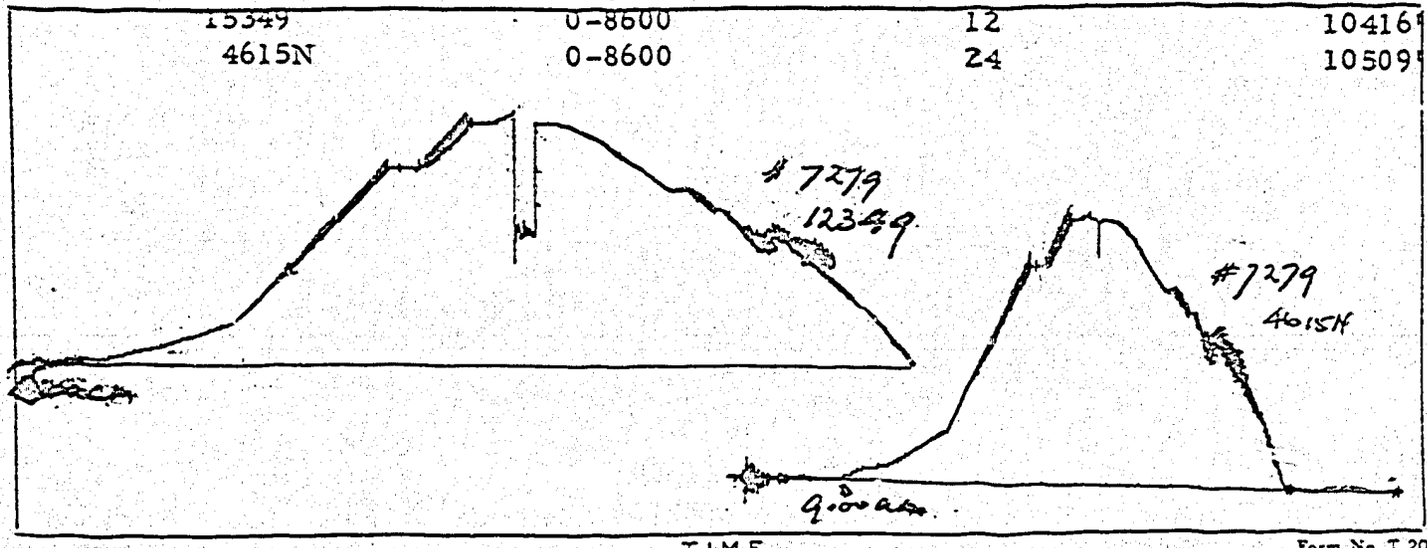
FIELD (est.)	CORRECTED
Initial Hydrostatic Pressure psig	
Shut-In Press. #1 After Min. psig	
Initial Flowing Pressure psig	
Max. Flowing Pressure psig	
Shut-In Press. #2 After Min. psig	

FLUID RECOVERY: 920 ft muddy water



RECORDER No. 11737 ELEMENT RANGE: 0-7000 P.S.I. CLOCK SPEED: 12 HRS. RECORDER DEPTH: above tool
RECORDER No. 730 ELEMENT RANGE: 0-8600 P.S.I. CLOCK SPEED: 12 HRS. RECORDER DEPTH: 10410'

12349	0-8600	12	10416'
4615N	0-8600	24	10509'



Form No T 20

Depth Top Gauge	10360 Ft. Off		Ticket No.	72602
BT P.R.D. No.	465		HOWCO District	EDMONTON

Pressure Readings	Field	Office Corrected
Initial Hydro Mud Pressure	4430	4459
Initial Closed in Pressure	1583	1538
Initial Flow Pressure	650	649
Final Flow Pressure	650	649
Final Closed in Pressure	MISSED	
Final Hydro Mud Pressure	4430	4410

Depth Centre Gauge	10497 Ft.	Blanked Off	YES
BT P.R.D. No.	2328	12 Hr. Clock	

Pressure Readings	Field	Office Corrected
Initial Hydro Mud Pressure	4536	4516
Initial Closed in Pressure	1611	1590
Initial Flow Pressure	726	709
Final Flow Pressure	726	710
Final Closed in Pressure	MISSED	
Final Hydro Mud Pressure	4536	4482

Depth Bottom Gauge	10500 Ft.	Blanked Off	NO
BT P.R.D. No.	2329	12 Hr. Clock	

Pressure Readings	Field	Office Corrected
Initial Hydro Mud Pressure		4527
Initial Closed in Pressure		
Initial Flow Pressure		BELOW
Final Flow Pressure		STRADDLE
Final Closed in Pressure		
Final Hydro Mud Pressure		4493

Tester [illegible] Witness M. NEDHAM

Contractor [illegible] 6

KB Elevation	1456.4'	Top Packer Depth	10369'
		Bottom Packer Depth	10533' / 10529'
Total Depth	10550'	Casing Perforations	Top / Bottom
Interval Tested	10373'-10529'	Formation Tested	DEV. BEAR ROCK
Casing or Hole Size	8 3/4"	Liner or Rathole Size	
Size Surface Choke	3/4"	Size Bottom Choke	5/8"
Size Drill Pipe	5" XH	Size and Type Well Packer	8"&7 3/4" E.S.
		ID and Length Drill Collars	2 7/8" x 348'
Anchor Size	I.D. O.D. 5" & 6 1/2"	Amount-Type of Cushion	1800' WATER
Gauge Depth Temp.	250 °F meas.	°F est.	Mud Weight 8.3 Viscosity 32
All Depths Measured From	K.B.		No. Folders Reproduced 5

Time Periods (Minutes)

1st Flow 5 Initial CIP 15 2nd Flow 0 Final CIP

Recovered 1800 Feet of WATER CUSHION

Recovered 348 Feet of WELL BORE FLUID

Recovered Feet of

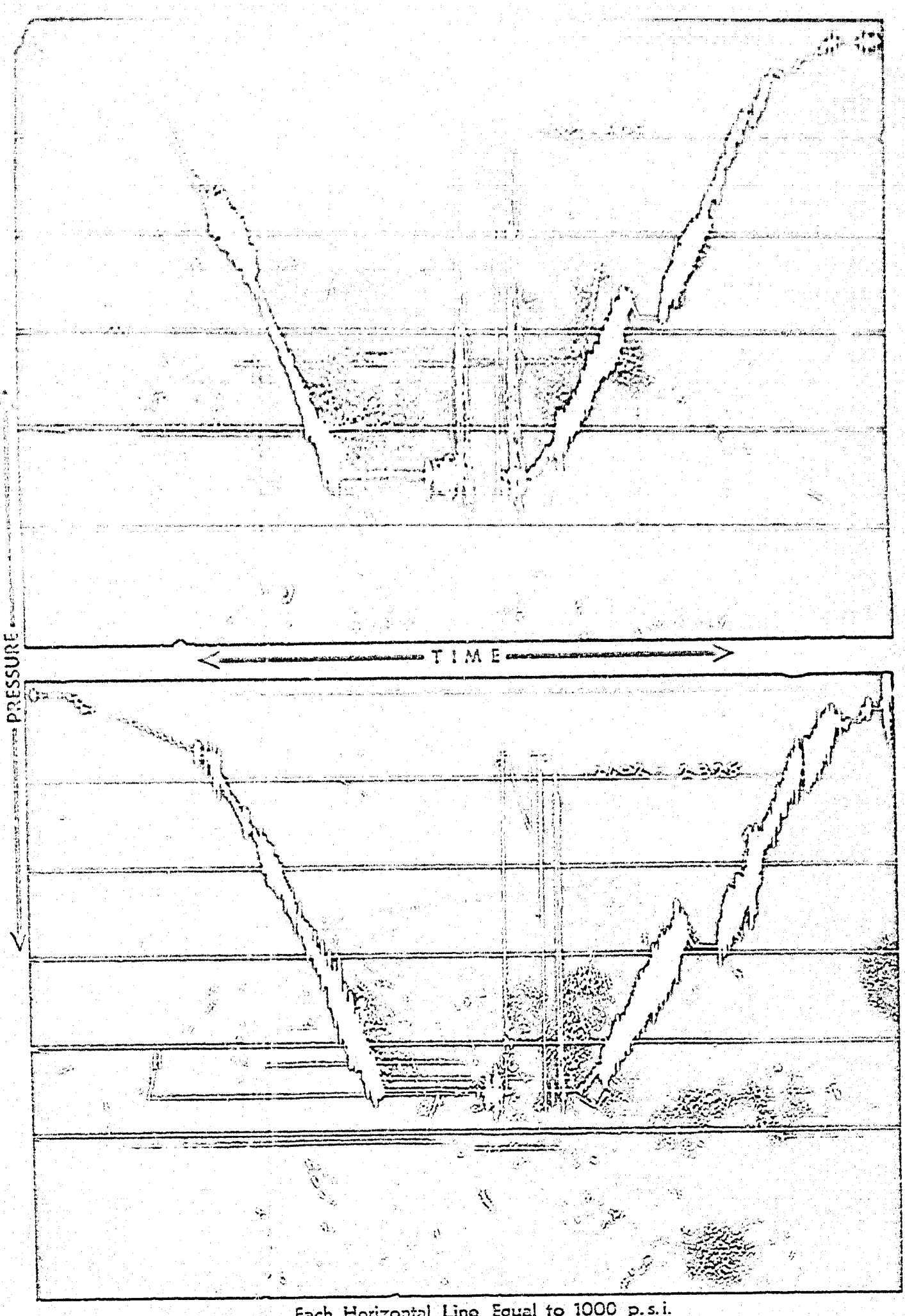
Recovered Feet of

Oil Recovery Degrees API

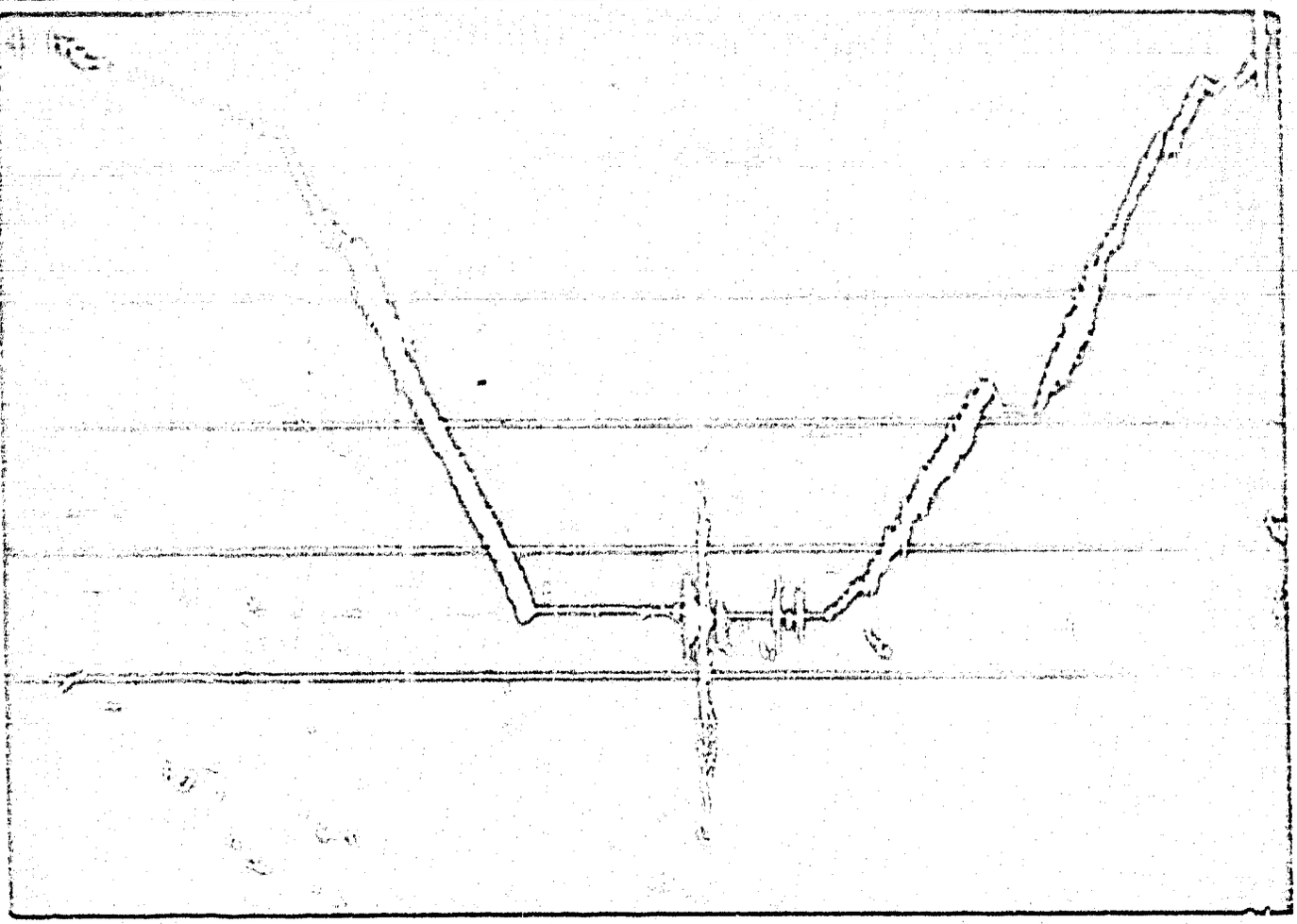
Water Recovery Specific Gravity

REMARKS: TRIED TO SET SELECTIVE TOOL 3 TIMES-- SET SELECTIVE TOOL AND OPENED - TOOL - NO BLOW - INITIAL CIP - 15 MIN - TOOL OPEN FOR SECOND FLOW WITH NO AIR BLOW - LOST PACKER SEAT AFTER 9 MIN. PULLED LOOSE AND RESET ON BOTTOM MUD HELD FOR 1/2 MIN THEN DROPPED SLOWLY PULLED OUT OF HOLE MISRUN

LEGAL DESCRIPTION N 52 MIN. 39 SECS. 63 55 MIN. 45 SECS. Lease Name SHELL CLOVER LEAF Well No. 1 - 46 Test No. 36 Owner's District EDMONTON Lease Owner SHELL CANADA LTD FIELD OR AREA WILDCAT PROVINCE N.W.T.



Each Horizontal Line Equal to 1000 p.s.i.



SHELL CANADA LTD

EDMONTON

30

1 - 46

SHELL CLOVER LEAF

TEMPERATURE RECORD

Each concentric line equals 10 °F.
Temperature increases outwardly

Ticket No T..12602...

Temperature Range °F

..150...° F to ..250..°F

A to B — Initial CIP

B to C — 2nd Flow

C to D — Final CIP

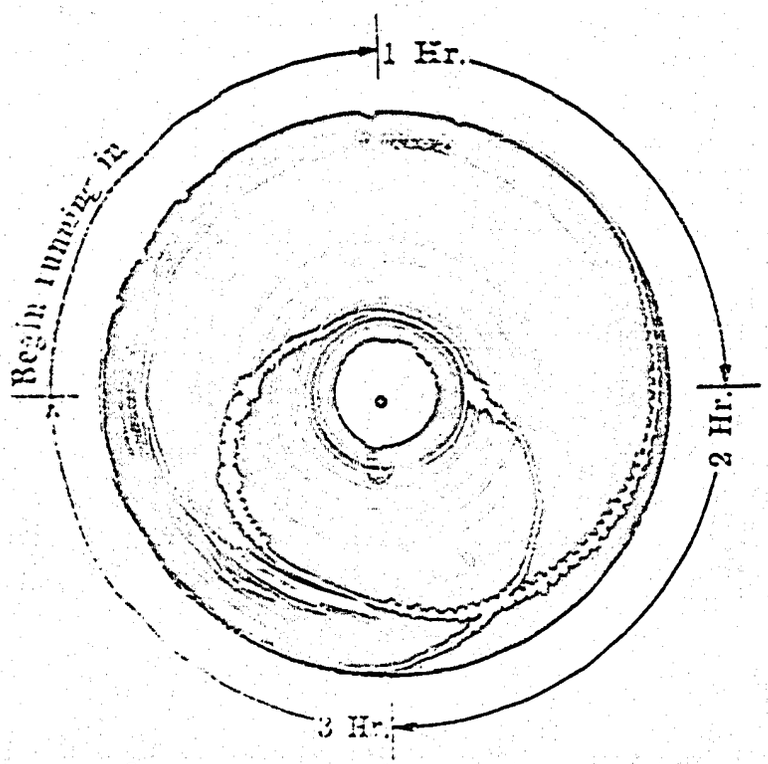
A ..... °F

B ..... °F

C ..... F
MAX

D 250+ F

DEPT L 1036C



Depth Top Gauge 10446' Ft. Ticket No. F 12402

BT P.R.D. No. 466 HOWCO District EDMONTON

Pressure Readings	Field	Office Corrected
Initial Hydro Mud Pressure		
Initial Closed in Pressure		
Initial Flow Pressure		
Final Flow Pressure		
Final Closed in Pressure		
Final Hydro Mud Pressure		

Depth Centre Gauge 10456 Ft. Blanked Off NO

BT P.R.D. No. 2328 12 Hr. Clock

Pressure Readings	Field	Office Corrected
Initial Hydro Mud Pressure	4486	4508
Initial Closed in Pressure		
Initial Flow Pressure		
Final Flow Pressure		
Final Closed in Pressure		
Final Hydro Mud Pressure	4486	4490

Depth Bottom Gauge 10490 Ft. Blanked Off YES

BT P.R.D. No. 2329 12 Hr. Clock

Pressure Readings	Field	Office Corrected
Initial Hydro Mud Pressure	4503	4516
Initial Closed in Pressure		
Initial Flow Pressure		
Final Flow Pressure		
Final Closed in Pressure		
Final Hydro Mud Pressure	4503	4508

Tester [illegible] Witness [illegible]

Contractor [illegible] # 6

K B Elevation 1496.6' Top Packer Depth 10,467 Bottom Packer Depth 10,471' 10,475'

Total Depth 10680' Casing Perforations Top Bottom

Interval Tested 10475'-10585' Formation Tested DEV. BEAR ROCK

Casing or Hole Size 8 3/4" Liner or Rathole Size

Size Surface Choke 3/4" Size Bottom Choke 5/8" Size and Type Wall Packer 7 3/4" FS

Size Drill Pipe 5" XH ID and Length Drill Collars 2 7/8" - 399'

Anchor I.D. Size O.D. FH & 6" Amount-Type of Cushion 1960' WATER

Gauge Depth 225 °F meas. Temp. °F est. Mud Weight 8.3 Mud Viscosity 32

All Depths Measured From K.B. No. Folders Reproduced 5

Time Periods (Minutes)			
1st Flow	Initial CIP	2nd Flow	Final CIP

Recovered 1960 Feet of WATER CUSHION

Recovered 90 Feet of DRILLING FLUID

Recovered Feet of

Recovered Feet of

Oil Recovery Degrees API Water Recovery Specific Gravity

REMARKS: SET TOOL ON BOTTOM - TOOL OPENED AND SKIDDED INTO CEMENT PLUG - ADDED SINGLE - OPENED TOOL AND SKIDDED INTO PLUG - PULLED LOOSE AND CAME OUT OF HOLE. MISRUN

LEGAL DESCRIPTION N 63° 52 MIN 39 SEC. W 124° 55 MIN 45 SEC.

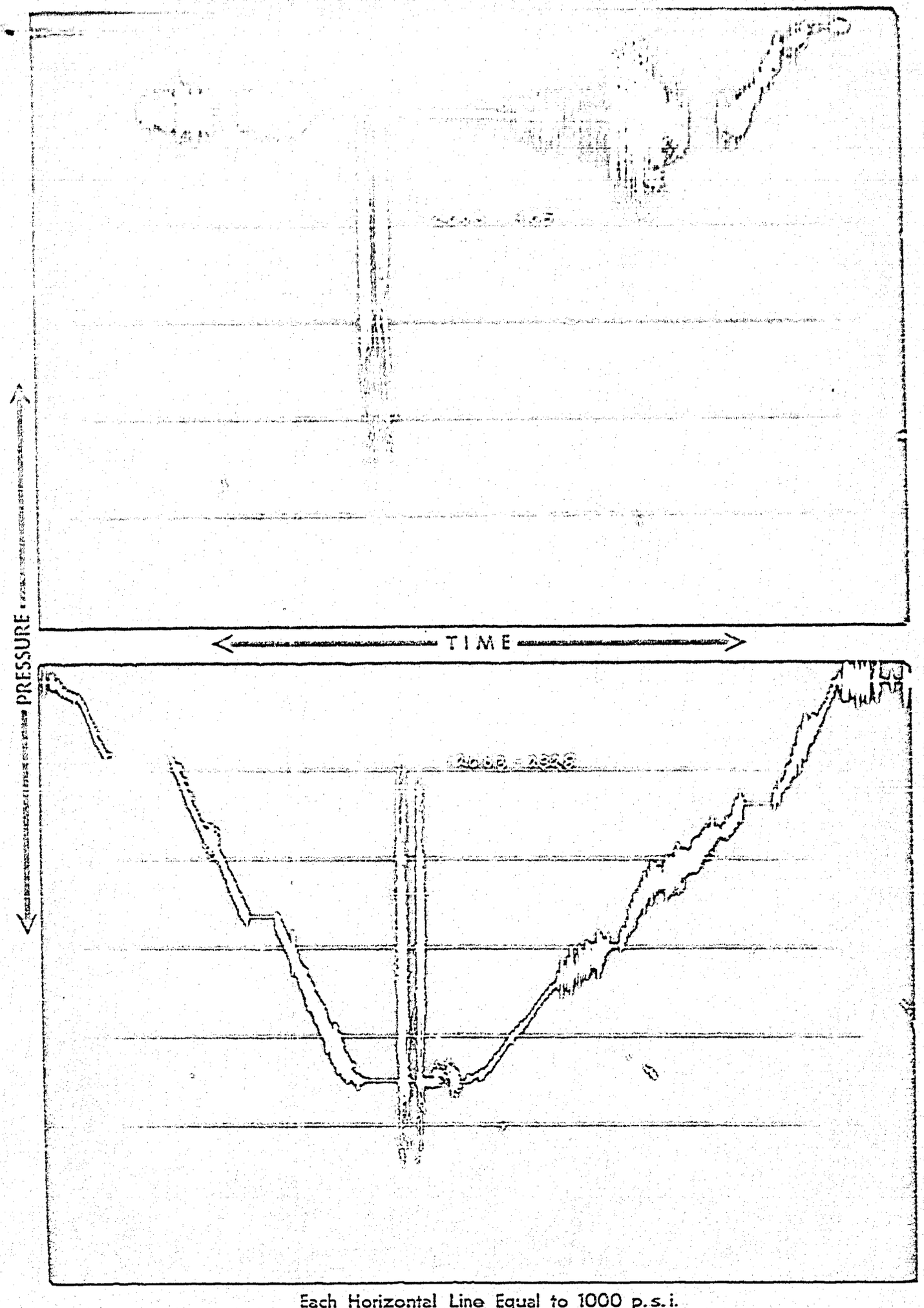
Lease Name SHELL CLARKE LAKE Well No. 1-46 Test No. 44

FIELD OR AREA WILDCAT Owner's District EDMONTON Lease Owner SHELL CANADA LTD

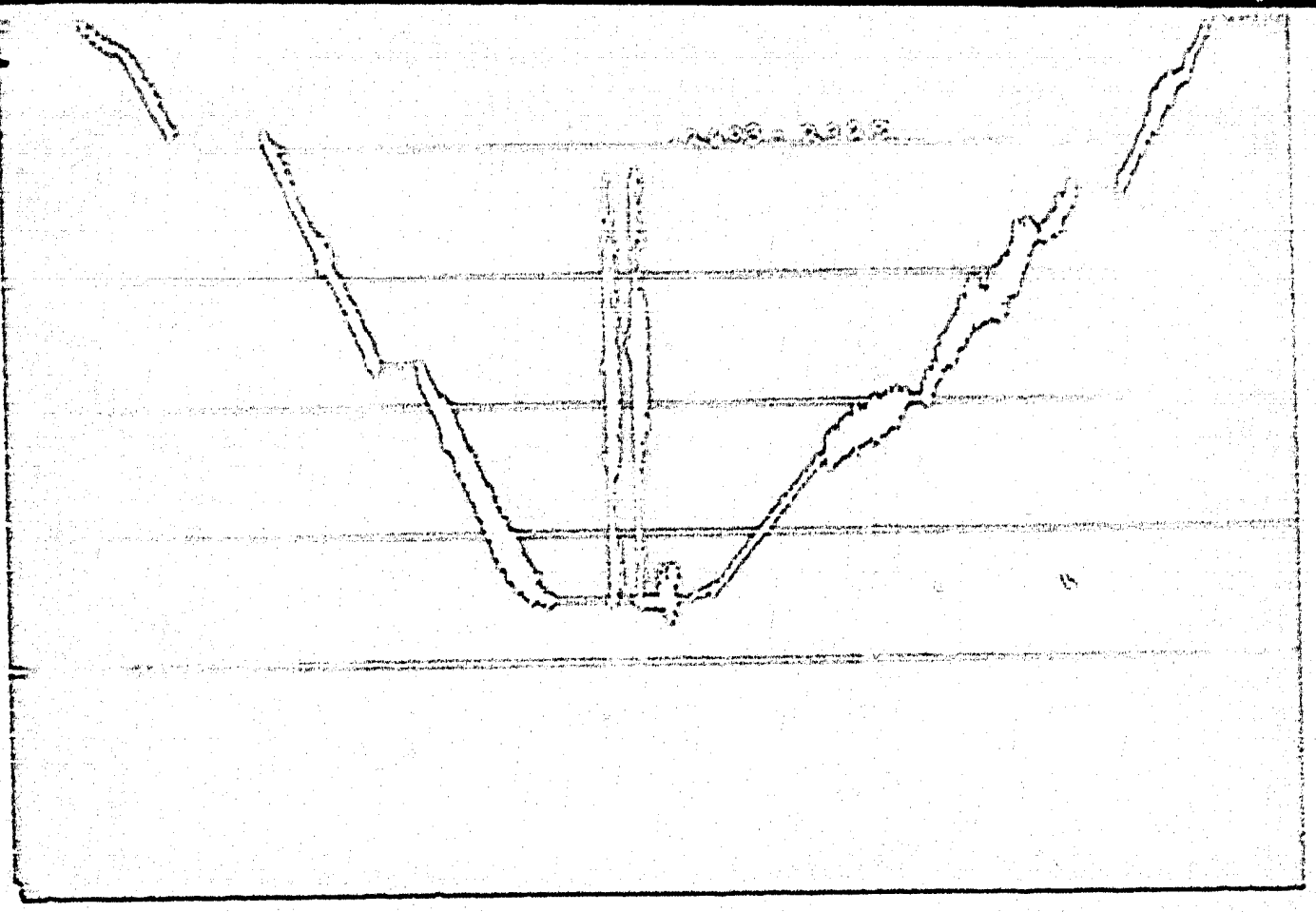
PROVINCE N.W.T.

HOWCO 521012

DRILL STEM TEST DATA



Each Horizontal Line Equal to 1000 p.s.i.



SHELL CANADA LTD. EDMONTON 4A 1-16 SHELL CLOVERLEAF

TEMPERATURE RECORD

Each concentric line equals 10°F.
Temperature increases outwardly

Ticket No T.126033

Temperature Range °F

300 °F to 300 °F

A to B — Initial CIP

B to C — 2nd Flow

C to D — Final CIP

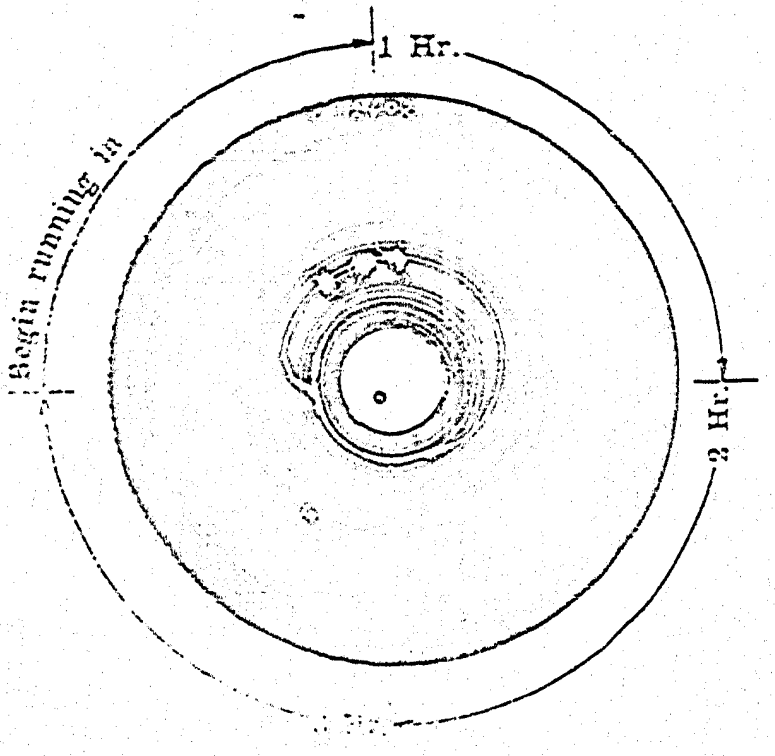
A ..... °F

B ..... °F

C ..... °F
MAX

D 224 °F

DEPTH 10,460



Depth Top Gauge 10457	Blanked Ft. Off	Date	Ticket No.
BT P.R.D. No. 4622	12 Hr. Clock	Kind of Test TYPE	HOWCO District EDMONTON
Pressure Readings	Field	Office Corrected	Tester	Witness M. SORMAN
Initial Hydro Mud Pressure	4509	4509	Contractor SCHMIT #6
Initial Closed in Pressure	2060	2071	K B Elevation 1456.4'	Top Packer Depth 10450'	Bottom Packer Depth 10571'
Initial Flow Pressure	850	854	Total Depth 10,605'	Casing Perforations Top Bottom
Final Flow Pressure	850	854	Interval Tested 10,454 - 10, 567	Formation Tested DEV. BEAR ROCK
Final Closed in Pressure	3605	3613	Casing or Hole Size 8 3/4"	Liner or Rathole Size
Final Hydro Mud Pressure	4490	4488	Size Surface Choke 3/4"	Size Bottom Choke 5/8"	Size and Type Well Packer 7 3/4"
Depth Centre Gauge 10472 Ft.	Blanked Off YES	Size Drill Pipe 5"XH	ID and Length Drill Collars 2 7/8" - 271'
BT P.R.D. No. 2329	12 Hr. Clock	Anchor I.D. Size O.D. 5 3/4	Amount-Type of Cushion 1960' WATER
Pressure Readings	Field	Office Corrected	Gauge Depth 10465 Temp.	°F meas. °F est.	Mud Weight 9.3	Mud Viscosity 39
Initial Hydro Mud Pressure	4503	4503	All Depths Measured From K.B.	No. Folders Reproduced 5
Initial Closed in Pressure	2068	2046	Time Periods (Minutes) 1st Flow 10 Initial CIP 15 2nd Flow 60 Final CIP 60
Initial Flow Pressure	859	863	Recovered 1960 Feet of WATER CUSHION
Final Flow Pressure	859	863	Recovered 18 Feet of DRILLING FLUID
Final Closed in Pressure	CLOCK	RAN	Recovered Feet of
Final Hydro Mud Pressure	CUT	Recovered Feet of
Depth Bottom Gauge 10576 Ft.	Blanked Off NO	Oil Recovery Degrees API	Water Recovery Specific Gravity
BT P.R.D. No. 2328	12 Hr. Clock	REMARKS: TOOL OPENED WHILE SETTING SELECTIVE
Pressure Readings	Field	Office Corrected	TOOL - TOOL OPEN 10 MIN. NO BLOW - INITIAL
Initial Hydro Mud Pressure		4505	C.I.P. 15 MIN. TOOL OPEN FOR SECOND FLOW
Initial Closed in Pressure			FOR 60 MIN. NO SPECIAL READINGS DUE TO
Initial Flow Pressure			NATURE OF C.I.P. CURVES AND LACK OF
Final Flow Pressure			PRODUCTION
Final Closed in Pressure		
Final Hydro Mud Pressure		MISSED

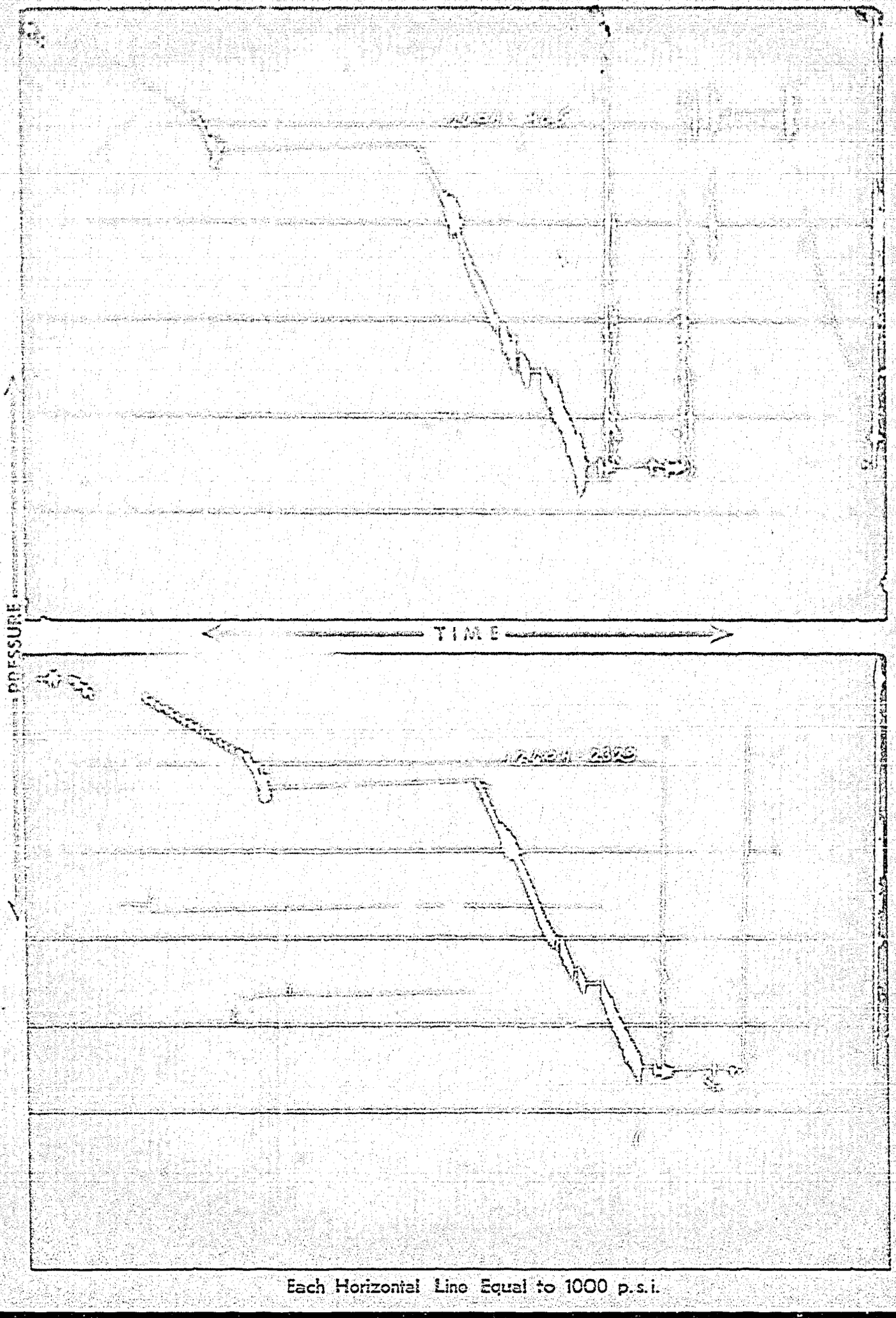
LEGAL DESCRIPTION N 12-46 W 63° 52 MIN 30 SEC. N 12-46 W 63° 55 MIN 45 SEC. Well No. 1-46 Test No. 4B

FIELD OR AREA WILDCAT Owner's District EDMONTON Lease Owner SHELL CANADA LTD

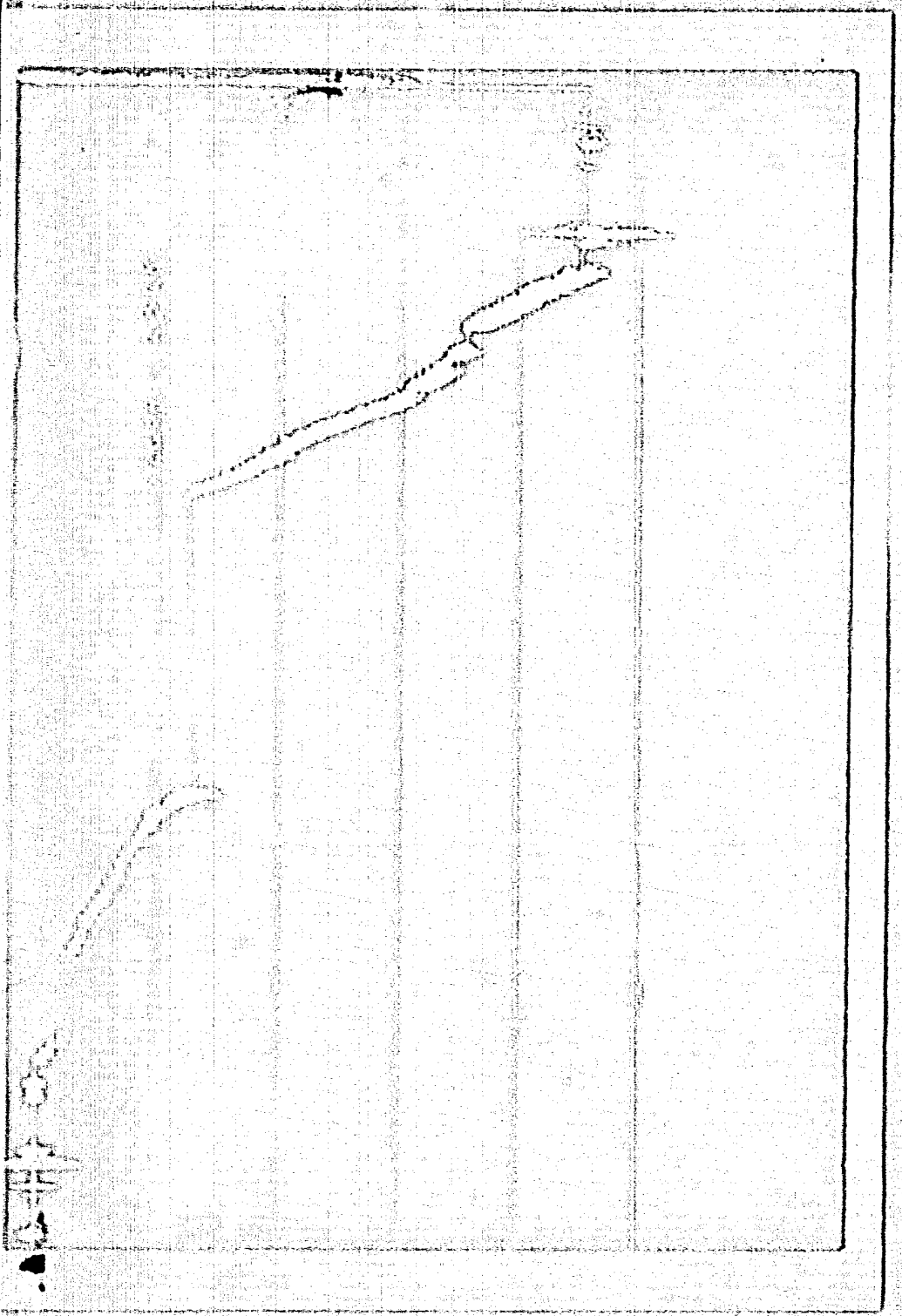
PROVINCE N.W.T.

HOWCO 52-012

DRILL STEM TEST DATA



Each Horizontal Line Equal to 1000 p.s.i.



C.P. 60

SHELL OIL COMPANY OF CANADA, LIMITED

PRODUCTION LABORATORY ANALYSIS REPORT

CALGARY, ALBERTA

Laboratory Number 105-106 WATER

Sample Received APRIL 9, 1965
Sample Analysed APRIL 13, 1965
Results Reported APRIL 14, 1965

SAMPLE DESCRIPTION

Company SHELL CANADA LIMITED Well CLOVERLEAF I-46

Field _____ Lsd ____ Sec ____ Twp ____ Rge ____ W ____

Sample obtained from (line, tubing, etc.) SAMPLE # 1000

Pressure at point of sampling _____ psig Well K.B. _____ G.L. _____

gas bomb _____ psig Zone _____

Temperature at point of sampling _____ °F Formation IMPERIAL

separator _____ °F

Method of production (DST, pump, flowing, etc.) DST #1

DST interval 2259-2802 Recovery 1325' WATERY MUD

Perforations or open hole interval _____ T.D. _____

Sampled by _____ Date MARCH 27, 1965 Time _____

FILTER PRESS FILTRATES -

		SALINITY mg Cl⁻/l	mg NaCl/l
NO. 105	4TH STAND	2,792	4,607
NO. 106	1ST STAND - TOP OF TOOL	8,351	5,529

Copies: 15-1300

Production Department, Calgary Area 1

Division Office EXPLOIT 5

Production Laboratory, Calgary Area 2

Chemist N. L. Johnson

C.P. 80

SHELL OIL COMPANY OF CANADA, LIMITED

PRODUCTION LABORATORY ANALYSIS REPORT

CALGARY, ALBERTA

DEPT. OF MINES & MINERAL RESOURCES
CHESTERMERE, ALBERTA
JUN 24 1965
CONSERVATION ENGINEER
Mineral Resources Division

Laboratory Number 160
WATER

Sample Received JUNE 10, 1965
Sample Analysed JUNE 11, 1965
Results Reported JUNE 11, 1965

SAMPLE DESCRIPTION N63°55'44" W114°22'39"

Company SHELL CANADA LIMITED Well CLOVERLEAF I-46
Field _____ Lsd ___ Sec ___ Twp ___ Rge ___ W ___
Sample obtained from (line, tubing, etc.) #1277 - FLOW LINE
Pressure at point of sampling ATMOS psig Well K.B. 1455 G.L. 1441
gas bomb _____ psig Zone DEVONIAN
Temperature at point of sampling 55 °F Formation BEAR ROCK
separator _____ °F
Method of production (DST, pump, flowing, etc.)
DST Interval _____ Recovery _____
Perforations or open hole interval _____ T.D. _____
Sampled by P.M. NEDHAM Date MAY 30, 1965 Time _____

"DRILLING FLUID USED PRIOR TO DST 2a & b"

SALINITY 56 mg Cl⁻/l [92 mg NaCl/l]

COMPLETE ANALYSIS DST 2a RECOVERY, FIELD NO. 4044 [LAB. NO. 161] TO FOLLOW.

Copies: 15-1300
Production Department, Calgary Area 1
Division Office EXPLOIT. 5
Production Laboratory, Calgary Area 2

Chemist N. L. Johnson

CP-691A

SHELL CANADA LIMITED

PRODUCTION LABORATORY ANALYSIS REPORT

CALGARY, ALBERTA

Laboratory Number 160 A
WATER

Sample Received JUNE 10, 1965
Sample Analysed JUNE 11 & 23, 1965
Results Reported JUNE 24, 1965

N 63° 55' 44" W124° 52' 39"

Company SHELL CANADA LIMITED Well CLOVERLEAF I-46
Field _____ Lsd _____ Sec _____ Twp _____ Rge _____ W _____
Well K.B. 1455 G.L. 1441 Zone DEVONIAN
T.D. _____ P.B.T.D. _____ Formation BEAR ROCK
Method of production (DST, pump, flowing, etc.) _____
DST interval _____ Perforations or open hole interval _____
Recovery _____
Sample obtained from (line, tubing, etc.) # 1277 FLOWLINE - DRILLING FLUID PRIOR TO
Pressure at point of sampling ATMOS. psig _____ gas bomb DST 2a + b psig
Temperature at point of sampling 55° °F _____ separator _____ °F
Sampled by P. M. NEEDHAM Date MAY 30, 1965 Time _____

CHEMICAL AND PHYSICAL PROPERTIES

Specific Gravity at 60°F 1.00550 pH 7.4 Resistivity 5.7 ohm-m at 60°F

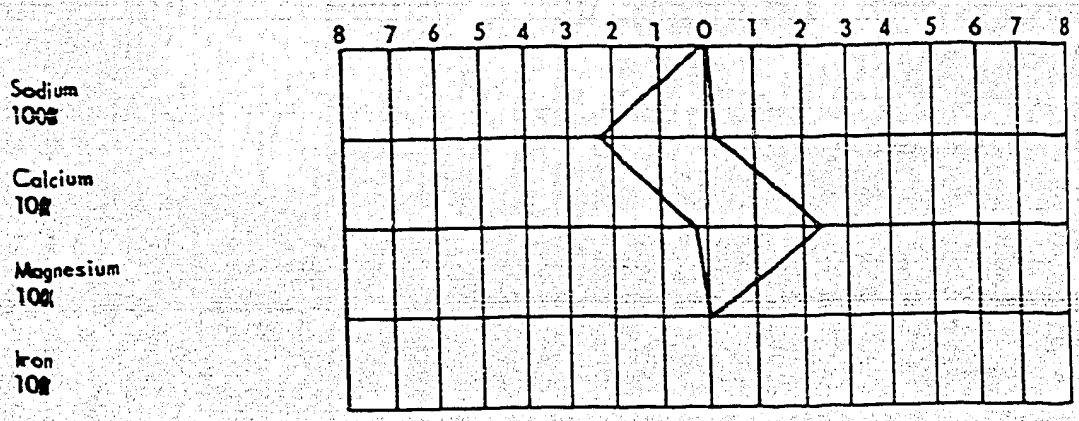
	MILLIGRAMS PER LITER MG/1	REACTION COEFFICIENT	REACTION VALUE
TOTAL IRON - Fe^3 and Fe^2	0	0.03582	0
Calcium - Ca^2	469	0.04990	23.4
Magnesium - Mg^2	20	0.08224	1.6
Sodium (including Potassium) - Calc.	37	0.04348	1.6
Positive Sub-total	526		26.6
Bicarbonate - HCO_3	61	0.01639	1.0
Carbonate - CO_3	0	0.03333	0
Sulfate - SO_4	1150	0.02083	24.0
Chloride - Cl	56	0.02820	1.6
Sulfide - S	0	0.06237	0
Negative Sub-total	1267		26.6
Grand Total	1793		

Remarks: _____

DEPT. OF MINES & RESOURCES
CALGARY, ALBERTA
JUL 6 1965
CONSERVATION ENGINEER
Northwest Territories & Yukon Territory

REACTION VALUE

(Milliequivalents per Liter)



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

Chemist: N. L. Johnson

CP-491A

SHELL CANADA LIMITED

PRODUCTION LABORATORY ANALYSIS REPORT

CALGARY, ALBERTA

Laboratory Number 161
WATER

Sample Received JUNE 10, 1962
Sample Analyzed JUNE 11, 1962
Results Reported JUNE 14, 1962

N 63° 55' 44" W 124° 52' 39"

Company SHELL CANADA LIMITED Well CLOVERLEAF I-46
Field _____ Lsd _____ Sec _____ Twp _____ Rge _____ W _____
Well K.B. 1455 G.L. 1441 Zone DEVONIAN
T.D. _____ P.B.T.D. _____ Formation BEAR ROCK
Method of production (DST, pump, flowing, etc.) DST 2 d
DST interval 9343 - 9538 Perforations or open hole interval _____
Recovery 3510' [58.96] WATER
Sample obtained from (line, tubing, etc.) # 4044 — AT TOOL
Pressure at point of sampling 2060 psig _____ gas bomb _____ psig
Temperature at point of sampling 218 °F _____ separator _____ °F
Sampled by P.M. NEEDHAM Date MAY 31, 1962 Time _____

CHEMICAL AND PHYSICAL PROPERTIES

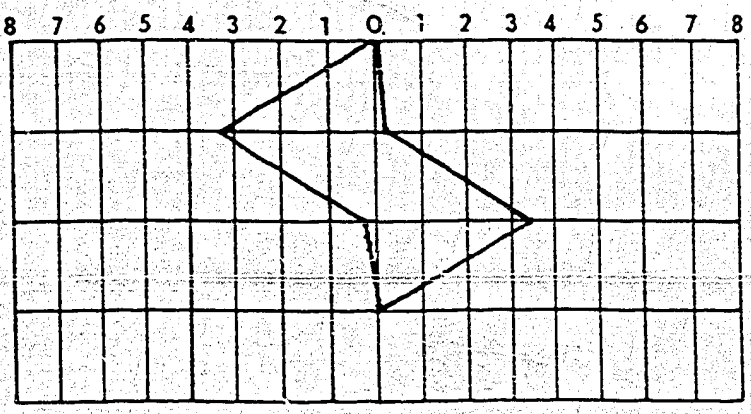
Specific Gravity at 60°F 1.0025 pH 7.6 Resistivity 4.3 ohm-m at 60° F

	MILLIGRAMS PER LITER MG/1	REACTION COEFFICIENT	REACTION VALUE
TOTAL IRON - Fe^3 and Fe^2	0	0.03587	0
Calcium - Ca^2	625	0.04990	33.7
Magnesium - Mg^2	31	0.08224	2.5
Sodium (including Potassium) - Calc.	39	0.04348	1.7
Positive Sub-total	745		37.9
Bicarbonate - HCO_3	23	0.01639	1.2
Carbonate - CO_3	0	0.03333	0
Sulfate - SO_4	1,644	0.02083	37.2
Chloride - Cl	89	0.02820	2.5
Sulfide - S	0	0.06237	0
Negative Sub-total	1806		37.9
Grand Total	2551		

Remarks: _____

REACTION VALUE

(Milliequivalents per Liter)



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

Chemist N.L. Johnson

CP.494

SHELL CANADA LIMITED

PRODUCTION LABORATORY ANALYSIS REPORT

CALGARY, ALBERTA

Laboratory Number 187 WATER

Sample Received JULY 9, 1965
Sample Analyzed JULY 13, 1965
Results Reported JULY 22, 1965

N63° 55' 44" W114° 50' 39"

Company SHELL CANADA LIMITED Well CLOVERLEAF I-46
Field _____ Lsd ____ Sec ____ Twp ____ Rge ____ W ____
Well K.B. 1757.6 G.L. 1741 Zone _____
T.D. _____ P.B.T.D. 10,550 Formation DEVONIAN BEAR ROCK
Method of production (DST, pump, flowing, etc.) DST 3c
DST interval 10,323 - 10,529 Perforations or open hole interval _____
Recovery 350' [3.26'] MUDDY WATER — PROBABLY CONTAMINATED WITH DIESEL FLUID
Sample obtained from (line, tubing, etc.) # DRILL — TOP OF TOOL
Pressure at point of sampling 726 psig gas bomb _____ psig
Temperature at point of sampling 260 °F separator _____ °F
Sampled by P.M. NEDHAM Date JUNE 27, 1965 Time _____

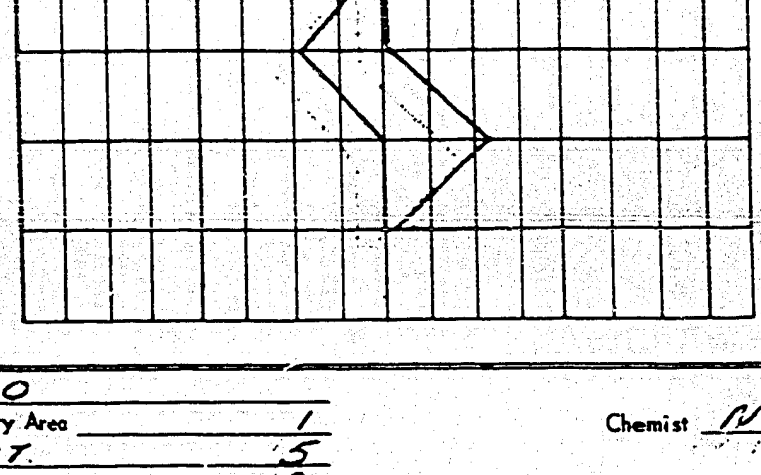
CHEMICAL AND PHYSICAL PROPERTIES

Specific Gravity at 60°F 1.00720 pH 10.7 [8.5] Resistivity 5.0 ohm-m at 60°F

	MILLIGRAMS PER LITER MG/1	REACTION COEFFICIENT	REACTION VALUE
TOTAL IRON - Fe^3 and Fe^2	0	0.03587	0
Calcium - Ca^2	385	0.04990	19.2
Magnesium - Mg^2	TR	0.08224	0
Sodium (including Potassium) - Calc.	193	0.04348	8.4
Positive Sub-total	578		27.6
Bicarbonate - HCO_3	[146] 32	0.01639	[2.4] 0.6
Carbonate - CO_3	[6] 54	0.03333	[0.2] 1.8
Sulfate - SO_4	1090	0.02083	22.7
Chloride - Cl	89	0.02820	2.5
Sulfide - S	0	0.06237	0
Negative Sub-total	1270		27.6
Grand Total	1848		

Remarks: TITRIMETER POSSIBLY FAULTY JULY 13/65
[ ] JULY 21/65 — INSTRUMENT REPAIRED — DIFFERENCES IN HCO_3^- + $CO_3^=$ MAY BE DUE TO NORMAL AGING OF SAMPLE.

REACTION VALUE
(Milliequivalents per Liter)



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

Chemist N.L. Johnson

CP-694A

SHELL CANADA LIMITED

PRODUCTION LABORATORY ANALYSIS REPORT

CALGARY, ALBERTA

Laboratory Number 187
WATER

Sample Received JULY 9, 1965
Sample Analyzed JULY 13, 1965
Results Reported JULY 22, 1965

N 63° 55' 44" W 114° 50' 39"

Company SHELL CANADA LIMITED Well CLOVERLEAF I-46
Field _____ Lsd _____ Sec _____ Twp _____ Rge _____ W _____
Well K.B. 1457.6 G.L. 1441 Zone _____
T.D. _____ P.B.T.D. 10 550 Formation DEVONIAN BEAR ROCK
Method of production (DST, pump, flowing, etc.) DST 3c
DST interval 10 373 - 10 529 Perforations or open hole interval _____
Recovery 350' [3.26] MUDDY WATER — PROBABLY CONTAMINATED WITH DIESEL FLUID
Sample obtained from (line, tubing, etc.) #0721 — TOP OF TOOL
Pressure at point of sampling 226 psig gas bomb _____ psig
Temperature at point of sampling 260 °F separator _____ °F
Sampled by P.M. NEDHAM Date JUNE 22, 1965 Time _____

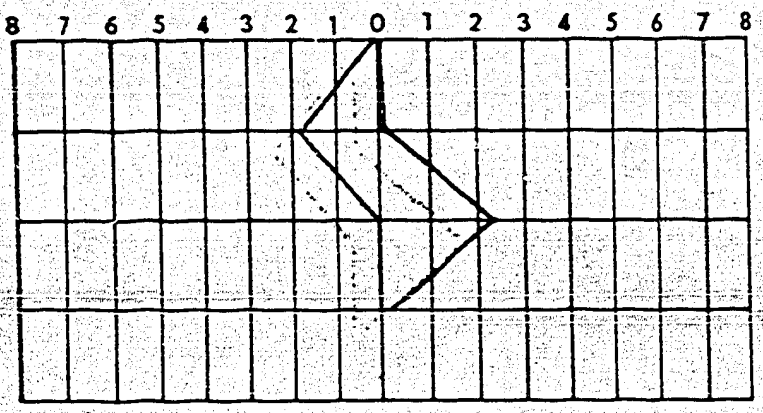
CHEMICAL AND PHYSICAL PROPERTIES

Specific Gravity @ 60°F 1.0070 pH 10.7 [8.5] Resistivity 5.0 ohm-m at 60°F

	MILLIGRAMS PER LITER MG/l	REACTION COEFFICIENT	REACTION VALUE
TOTAL IRON - Fe^3 and Fe^2	0	0.03582	0
Calcium - Ca^2	385	0.04990	19.2
Magnesium - Mg^2	TR	0.08224	0
Sodium (including Potassium) - Calc.	193	0.04348	8.4
Positive Sub-total	578		27.6
Bicarbonate - HCO_3	[146] 37	0.01639	[2.4] 0.6
Carbonate - CO_3	[6] 54	0.03333	[0.2] 1.8
Sulfate - SO_4	1090	0.02083	22.7
Chloride - Cl	89	0.02820	2.5
Sulfide - S	0	0.06237	0
Negative Sub-total	1270		27.6
Grand Total	1848		

Remarks: TITRIMETER POSSIBLY FAULTY JULY 13/65
[--] JULY 21/65 — INSTRUMENT REPAIRED — DIFFERENCES IN HCO_3 + CO_3 MAY BE DUE TO NORMAL AGING OF SAMPLE.

REACTION VALUE
(Milliequivalents per Liter)



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

Chemist N.L. Johnson

CP,A9A

SHELL CANADA LIMITED

PRODUCTION LABORATORY ANALYSIS REPORT

CALGARY, ALBERTA

Laboratory Number 185 RATER

Sample Received JULY 9, 1965
Sample Analyzed JULY 13, 1965
Results Reported JULY 23, 1965

N63°55'44" W124°52'39"

Company SHELL CANADA LIMITED Well CLOVERLEAF I-46
Field _____ Lsd _____ Sec _____ Twp _____ Rge _____ W _____
Well K.B. 1454.6 G.L. 1431 Zone _____
T.D. _____ P.B.T.D. 10,590 Formation DEVONIAN BEAR ROCK
Method of production (DST, pump, flowing, etc.) DST #6
DST interval 10,454-10,567 Perforations or open hole interval _____
Recovery 960' WATER CUSHION 18' MUDDY WATER — PROBABLY MINOR AMOUNT DIESEL FUEL
Sample obtained from (line, tubing, etc.) #0722 — DRILLING MUD PRIOR TO DST #6
Pressure at point of sampling 0 psig gas bomb _____ psig
Temperature at point of sampling 20 °F separator _____ °F
Sampled by R.F. NEDHAM Date JULY 1, 1965 Time _____

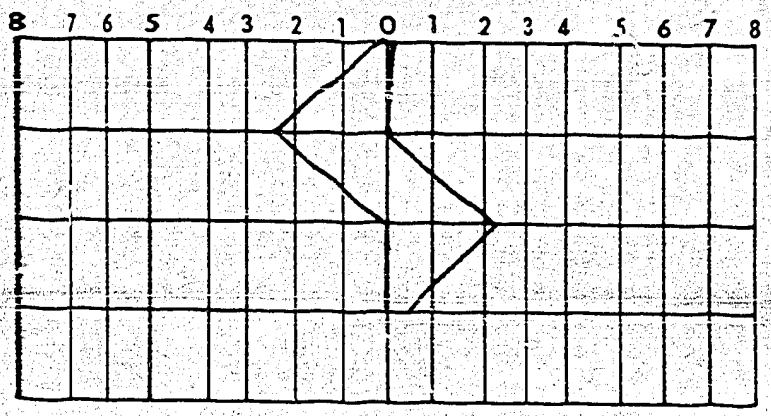
CHEMICAL AND PHYSICAL PROPERTIES

Specific Gravity at 60°F 1.0056 pH 11.8 [10.9] Resistivity 3.3 ohm-m at 60° F

	MILLIGRAMS PER LITER MG/l	REACTION COEFFICIENT	REACTION VALUE
TOTAL IRON - Fe^{3} and Fe^{2}	0	0.03587	0
Calcium - Ca^{2}	491	0.04990	24.5
Magnesium - Mg^{2}	TR	0.08224	0
Sodium (including Potassium) - Calc.	212	0.04348	9.2
Positive Sub-total	703		33.7
~~Bicarbonate - HCO_3~~ HYDROXIDE OH^- [76]	110	~~0.01639~~ 0.05882	[4.5] 6.5
Carbonate - CO_3 [156]	114	0.03333	[5.2] 3.8
Sulfate - SO_4	1016	0.02083	21.2
Chloride - Cl	78	0.02820	2.2
Sulfide - S	0	0.06237	0
Negative Sub-total	1318		33.7
Grand Total	2021		

Remarks: TITRIMETER POSSIBLY FAULTY JULY 13/65
[ ] JULY 21/65 — INSTRUMENT REPAIRED - DIFFERENCES IN OH^- - $CO_3^=$ MAY BE DUE TO NORMAL 'AGING' OF SAMPLE.

REACTION VALUE
(Milliequivalents per Liter)



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

Chemist N.L. Johnson

CP-499A

SHELL CANADA LIMITED

PRODUCTION LABORATORY ANALYSIS REPORT

CALGARY, ALBERTA

Laboratory Number 186
WATER

Sample Received JULY 9, 1965
Sample Analyzed JULY 13, 1965
Results Reported JULY 23, 1965

N 63° 55' 44" W 134° 50' 39"

Company SHELL CANADA LIMITED Well CLOVERLEAF I-46
Field _____ Lsd ____ Sec ____ Twp ____ Rge ____ W ____
Well K.B. 1454.6 G.L. 1441 Zone _____
T.D. _____ P.B.T.D. 10,590 Formation DEVONIAN BEAR ROCK
Method of production (DST, pump, flowing, etc.) DST #6
DST interval 10,454 - 10,567 Perforations or open hole interval _____
Recovery 1960' WATER CUSHION 18' MUDDY WATER, POSSIBLY CONTAMINATED WITH DIESEL FUEL
Sample obtained from (line, tubing, etc.) #0423 - TOP OF TOOL
Pressure at point of sampling 850 psig gas bomb _____ psig
Temperature at point of sampling 230 °F separator _____ °F
Sampled by P.M. NEOHAN Date JULY 1, 1965 Time _____

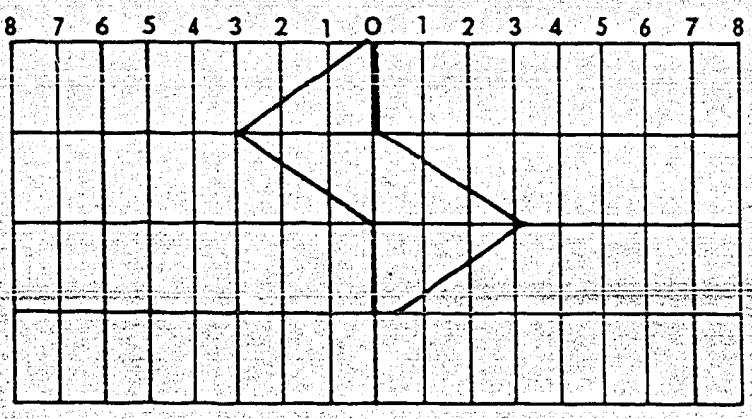
CHEMICAL AND PHYSICAL PROPERTIES

Specific Gravity at 60°F 1.0070 pH 11.0 [8.8] Resistivity 4.1 ohm-m at 60°F

	MILLIGRAMS PER LITER MG/l	REACTION COEFFICIENT	REACTION VALUE
TOTAL IRON - Fe^{3} and Fe^{2}	0	0.03582	0
Calcium - Ca^{2}	597	0.04990	29.8
Magnesium - Mg^{2}	TR	0.08224	0
Sodium (including Potassium) - Calc.	168	0.04348	7.3
Positive Sub-total	765		37.1
Bicarbonate - HCO_3	[165] 30	0.01639	[2.7] 0.5
Carbonate - CO_3	[12] 102	0.03333	[0.4] 3.4
Sulfate - SO_4	1487	0.02083	31.0
Chloride - Cl	78	0.02820	2.2
Sulfide - S	0	0.06237	0
Negative Sub-total	1697		37.1
Grand Total	2462		

Remarks: TITRIMETER POSSIBLY FAULTY JULY 13, 1965
[ ] JULY 21/65 - INSTRUMENT REPAIRED - DIFFERENCES IN HCO_3^- + $CO_3^=$ MAY BE DUE TO NORMAL 'AGING' OF SAMPLE.

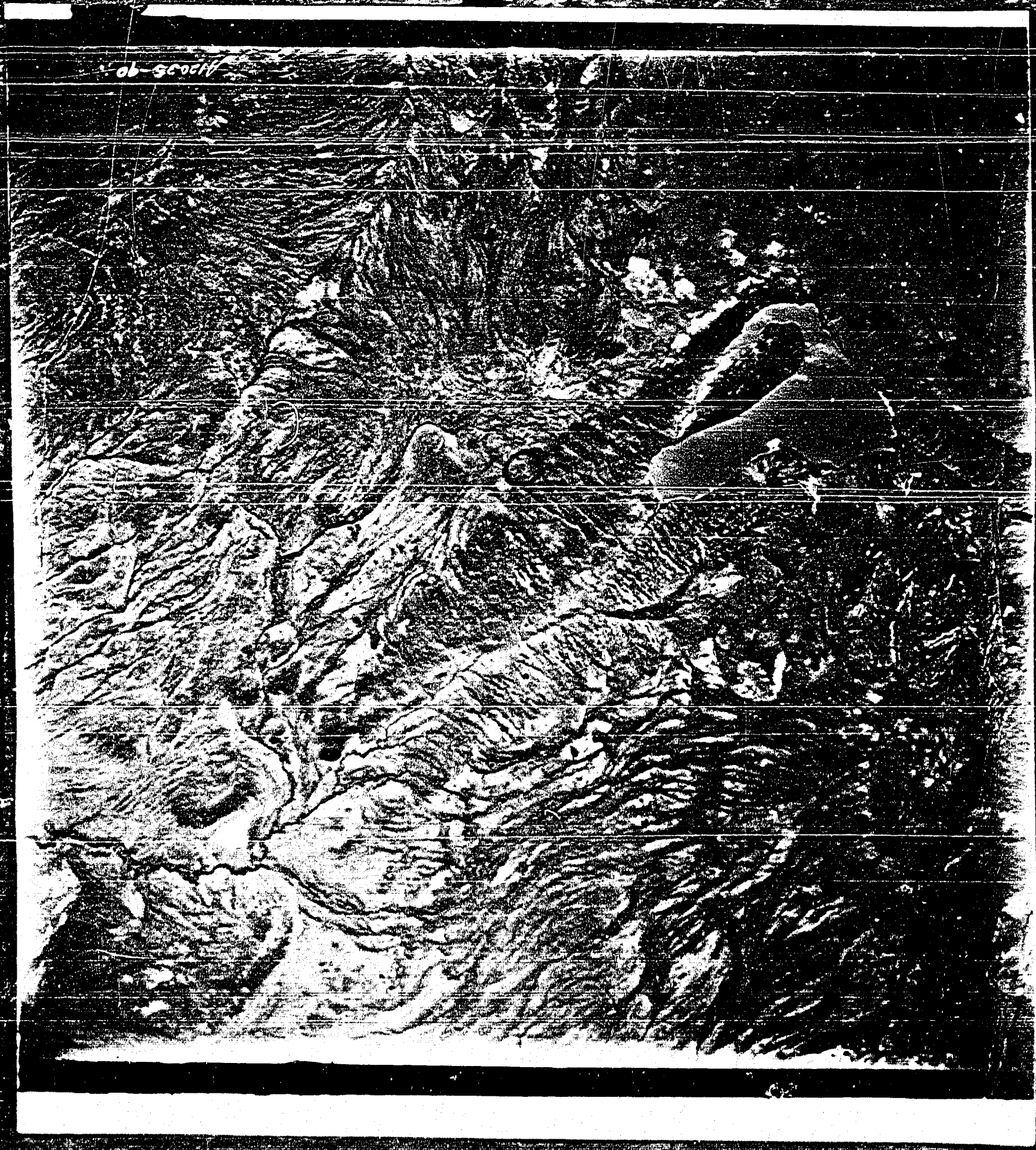
REACTION VALUE
(Milliequivalents per Liter)



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

Chemist N.L. Johnson

AT2035-90


ob-scocff

⊙ SHELL Clearlake
I-46

C.P.—38 (10/63) **DAILY DRILLING REPORT** REPORT NO. 114 DATE FEBRUARY 18/65

OPERATOR: SHELL CANADA LIMITED | LOCATION LSD. SEC. TWP. RGE. W. | WELL NAME: SHELL RADVERCOR No. 1-46 | PROVINCE: N.W.T

CONTRACTOR: REGENT DRLG | RIG No. 10 | DRILL PIPE STRING NO. SIZE | TOOL JOINT OD | TYPE THD.

OPERATOR'S REPRESENTATIVE: W.B. Cumbus | CONTRACTOR'S TOOL PUSHER: [signature]

PUMPS

NO.	MANUFACTURER	TYPE	STROKE LENGTH
1.			
2.			
3.			

CASING & LINER RECORD

SIZE	WT. & GR.	DEPTH SET FROM	DEPTH SET TO	PERFORATIONS FROM	PERFORATIONS TO	CEMENT USED	OTHER

TIME DISTRIBUTION—HOURS

	MORN	DAY	EVE
DRILLING ACTUAL			
REAMING			
CIRCULATING			
TRIPS			
DEVIATION SURVEY			
TEST B.O.P			
CUT OFF DRILL LINE			
REPAIR RIG			
CORING			
WIRE LINE LOGGING			
OTHER			
FISHING			
COMPLETING (A) PERFORATING			
(B) RUNNING TUBING			
(C) SWABBING			
(D) TESTING			
(E) ACIDIZING			
(F) ADDITIONAL			
TOTALS	12		

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. or TRIPS SINCE LAST CUT

CUMULATIVE TON MI. or TRIPS

NO. OF DAYS FROM SPUD

CUMULATIVE ROTATING HRS.

MORNING TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD	
	STANDS DP	FT.	RUN NO.	
	SNGLS. DP	FT.	SIZE	
	D.C. ID / OD	FT.	MFG.	
	RMR BODY OD	FT.	TYPE	
	STB BODY OD	FT.	NOZ. NO. / 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 J. Hibbard

HRS. DRLD.	CORE NO.	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT. ON BIT 1000#	PUMP PRESS.	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN

DEVIATION RECORD:	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

REMARKS 8 PM to 8 AM. 12 hrs TEAR OUT & SPLIT DERRICK

DRILLER — A. NIBBARD

DERRICK — S. TOKER

FLOOR — S. DANA — B. DURASSA — E. PRATO

MUD RECORD

TIME				
WEIGHT				
VISC				
W.L.-C.C.				
FLTR. CK.				
PH				
SD. CONT.				

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

DAY TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD	
	STANDS DP	FT.	RUN NO.	
	SNGLS. DP	FT.	SIZE	
	D.C. ID / OD	FT.	MFG.	
	RMR BODY OD	FT.	TYPE	
	STB BODY OD	FT.	NOZ. NO / 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)	ROTARY R.P.M.	WT. ON BIT 1000#	PUMP PRESS.	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN

DEVIATION RECORD:	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

REMARKS 8 AM 8 PM 12 hrs. Tear out

Driller: E. Hibbard

Derrick: J. Elliott

Floor: J. Desnoyers 4 hrs.) R. Dike & Robinson W. Barbes.

Mechanic: W Harbes.

MUD RECORD

TIME				
WEIGHT				
VISC				
W.L.-C.C.				
FLTR. CK.				
PH				
SD. CONT.				

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

EVENING TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD	
	STANDS DP	FT.	RUN NO	
	SNGLS. DP	FT.	SIZE	
	D.C ID / OD	FT.	MFG.	
	RMR BODY OD	FT.	TYPE	
	STB BODY OD	FT.	NOZ. NO. / 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)	ROTARY R.P.M.	WT. ON BIT 1000#	PUMP PRESS	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN

DEVIATION RECORD:	DEPTH	DEV.	DIRECTION	DEPTH	DEV	DIRECTION	DEPTH	DEV	DIRECTION

REMARKS

MUD RECORD

TIME				
WEIGHT				
VISC				
W.L.-C.C.				
FLTR CK.				
PH				
SD. CONT				

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

C.P.—38 (10/63) **DAILY DRILLING REPORT** REPORT NO. DATE July 7/65

OPERATOR	LOCATION LSD. SEC. TWP. RGE. W.	WELL NAME No.	PROVINCE
SHELL CANADA LIMITED		Pouce Coupe 1-46	B.C.

CONTRACTOR	RIG No.	DRILL PIPE STRING NO. SIZE	TOOL JOINT OD / TYPE THD.
Ridge Dr. Drlg	6		

OPERATOR'S REPRESENTATIVE: [illegible] CONTRACTOR'S TOOL PUSHER: [illegible]

PUMPS

NO.	MANUFACTURER	TYPE	STROKE LENGTH
1.			
2.			
3.			

CASING & LINER RECORD

SIZE	WT. & GR.	DEPTH SET FROM	DEPTH SET TO	PERFORATIONS FROM	PERFORATIONS TO	CEMENT USED	OTHER

TIME DISTRIBUTION—HOURS

	MORN	DAY	EVE
DRILLING ACTUAL			
REAMING			
CIRCULATING			
TRIPS			
DEVIATION SURVEY			
TEST B.O.P			
CUT OFF DRILL LINE			
REPAIR RIG			
CORING			
WIRE LINE LOGGING			
OTHER			
FISHING			
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

WIRE LINE RECORD

REEL NO

NO OF LINES SIZE

FEET SLIPPED

FEET CUT OFF

PRESENT LENGTH

TON MI. or TRIPS SINCE LAST CUT

CUMULATIVE TON MI. or TRIPS

NO. OF DAYS FROM SPUD

CUMULATIVE ROTATING HRS.

MORNING TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD	
	STANDS DP	FT.	RUN NO.	
	SNGLS. DP	FT.	SIZE	
	D.C. ID / OD	FT.	MFG.	
	RMR BODY OD	FT.	TYPE	
	STB BODY OD	FT.	NOZ. NO. / 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 J. Hubbard

HRS. DRLD.	CORE NO.	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT. ON BIT 1000#	PUMP PRESS.	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN

DEVIATION RECORD: DEPTH / DEV. / DIRECTION / DEPTH / DEV. / DIRECTION / DEPTH / DEV. / DIRECTION

REMARKS

800 hrs TEAR OUT
DRILLER - J. HIBBARD
DERRICK - S. TOKER
FLOOR - B. DAHL - R. DURASSA - E. PRATO
12 hrs

MUD RECORD

TIME			
WEIGHT			
VISC			
W.L.-C.C.			
FLTR. CK.			
PH			
SD. CONT.			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

DAY TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD	
	STANDS DP	FT.	RUN NO.	
	SNGLS. DP	FT.	SIZE	
	D.C. ID / OD	FT.	MFG.	
	RMR BODY OD	FT.	TYPE	
	STB BODY OD	FT.	NOZ. NO / 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 [illegible]

HRS. DRLD.	CORE NO.	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT. ON BIT 1000#	PUMP PRESS.	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN

DEVIATION RECORD: DEPTH / DEV. / DIRECTION / DEPTH / DEV. / DIRECTION / DEPTH / DEV. / DIRECTION

REMARKS

800 800 Tear out & move to high ground
Driller - [illegible]
Derrick - Elliott
Floor - St. Denoyers. R. Dika - Robinson
12 hrs

MUD RECORD

TIME			
WEIGHT			
VISC			
W.L.-C.C.			
FLTR. CK.			
PH			
SD. CONT.			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

EVENING TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD	
	STANDS DP	FT.	RUN NO	
	SNGLS. DP	FT.	SIZE	
	D.C ID / OD	FT.	MFG.	
	RMR BODY OD	FT.	TYPE	
	STB BODY OD	FT.	NOZ. NO. / 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)	ROTARY R.P.M.	WT. ON BIT 1000#	PUMP PRESS	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN

DEVIATION RECORD: DEPTH / DEV. / DIRECTION / DEPTH / DEV / DIRECTION / DEPTH / DEV / DIRECTION

REMARKS

MUD RECORD

TIME			
WEIGHT			
VISC			
W.L.-C.C.			
FLTR CK.			
PH			
SD. CONT			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

C.P.—38 (10/63) **DAILY DRILLING REPORT** REPORT NO. 117 DATE July 6/65

OPERATOR: SHELL CANADA LIMITED | LOCATION LSD. SEC. TWP. RGE. W. | WELL NAME: SHELL Clover Bar No. 1-46 | PROVINCE: N.W.T.

CONTRACTOR: FREEWAY DRLG | RIG No. 6 | DRILL PIPE STRING NO. 3 SIZE 3½" | TOOL JOINT OD | TYPE THD.

OPERATOR'S REPRESENTATIVE: B Lamb | CONTRACTOR'S TOOL PUSHER: L Burnside

PUMPS

NO.	MANUFACTURER	TYPE	STROKE LENGTH
1.			
2.			
3.			

CASING & LINER RECORD

SIZE	WT. & GR.	DEPTH SET FROM	DEPTH SET TO	PERFORATIONS FROM	PERFORATIONS TO	CEMENT USED	OTHER

TIME DISTRIBUTION—HOURS

	MORN	DAY	EVE
DRILLING ACTUAL			
REAMING			
CIRCULATING			
TRIPS			
DEVIATION SURVEY			
TEST B.O.P			
CUT OFF DRILL LINE			
REPAIR RIG			
CORING			
WIRE LINE LOGGING			
OTHER			
FISHING			
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

WIRE LINE RECORD

REEL NO

NO OF LINES SIZE

FEET SLIPPED

FEET CUT OFF

PRESENT LENGTH

TON MI. or TRIPS SINCE LAST CUT

CUMULATIVE TON MI. or TRIPS

NO. OF DAYS FROM SPUD

CUMULATIVE ROTATING HRS.

MORNING TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD	
	STANDS DP	FT.	RUN NO.	
	SNGLS. DP	FT.	SIZE	
	D.C. ID / OD	FT.	MFG.	
			TYPE	
	RMR BODY OD	FT.	NOZ. NO.	
	STB BODY OD	FT.	NOZ. 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: J. Libbard

HRS. DRLD.	CORE NO.	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT. ON BIT 1000#	PUMP PRESS.	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN

DEVIATION RECORD: | DEPTH | DEV. | DIRECTION | DEPTH | DEV. | DIRECTION | DEPTH | DEV. | DIRECTION

REMARKS

Wind [illegible] TEAR OUT 12 hrs.

Driller: E. Wilkenshoy

Derrick: C. Elliott

Floor: V. Rogers

Floor: R. Dikan E Robinson sd Bowles

MUD RECORD

TIME				
WEIGHT				
VISC				
W.L.-C.C.				
FLTR. CK.				
PH				
SD. CONT.				

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

DAY TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD	
	STANDS DP	FT.	RUN NO.	
	SNGLS. DP	FT.	SIZE	
	D.C. ID / OD	FT.	MFG.	
			TYPE	
	RMR BODY OD	FT.	NOZ. NO	
	STB BODY OD	FT.	NOZ. 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)	ROTARY R.P.M.	WT. ON BIT 1000#	PUMP PRESS.	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN

DEVIATION RECORD: | DEPTH | DEV. | DIRECTION | DEPTH | DEV. | DIRECTION | DEPTH | DEV. | DIRECTION

REMARKS

8:00 8:00 12 hrs

Driller: T Hibbard S.

Derrick: S Taker

Floor: R Dahl B Turcotte, E Prato

Mechanic: W Hardie

MUD RECORD

TIME				
WEIGHT				
VISC				
W.L.-C.C.				
FLTR. CK.				
PH				
SD. CONT.				

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

EVENING TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD	
	STANDS DP	FT.	RUN NO	
	SNGLS. DP	FT.	SIZE	
	D.C ID / OD	FT.	MFG.	
			TYPE	
	RMR BODY OD	FT.	NOZ. NO.	
	STB BODY OD	FT.	NOZ. 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)	ROTARY R.P.M.	WT. ON BIT 1000#	PUMP PRESS	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN

DEVIATION RECORD: | DEPTH | DEV. | DIRECTION | DEPTH | DEV | DIRECTION | DEPTH | DEV | DIRECTION

REMARKS

MUD RECORD

TIME				
WEIGHT				
VISC				
W.L.-C.C.				
FLTR CK.				
PH				
SD. CONT				

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

C.P.—38 (10/63)

DAILY DRILLING REPORT

REPORT NO. 111 DATE July 5

OPERATOR: SHELL CANADA LIMITED	LOCATION LSD.	SEC.	TWP.	RGE. W.	WELL NAME: Shell Cloverleaf	No. 1-46	PROVINCE N.W.T.
CONTRACTOR: Recap Drilling	RIG No. 6	DRILL PIPE STRING NO. SIZE	TOOL JOINT OD / TYPE THD.				
OPERATOR'S REPRESENTATIVE: W.B. Linville	CONTRACTOR'S TOOL PUSHER: L.E. Burnside						

PUMPS

NO.	MANUFACTURER	TYPE	STROKE LENGTH
1.			
2.			
3.			

CASING & LINER RECORD

SIZE	WT. & GR.	DEPTH SET FROM	DEPTH SET TO	PERFORATIONS FROM	PERFORATIONS TO	CEMENT USED	OTHER

TIME DISTRIBUTION—HOURS

	MORN	DAY	EVE
DRILLING ACTUAL			
REAMING			
CIRCULATING			
TRIPS			
DEVIATION SURVEY			
TEST B.O.P			
CUT OFF DRILL LINE			
REPAIR RIG			
CORING			
WIRE LINE LOGGING			
OTHER			
FISHING			
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

WIRE LINE RECORD

REEL NO

NO OF LINES SIZE

FEET SLIPPED

FEET CUT OFF

PRESENT LENGTH

TON MI. or TRIPS SINCE LAST CUT

CUMULATIVE TON MI. or TRIPS

NO. OF DAYS FROM SPUD

CUMULATIVE ROTATING HRS.

MORNING TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD	
	STANDS DP	FT.	RUN NO.	
	SNGLS. DP	FT.	SIZE	
	D.C. ID / OD	FT.	MFG. / TYPE	
	RMR BODY OD	FT.	NOZ. NO. / SIZE	
	STB BODY OD	FT.		
	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: L. Wellaughby

HRS. DRLD.	CORE NO.	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT. ON BIT 1000#	PUMP PRESS.	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN

DEVIATION RECORD:

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

REMARKS

Tear out 12" - 8"

T.J. Pollard 6 PM

W.B. Linville

MUD RECORD

TIME				
WEIGHT				
VISC				
W.L.-C.C.				
FLTR. CK.				
PH				
SD. CONT.				

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

DAY TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD	
	STANDS DP	FT.	RUN NO.	
	SNGLS. DP	FT.	SIZE	
	D.C. ID / OD	FT.	MFG. / TYPE	
	RMR BODY OD	FT.	NOZ. NO / SIZE	
	STB BODY OD	FT.		
	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: L. Wellaughby

HRS. DRLD.	CORE NO.	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT. ON BIT 1000#	PUMP PRESS.	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN

DEVIATION RECORD:

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

REMARKS

8:00 4:00 TEAR OUT & ROAD OUT MUDWELLS

MUD RECORD

TIME				
WEIGHT				
VISC				
W.L.-C.C.				
FLTR. CK.				
PH				
SD. CONT.				

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

EVENING TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD	
	STANDS DP	FT.	RUN NO	
	SNGLS. DP	FT.	SIZE	
	D.C ID / OD	FT.	MFG. / TYPE	
	RMR BODY OD	FT.	NOZ. NO. / SIZE	
	STB BODY OD	FT.		
	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: L. Hubbard

HRS. DRLD.	CORE NO.	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT. ON BIT 1000#	PUMP PRESS	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN

DEVIATION RECORD:

DEPTH	DEV.	DIRECTION	DEPTH	DEV	DIRECTION	DEPTH	DEV	DIRECTION

REMARKS

12:00 TEAR OUT

MUD RECORD

TIME				
WEIGHT				
VISC				
W.L.-C.C.				
FLTR CK.				
PH				
SD. CONT				

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

C.P.—38 (10/63)

DAILY DRILLING REPORT

REPORT NO. | DATE July 4

OPERATOR: SHELL CANADA LIMITED

LOCATION LSD. SEC. TWP. RGE. W.

WELL NAME: Shell Cloverleaf No. 1-46

PROVINCE: N.W.T.

CONTRACTOR: Regent Drilling | RIG No.

DRILL PIPE STRING NO. SIZE | TOOL JOINT OD | TYPE THD.

OPERATOR'S REPRESENTATIVE: B. Cowle

CONTRACTOR'S TOOL PUSHER: L. Bannister

PUMPS

NO.	MANUFACTURER	TYPE	STROKE LENGTH
1.	Emsco		
2.			
3.			

CASING & LINER RECORD

SIZE	WT. & GR.	DEPTH SET FROM	DEPTH SET TO	PERFORATIONS FROM	PERFORATIONS TO	CEMENT USED	OTHER

TIME DISTRIBUTION—HOURS

	MORN	DAY	EVE
DRILLING ACTUAL			
REAMING			
CIRCULATING			
TRIPS			
DEVIATION SURVEY			
TEST B.O.P			
CUT OFF DRILL LINE			
REPAIR RIG			
CORING			
WIRE LINE LOGGING			
OTHER	2		
FISHING			
COMPLETING (A) PERFORATING			
(B) RUNNING TUBING			
(C) SWABBING			
(D) TESTING			
(E) ACIDIZING			
(F) ADDITIONAL			
TOTALS	4		

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. or TRIPS SINCE LAST CUT

CUMULATIVE TON MI. or TRIPS

NO. OF DAYS FROM SPUD

CUMULATIVE ROTATING HRS.

MORNING TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD	
	STANDS DP	FT.	RUN NO.	
	SNGLS. DP	FT.	SIZE	
	D.C. ID / OD	FT.	MFG. / TYPE	
	RMR BODY OD	FT.	NOZ. NO. / SIZE	
	STB BODY OD	FT.		
	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: Emerson Shelby

HRS. DRLD.	CORE NO.	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT. ON BIT 1000#	PUMP PRESS.	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN

DEVIATION RECORD:

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

REMARKS

12:00–2:00 Try to shoot casing & shot casing
2:00–3:30 Tear out Sperry.
3:30–7:00 Lay down 27 jts casing 871 ft.
7:00–8:00 Lay down pipe

MUD RECORD

TIME				
WEIGHT				
VISC				
W.L.-C.C.				
FLTR. CK.				
PH				
SD. CONT.				

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

DAY TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD	
	STANDS DP	FT.	RUN NO.	
	SNGLS. DP	FT.	SIZE	
	D.C. ID / OD	FT.	MFG. / TYPE	
	RMR BODY OD	FT.	NOZ. NO / SIZE	
	STB BODY OD	FT.		
	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: J. Hibbard

HRS. DRLD.	CORE NO.	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT. ON BIT 1000#	PUMP PRESS.	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN

DEVIATION RECORD:

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

REMARKS

2:00 10:00 Row in & Lay down pipe
10:00 12:00 Rig to Run Plug Run Plug # 4 @ 930 ft. 20 SKs Perflow
12:00 1:00 Run Plug & Displace Cmt Plug Down 1:00 PM.
1:00 3:00 Lay Down Pipe W.O.C. Lay down pipe
3:00 4:00 Tear out Haliberton Units

MUD RECORD

TIME				
WEIGHT				
VISC				
W.L.-C.C.				
FLTR. CK.				
PH				
SD. CONT.				

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

EVENING TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD	
	STANDS DP	FT.	RUN NO	
	SNGLS. DP	FT.	SIZE	
	D.C ID / OD	FT.	MFG. / TYPE	
	RMR BODY OD	FT.	NOZ. NO. / SIZE	
	STB BODY OD	FT.		
	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)	ROTARY R.P.M.	WT. ON BIT 1000#	PUMP PRESS	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN

DEVIATION RECORD:

DEPTH	DEV.	DIRECTION	DEPTH	DEV	DIRECTION	DEPTH	DEV	DIRECTION

REMARKS

6:00 8:00 TEAR OUT
8:00 9:00 Run in Lid Plug # 4 @ 695 ft w/ 4 11
9:00 12:00 Pull out Lay down pipe, Kelly etc.
Run 10 SKs Cement in Top of Casing
Will on Plat.
Run 3 SKs on top of Plate
5 SKs in Mouse hole 5 SKs in Rat Hole

MUD RECORD

TIME				
WEIGHT				
VISC				
W.L.-C.C.				
FLTR. CK.				
PH				
SD. CONT				

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

C.P.—38 (10/63) **DAILY DRILLING REPORT** REPORT NO. DATE July 3/65

OPERATOR: SHELL CANADA LIMITED			LOCATION LSD.	SEC.	TWP.	RGE.	W.	WELL NAME: Shell Cloverleaf			No. 1-46		PROVINCE: N.W.T.						
CONTRACTOR: Regent Drilling	RIG No. 6	DRILL PIPE STRING NO. SIZE	TOOL JOINT OD / TYPE THD.																
OPERATOR'S REPRESENTATIVE: W.B. Lumb		CONTRACTOR'S TOOL PUSHER: C. Bennett																	

PUMPS

NO.	MANUFACTURER	TYPE	STROKE LENGTH
1.	Emsco	D-375	16"
2.	Emsco	D-500	16"
3.			

CASING & LINER RECORD	SIZE	WT. & GR.	DEPTH SET FROM	DEPTH SET TO	PERFORATIONS FROM	PERFORATIONS TO	CEMENT USED	OTHER

TIME DISTRIBUTION—HOURS

	MORN	DAY	EVE
DRILLING ACTUAL			
REAMING			
CIRCULATING			
TRIPS			
DEVIATION SURVEY			
TEST B.O.P			
CUT OFF DRILL LINE			
REPAIR RIG			
CORING			
WIRE LINE LOGGING			
OTHER	8		
FISHING			
COMPLETING (A) PERFORATING			
(B) RUNNING TUBING			
(C) SWABBING			
(D) TESTING			
(E) ACIDIZING			
(F) ADDITIONAL			
TOTALS	8		

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. or TRIPS SINCE LAST CUT

CUMULATIVE TON MI. or TRIPS

NO. OF DAYS FROM SPUD

CUMULATIVE ROTATING HRS.

MORNING TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD	
	STANDS DP	FT.	RUN NO.	
	SNGLS. DP	FT.	SIZE	
	D.C. ID / OD	FT.	MFG.	
			TYPE	
	RMR BODY OD	FT.	NOZ. NO.	
	STB BODY OD	FT.	NOZ. 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 E. Willoughby

HRS. DRLD.	CORE NO.	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT. ON BIT 1000#	PUMP PRESS.	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN

DEVIATION RECORD:

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

REMARKS

8:00 W.O.B. 12^0 - 5^0

Tag plug #3 @ 6946' W/40M# wt. 5^0 - 6^0

Pull out lay down pipe. 6^0 - 8^0

MUD RECORD				
TIME				
WEIGHT				
VISC				
W.L.-C.C.				
FLTR. CK.				
PH				
SD. CONT.				

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

DAY TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD	
	STANDS DP	FT.	RUN NO.	
	SNGLS. DP	FT.	SIZE	
	D.C. ID / OD	FT.	MFG.	
			TYPE	
	RMR BODY OD	FT.	NOZ. NO	
	STB BODY OD	FT.	NOZ. 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 J. Hilford

HRS. DRLD.	CORE NO.	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT. ON BIT 1000#	PUMP PRESS.	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN

DEVIATION RECORD:

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

REMARKS

8:00 9:00 LAY DOWN PIPE

9:00 10:00 RIG TOOLS TO FIND FREE POINT IN CASING

10:00 1:00 TEAR OUT BOPS.

MUD RECORD				
TIME				
WEIGHT				
VISC				
W.L.-C.C.				
FLTR. CK.				
PH				
SD. CONT.				

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

EVENING TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD	
	STANDS DP	FT.	RUN NO	
	SNGLS. DP	FT.	SIZE	
	D.C. ID / OD	FT.	MFG.	
			TYPE	
	RMR BODY OD	FT.	NOZ. NO.	
	STB BODY OD	FT.	NOZ. 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)	ROTARY R.P.M.	WT. ON BIT 1000#	PUMP PRESS	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN

DEVIATION RECORD:

DEPTH	DEV.	DIRECTION	DEPTH	DEV	DIRECTION	DEPTH	DEV	DIRECTION

REMARKS

4:00 6:00 FINISH TEARING OUT BOPS & LAY DOWN STACK

6:00 12:00 CHECK FOR FREE POINT IN CASING

Free Pt. 900 ft. rig to shoot casing

MUD RECORD				
TIME				
WEIGHT				
VISC				
W.L.-C.C.				
FLTR. CK.				
PH				
SD. CONT				

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

C.P.—38 (10/63) **DAILY DRILLING REPORT** REPORT NO. DATE July 2/65

OPERATOR	LOCATION LSD.	SEC.	TWP.	RGE.	W.	WELL NAME	No.	PROVINCE
SHELL CANADA LIMITED						Mavis Lot	1-46	Alta.

CONTRACTOR: Trigwell — RIG No. 6 — DRILL PIPE STRING NO. SIZE — TOOL JOINT OD — TYPE THD.

OPERATOR'S REPRESENTATIVE: R B Cumbo — CONTRACTOR'S TOOL PUSHER: L Bernardo

PUMPS

NO.	MANUFACTURER	TYPE	STROKE LENGTH
1.	Lapeer	D 700	16
2.	Lapeer	D 500	16
3.			

CASING & LINER RECORD

SIZE	WT. & GR.	DEPTH SET FROM	DEPTH SET TO	PERFORATIONS FROM	PERFORATIONS TO	CEMENT USED	OTHER

TIME DISTRIBUTION—HOURS

	MORN	DAY	EVE
DRILLING ACTUAL			
REAMING			
CIRCULATING			
TRIPS			
DEVIATION SURVEY			
TEST B.O.P			
CUT OFF DRILL LINE			
REPAIR RIG			
CORING			
WIRE LINE LOGGING			
OTHER			
FISHING			
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

WIRE LINE RECORD

REEL NO

NO OF LINES SIZE

FEET SLIPPED

FEET CUT OFF

PRESENT LENGTH

TON MI. or TRIPS SINCE LAST CUT

CUMULATIVE TON MI. or TRIPS

NO. OF DAYS FROM SPUD

CUMULATIVE ROTATING HRS.

MORNING TOUR

NO.	DRILLING ASSEMBLY	FT.	BIT RECORD	
	STANDS DP	FT.	RUN NO.	
	SNGLS. DP	FT.	SIZE	
	D.C. ID / OD	FT.	MFG.	
			TYPE	
	RMR BODY OD	FT.	NOZ. NO.	
	STB BODY OD	FT.	NOZ. 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: L McIntosh

HRS. DRLD.	CORE NO.	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT. ON BIT 1000#	PUMP PRESS.	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN

DEVIATION RECORD:

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

REMARKS

1200	130	Run in
130	730	Clean out to 10,600 & circ.
730	500	Pull out & circ.
500	800	Pull out & lay down L. Collar

MUD RECORD

TIME				
WEIGHT				
VISC				
W.L.-C.C.				
FLTR. CK.				
PH				
SD. CONT.				

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

DAY TOUR

NO.	DRILLING ASSEMBLY	FT.	BIT RECORD	
	STANDS DP	FT.	RUN NO.	
	SNGLS. DP	FT.	SIZE	
	D.C. ID / OD	FT.	MFG.	
			TYPE	
	RMR BODY OD	FT.	NOZ. NO	
	STB BODY OD	FT.	NOZ. 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)	ROTARY R.P.M.	WT. ON BIT 1000#	PUMP PRESS.	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN

DEVIATION RECORD:

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

REMARKS

800	1045	Lay down L. Collar
1045	1145	Run in
1145	100	Slip & cut line
100	300	Finish in
300	800	Circ. to plug

MUD RECORD

TIME				
WEIGHT				
VISC				
W.L.-C.C.				
FLTR. CK.				
PH				
SD. CONT.				

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

EVENING TOUR

NO.	DRILLING ASSEMBLY	FT.	BIT RECORD	
	STANDS DP	FT.	RUN NO	
	SNGLS. DP	FT.	SIZE	
	D.C. ID / OD	FT.	MFG.	
			TYPE	
	RMR BODY OD	FT.	NOZ. NO.	
	STB BODY OD	FT.	NOZ. 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: P. Wallace

HRS. DRLD.	CORE NO.	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT. ON BIT 1000#	PUMP PRESS	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN

DEVIATION RECORD:

DEPTH	DEV.	DIRECTION	DEPTH	DEV	DIRECTION	DEPTH	DEV	DIRECTION

REMARKS

Run plug #2 4" - 5"
Pull up & 705' circ. 5" - 7"
Run plug #3 7" - 9"
W.O.C. / Lay down pipe 9" - 12"

Plug #2
10545' - 10250'
160 sks. Portland cement 0.2% HR4

Plug #3 7850' - 6950' 50 sks Portland cement

MUD RECORD

TIME				
WEIGHT				
VISC				
W.L.-C.C.				
FLTR. CK.				
PH				
SD. CONT				

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

C.P.—38 (10/63) **DAILY DRILLING REPORT** REPORT NO. 107 DATE July 1/65

OPERATOR: SHELL CANADA LIMITED | LOCATION LSD. SEC. TWP. RGE. W4 | WELL NAME: Shell Caroline Leaf No. 1-46 | PROVINCE: NWT

CONTRACTOR: Precht Drlg Co | RIG No. 6 | DRILL PIPE STRING NO. SIZE: 2 5" | TOOL JOINT: 6 1/4 OD, TYPE THD. X-H

OPERATOR'S REPRESENTATIVE | CONTRACTOR'S TOOL PUSHER: G Maynard

PUMPS

NO.	MANUFACTURER	TYPE	STROKE LENGTH
1.	Emsco	D-700	16
2.	Emsco	D-500	16
3.			

CASING & LINER RECORD

SIZE	WT. & GR.	DEPTH SET FROM	DEPTH SET TO	PERFORATIONS FROM	PERFORATIONS TO	CEMENT USED	OTHER
9 5/8		0	1004				

TIME DISTRIBUTION—HOURS

	MORN	DAY	EVE
DRILLING ACTUAL			
REAMING			
CIRCULATING			
TRIPS	4 1/2		
DEVIATION SURVEY			
TEST B.O.P			
CUT OFF DRILL LINE	1/2		
REPAIR RIG			
CORING			
WIRE LINE LOGGING			
OTHER	2		
FISHING			
COMPLETING (A) PERFORATING			
(B) RUNNING TUBING			
(C) SWABBING			
(D) TESTING	1 1/4		
(E) ACIDIZING			
(F) ADDITIONAL			
TOTALS	8		

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. or TRIPS SINCE LAST CUT

CUMULATIVE TON MI. or TRIPS

NO. OF DAYS FROM SPUD

CUMULATIVE ROTATING HRS.

MORNING TOUR

NO.	DRILLING ASSEMBLY	FT.	BIT RECORD	
	STANDS DP	FT.	RUN NO.	
	SNGLS. DP	FT.	SIZE	
	D.C. ID / OD	FT.	MFG.	
			TYPE	
	RMR BODY OD	FT.	NOZ. NO.	
	STB BODY OD	FT.	NOZ. 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: G McIntosh

HRS. DRLD.	CORE NO.	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT. ON BIT 1000#	PUMP PRESS.	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN

DEVIATION RECORD:

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

REMARKS

1200	100	Run in Hole
100	330	repair air line to High Pressure through Hydromatic
330	530	Trip in Hole
530	800	Head up Testing

DST No 4B. Hook Wall Standoff 10454 - 10567. - Hook Wall and 10585'

MUD RECORD

TIME				
WEIGHT				
VISC				
W.L.-C.C.				
FLTR. CK.				
PH				
SD. CONT.				

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

DAY TOUR

NO.	DRILLING ASSEMBLY	FT.	BIT RECORD	
	STANDS DP	FT.	RUN NO.	
	SNGLS. DP	FT.	SIZE	
	D.C. ID / OD	FT.	MFG.	
			TYPE	
	RMR BODY OD	FT.	NOZ. NO.	
	STB BODY OD	FT.	NOZ. 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: J. Nibbard

HRS. DRLD.	CORE NO.	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT. ON BIT 1000#	PUMP PRESS.	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN

DEVIATION RECORD:

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

REMARKS

800	900	TESTING
900	1 30	PULL OUT (SLOWLY)
1 30	3 30	LAY DOWN TESTER FINISH TESTING
3 30	4 00	CUT & SLIP LINE Good Test.

DST 4B. 10434-10567 Straddle w Hook Wall @ 10584'
T.O. 60m 15i 15m FSI 60m Recovery 1960' of water Cushion + 18' of muddy water (weak blue dirty flavor) = 200ppm NaCl Pressures IHMH 4508 IFP 1260
IFP = FFP = 800psi FSI 3605 FHMH 4490psi Bomb depth 10437' Hole

MUD RECORD

TIME				
WEIGHT				
VISC				
W.L.-C.C.				
FLTR. CK.				
PH				
SD. CONT.				

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
N.C. = 1960'			

EVENING TOUR

NO.	DRILLING ASSEMBLY	FT.	BIT RECORD	
	STANDS DP	FT.	RUN NO	
	SNGLS. DP	FT.	SIZE	
	D.C. ID / OD	FT.	MFG.	
			TYPE	
	RMR BODY OD	FT.	NOZ. NO.	
	STB BODY OD	FT.	NOZ. 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)	ROTARY R.P.M.	WT. ON BIT 1000#	PUMP PRESS.	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN

DEVIATION RECORD:

DEPTH	DEV.	DIRECTION	DEPTH	DEV	DIRECTION	DEPTH	DEV	DIRECTION

REMARKS

400	430	CUT & SLIP LINE
430	532	RUN IN COLLARS & ID STDS.
532	1100	WAIT ON ORDERS
1100	1200	Run in

MUD RECORD

TIME				
WEIGHT				
VISC				
W.L.-C.C.				
FLTR. CK.				
PH				
SD. CONT				

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

C.P.—38 (10/63) **DAILY DRILLING REPORT** REPORT NO. 106 DATE JUNE 30/65

OPERATOR: SHELL CANADA LIMITED	LOCATION LSD. SEC. TWP. RGE. W.	WELL NAME: SHELL CLOVERLEAF	No. 1-46	PROVINCE N.W.T.
CONTRACTOR: REBEL DRLG	RIG No. 6	DRILL PIPE STRING NO. 5 SIZE 3½	TOOL JOINT 6 1/4 OD	TYPE THD. X-H			
OPERATOR'S REPRESENTATIVE: Elliott	CONTRACTOR'S TOOL PUSHER: R. Magnan						

PUMPS

NO.	MANUFACTURER	TYPE	STROKE LENGTH
1.	EMSCO	D-700	16
2.	EMSCO	D-500	16
3.			

CASING & LINER RECORD

SIZE	WT. & GR.	DEPTH SET FROM	DEPTH SET TO	PERFORATIONS FROM	PERFORATIONS TO	CEMENT USED	OTHER
9⅝		0	7004				

TIME DISTRIBUTION—HOURS

	MORN	DAY	EVE
DRILLING ACTUAL			
REAMING			
CIRCULATING			
TRIPS	3½		
DEVIATION SURVEY			
TEST B.O.P			
CUT OFF DRILL LINE	¾		
REPAIR RIG			
CORING			
WIRE LINE LOGGING			
OTHER	3¾		
FISHING			
COMPLETING (A) PERFORATING			
(B) RUNNING TUBING			
(C) SWABBING			
(D) TESTING			
(E) ACIDIZING			
(F) ADDITIONAL			
TOTALS	8		

TIME SUMMARY (OFFICE USE ONLY)

CONTRACTOR'S TIME HRS:

OPERATOR'S TIME:

HRS. W/D.P: 24 hrs

HRS WO/D.P:

HRS STANDBY

WIRE LINE RECORD

REEL NO

NO OF LINES SIZE

FEET SLIPPED

FEET CUT OFF

PRESENT LENGTH

TON MI. or TRIPS SINCE LAST CUT

CUMULATIVE TON MI. or TRIPS

NO. OF DAYS FROM SPUD

CUMULATIVE ROTATING HRS.

MORNING TOUR

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

DRILLER: J. Wibord

HRS. DRLD.	CORE NO.	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT. ON BIT 1000#	PUMP PRESS.	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN

DEVIATION RECORD:

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

REMARKS

12⁰⁰	12¹⁵	FINISH PULLING OUT
12¹⁵	12³⁰	RIG SERVICE & GREASE CROWN & BLOCKS
12³⁰	1⁰⁰	MAKE UP TESTER
4⁰⁰	4³⁰	ROM IN COLLARS & 17 STDS. PIPE WITH WATER CUSHION
4³⁰	5³⁰	CUT & SLIP LINE
5³⁰	8⁰⁰	ROM IN REPLACING CAT HEAD CONTROL 1/4 Kr - REPAIR

MUD RECORD

TIME				
WEIGHT				
VISC				
W.L.-C.C.				
FLTR. CK.				
PH				
SD. CONT.				

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

DAY TOUR

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

DRILLER: G. McIntosh

HRS. DRLD.	CORE NO.	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT. ON BIT 1000#	PUMP PRESS.	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN

DEVIATION RECORD:

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

REMARKS

800	900	Hook up Lay to all packers
900	200	Hoist out (4 motors) DST #a 10475-10585 Recovered 1 of 3 packers
200	300	Break lay down packer Crossed plug #2 20'
300	400	Unplug D.C. Misrun.

MUD RECORD

TIME				
WEIGHT				
VISC				
W.L.-C.C.				
FLTR. CK.				
PH				
SD. CONT.				

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

EVENING TOUR

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

DRILLER

HRS. DRLD.	CORE NO.	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT. ON BIT 1000#	PUMP PRESS.	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN

DEVIATION RECORD:

DEPTH	DEV.	DIRECTION	DEPTH	DEV	DIRECTION	DEPTH	DEV	DIRECTION

REMARKS

400	600	UNPLUG DRILL CLOVERLEAF
600		MAKE UP TESTER

MUD RECORD

TIME				
WEIGHT				
VISC				
W.L.-C.C.				
FLTR CK.				
PH				
SD. CONT				

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

C.P.—38 (10/63) **DAILY DRILLING REPORT** REPORT NO. 105 DATE JUNE 29/65

OPERATOR	LOCATION LSD.	SEC.	TWP.	RGE.	W.	WELL NAME	No.	PROVINCE
SHELL CANADA LIMITED						SHELL CLOVERLEAF	1-46	N.W.T.

CONTRACTOR	RIG No.	DRILL PIPE STRING NO. SIZE	TOOL JOINT	
REGENT DRLG	6	5"	6 1/4 OD	TYPE THD. X-H

OPERATOR'S REPRESENTATIVE	CONTRACTOR'S TOOL PUSHER
C. Cottingir	M. Magnan

PUMPS

NO.	MANUFACTURER	TYPE	STROKE LENGTH
1.	EMSCO	D-700	16
2.	EMSCO	D-500	16
3.			

CASING & LINER RECORD

SIZE	WT. & GR.	DEPTH SET FROM	DEPTH SET TO	PERFORATIONS FROM	PERFORATIONS TO	CEMENT USED	OTHER
9-5/8		0	7004				

TIME DISTRIBUTION—HOURS

	MORN	DAY	EVE
DRILLING ACTUAL			
REAMING			
CIRCULATING	2 1/4		
TRIPS	2 1/4		
DEVIATION SURVEY			
TEST B.O.P			
CUT OFF DRILL LINE			
REPAIR RIG			
CORING			
WIRE LINE LOGGING			
OTHER	3 1/2		
FISHING			
COMPLETING (A) PERFORATING			
(B) RUNNING TUBING			
(C) SWABBING			
(D) TESTING			
(E) ACIDIZING			
(F) ADDITIONAL			
TOTALS	8		

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. or TRIPS SINCE LAST CUT

CUMULATIVE TON MI. or TRIPS

NO. OF DAYS FROM SPUD

CUMULATIVE ROTATING HRS.

MORNING TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD	
88	STANDS DP	FT.	RUN NO.	
1	SNGLS. DP	100.76-8 FT.	SIZE	
16	D.C. ID / OD	463.06	MFG.	
	RMR BODY OD	FT.	TYPE	
1	STB BODY OD	3.98 FT.	NOZ. NO. / SIZE	
1	SUBS OD	2.00 FT.	SER. NO	
	BIT OR C.B.	FT.	DEPTH OUT	
		FT.	CUMULATIVE HOURS RUN	
	KELLY DOWN	15 FT.	COND. OF BIT	
	TOTAL	10550.85 FT.	REAMER CUTTER NO.	
WT. OF STRING	900/1000 LBS.		TYPE	

DRILLER J. Wilford

HRS. DRLD.	CORE NO.	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT. ON BIT 1000#	PUMP PRESS.	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN

DEVIATION RECORD:	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

REMARKS

12⁰⁰ 12³⁰ — RUN IN TO 6000'
12³⁰ 4⁰⁰ WAIT ON ORDERS
4⁰⁰ 5¹⁵ RUN IN & SET 60,000# ON PLUG
5¹⁵ 6¹⁵ PIPE & WORK PIPE
6¹⁵ 6⁴⁵ PULL 10 STDS
6⁴⁵ 8⁰⁰ CIRCULATE & WORK PIPE

MUD RECORD

TIME				
WEIGHT				
VISC				
W.L.-C.C.				
FLTR. CK.				
PH				
SD. CONT.				

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

DAY TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD	
	STANDS DP	FT.	RUN NO.	
	SNGLS. DP	FT.	SIZE	
	D.C. ID / OD	FT.	MFG.	
	RMR BODY OD	FT.	TYPE	
	STB BODY OD	FT.	NOZ. NO. / 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 S McIntosh

HRS. DRLD.	CORE NO.	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT. ON BIT 1000#	PUMP PRESS.	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN

DEVIATION RECORD:	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

REMARKS

8⁰⁰ 4⁰⁰ CIRCULATE

Clean up Pallatype. Machine for Machining to Pins

MUD RECORD

TIME				
WEIGHT				
VISC				
W.L.-C.C.				
FLTR. CK.				
PH				
SD. CONT.				

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

EVENING TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD	
	STANDS DP	FT.	RUN NO.	
	SNGLS. DP	FT.	SIZE	
	D.C. ID / OD	FT.	MFG.	
	RMR BODY OD	FT.	TYPE	
	STB BODY OD	FT.	NOZ. NO. / 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 J. Gibbard

HRS. DRLD.	CORE NO.	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT. ON BIT 1000#	PUMP PRESS	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN

DEVIATION RECORD:	DEPTH	DEV.	DIRECTION	DEPTH	DEV	DIRECTION	DEPTH	DEV	DIRECTION

REMARKS

4⁰⁰ 4³⁰ CIRCULATE
4³⁰ 4⁴⁵ RUN IN TO BOTTOM
4⁴⁵ 5⁴⁵ DRILL OUT TO 10600
5⁴⁵ 8⁰⁰ CIRCULATE
8⁰⁰ 12⁰⁰ PULL OUT (MEASURE) IMOTOR CLUTCH SHOT

	DP 108 std + double =	10108.58
SUM.	DC. 16	459.25
	KELLY IN	17.00
		10584.83

MUD RECORD

TIME				
WEIGHT				
VISC				
W.L.-C.C.				
FLTR CK.				
PH				
SD. CONT				

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

C.P.—8 (10/63) **DAILY DRILLING REPORT** REPORT NO. 104 DATE JUNE

OPERATOR	LOCATION LSD.	SEC.	TWP.	RGE.	W.	WELL NAME	No.	PROVINCE
SHELL CANADA LIMITED						SHELL CLOVERLEAF	1-46	N.W.T

CONTRACTOR	RIG No.	DRILL PIPE STRING NO.	SIZE	TOOL JOINT	TYPE THD.
REGENT RIG	6	5		6 1/4" OD	X.H

OPERATOR'S REPRESENTATIVE

CONTRACTOR'S TOOL PUSHER

PUMPS

NO.	MANUFACTURER	TYPE	STROKE LENGTH
1.	EMSCO	D-700	16
2.	EMSCO	D-500	16
3.			

CASING & LINER RECORD

SIZE	WT. & GR.	DEPTH SET FROM	DEPTH SET TO	PERFORATIONS FROM	PERFORATIONS TO	CEMENT USED	OTHER
9 5/8		0	7004				

TIME DISTRIBUTION—HOURS

	MORN	DAY	EVE
DRILLING ACTUAL			
REAMING			
CIRCULATING			
TRIPS	1 1/2		
DEVIATION SURVEY			
TEST B.O.P			
CUT OFF DRILL LINE			
REPAIR RIG			
CORING			
WIRE LINE LOGGING			
OTHER	7		
FISHING			
COMPLETING (A) PERFORATING			
(B) RUNNING TUBING			
(C) SWABBING			
(D) TESTING	13 1/2		
(E) ACIDIZING			
(F) ADDITIONAL			
TOTALS	8		

TIME SUMMARY (OFFICE USE ONLY)

CONTRACTOR'S TIME HRS:

OPERATOR'S TIME:

HRS. W/D.P: 24 hrs.

HRS WO/D.P:

HRS STANDBY

WIRE LINE RECORD

REEL NO

NO OF LINES SIZE

FEET SLIPPED

FEET CUT OFF

PRESENT LENGTH

TON MI. or TRIPS SINCE LAST CUT

CUMULATIVE TON MI. or TRIPS

NO. OF DAYS FROM SPUD

CUMULATIVE ROTATING HRS.

MORNING TOUR

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

DRILLER J. Tiffard

HRS. DRLD.	CORE NO.	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT. ON BIT 1000#	PUMP PRESS.	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN
				TESTING								

DEVIATION RECORD: DEPTH / DEV. / DIRECTION / DEPTH / DEV. / DIRECTION / DEPTH / DEV. / DIRECTION

REMARKS

12	12	FINISH RUNNING IN
12	1	RIG UP TO TEST
1	2	TESTING
2	6	TOOL OUT (SLOWLY)
6	8	BREAK DOWN TESTER

RST No 3C 10373-10529
T.A 9 min 131 16½/min
PARTIAL MISRUN. PACKERS WERE SET
AFTER 9 min. RECOVERY
350' (32 bbl) diesel cut
muddy water <200 ppm Nacl
8.3 #/gal

MUD RECORD

TIME	
WEIGHT	
VISC	
W.L.-C.C.	
FLTR. CK.	
PH	
SD. CONT.	

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

DAY TOUR

NO.	DRILLING ASSEMBLY	FT.	BIT RECORD	
	STANDS DP	FT.	RUN NO.	
	SNGLS. DP	FT.	SIZE	
	D.C. ID / OD	FT.	MFG.	
	RMR BODY OD	FT.	TYPE	
	STB BODY OD	FT.	NOZ. NO. / 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 G McIntosh

HRS. DRLD.	CORE NO.	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT. ON BIT 1000#	PUMP PRESS.	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN

DEVIATION RECORD: DEPTH / DEV. / DIRECTION / DEPTH / DEV. / DIRECTION / DEPTH / DEV. / DIRECTION

REMARK

800	915	Break lay down packer
915	1015	Slip cut line
1015	400	Trail on orders

Clean up Gather. Palletize. Materials For Shipment To Rest

MUD RECORD

TIME	
WEIGHT	
VISC	
W.L.-C.C.	
FLTR. CK.	
PH	
SD. CONT.	

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

EVENING TOUR

NO.	DRILLING ASSEMBLY	FT.	BIT RECORD	
	STANDS DP	FT.	RUN NO	
	SNGLS. DP	FT.	SIZE	
	D.C ID / OD	FT.	MFG.	
	RMR BODY OD	FT	TYPE	
	STB BODY OD	FT.	NOZ. NO. / 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 J. Tiffard

HRS. DRLD.	CORE NO.	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT. ON BIT 1000#	PUMP PRESS	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN
						0	323		1052			2 3

Pretest Manifold

DEVIATION RECORD: DEPTH / DEV. / DIRECTION / DEPTH / DEV / DIRECTION / DEPTH / DEV. / DIRECTION

REMARKS

400	11	Wait on orders
11	13	Rig Up

Clean up Gather up Palletize Materials For shipment Wait on Rig up. for move out.

MUD RECORD

TIME	
WEIGHT	
VISC	
W.L.-C.C.	
FLTR. CK.	
SD. CONT.	

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

C.P. 38 (10/63) **DAILY DRILLING REPORT** REPORT NO. 103 DATE JUNE 27/65

OPERATOR: SHELL CANADA LIMITED | LOCATION LSD. SEC. TWP. RGE. W. | WELL NAME: SHELL PROVERBLEAK No. 1-46 | PROVINCE: N.W.T.

CONTRACTOR: REGENT DRLG. RIG No. 6 | DRILL PIPE STRING NO. 2 SIZE 5" | TOOL JOINT 6 1/4 OD TYPE THD. X.H

OPERATOR'S REPRESENTATIVE | CONTRACTOR'S TOOL PUSHER: R. MacKinnon

PUMPS

NO.	MANUFACTURER	TYPE	STROKE LENGTH
1.	EMSCO	D-700	16
2.	EMSCO	D-500	16
3.			

CASING & LINER RECORD

SIZE	WT. & GR.	DEPTH SET FROM	DEPTH SET TO	PERFORATIONS FROM	PERFORATIONS TO	CEMENT USED	OTHER
9⅝		0	7004				

TIME DISTRIBUTION—HOURS

	MORN	DAY	EVE
DRILLING ACTUAL			
REAMING			
CIRCULATING	3¾		
TRIPS	3¼		
DEVIATION SURVEY			
TEST B.O.P			
CUT OFF DRILL LINE	¾		
REPAIR RIG			
CORING			
WIRE LINE LOGGING			
OTHER			
FISHING			
COMPLETING (A) PERFORATING			
(B) RUNNING TUBING			
(C) SWABBING			
(D) TESTING			
(E) ACIDIZING			
(F) ADDITIONAL			
TOTALS	8		

TIME SUMMARY (OFFICE USE ONLY)

CONTRACTOR'S TIME HRS:

OPERATOR'S TIME:

HRS. W/D.P: 24 hrs.

HRS WO/D.P:

HRS STANDBY

WIRE LINE RECORD

REEL NO

NO. OF LINES SIZE

FEET SLIPPED

FEET CUT OFF

PRESENT LENGTH

TON MI. or TRIPS SINCE LAST CUT

CUMULATIVE TON MI. or TRIPS

NO. OF DAYS FROM SPUD

CUMULATIVE ROTATING HRS.

MORNING TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD	
113	STANDS DP	FT.	RUN NO.	
1	SNGLS. DP	10451.67 FT.	SIZE	
2	D.C. ID / OD	58.14 FT.	MFG.	
	KMR BODY OD	FT.	TYPE	
	STB BODY OD	FT.	NOZ. NO. / SIZE	
2	SUBS OD	3.88 FT.	SER. NO	
	BIT OR C.B.	FT.	DEPTH OUT	
		FT.	CUMULATIVE HOURS RUN	
	KELLY DOWN	41 FT.	COND. OF BIT	
	TOTAL	10554.61 FT.	REAMER CUTTER NO.	
	WT. OF STRING	175000 LBS.	TYPE	

DRILLER: J. Hibbard

HRS. DRLD.	CORE NO.	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT. ON BIT 1000#	PUMP PRESS.	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN

DEVIATION RECORD: DEPTH / DEV. / DIRECTION | DEPTH / DEV. / DIRECTION | DEPTH / DEV. / DIRECTION

REMARKS

12	12½	RUN TW & SET 60,000# ON PLUG
12½	1	CIRCULATE & WORK PIPE
1	1½	PULL 10 STDS.
1½	5	CIRCULATE & WORK PIPE
5	7	PULL OUT
7	8	SLIP & CUT LINE

MUD RECORD

TIME				
WEIGHT				
VISC				
W.L.-C.C.				
FLTR. CK.				
PH				
SD. CONT.				

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

DAY TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD	
	STANDS DP	FT.	RUN NO.	
	SNGLS. DP	FT.	SIZE	
	D.C. ID / OD	FT.	MFG.	
	RMR BODY OD	FT.	TYPE	
	STB BODY OD	FT.	NOZ. NO. / 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: G. McIntosh

HRS. DRLD.	CORE NO.	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT. ON BIT 1000#	PUMP PRESS.	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN

DEVIATION RECORD: DEPTH / DEV. / DIRECTION | DEPTH / DEV. / DIRECTION | DEPTH / DEV. / DIRECTION

REMARKS

800	815	SLIP CUT LINE
815	315	WAIT ON HALIBURTON TESTER
315	400	MAKE UP PACKER

MUD RECORD

TIME				
WEIGHT				
VISC				
W.L.-C.C.				
FLTR. CK.				
PH				
SD. CONT.				

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

EVENING TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD	
	STANDS DP	FT.	RUN NO	
	SNGLS. DP	FT.	SIZE	
	D.C ID / OD	FT.	MFG.	
	RMR BODY OD	FT.	TYPE	
	STB BODY OD	FT.	NOZ. NO. / 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)	ROTARY R.P.M.	WT. ON BIT 1000#	PUMP PRESS	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN

DEVIATION RECORD: DEPTH / DEV. / DIRECTION | DEPTH / DEV / DIRECTION | DEPTH / DEV / DIRECTION

REMARKS

400	830	MAKE UP PACKER
830		RUN IN (20-STD. WATER CUSION) 1800' of water cushion
		DST 36 10373-10529' Straddle by pass set Hook wall
		T.O. 9 min (packer washed by after 9 min
		I.S.I. 15 min. Recovered 1800 water cushion and 350'
		(32 bbls) of muddy water no direct fluid out. 1/4" 200 psi Blad
		(mud like drilling fluid) IHHH 5536 I.S.I. = 1611 15 min
		IFP = FFP = 726 psi Partial vacuum

MUD RECORD

TIME				
WEIGHT				
VISC				
W.L.-C.C.				
FLTR CK.				
PH				
SD. CONT				

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

C.P.—38 (10/63)

DAILY DRILLING REPORT

REPORT NO. 107 DATE June 26/65

OPERATOR: SHELL CANADA LIMITED

LOCATION LSD. SEC. TWP. RGE. W.

WELL NAME: Shell Cloverdale I-46 No.

PROVINCE: NWT

CONTRACTOR: TREBENT DRLG

RIG No.: 6

DRILL PIPE STRING NO. SIZE: 4 5"

TOOL JOINT: 6 1/4 OD, TYPE THD: 7X-H

OPERATOR'S REPRESENTATIVE: C. Clemens

CONTRACTOR'S TOOL PUSHER: L. R. Hansen

PUMPS

NO.	MANUFACTURER	TYPE	STROKE LENGTH
1.	EMSCO	D-700	16
2.	EMSCO	D-500	16
3.			

CASING & LINER RECORD

SIZE	WT. & GR.	DEPTH SET FROM	DEPTH SET TO	PERFORATIONS FROM	PERFORATIONS TO	CEMENT USED	OTHER
9⅝		0	7004	-			

TIME DISTRIBUTION — HOURS

	MORN	DAY	EVE
DRILLING ACTUAL	5		
REAMING	1/4		
CIRCULATING	1/2		
TRIPS	3		4
DEVIATION SURVEY			
TEST B.O.P			
CUT OFF DRILL LINE	3 1/4		3/4
REPAIR RIG			
CORING			
WIRE LINE LOGGING			
OTHER	2		3 1/4
FISHING			
COMPLETING (A) PERFORATING			
(B) RUNNING TUBING			
(C) SWABBING			
(D) TESTING			
(E) ACIDIZING			
(F) ADDITIONAL			
TOTALS	8		8

TIME SUMMARY (OFFICE USE ONLY)

CONTRACTOR'S TIME HRS:

OPERATOR'S TIME:

HRS. W/D.P: 24 hrs

HRS WO/D.P:

HRS STANDBY

WIRE LINE RECORD

REEL NO

NO OF LINES SIZE

FEET SLIPPED

FEET CUT OFF

PRESENT LENGTH

TON MI. or TRIPS SINCE LAST CUT

CUMULATIVE TON MI. or TRIPS

NO. OF DAYS FROM SPUD

CUMULATIVE ROTATING HRS.

MORNING TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD	
112	STANDS DP	FT.	RUN NO.	4 6
1	SNGLS. DP	10451.67 FT.	SIZE	12¼
1	D.C. ID	1	MFG.	
	D.C. OD	86.64 FT.	TYPE	
	RMR BODY OD	FT.	NOZ. NO.	
	STB BODY OD	FT.	NOZ. SIZE	
1	SUBS BIT OD	1.80 FT.	SER. NO	
	BIT OR C.B.	FT.	DEPTH OUT	
		FT.	CUMULATIVE HOURS RUN	
	KELLY DOWN	14.50 FT.	COND. OF BIT	
	TOTAL	10554.61 FT.	REAMER CUTTER NO.	
	WT. OF STRING	LBS.	TYPE	

DRILLER: J. Hilliard

HRS. DRLD.	CORE NO.	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT. ON BIT 1000#	PUMP PRESS.	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN

DEVIATION RECORD: DEPTH | DEV. | DIRECTION | DEPTH | DEV. | DIRECTION | DEPTH | DEV. | DIRECTION

REMARKS

12⁰⁰ 12³⁰ REAM TO 10554'
12³⁰ 12⁴⁵ LAY DOWN 2 SGLS. + CIRCULATE
12⁴⁵ 1⁴⁵ SET 60,000# ON PROG + POH 10 STDS.
1⁴⁵ 3¹⁵ ~~PUMP OUT~~ CIRC. + WORK PIPE
3¹⁵ 5³⁰ TOH OUT
5³⁰ 6¹⁵ SLIP & CUT LINE
6¹⁵ 8⁰⁰ PICK UP TESTER

MUD RECORD

TIME | WEIGHT | VISC | W.L.-C.C. | FLTR. CK. | PH | SD. CONT.

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

DAY TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD	
	STANDS DP	FT.	RUN NO.	
	SNGLS. DP	FT.	SIZE	
	D.C. ID		MFG.	
	D.C. OD	FT.	TYPE	
	RMR BODY OD	FT.	NOZ. NO.	
	STB BODY OD	FT.	NOZ. 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: L. McIntosh

HRS. DRLD.	CORE NO.	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT. ON BIT 1000#	PUMP PRESS.	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN

DEVIATION RECORD: DEPTH | DEV. | DIRECTION | DEPTH | DEV. | DIRECTION. | DEPTH | DEV. | DIRECTION

REMARKS

800 1100 Make up packer assy. & water cushion
1100 100 Run Tandem Runner
100 200 Try set packer
200 400 Heat

DST #36 10403 - 10494
Straddle by pass - bottom packers did not seat - misrun.

MUD RECORD

TIME | WEIGHT | VISC | W.L.-C.C. | FLTR. CK. | PH | SD. CONT.

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
		1800' water cush	

EVENING TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD	
	STANDS DP	FT.	RUN NO	
	SNGLS. DP	FT.	SIZE	
	D.C ID		MFG.	
	D.C OD	FT.	TYPE	
	RMR BODY OD	FT.	NOZ. NO.	
	STB BODY OD	FT.	NOZ. 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: J. Hilliard

HRS. DRLD.	CORE NO.	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT. ON BIT 1000#	PUMP PRESS	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN

DEVIATION RECORD: DEPTH | DEV. | DIRECTION | DEPTH | DEV | DIRECTION | DEPTH | DEV | DIRECTION

REMARKS

400 600 Heat
600 8¹⁵ Break Lay down packer
8¹⁵ 9⁰⁰ Cut & Slip Line
9⁰⁰ 9³⁰ Rig service & grease crown & blocks
9³⁰ 10⁰⁰ ~~Run Jar~~ Lay down 1 collar
10⁰⁰ 12⁰⁰ Run Jar

MUD RECORD

TIME | WEIGHT | VISC | W.L.-C.C. | FLTR. CK. | PH | SD. CONT

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

C.P.—38 (10/63)

DAILY DRILLING REPORT

REPORT NO. 101 DATE JUNE 25/65

OPERATOR	LOCATION LSD.	SEC.	TWP.	RGE.	W.	WELL NAME	No.	PROVINCE
SHELL CANADA LIMITED						SHELL CLOVERLEAF	1-46	N.W.T

CONTRACTOR	RIG No.	DRILL PIPE STRING NO.	SIZE	TOOL JOINT	TYPE THD.
REGENT DRLG.	6	2	5"	6 5/4 OD	X-H

OPERATOR'S REPRESENTATIVE	CONTRACTOR'S TOOL PUSHER
E.G. Hunger	L.R. Hansen

PUMPS

NO.	MANUFACTURER	TYPE	STROKE LENGTH
1.	EMSCO	D-700	16
2.	EMSCO	D-500	16
3.			

CASING & LINER RECORD

SIZE	WT. & GR.	DEPTH SET FROM	DEPTH SET TO	PERFORATIONS FROM	PERFORATIONS TO	CEMENT USED	OTHER
9 5/8		0	7004				

TIME DISTRIBUTION—HOURS

	MORN	DAY	EVE
DRILLING ACTUAL			
REAMING			
CIRCULATING	3½		
TRIPS	3¼		4¼
DEVIATION SURVEY			
TEST B.O.P	¼		¼
CUT. OFF DRILL LINE	¾		1¼
REPAIR RIG			
CORING			
WIRE LINE LOGGING			
OTHER	1¼		1¾
FISHING			
COMPLETING (A) PERFORATING			
(B) RUNNING TUBING			
(C) SWABBING			
(D) TESTING			
(E) ACIDIZING			
(F) ADDITIONAL			
TOTALS	8		8

TIME SUMMARY (OFFICE USE ONLY)

CONTRACTOR'S TIME HRS:

OPERATOR'S TIME:

HRS. W/D.P: 24 hrs.

HRS WO/D.P:

HRS STANDBY

WIRE LINE RECORD

REEL NO

NO OF LINES SIZE

FEET SLIPPED

FEET CUT OFF

PRESENT LENGTH

TON MI. or TRIPS SINCE LAST CUT

CUMULATIVE TON MI. or TRIPS

NO. OF DAYS FROM SPUD

CUMULATIVE ROTATING HRS.

MORNING TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD
111	STANDS DP	FT.	RUN NO.
1	SNGLS. DP	10325-46 FT.	SIZE
1	D.C. ID / OD	86.64 FT.	MFG.
	RMR BODY OD	FT.	TYPE
	STB BODY OD	FT.	NOZ. NO. / SIZE
1	SUBS OD	1.80 FT.	SER. NO
	BIT OR C.B.	FT.	DEPTH OUT
		FT.	CUMULATIVE HOURS RUN
	KELLY DOWN	41.00 FT.	COND. OF BIT
	TOTAL	10438.46 FT.	REAMER CUTTER NO.
	WT. OF STRING	LBS.	TYPE

DRILLER J. Stibbard

HRS. DRLD.	CORE NO.	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT. ON BIT 1000#	PUMP PRESS.	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN
				Plug Back T.D. 10,509 ft.								

DEVIATION RECORD:

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

REMARKS

12 00	12 30	RUN IN & SET 30000 ON PLUG
12 30	3 00	CIRCULATE & WORK PIPE
3 00	5 45	PULL OUT (MEASURE)
5 45	6 30	CUT & SLIP LINE & REPAIR OIL LINE ON DWKS
6 30	6 45	BOP CHECK
6 45	8 00	MAKE UP TESTER

MUD RECORD

TIME				
WEIGHT				
VISC				
W.L.-C.C.				
FLTR. CK.				
PH				
SD. CONT.				

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

DAY TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD
	STANDS DP	FT.	RUN NO.
	SNGLS. DP	FT.	SIZE
	D.C. ID / OD	FT.	MFG.
	RMR BODY OD	FT.	TYPE
	STB BODY OD	FT.	NOZ. NO. / 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 L. McIntosh

HRS. DRLD.	CORE NO.	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT. ON BIT 1000#	PUMP PRESS.	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN

DEVIATION RECORD:

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

REMARKS

800	1100	Make up packer assy 15 sts plus DC — Water Cushion
1100	100	Trip in Hole
100	200	Head up Eng to set packers
200	400	Hoisting packers DST 3a 10378-10509 1800' water cushion
		Plug no 2 did not hold

MUD RECORD

TIME				
WEIGHT				
VISC				
W.L.-C.C.				
FLTR. CK.				
PH				
SD. CONT.				

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

EVENING TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD
	STANDS DP	FT.	RUN NO
	SNGLS. DP	FT.	SIZE
	D.C. ID / OD	FT.	MFG.
	RMR BODY OD	FT.	TYPE
	STB BODY OD	FT.	NOZ. NO. / 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 J. Stibbard

HRS. DRLD.	CORE NO.	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT. ON BIT 1000#	PUMP PRESS	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN

DEVIATION RECORD:

DEPTH	DEV.	DIRECTION	DEPTH	DEV	DIRECTION	DEPTH	DEV.	DIRECTION

REMARKS

600	700	Trip in w/packers
700	800	Break down test
800	815	Slip & Cut Line
815	845	R.C. Service & Bop Check
845	1100	Run Jar w/ Bit
1100	1700	Break Circ-clean to 10509

MUD RECORD

TIME				
WEIGHT				
VISC				
W.L.-C.C.				
FLTR. CK.				
PH				
SD. CONT				

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

C.P.—38 (10/63) **DAILY DRILLING REPORT** REPORT NO. 100 DATE JUNE 24/65

OPERATOR	LOCATION LSD.	SEC.	TWP.	RGE.	W.	WELL NAME	No.	PROVINCE
SHELL CANADA LIMITED						SHELL CHOVERLEAF	1-46	W.C.W.T.

CONTRACTOR	RIG No.	DRILL PIPE STRING NO. SIZE	TOOL JOINT	
TEGENT DRLG	6	3 5"	6¼ OD	TYPE THD. X-H

OPERATOR'S REPRESENTATIVE: W.S. Cumbus

CONTRACTOR'S TOOL PUSHER: L. R. Hansen

PUMPS

NO.	MANUFACTURER	TYPE	STROKE LENGTH
1.	EMSCO	D-700	16
2.	EMSCO	D-700	16
3.			

CASING & LINER RECORD

SIZE	WT. & GR.	DEPTH SET FROM	DEPTH SET TO	PERFORATIONS FROM	PERFORATIONS TO	CEMENT USED	OTHER
9⅝		0	2004				

TIME DISTRIBUTION—HOURS

	MORN	DAY	EVE
DRILLING ACTUAL			
REAMING			
CIRCULATING			
TRIPS	3¼		
DEVIATION SURVEY			
TEST B.O.P			
CUT OFF DRLG LINE			
REPAIR RIG			
CORING			
WIRE LINE LOGGING			
OTHER	7¼		
FISHING			
COMPLETING (A) PERFORATING			
(B) RUNNING TUBING			
(C) SWABBING			
(D) TESTING			
(E) ACIDIZING			
(F) ADDITIONAL			
TOTALS	8		

TIME SUMMARY (OFFICE USE ONLY)

CONTRACTOR'S TIME HRS:

OPERATOR'S TIME:

HRS. W/D.P:

HRS W/O D.P:

HRS STANDBY

WIRE LINE RECORD

REEL NO

NO OF LINES SIZE

FEET SLIPPED

FEET CUT OFF

PRESENT LENGTH

TON MI. or TRIPS SINCE LAST CUT

CUMULATIVE TON MI. or TRIPS

NO. OF DAYS FROM SPUD

CUMULATIVE ROTATING HRS.

MORNING TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD	
	STANDS DP	FT.	RUN NO.	
	SNGLS. DP	FT.	SIZE	
	D.C. ID		MFG.	
	OD	FT.	TYPE	
	RMR BODY OD	FT.	NOZ. 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: J. Hilford

HRS. DRLD.	CORE NO.	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT. ON BIT 1000#	PUMP PRESS.	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN

DEVIATION RECORD: DEPTH | DEV. | DIRECTION | DEPTH | DEV. | DIRECTION | DEPTH | DEV. | DIRECTION

REMARKS

12⁰⁰ 1⁵⁰ MIX MOSS CIRC. MATERIAL THROUGH HOPPER IN PIPE
1⁵⁰ 2¹⁰ Tag Mulant Plug @ 10,787
2¹⁰ 3⁰⁰ RIG TO RUN DIESEL-GEL PLUG
3⁰⁰ 5²⁰ RUN DIESEL-GEL PLUG & DISPLACE 50 SKS C.I. 2066#
5²⁰ 6³⁰ PULL UP 5 STDS. & CIRC. RUN PLUG @ 10787
6³⁰ 6⁴⁵ RUN IN & LAY DOWN 2 SGLS
6⁴⁵ 8⁰⁰ RUN CEMENT PLUG & DISPLACE @ 10737'
115 SK. Portland Cmt Plug Down @ 8 A.M.

MUD RECORD

TIME	
WEIGHT	
VISC	
W.L.-C.C.	
FLTR. CK.	
PH	
SD. CONT.	

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
CRACKED WALNUT PLUG	150 SKS		
50 SKS GEL			
35 BBLS. DIESEL			
115 SKS CEMENT			

DAY TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD	
	STANDS DP	FT.	RUN NO.	
	SNGLS. DP	FT.	SIZE	
	D.C. ID		MFG.	
	OD	FT.	TYPE	
	RMR BODY OD	FT.	NOZ. 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: L McIntosh

HRS. DRLD.	CORE NO.	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT. ON BIT 1000#	PUMP PRESS.	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN

DEVIATION RECORD: DEPTH | DEV. | DIRECTION | DEPTH | DEV. | DIRECTION | DEPTH | DEV. | DIRECTION

REMARKS

8⁰⁰ 10⁰⁰ DISPLACE CEMENT plug pull BST one ½ Hours
10⁰⁰ 12³⁰ Head out open end
12³⁰ 2³⁰ Rig in
2³⁰ 3³⁰ Slip cut line
3⁰⁰ 4⁰⁰ Finish in Break air

MUD RECORD

TIME	
WEIGHT	
VISC	
W.L.-C.C.	
FLTR. CK.	
PH	
SD. CONT.	

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
6			

EVENING TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD	
	STANDS DP	FT.	RUN NO	
	SNGLS. DP	FT.	SIZE	
	D.C ID		MFG.	
	OD	FT.	TYPE	
	RMR BODY OD	FT.	NOZ. 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: L McIntosh

HRS. DRLD.	CORE NO.	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT. ON BIT 1000#	PUMP PRESS	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN
				Plug Back TD	10509 Ft.							

DEVIATION RECORD: DEPTH | DEV. | DIRECTION | DEPTH | DEV. | DIRECTION | DEPTH | DEV | DIRECTION

REMARKS

9⁰⁰ 8⁰⁰ Circ above plug
8⁰⁰ 8¹⁵ RUN IN & Feel Plug at (10,486)
8¹⁵ 10⁰⁰ Polish Top of Plug & CIRCULATE
10⁰⁰ 10¹² POH 7 STDS.
10¹² 11¹⁵ WORK ON COMPOUND CHAIN (W.O.C.)
11¹⁵ 12⁰⁰ CIRCULATE & W.O.C.
Top Plug @ 10,486 Ft.
Bottom Plug To 10509 Ft.

MUD RECORD

TIME	
WEIGHT	
VISC	
W.L.-C.C.	
FLTR CK.	
PH	
SD. CONT	

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

C.P.-38 (10/63) **DAILY DRILLING REPORT** REPORT NO. 99 DATE JUNE 23/65

OPERATOR	LOCATION LSD.	SEC.	TWP.	RGE.	W.	WELL NAME	No.	PROVINCE
SHELL CANADA LIMITED						SHELL CHOIEPLEAK	1-46	N.W.T

CONTRACTOR	RIG No.	DRILL PIPE STRING NO.	SIZE	TOOL JOINT	TYPE THD.
TREBERT DRLG	6	3	5"	6 5/4 OD	X.H

OPERATOR'S REPRESENTATIVE: R.B. Cumbus

CONTRACTOR'S TOOL PUSHER: L. K. Hansen

PUMPS

NO.	MANUFACTURER	TYPE	STROKE LENGTH
1.	EMSCO	D-10	16
2.	EMSCO	D-300	16
3.			

CASING & LINER RECORD

SIZE	WT. & GR.	DEPTH SET FROM	DEPTH SET TO	PERFORATIONS FROM	PERFORATIONS TO	CEMENT USED	OTHER
9 5/8		0	7004				

TIME DISTRIBUTION—HOURS

	MORN	DAY	EVE
DRILLING ACTUAL			
REAMING			
CIRCULATING			
TRIPS	4½		4½
DEVIATION SURVEY			
TEST B.O.P	½		
CUT OFF DRILL LINE			2½
REPAIR RIG			
CORING			
WIRE LINE LOGGING			
OTHER	3		3
FISHING			
COMPLETING (A) PERFORATING			
(B) RUNNING TUBING			
(C) SWABBING			
(D) TESTING			
(E) ACIDIZING			
(F) ADDITIONAL			
TOTALS	8		8

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. or TRIPS SINCE LAST CUT

CUMULATIVE TON MI. or TRIPS

NO. OF DAYS FROM SPUD

CUMULATIVE ROTATING HRS.

MORNING TOUR

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

DRILLER: J. Wibberd

HRS. DRLD.	CORE NO.	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT. ON BIT 1000#	PUMP PRESS.	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN
		11,318										

DEVIATION RECORD: DEPTH / DEV. / DIRECTION

REMARKS

12 00	12 30	FINISH OUT
12 30	1 00	RIG SERVICE & BOP CHECK
1 00	3 00	RUN IN OPEN END TO 7000'
3 00	5 15	RIG TO RUN DIESEL - GEL PLUG & BRING LOSS CIRC.
5 15	6 00	FINISH RUNNING IN (MATERIAL ON FLOOR
6 00	8 00	BREAK CIRC & BUMP WALNUT SHELLS DOWN PIPE THROUGH HOPPER IN PIPE

MUD RECORD

TIME	
WEIGHT	
VISC	
W.L.-C.C.	
FLTR. CK.	
PH	
SD. CONT.	

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
water			
substitute shell Co. Mix			

DAY TOUR

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

DRILLER: L McIntosh

HRS. DRLD.	CORE NO.	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT. ON BIT 1000#	PUMP PRESS.	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN

DEVIATION RECORD: DEPTH / DEV. / DIRECTION

REMARKS

900	1100	Dig plug repair pump Lose cement Plug 2066' Diesel 505 ks gal-
1100	300	Run Gel Diesel plug @ 11315
300	400	Pump water Down Hole.
400		Rig up to Run cement plug

MUD RECORD

TIME	
WEIGHT	
VISC	
W.L.-C.C.	
FLTR. CK.	
PH	
SD. CONT.	

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
GEL	50 SAYS		
CEMENT	100 SAYS		

EVENING TOUR

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

DRILLER: J. Hibberd

HRS. DRLD.	CORE NO.	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT. ON BIT 1000#	PUMP PRESS	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN

DEVIATION RECORD: DEPTH / DEV / DIRECTION

REMARKS

400	500	Rig up Run cement plug
500	600	Run 100 Bag cement plug @ 11275
600	700	Hoist out 10 STD drill pipe
700	8 00	Hoist out to casing
8 00	9 00	Cut & slip line
9 00	11 00	Fill mud tanks & storage tanks with water
11 00		Cut Plug # 1 @ 10950 Ft. w/ mud #
12	12 00	RUN IN

MUD RECORD

TIME	
WEIGHT	
VISC	
W.L.-C.C.	
FLTR CK.	
PH	
SD. CONT	

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

C.P.—38 (10/63) **DAILY DRILLING REPORT** REPORT NO. 48 DATE JUNE 22/65

OPERATOR: SHELL CANADA LIMITED

LOCATION LSD. SEC. TWP. RGE. W.

WELL NAME: SHELL CHOVERLEAR No. 1-46

PROVINCE: W.W.T

CONTRACTOR: TRENT DRLG. RIG No. 6

DRILL PIPE STRING NO. 2 SIZE 5" TOOL JOINT 6 1/4 OD TYPE THD. X-H

OPERATOR'S REPRESENTATIVE: W.B. Crumb

CONTRACTOR'S TOOL PUSHER: L.R. Hayden

PUMPS

NO.	MANUFACTURER	TYPE	STROKE LENGTH
1.	EMSCO	D-700	16
2.	EMSCO	D-500	16
3.			

CASING & LINER RECORD

SIZE	WT. & GR.	DEPTH SET FROM	DEPTH SET TO	PERFORATIONS FROM	PERFORATIONS TO	CEMENT USED	OTHER
9 5/8		0	7006				

MORNING TOUR

TIME DISTRIBUTION—HOURS

	MORN	DAY	EVE
DRILLING ACTUAL			
REAMING			
CIRCULATING			2 1/4
TRIPS		1/2	5
DEVIATION SURVEY			
TEST B.O.P			
CUT. OFF DRILL LINE		1	3/4
REPAIR RIG			
CORING			
WIRE LINE LOGGING	8	5	3 5/0
OTHER		1 3/4	
FISHING			
COMPLETING (A) PERFORATING			
(B) RUNNING TUBING			
(C) SWABBING			
(D) TESTING			
(E) ACIDIZING			
(F) ADDITIONAL			
TOTALS	8	8	8

DRILLING ASSEMBLY

NO.			FT.
	STANDS DP		FT.
	SNGLS. DP		FT.
	D.C. ID		
	D.C. OD		FT.
	RMR BODY OD		FT.
	STB BODY OD		FT.
	SUBS OD		FT.
	BIT OR C.B.		FT.
			FT.
	KELLY DOWN		FT.
	TOTAL		FT.
WT. OF STRING			LBS.

BIT RECORD

RUN NO.	
SIZE	
MFG.	
TYPE	
NOZ. NO.	
NOZ. SIZE	
SER. NO	
DEPTH OUT	11,318
CUMULATIVE HOURS RUN	
COND. OF BIT	
REAMER CUTTER NO.	
TYPE	

DRILLER: J. Hibbard

HRS. DRLD.	CORE NO.	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT. ON BIT 1000#	PUMP PRESS.	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN
		11,318										

DEVIATION RECORD:

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

REMARKS

12:00 8:00 LOGGING

JTS. 2 shots @ 2400 2 shots @ 11290.

1 @ 5317

1 @ 7000

1 @ 8500

1 @ 10,000

MUD RECORD

TIME			
WEIGHT			
VISC			
W.L.-C.C.			
FLTR. CK.			
PH			
SD. CONT.			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

DAY TOUR

DRILLING ASSEMBLY

NO.			FT.
	STANDS DP		FT.
	SNGLS. DP		FT.
	D.C. ID		
	D.C. OD		FT.
	RMR BODY OD		FT.
	STB BODY OD		FT.
	SUBS OD		FT.
	BIT OR C.B.		FT.
			FT.
	KELLY DOWN		FT.
	TOTAL		FT.
WT. OF STRING			LBS.

BIT RECORD

RUN NO.	
SIZE	
MFG.	
TYPE	
NOZ. NO	
NOZ. SIZE	
SER. NO.	
DEPTH OUT	
CUMULATIVE HOURS RUN	
COND. OF BIT	
REAMER CUTTER NO.	
TYPE	

DRILLER: G McIntosh

HRS. DRLD.	CORE NO.	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT. ON BIT 1000#	PUMP PRESS.	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN
9:00		100	130	Rig down Logging equipment								
1:30		2:30	3:30	Slip cut Drlg Line								
3:30		4:00		Run in Hole								

DEVIATION RECORD:

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

REMARKS

9:00 1:00 Logging

MUD RECORD

TIME			
WEIGHT			
VISC			
W.L.-C.C.			
FLTR. CK.			
PH			
SD. CONT.			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

WIRE LINE RECORD

REEL NO	
NO OF LINES	SIZE
FEET SLIPPED	
FEET CUT OFF	
PRESENT LENGTH	
TON MI. or TRIPS SINCE LAST CUT	
CUMULATIVE TON MI. or TRIPS	
NO. OF DAYS FROM SPUD	
CUMULATIVE ROTATING HRS.	

TIME SUMMARY (OFFICE USE ONLY)

CONTRACTOR'S TIME HRS:	
OPERATOR'S TIME:	
HRS. W/D.P:	
HRS WO/D.P:	
HRS STANDBY	

EVENING TOUR

DRILLING ASSEMBLY

NO.			FT.
17	STANDS DP	10944.74	FT.
2	SNGLS. DP		FT.
12	D.C. ID	340.49	
	D.C. OD		FT.
	RMR BODY OD		FT.
	STB BODY OD		FT.
	SUBS OD		FT.
	BIT OR C.B.		FT.
			FT.
	KELLY DOWN	31.80	FT.
	TOTAL	11318.65	FT.
WT OF STRING		250,000	LBS.

BIT RECORD

RUN NO	
SIZE	
MFG.	
TYPE	
NOZ. NO.	
NOZ. SIZE	
SER NO	
DEPTH OUT	
CUMULATIVE HOURS RUN	
COND. OF BIT	
REAMER CUTTER NO.	
TYPE	

DRILLER: G McIntosh

HRS. DRLD.	CORE NO.	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT. ON BIT 1000#	PUMP PRESS	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN
4:00		6:00		Run in Hole								
6:00		8:15		pump water from mud and Storage down Hole								
8:15		9:45		Pull out to casing								
9:45		10:30		Cut & slip Line								
10:30		12:00		FINISH DST								

DEVIATION RECORD:

DEPTH	DEV.	DIRECTION	DEPTH	DEV	DIRECTION	DEPTH	DEV	DIRECTION

REMARKS

MUD RECORD

TIME			
WEIGHT			
VISC			
W.L.-C.C.			
FLTR. CK.			
PH			
SD. CONT			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

C.P.—38 (10/63) **DAILY DRILLING REPORT** REPORT NO. 97 DATE JUNE 21/65

OPERATOR	LOCATION LSD. SEC. TWP. RGE. W.	WELL NAME No.	PROVINCE
SHELL CANADA LIMITED		SHELL CHORLEAR 1-46	N.W.T.

CONTRACTOR	RIG No.	DRILL PIPE STRING NO. SIZE	TOOL JOINT OD / TYPE THD.
TREBENT DRLG	6		

OPERATOR'S REPRESENTATIVE: W B Cunningham

CONTRACTOR'S TOOL PUSHER: L R Hansen

PUMPS

NO.	MANUFACTURER	TYPE	STROKE LENGTH
1.	EMSCO	D-700	16
2.	EMSCO	D-500	16
3.			

CASING & LINER RECORD

SIZE	WT. & GR.	DEPTH SET FROM	DEPTH SET TO	PERFORATIONS FROM	PERFORATIONS TO	CEMENT USED	OTHER

TIME DISTRIBUTION—HOURS

	MORN	DAY	EVE
DRILLING ACTUAL			
REAMING			
CIRCULATING			
TRIPS			
DEVIATION SURVEY			
TEST B.O.P			
CUT OFF DRILL LINE			
REPAIR RIG			
CORING			
WIRE LINE LOGGING	8	8	8
OTHER			
FISHING			
COMPLETING (A) PERFORATING			
(B) RUNNING TUBING			
(C) SWABBING			
(D) TESTING			
(E) ACIDIZING			
(F) ADDITIONAL			
TOTALS	8	8	8

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. or TRIPS SINCE LAST CUT

CUMULATIVE TON MI. or TRIPS

NO. OF DAYS FROM SPUD

CUMULATIVE ROTATING HRS.

MORNING TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD	
	STANDS DP	FT.	RUN NO.	
	SNGLS. DP	FT.	SIZE	
	D.C. ID		MFG.	
	OD	FT.	TYPE	
	RMR BODY OD	FT.	NOZ. 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	11318.65 FT.	REAMER CUTTER NO.	
WT. OF STRING		LBS.	TYPE	

DRILLER: J. Hibbard

HRS. DRLD.	CORE NO.	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT. ON BIT 1000#	PUMP PRESS.	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN
				TALLY – 10944.81								
				PREVIOUS – 10944.24 NO CORRECTION								
				DIFF – .57								

DEVIATION RECORD:

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

REMARKS

13th & 14th LOGGING

MUD RECORD

TIME				
WEIGHT				
VISC				
W.L.-C.C.				
FLTR. CK.				
PH				
SD. CONT.				

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

DAY TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD	
	STANDS DP	FT.	RUN NO.	
	SNGLS. DP	FT.	SIZE	
	D.C. ID		MFG.	
	OD	FT.	TYPE	
	RMR BODY OD	FT.	NOZ. 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: G McIntosh

HRS. DRLD.	CORE NO.	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT. ON BIT 1000#	PUMP PRESS.	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN

DEVIATION RECORD:

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

REMARKS

8th 9th LOGGING

MUD RECORD

TIME				
WEIGHT				
VISC				
W.L.-C.C.				
FLTR. CK.				
PH				
SD. CONT.				

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

EVENING TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD	
	STANDS DP	FT.	RUN NO	
	SNGLS. DP	FT.	SIZE	
	D.C ID		MFG.	
	OD	FT.	TYPE	
	RMR BODY OD	FT.	NOZ. 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: J. Hibbard

HRS. DRLD.	CORE NO.	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT. ON BIT 1000#	PUMP PRESS	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN

DEVIATION RECORD:

DEPTH	DEV.	DIRECTION	DEPTH	DEV	DIRECTION	DEPTH	DEV	DIRECTION

REMARKS

4th 12th LOGGING

Ran DOC IES 11312 – 7004 2"&5" scales

SGR 11306 – 7004 2"&5" scales

2nd run. MLC 11313 – 7004' 5" scales.

COM

SVS

MUD RECORD

TIME				
WEIGHT				
VISC				
W.L.-C.C.				
FLTR. CK.				
PH				
SD. CONT				

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

C.P.—30 (10/63)

DAILY DRILLING REPORT

REPORT NO. 96 DATE JUNE 20/65

OPERATOR: SHELL CANADA LIMITED	LOCATION LSD.	SEC.	TWP.	RGE.	W.	WELL NAME: SHELL CHOIA RUSAT	No. 1-46	PROVINCE N.W.T
CONTRACTOR: REGENT DRLG.	RIG No. 6	DRILL PIPE STRING NO. SIZE 2 3½	TOOL JOINT 6 5/4 OD	TYPE THD. X I H
OPERATOR'S REPRESENTATIVE: B Kumle	CONTRACTOR'S TOOL PUSHER: L. R. Hansen

PUMPS

NO.	MANUFACTURER	TYPE	STROKE LENGTH
1.	EMSCO	D-700	16
2.	EMSCO	D-700	16
3.			

CASING & LINER RECORD

SIZE	WT. & GR.	DEPTH SET FROM	DEPTH SET TO	PERFORATIONS FROM	PERFORATIONS TO	CEMENT USED	OTHER
9⅝		0	9004				

TIME DISTRIBUTION—HOURS

	MORN	DAY	EVE
DRILLING ACTUAL			
REAMING			
CIRCULATING	3¾		8½ 4
TRIPS	3¾		4
DEVIATION SURVEY			
TEST B.O.P			
CUT OFF DRILL LINE			
REPAIR RIG			
CORING			
WIRE LINE LOGGING			1
OTHER	4½		1½
FISHING			
COMPLETING (A) PERFORATING			
(B) RUNNING TUBING			
(C) SWABBING			
(D) TESTING			
(E) ACIDIZING			
(F) ADDITIONAL			
TOTALS	8		8

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. or TRIPS SINCE LAST CUT

CUMULATIVE TON MI. or TRIPS

NO. OF DAYS FROM SPUD

CUMULATIVE ROTATING HRS.

MORNING TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD	
117	STANDS DP	FT.	RUN NO.	61
2	SNGLS. DP	10944.79 FT.	SIZE	8¾
17	D.C. 6½ ID / OD	3404 FT.	MFG.	RTAD
			TYPE	IC46
	RMR BODY OD	FT.	NOZ. NO.	CUT
	STB BODY OD	FT.	SIZE	OUT
	SUBS OD	1.80 FT.	SER. NO.	E15069
	BIT OR C.B.	FT.	DEPTH OUT	
		FT.	CUMULATIVE HOURS RUN	
	KELLY DOWN	31.80 FT.	COND. OF BIT	
	TOTAL 11	18.65 FT.	REAMER CUTTER NO.	
WT. OF STRING	130 000 LBS.		TYPE	

DRILLER: D. Hibbard

HRS. DRLD.	CORE NO.	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT. ON BIT 1000#	PUMP PRESS.	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN
		11,318										

DEVIATION RECORD:

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

REMARKS

12⁰⁰ 18⁰⁰ CLEAN TO BTM. (NO RETURNS) 5456' 20 std TRIP
19⁰⁰ 1²⁰ PULL OUT 20 stds 6⁴⁵ 7³⁰ WASH CIRC
1²⁰ 2⁰⁰ FILL MUD TANKS WITH WATER 7³⁰ PULL OUT
2⁰⁰ 8²⁰ ROW IN
8²⁰ 3³⁰ CIRC & WORK PIPE (NO RETURNS)
3³⁰ 4²⁰ 20 stds DUMMY TRIP
4²⁰ 5⁰⁰ CIRC & WORK PIPE

MUD RECORD

TIME				
WEIGHT				
VISC				
W.L.-C.C.				
FLTR. CK.				
PH				
SD. CONT.				

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

DAY TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD	
	STANDS DP	FT.	RUN NO.	
	SNGLS. DP	FT.	SIZE	
	D.C. ID / OD	FT.	MFG.	
			TYPE	
	RMR BODY OD	FT.	NOZ. 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)	ROTARY R.P.M.	WT. ON BIT 1000#	PUMP PRESS	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN

DEVIATION RECORD:

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

REMARKS

600 600 Wait on Schlumberger

MUD RECORD

TIME				
WEIGHT				
VISC				
W.L.-C.C.				
FLTR. CK.				
PH				
SD. CONT.				

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

EVENING TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD	
117	STANDS DP	FT.	RUN NO	
2	SNGLS. DP	10944.79 FT.	SIZE	
17	D.C ID / OD	340 4 FT.	MFG.	
			TYPE	
	RMR BODY OD	FT.	NOZ. NO.	
	STB BODY OD	FT.	SIZE	
1	SUBS OD	1.80 FT.	SER NO	
	BIT OR C.B.	FT	DEPTH OUT	
		FT.	CUMULATIVE HOURS RUN	
	KELLY DOWN	31.80 FT.	COND. OF BIT	
	TOTAL 11	318.65 FT.	REAMER CUTTER NO.	
WT OF STRING		LBS.	TYPE	

DRILLER: D. Nibbard

HRS. DRLD.	CORE NO.	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT. ON BIT 1000#	PUMP PRESS	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN

DEVIATION RECORD:

DEPTH	DEV.	DIRECTION	DEPTH	DEV	DIRECTION	DEPTH	DEV	DIRECTION

REMARKS

600 560 Wait on Schlumberger
560 760 Rem'd pump, down water from mud tanks and Storage tanks
700 10³⁰ Pressure out
10³⁰ 11⁰⁰ RIG UP TO LOG
11⁰⁰ 12⁰⁰ Log

MUD RECORD

TIME				
WEIGHT				
VISC				
W.L.-C.C.				
FLTR CK.				
PH				
SD. CONT				

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

C.P.—38 (10/63) **DAILY DRILLING REPORT** REPORT NO. 95 DATE JUNE 19/65

OPERATOR: SHELL CANADA LIMITED | LOCATION LSD. SEC. TWP. RGE. W. | WELL NAME: SHELL CHOVERLEAF No. 1-46 | PROVINCE: N.W.T

CONTRACTOR: FREEWAY DRILLING RIG No. 6 | DRILL PIPE STRING NO. SIZE 2-5" | TOOL JOINT 6 1/4" OD | TYPE THD. X.H.

OPERATOR'S REPRESENTATIVE: D.S. Cumba | CONTRACTOR'S TOOL PUSHER: L.R. Hansen

PUMPS

NO.	MANUFACTURER	TYPE	STROKE LENGTH
1.	EMSCO	D-700	16"
2.	EMSCO	D-700	16"
3.			

CASING & LINER RECORD

SIZE	WT. & GR.	DEPTH SET FROM	DEPTH SET TO	PERFORATIONS FROM	PERFORATIONS TO	CEMENT USED	OTHER
9 5/8		0	7004				

TIME DISTRIBUTION—HOURS

	MORN	DAY	EVE
DRILLING ACTUAL			
REAMING			3
CIRCULATING			
TRIPS			4
DEVIATION SURVEY			
TEST B.O.P			
CUT OFF DRILL LINE			
REPAIR RIG			
CORING			
WIRE LINE LOGGING			
OTHER			
FISHING			
COMPLETING (A) PERFORATING			
(B) RUNNING TUBING			
(C) SWABBING			
(D) TESTING			
(E) ACIDIZING			
(F) ADDITIONAL			
TOTALS			8

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. or TRIPS SINCE LAST CUT

CUMULATIVE TON MI. or TRIPS

NO. OF DAYS FROM SPUD

CUMULATIVE ROTATING HRS.

MORNING TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD	
	STANDS DP	FT.	RUN NO.	
	SNGLS. DP	FT.	SIZE	
	D.C. ID / OD	FT.	MFG.	
			TYPE	
	RMR BODY OD	FT.	NOZ. NO.	
	STB BODY OD	FT.	NOZ. 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: J. Hilliard

HRS. DRLD.	CORE NO.	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT. ON BIT 1000#	PUMP PRESS.	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN
		11,318										

DEVIATION RECORD: DEPTH | DEV. | DIRECTION | DEPTH | DEV. | DIRECTION | DEPTH | DEV. | DIRECTION

REMARKS

12:00 13:30 Circulate
12:30 6:45 Run in breaking 1 std. off top of every std reaming
6:45 7:00 Circulate & work pipe
7:00 Host circ @ 740' off btm
8:00 Rig to run Diesel - Gel Plug

MUD RECORD

TIME				
WEIGHT				
VISC				
W.L.-C.C.				
FLTR. CK.				
PH				
SD. CONT.				

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

DAY TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD	
	STANDS DP	FT.	RUN NO.	
	SNGLS. DP	FT.	SIZE	
	D.C. ID / OD	FT.	MFG.	
			TYPE	
	RMR BODY OD	FT.	NOZ. NO	
	STB BODY OD	FT.	NOZ. 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: L. McIntosh

HRS. DRLD.	CORE NO.	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT. ON BIT 1000#	PUMP PRESS.	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN

DEVIATION RECORD: DEPTH | DEV. | DIRECTION | DEPTH | DEV. | DIRECTION | DEPTH | DEV. | DIRECTION

REMARKS

8:00 11:00 Ran 204 jts Dual 44 Sks. Gel @ 10560
11:00 3:00 Pull'd up 10 Stands build volume. Fix to Circ. Broke Kelly
3:00 4:00 Build Volume

MUD RECORD

TIME				
WEIGHT				
VISC				
W.L.-C.C.				
FLTR. CK.				
PH				
SD. CONT.				

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
Quick Vis-c.	2 BAGS		
149 SACKS GEL			

EVENING TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD	
117	STANDS DP	FT.	RUN NO	6 1
2	SNGLS. DP	10944.79 FT.	SIZE	8 3/4
12	D.C. ID / OD	340.49 FT.	MFG.	SMITH
			TYPE	XC4C
	RMR BODY OD	FT.	NOZ. NO.	CUT
	STB BODY OD	1.80 FT.	NOZ. SIZE	OUT
	SUBS OD	FT.	SER NO	E15069
	BIT OR C.B.	FT	DEPTH OUT	
		FT.	CUMULATIVE HOURS RUN	
	KELLY DOWN	31.80 FT.	COND. OF BIT	
	TOTAL 117	318.65 FT.	REAMER CUTTER NO.	
	WT OF STRING	235,000 LBS.	TYPE	

DRILLER: J. Hilliard

HRS. DRLD.	CORE NO.	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT. ON BIT 1000#	PUMP PRESS	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN

DEVIATION RECORD: DEPTH | DEV. | DIRECTION | DEPTH | DEV | DIRECTION | DEPTH | DEV | DIRECTION

REMARKS

4:00 6:00 Hoist out 86 Stds
6:00 7:00 Run wire line to Bottom of Casing
7:00 8:00 Slip and Cut line
8:00 9:00 Run Gal to 10 stds. off Btm.
9:00 12:00 Run In Breaking down Stds & Reaming.

MUD RECORD

TIME				
WEIGHT				
VISC				
W.L.-C.C.				
FLTR. CK.				
PH				
SD. CONT				

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
Water			

C.P.—38 (10/63) **DAILY DRILLING REPORT** REPORT NO. Journal DATE Report # 94

OPERATOR	LOCATION LSD.	SEC.	TWP.	RGE.	W.	WELL NAME	No.	PROVINCE
SHELL CANADA LIMITED						Shell Clive Unit	1-46	Alta

CONTRACTOR	RIG No.	DRILL PIPE STRING NO. SIZE	TOOL JOINT OD / TYPE THD.
Rig 1 + Drlg Co	6		

OPERATOR'S REPRESENTATIVE	CONTRACTOR'S TOOL PUSHER
W B Cook	L. R. Hansen

PUMPS

NO.	MANUFACTURER	TYPE	STROKE LENGTH
1.			
2.			
3.			

CASING & LINER RECORD

SIZE	WT. & GR.	DEPTH SET FROM	DEPTH SET TO	PERFORATIONS FROM	PERFORATIONS TO	CEMENT USED	OTHER

TIME DISTRIBUTION—HOURS

	MORN	DAY	EVE
DRILLING ACTUAL			
REAMING			
CIRCULATING			
TRIPS			
DEVIATION SURVEY			
TEST B.O.P			
CUT OFF DRILL LINE			
REPAIR RIG			
CORING			
WIRE LINE LOGGING			
OTHER			
FISHING			
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

WIRE LINE RECORD

REEL NO

NO OF LINES SIZE

FEET SLIPPED

FEET CUT OFF

PRESENT LENGTH

TON MI. or TRIPS SINCE LAST CUT

CUMULATIVE TON MI. or TRIPS

NO. OF DAYS FROM SPUD

CUMULATIVE ROTATING HRS.

MORNING TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD	
	STANDS DP	FT.	RUN NO.	
	SNGLS. DP	FT.	SIZE	
	D.C. ID / OD	FT.	MFG. / TYPE	
	RMR BODY OD	FT.	NOZ. NO. / SIZE	
	STB BODY OD	FT.		
	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 R Pickett

HRS. DRLD.	CORE NO.	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT. ON BIT 1000#	PUMP PRESS.	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN

DEVIATION RECORD:

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

REMARKS

2½	Mix bad Circ Material	15:00 - 23:30
1½	Pump down hole - Mixing Mud	23:30 4:00
	Refill mud tanks and start mud	4:00
	Rig to Run Dialog set plug	6:00
	Run to within 15 Std off Btm (9800 ft)	6:00 7:00
	Mix Diesel - Gel Plug	7:00 - 8:00

MUD RECORD

TIME				
WEIGHT				
VISC				
W.L.-C.C.				
FLTR. CK.				
PH				
SD. CONT.				

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
Gel	125	Quikvis	56
P/C Sa	1100		
Co Wedge	20		
CK Wedge	10		

DAY TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD	
	STANDS DP	FT.	RUN NO.	
	SNGLS. DP	FT.	SIZE	
	D.C. ID / OD	FT.	MFG. / TYPE	
	RMR BODY OD	FT.	NOZ. NO / SIZE	
	STB BODY OD	FT.		
	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 L McIntosh

HRS. DRLD.	CORE NO.	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT. ON BIT 1000#	PUMP PRESS.	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN

DEVIATION RECORD:

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

REMARKS

800	1030	Mix and pump down Diesel Gel plug
1030	1100	Hoist out to 6k (Stand) Mixed 45 Sks Gel into 20 bbls - Disp
1100		Mix Gel Loss Circ material
	3:00	Run 100 Sks Cement Plug @ 9800 ft @ [illegible]
	3:00	Pull out 10 Stands
	4:00	Top To Circulate with bit @ 8700 ft.

MUD RECORD

TIME	Pump 45 sks Gel			
WEIGHT	Disp Gel 95 Sks			
VISC	Gel 20 Sks			
W.L.-C.C.	Circulate Gel 15 Sks			
FLTR. CK.	Circulate plug 15 Sks			
PH	Circ @ 1100			
SD. CONT.				

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE

EVENING TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD	
	STANDS DP	FT.	RUN NO	
	SNGLS. DP	FT.	SIZE	
	D.C ID / OD	FT.	MFG. / TYPE	
	RMR BODY OD	FT.	NOZ. NO. / SIZE	
	STB BODY OD	FT.		
	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 J. Hibbard

HRS. DRLD.	CORE NO.	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT. ON BIT 1000#	PUMP PRESS	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN

DEVIATION RECORD:

DEPTH	DEV.	DIRECTION	DEPTH	DEV	DIRECTION	DEPTH	DEV	DIRECTION

REMARKS

1100	700	Condition mud
700	1030	Ream and orig. Stands at a time Reaming 40 w/Kelly.
1032	1200	Circulate Working Pipe

MUD RECORD

TIME	
WEIGHT	
VISC	
W.L.-C.C.	
FLTR. CK.	
PH	
SD. CONT	

MUD & CHEMICA

TYPE	AMT.

C.P.—38 (10/63) **DAILY DRILLING REPORT** REPORT NO. 93 DATE June 17

OPERATOR	LOCATION LSD. SEC. TWP. RGE W.	WELL NAME	No.	PROVINCE
SHELL CANADA LIMITED		Shell Mountain	1-46	N.W.T.

CONTRACTOR	RIG No.	DRILL PIPE STRING NO. SIZE	TOOL JOINT OD / TYPE THD.
Regent Drlg.	6		

OPERATOR'S REPRESENTATIVE W B Cowan — CONTRACTOR'S TOOL PUSHER

PUMPS

NO.	MANUFACTURER	TYPE	STROKE LENGTH
1.			
2.			
3.			

CASING & LINER RECORD

	SIZE	WT. & GR.	DEPTH SET FROM	DEPTH SET TO	PERFORATIONS FROM	PERFORATIONS TO	CEMENT USED	OTHER

TIME DISTRIBUTION—HOURS

	MORN	DAY	EVE
DRILLING ACTUAL			
REAMING			
CIRCULATING 4½	6	8	6
TRIPS			
DEVIATION SURVEY			
TEST B.O.P			
CUT OFF DRILL LINE			
REPAIR RIG			
CORING			
WIRE LINE LOGGING			
OTHER			
FISHING			
COMPLETING (A) PERFORATING			
(B) RUNNING TUBING			
(C) SWABBING			
(D) TESTING			
(E) ACIDIZING			
(F) ADDITIONAL			
TOTALS	8	6	4

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. or TRIPS SINCE LAST CUT

CUMULATIVE TON MI. or TRIPS

NO. OF DAYS FROM SPUD

CUMULATIVE ROTATING HRS.

MORNING TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD	
117	STANDS DP	10944.74 FT.	RUN NO.	
2	SNGLS. DP	FT.	SIZE	
	D.C. ID / OD	340.38 FT.	MFG.	
	RMR BODY OD	FT.	TYPE	
	STB BODY OD	1.90 FT.	NOZ. NO. / SIZE	
	SUBS OD	5.90 FT.	SER. NO	
	BIT OR C.B.	FT.	DEPTH OUT	
		FT.	CUMULATIVE HOURS RUN	
	KELLY DOWN	26.00 FT.	COND. OF BIT	
	TOTAL	11318.65 FT.	REAMER CUTTER NO.	
WT. OF STRING	LBS.		TYPE	

DRILLER C Pacholek

HRS. DRLD.	CORE NO.	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT. ON BIT 1000#	PUMP PRESS.	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN

DEVIATION RECORD:	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION
	11,318								

REMARKS

8⁰⁰ 7³⁰ P

3½ Run a Dummy Diesel Gel Plug 12³⁰-3³⁰

2 Pull 12 std Brnt Cr with Howco Clutch 3³⁰-5³⁰

2½ Pull Plugged Bit 5³⁰-8⁰⁰

MUD RECORD

TIME				
WEIGHT				
VISC				
W.L.-C.C.				
FLTR. CK.				
PH				
SD. CONT.				

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

DAY TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD	
	STANDS DP	FT.	RUN NO.	
	SNGLS. DP	FT.	SIZE	
	D.C. ID / OD	FT.	MFG.	
	RMR BODY OD	FT.	TYPE	
	STB BODY OD	FT.	NOZ. NO. / 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 L McIntosh

HRS. DRLD.	CORE NO.	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT. ON BIT 1000#	PUMP PRESS.	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN

DEVIATION RECORD:	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

REMARKS

8⁰⁰ 1⁷⁰ pull out plugged Bit and unplug DC

1³⁰ 3⁰⁰ Slip cut 210 ft Drilling Line

3⁰⁰ 4⁰⁰ Run in to Bottom of casing

MUD RECORD

TIME				
WEIGHT				
VISC				
W.L.-C.C.				
FLTR. CK.				
PH				
SD. CONT.				

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
Relcosol	5	SAX	
Gel	30	SAX	
Quebracho	2	gallons	

EVENING TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD	
117	STANDS DP	10944.74 FT.	RUN NO	
	SNGLS. DP	FT.	SIZE	
12	D.C ID / OD	340.39 FT.	MFG.	
	RMR BODY OD	FT.	TYPE	
	STB BODY OD	FT.	NOZ. NO. / SIZE	
	SUBS OD	1.80 FT.	SER NO	
	BIT OR C.B.	2 FT	DEPTH OUT	
		FT.	CUMULATIVE HOURS RUN	
	KELLY DOWN	31.80 FT.	COND. OF BIT	
	TOTAL	11318.65 FT.	REAMER CUTTER NO.	
WT OF STRING	LBS.		TYPE	

DRILLER

HRS. DRLD.	CORE NO.	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT. ON BIT 1000#	PUMP PRESS	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN

DEVIATION RECORD:	DEPTH	DEV.	DIRECTION	DEPTH	DEV	DIRECTION	DEPTH	DEV	DIRECTION

REMARKS

4⁰⁰ 7⁰⁰ Circ sand Loss Circ material

7⁰⁰ 8⁰⁰ Run in

8⁰⁰ Breaking Circ - Poor Returns - Pull 5 std

Try Break Circ - No Returns Pull 10 std

10³⁰ Try Break Circ - Poor Returns

10³⁰-11³⁰ Pull Out into Csg

11³⁰-12⁰⁰ Mix Loss Circ material

MUD RECORD

TIME				
WEIGHT				
VISC				
W.L.-C.C.				
FLTR. CK.				
PH				
SD. CONT.				

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

C.P.—38 (10/63) **DAILY DRILLING REPORT** REPORT NO. 92 DATE June 16/65

OPERATOR	LOCATION LSD. SEC. TWP. RGE. W.	WELL NAME	No.	PROVINCE
SHELL CANADA LIMITED		Shell Cluver Leaf	1-46	NWT

CONTRACTOR	RIG No.	DRILL PIPE STRING NO. SIZE	TOOL JOINT OD / TYPE THD.
Regent	6		

OPERATOR'S REPRESENTATIVE: M B Cumbe

CONTRACTOR'S TOOL PUSHER: L E Burnside

PUMPS

NO.	MANUFACTURER	TYPE	STROKE LENGTH
1.			
2.			
3.			

CASING & LINER RECORD	SIZE	WT. & GR.	DEPTH SET FROM	DEPTH SET TO	PERFORATIONS FROM	PERFORATIONS TO	CEMENT USED	OTHER

TIME DISTRIBUTION—HOURS

	MORN	DAY	EVE
DRILLING ACTUAL			
REAMING			
CIRCULATING Loss.	2	8	8
TRIPS	5		
DEVIATION SURVEY			
TEST B.O.P			
CUT OFF DRILL LINE	1		
REPAIR RIG			
CORING			
WIRE LINE LOGGING			
OTHER			
FISHING			
COMPLETING: (A) PERFORATING			
(B) RUNNING TUBING			
(C) SWABBING			
(D) TESTING			
(E) ACIDIZING			
(F) ADDITIONAL			
TOTALS	8	8	8

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. or TRIPS SINCE LAST CUT

CUMULATIVE TON MI. or TRIPS

NO. OF DAYS FROM SPUD

CUMULATIVE ROTATING HRS.

MORNING TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD	
	STANDS DP	FT.	RUN NO.	61
	SNGLS. DP	FT.	SIZE	8 1/2
	D.C. ID		MFG.	R.I.S
	OD	FT.	TYPE	YC46
	RMR BODY OD	FT.	NOZ. NO.	Cut
	STB BODY OD	FT.	SIZE	Out
	SUBS OD	FT.	SER. NO	E15069
	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: L McIntosh

HRS. DRLD.	CORE NO.	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT. ON BIT 1000#	PUMP PRESS.	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN
		11288	11288	C								

DEVIATION RECORD:	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

REMARKS

1100 2:00 Trip Rotary assembly

2:00 4:30 Hoist out Stand Back Reamer collars and Pumps pick up Jars and Bit Sub

4:30 5:00 Slip cut Line

5:30 8:00 Run in NO 3 pipe 53 to 77 Bottom Reamed

MUD RECORD

TIME	
WEIGHT	
VISC	
W.L.-C.C.	
FLTR. CK.	
PH	
SD. CONT.	

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
Gel	40		
Barite	40		
Sal	40		

DAY TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD	
110	STANDS DP	10261.3 FT.	RUN NO.	61
1	SNGLS. DP	FT.	SIZE	8 1/2
	D.C. ID		MFG.	R.I.S
12	OD	337.48 FT.	TYPE	YC4C
	RMR BODY OD	3.80 FT.	NOZ. NO	Cut
	STB BODY OD	FT.	SIZE	Out
	SUBS OD	1.80 FT.	SER. NO.	E15069
	BIT OR C.B.	FT.	DEPTH OUT	
		FT.	CUMULATIVE HOURS RUN	
	KELLY DOWN	41.00 FT.	COND. OF BIT	
	TOTAL	10637 FT.	REAMER CUTTER NO.	
	WT. OF STRING	LBS.	TYPE	

DRILLER: L Pachalek

HRS. DRLD.	CORE NO.	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT. ON BIT 1000#	PUMP PRESS.	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN
		11288										

DEVIATION RECORD:	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

REMARKS

8 8:00 - 4:00 Bit 630 ft off bottom.

Mix 4 spot 25 bbl. Diesel gel plug. 90 lbs/bbl.

Regain circ. (partial) Mixing mud

MUD RECORD

TIME	
WEIGHT	
VISC	
W.L.-C.C.	
FLTR. CK.	
PH	
SD. CONT.	

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
GEL	180 SAX	Caustic	
MICA	40 SAX	Walnut	95
PLUGGING SEAL	150 SAX		
Coarse	Walnut	80	

EVENING TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD	
117	STANDS DP	FT.	RUN NO	61
2	SNGLS. DP	1694.74 FT.	SIZE	8 3/4
12	D.C ID		MFG.	REED
	OD	337.48 FT.	TYPE	YC4G
	RMR BODY OD	5.80 FT.	NOZ. NO.	CUT
	STB BODY OD	FT.	SIZE	OUT
1	SUBS OD	1.80 FT.	SER NO	E15069
	BIT OR C.B.	FT	DEPTH OUT	
		FT.	CUMULATIVE HOURS RUN	23/4
	KELLY DOWN	26.00 FT.	COND. OF BIT	
	TOTAL	1138.65 FT.	REAMER CUTTER NO.	
	WT OF STRING	1921 LBS.	TYPE	

DRILLER: L McIntosh

HRS. DRLD.	CORE NO.	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT. ON BIT 1000#	PUMP PRESS	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN
		11288	11318	30	36	35						

DEVIATION RECORD:	DEPTH	DEV.	DIRECTION	DEPTH	DEV	DIRECTION	DEPTH	DEV	DIRECTION

REMARKS

4:00 4:45 Run into Bottom

4:45 6:00 Cleaning out to Bottom, pumping mud slugs.

6:00 8:45 Drill Losing mud

8:45 9:15 Hoist out 1 Stand

9:15 Rig to Run diesel gel plug

Mix mud

MUD RECORD

TIME	
WEIGHT	
VISC	
W.L.-C.C.	
FLTR. CK.	
PH	
SD. CONT.	

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
CAUSTIC	20 LBS.		
150 SAXS GEL			
180 SAXS PLUGCO SEAL			
Quick Vis		2 qts	

C.P.-38 (10/63) **DAILY DRILLING REPORT** REPORT NO. 92 DATE June 15

OPERATOR	LOCATION LSD.	SEC.	TWP.	RGE.	W.	WELL NAME	No.	PROVINCE
SHELL CANADA LIMITED						Shell Cloverleaf	1-46	NWT

CONTRACTOR: Regent — RIG No. 6 — DRILL PIPE STRING NO. SIZE 3½ — TOOL JOINT OD — TYPE THD. YH

OPERATOR'S REPRESENTATIVE: [illegible] — CONTRACTOR'S TOOL PUSHER: [illegible]

PUMPS

NO.	MANUFACTURER	TYPE	STROKE LENGTH
1.	Emsco	D900	16
2.	Emsco	D500	16
3.			

CASING & LINER RECORD

	SIZE	WT. & GR.	DEPTH SET FROM	DEPTH SET TO	PERFORATIONS FROM	PERFORATIONS TO	CEMENT USED	OTHER
	9⅝		0	700'				

TIME DISTRIBUTION—HOURS

	MORN	DAY	EVE
DRILLING ACTUAL		2	
REAMING	½		
CIRCULATING			
TRIPS	6		1½
DEVIATION SURVEY			
TEST B.O.P			
CUT OFF DRILL LINE	1		
REPAIR RIG			
CORING Service	½		
WIRE LINE LOGGING			
OTHER Loss Cir		6	5½
FISHING			
COMPLETING (A) PERFORATING			
(B) RUNNING TUBING			
(C) SWABBING			
(D) TESTING			
(E) ACIDIZING			
(F) ADDITIONAL			
TOTALS	8	8	8

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. or TRIPS SINCE LAST CUT
CUMULATIVE TON MI. or TRIPS
NO. OF DAYS FROM SPUD
CUMULATIVE ROTATING HRS.

MORNING TOUR

NO.	DRILLING ASSEMBLY		FT.
114	STANDS	DP	
2	SNGLS.	DP	1064.50 FT.
19	D.C.	ID	
		OD	539.19 FT.
	RMR BODY	OD	1291 FT.
	STB BODY	OD	FT.
	SUBS	OD	FT.
	BIT OR C.B.		FT.
			FT.
	KELLY DOWN		41.00 FT.
	TOTAL		11258.12 FT.
WT. OF STRING			222M LBS.

BIT RECORD	
RUN NO.	60
SIZE	8¾
MFG.	SEC
TYPE	H85
NOZ. NO.	OUT
NOZ. SIZE	OUT
SER. NO	787826
DEPTH OUT	
CUMULATIVE HOURS RUN	
COND. OF BIT	
REAMER CUTTER NO.	
TYPE	

DRILLER: G McIntosh

HRS. DRLD.	CORE NO.	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT. ON BIT 1000#	PUMP PRESS.	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN
		11257										

DEVIATION RECORD:	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

REMARKS

1200	300	Hoist for bit Lay down 9 singles
300	400	Slip cut line
400	430	Rig service Clean sanker tank
430	730	Run in pickup 9 singles
730	800	Ream to bottom (Loss circ)
Loss	com. at tip	Top while circulating To bottom.
Could	be anywhere	in bottom 650 ft. from 10625 on down.

MUD RECORD

TIME				
WEIGHT				
VISC				
W.L.-C.C.				
FLTR. CK.				
PH				
SD. CONT.				

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

DAY TOUR

NO.	DRILLING ASSEMBLY		FT.
115	STANDS	DP	
	SNGLS.	DP	10696.42 FT.
	D.C.	ID	
		OD	539.19 FT.
	RMR BODY	OD	12.91 FT.
	STB BODY	OD	FT.
	SUBS	OD	FT.
	BIT OR C.B.		FT.
			FT.
	KELLY DOWN		40.00 FT.
	TOTAL		11298.53 FT.
WT. OF STRING			LBS.

BIT RECORD	
RUN NO.	60
SIZE	9¾
MFG.	Sec
TYPE	H85
NOZ. NO.	N/O
NOZ. SIZE	N/O
SER. NO.	787826
DEPTH OUT	
CUMULATIVE HOURS RUN	3
COND. OF BIT	
REAMER CUTTER NO.	
TYPE	

DRILLER: R. Pacholek

HRS. DRLD.	CORE NO.	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT. ON BIT 1000#	PUMP PRESS.	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN
2		11254	11288		40	38	300	5½	45			

DEVIATION RECORD:	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

REMARKS

2	Fill tanks, Mix Mag Cir: Material	8⁰⁰-10⁰⁰
13/4	Drill - no Fluid Returns	10⁰⁰-11⁴⁵
1½	Mix Loss Cir Material	11⁴⁵-1⁰⁰
1¼	Drill - No Fluid Returns	1¹⁵-2³⁰
1½	Pull 10 std Mix Mud	2³⁰-4⁰⁰

MUD RECORD

TIME				
WEIGHT	Loss			
VISC				
W.L.-C.C.	C.I.P.			
FLTR. CK.				
PH				
SD. CONT.				

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
Gel	160#	Mica	60#
Poly Seal	160#	Quick Us	12 Gal
Coarse Walnut	215		
Crack Walnut	60		

EVENING TOUR

NO.	DRILLING ASSEMBLY		FT.
	STANDS	DP	
	SNGLS.	DP	FT.
	D.C	ID	
		OD	FT.
	RMR BODY	OD	FT.
	STB BODY	OD	FT.
	SUBS	OD	FT.
	BIT OR C.B.		FT.
			FT.
	KELLY DOWN		FT.
	TOTAL		FT.
WT OF STRING			LBS.

BIT RECORD	
RUN NO	
SIZE	
MFG.	
TYPE	
NOZ. NO.	
NOZ. SIZE	
SER NO	
DEPTH OUT	
CUMULATIVE HOURS RUN	
COND. OF BIT	
REAMER CUTTER NO.	
TYPE	

DRILLER: G McIntosh

HRS. DRLD.	CORE NO.	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT. ON BIT 1000#	PUMP PRESS	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN

DEVIATION RECORD:	DEPTH	DEV.	DIRECTION	DEPTH	DEV	DIRECTION	DEPTH	DEV	DIRECTION

REMARKS

400	900	Mix loss cir material pump down Hole
900	1030	Hoist into casing
1030	1200	Haul and mix loss circ material

MUD RECORD

TIME				
WEIGHT				
VISC				
W.L.-C.C.				
FLTR. CK.				
PH				
SD. CONT				

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

C.P.—38 (10/63)

DAILY DRILLING REPORT

REPORT NO. 91 DATE June 14/65

OPERATOR	LOCATION LSD. SEC. TWP. RGE. W.	WELL NAME	No.	PROVINCE
SHELL CANADA LIMITED		Shell Hoover Leaf	1-46	NWT

CONTRACTOR	RIG No.	DRILL PIPE STRING NO. SIZE	TOOL JOINT OD / TYPE THD.
Regent	6		

OPERATOR'S REPRESENTATIVE: Mr Lumb

CONTRACTOR'S TOOL PUSHER: L McIntosh

PUMPS

NO.	MANUFACTURER	TYPE	STROKE LENGTH
1.	Emsco	D-200	16
2.	Emsco	D-500	16
3.			

CASING & LINER RECORD

SIZE	WT.	GR.	DEPTH SET FROM	DEPTH SET TO	PERFORATIONS FROM	PERFORATIONS TO	CEMENT USED	OTHER

TIME DISTRIBUTION—HOURS

	MORN	DAY	EVE
DRILLING ACTUAL	3½	8	8
REAMING	¾		
CIRCULATING			
TRIPS	2½		1
DEVIATION SURVEY			
TEST B.O.P.			
CUT OFF DRILL LINE	1¼		
REPAIR RIG			
CORING			
WIRE LINE LOGGING			
OTHER			
FISHING			
COMPLETING (A) PERFORATING			
(B) RUNNING TUBING			
(C) SWABBING			
(D) TESTING			
(E) ACIDIZING			
(F) ADDITIONAL			
TOTALS	8	8	8

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. or TRIPS SINCE LAST CUT

CUMULATIVE TON MI. or TRIPS

NO. OF DAYS FROM SPUD

CUMULATIVE ROTATING HRS.

MORNING TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD	
13	STANDS DP	1050.77 FT.	RUN NO.	RR 58
	SNGLS. DP	FT.	SIZE	8¾
19	D.C. ID / OD	539.19 FT.	MFG.	SEC
	RMR BODY OD	1291 FT.	TYPE	H8
	STB BODY OD	FT.	NOZ. NO.	
	SUBS OD	FT.	NOZ. SIZE	OPEN
	BIT OR C.B.	FT.	SER. NO.	RR N58
		FT.	DEPTH OUT	
	KELLY DOWN	2400 FT.	CUMULATIVE HOURS RUN	16½
	TOTAL	11085.87 FT.	COND. OF BIT	
WT. OF STRING	220M LBS.		REAMER CUTTER NO.	
DRILLER	L McIntosh		TYPE	

HRS. DRLD.	CORE NO.	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT. ON BIT 1000#	PUMP PRESS.	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN
3½		11042	11085	43	45	40	600	5½	96	5½	75	

DEVIATION RECORD: DEPTH / DEV. / DIRECTION / DEPTH / DEV. / DIRECTION / DEPTH / DEV. / DIRECTION

REMARKS

1200	1245	Run in
1245	200	Slip cut line
200	345	Finish Runin pick up 12 singles (NO3)
345	430	Ream under guage hole
430	800	Drill

MUD RECORD

TIME			
WEIGHT			
VISC			
W.L.-C.C.			
FLTR. CK.			
PH			
SD. CONT.			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
CAUSTIC	400 LBS		

DAY TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD	
14	STANDS DP	FT.	RUN NO.	RR 58
	SNGLS. DP	1060.65 FT.	SIZE	8¾
19	D.C. ID / OD	539.19 FT.	MFG.	See
	RMR BODY OD	12.91 FT.	TYPE	H8 J
	STB BODY OD	FT.	NOZ. NO.	
	SUBS OD	FT.	NOZ. SIZE	
	BIT OR C.B.	FT.	SER. NO.	748274
		FT.	DEPTH OUT	
	KELLY DOWN	2900 FT.	CUMULATIVE HOURS RUN	24½
	TOTAL	11195.15 FT.	COND. OF BIT	
WT. OF STRING	222000 LBS.		REAMER CUTTER NO.	
DRILLER	R. Pachalek		TYPE	

HRS. DRLD.	CORE NO.	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT. ON BIT 1000#	PUMP PRESS.	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN
4		11085	11185		40	40	600	5½	75 / 70	5½	75	

DEVIATION RECORD: DEPTH / DEV. / DIRECTION / DEPTH / DEV. / DIRECTION / DEPTH / DEV. / DIRECTION

REMARKS

8	Drill	3⁰⁰ - 4⁰⁰

MUD RECORD

TIME			
WEIGHT			
VISC			
W.L.-C.C.			
FLTR. CK.			
PH			
SD. CONT.			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

EVENING TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD	
14	STANDS DP	FT.	RUN NO.	RR 58
2	SNGLS. DP	1066.02 FT.	SIZE	8¾
19	D.C. ID / OD	539.19 FT.	MFG.	SEC
	RMR BODY OD	1291 FT.	TYPE	H85
	STB BODY OD	FT.	NOZ. NO.	N/L
	SUBS OD	FT.	NOZ. SIZE	
	BIT OR C.B.	FT.	SER. NO.	748274
		FT.	DEPTH OUT	11257
	KELLY DOWN	4100 FT.	CUMULATIVE HOURS RUN	31½
	TOTAL	11258.12 FT.	COND. OF BIT	
WT. OF STRING	222M LBS.		REAMER CUTTER NO.	
DRILLER	L McIntosh		TYPE	

HRS. DRLD.	CORE NO.	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT. ON BIT 1000#	PUMP PRESS	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN
7½		11185	11257	72	40	40	600	5½	70	5½		

DEVIATION RECORD: DEPTH / DEV. / DIRECTION / DEPTH / DEV. / DIRECTION / DEPTH / DEV. / DIRECTION

REMARKS

400	1100	Drill
1100	1200	Hoist for bit

MUD RECORD

TIME			
WEIGHT			
VISC			
W.L.-C.C.			
FLTR. CK.			
PH			
SD. CONT			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

C.P.—38 (10/63) **DAILY DRILLING REPORT** REPORT NO. 90 DATE June 13/65

OPERATOR: SHELL CANADA LIMITED | LOCATION: LSD. SEC. TWP. RGE. W. | WELL NAME: Shell Cover Lead No. 1-46 | PROVINCE: N.W.T.

CONTRACTOR: Regents | RIG No. 6 | DRILL PIPE STRING NO. 3 SIZE 5 | TOOL JOINT 5 3/4 OD | TYPE THD. X H

OPERATOR'S REPRESENTATIVE: W. Cumba | CONTRACTOR'S TOOL PUSHER: L. Bernier

PUMPS

NO.	MANUFACTURER	TYPE	STROKE LENGTH
1.	EMSCO	D 700	16
2.	EMSCO	D 500	16
3.			

CASING & LINER RECORD

SIZE	WT. & GR.	DEPTH SET FROM	DEPTH SET TO	PERFORATIONS FROM	PERFORATIONS TO	CEMENT USED	OTHER
9 5/8		0	7005				

TIME DISTRIBUTION—HOURS

	MORN	DAY	EVE
DRILLING ACTUAL	8	7½	2¼
REAMING			
CIRCULATING			
TRIPS			5¾
DEVIATION SURVEY			
TEST B.O.P			½
CUT OFF DRILL LINE			
REPAIR RIG			
CORING (Clean Tank)		¼	
WIRE LINE LOGGING			
OTHER Sa. Inc		¼	
FISHING			
COMPLETING (A) PERFORATING			
(B) RUNNING TUBING			
(C) SWABBING			
(D) TESTING			
(E) ACIDIZING			
(F) ADDITIONAL			
TOTALS	8	8	8

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. or TRIPS SINCE LAST CUT

CUMULATIVE TON MI. or TRIPS

NO. OF DAYS FROM SPUD

CUMULATIVE ROTATING HRS.

MORNING TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD	
111	STANDS DP	10,324.35 FT.	RUN NO.	59
	SNGLS. DP	FT.	SIZE	8 3/4
19	D.C. ID / OD	539.19 FT.	MFG.	REED
			TYPE	YSC46
	RMR BODY OD	1291 FT.	NOZ. NO.	CUT
	STB BODY OD	FT.	NOZ. SIZE	OUT
	SUBS OD	FT.	SER. NO	ED4377
	BIT OR C.B.	FT.	DEPTH OUT	
		FT.	CUMULATIVE HOURS RUN	12 3/4
	KELLY DOWN	3400 FT.	COND. OF BIT	RUN
	TOTAL	10910.45 FT.	REAMER CUTTER NO.	
	WT. OF STRING	210M LBS.	TYPE	

DRILLER: G McIntosh

HRS. DRLD.	CORE NO.	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT. ON BIT 1000#	PUMP PRESS.	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN
8		10F23	10910	87	35	40	600	5½	75			

DEVIATION RECORD:	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

1200	800	DRILL

REMARKS (Formations Fractured / High Torque / No apparent Loss of mud

MUD RECORD

TIME	8			
WEIGHT	8.6			
VISC	36			
W.L.-C.C.				
FLTR. CK.				
PH				
SD. CONT.				

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
CRACKED WALNUTS	25 SAX		
DALCO SEAL	75 SAX		

DAY TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD	
112	STANDS DP	FT.	RUN NO.	59
1	SNGLS. DP	10.44934 FT.	SIZE	8 3/4
19	D.C. ID / OD	539.19 FT.	MFG.	REED
			TYPE	YSC46
	RMR BODY OD	12.91 FT.	NOZ. NO.	CUT
	STB BODY OD	FT.	NOZ. SIZE	OUT
	SUBS OD	FT.	SER. NO.	ED4377
	BIT OR C.B.	FT.	DEPTH OUT	11042
		FT.	CUMULATIVE HOURS RUN	20½
	KELLY DOWN	41.00 FT.	COND. OF BIT	
	TOTAL	11,014.46 FT.	REAMER CUTTER NO.	
	WT. OF STRING	210,000 LBS.	TYPE	

DRILLER: R. Pachalek

HRS. DRLD.	CORE NO.	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT. ON BIT 1000#	PUMP PRESS.	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN
7½		10910	11018	108	45	40	575	5½	73			

DEVIATION RECORD:	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

REMARKS

½	Drill	8:00 - 8:30
¼	Instal Rotor Seal in Rotary Drive Sr. K.G	8:30 - 8:45
2¼	Drill	8:45 - 11:00
¼	Clean Shaker Tank	11:00 - 11:15
4¾	Drill	11:15 - 4:00

MUD RECORD

TIME	8.00	10	2
WEIGHT	8.6	8.6	8.6
VISC	36	35	35
W.L.-C.C.			
FLTR. CK.			
PH			
SD. CONT.			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
Gel	35 Sk.		

EVENING TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD	
112	STANDS DP	10449.38 FT.	RUN NO	5-9
	SNGLS. DP	FT.	SIZE	8 3/4
	D.C. ID / OD	539.19 FT.	MFG.	REED
			TYPE	YC46
	RMR BODY OD	12.91 FT.	NOZ. NO.	CUT
	STB BODY OD	FT.	NOZ. SIZE	OUT
	SUBS OD	FT.	SER NO	ED4377
	BIT OR C.B.	FT	DEPTH OUT	11042
		FT.	CUMULATIVE HOURS RUN	20½
	KELLY DOWN	41.00 FT.	COND. OF BIT	Pinched
	TOTAL	11042.46 FT.	REAMER CUTTER NO.	
	WT OF STRING	210M LBS.	TYPE	

DRILLER: G McIntosh

HRS. DRLD.	CORE NO.	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT. ON BIT 1000#	PUMP PRESS	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN
2¼		11018	11042	24	45	40	575	5½	73			

DEVIATION RECORD:	DEPTH	DEV.	DIRECTION	DEPTH	DEV	DIRECTION	DEPTH	DEV	DIRECTION

REMARKS

400	615	Drill
615	1030	Pull out Lay down 12 Joints pipe
1030	1100	Rig Service Bop check
1100	1200	Run in

MUD RECORD

TIME	4.00	T	
WEIGHT	8.6		
VISC	35	K	
W.L.-C.C.			
FLTR CK.		P	
PH			
SD. CONT			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
C.L.	30 Sks.		
Caustic	200#		

C.P.—38 (10/63) **DAILY DRILLING REPORT** REPORT NO. 89 DATE June 12 1965

OPERATOR	LOCATION LSD.	SEC.	TWP.	RGE.	W.	WELL NAME	No.	PROVINCE
SHELL CANADA LIMITED						Shell Clover Leaf	1-46	ALTA

CONTRACTOR	RIG No.	DRILL PIPE STRING NO. SIZE	TOOL JOINT OD	TYPE THD.
Regent	6			

OPERATOR'S REPRESENTATIVE: R S Cunningham

CONTRACTOR'S TOOL PUSHER: L Eberwein

PUMPS

NO.	MANUFACTURER	TYPE	STROKE LENGTH
1.	Emsco	D-22	16
2.	Emsco	D-22	16
3.			

CASING & LINER RECORD	SIZE	WT. & GR.	DEPTH SET FROM	DEPTH SET TO	PERFORATIONS FROM	PERFORATIONS TO	CEMENT USED	OTHER
	9 5/8		0	1005'				

TIME DISTRIBUTION—HOURS

	MORN	DAY	EVE
DRILLING ACTUAL			4½
REAMING		½	
CIRCULATING	6		
TRIPS	½		
DEVIATION SURVEY			
TEST B.O.P			
CUT OFF DRILL LINE			
REPAIR RIG			
CORING - plug	1½		
WIRE LINE LOGGING			
OTHER		8½	3½
FISHING			
COMPLETING (A) PERFORATING			
(B) RUNNING TUBING			
(C) SWABBING			
(D) TESTING			
(E) ACIDIZING			
(F) ADDITIONAL			
TOTALS	8	8	8

TIME SUMMARY (OFFICE USE ONLY)

CONTRACTOR'S TIME HRS:

OPERATOR'S TIME:

HRS. W/D.P:

HRS W/O D.P:

HRS STANDBY

WIRE LINE RECORD

REEL NO

NO OF LINES SIZE

FEET SLIPPED

FEET CUT OFF

PRESENT LENGTH

TON MI. or TRIPS SINCE LAST CUT

CUMULATIVE TON MI. or TRIPS

NO. OF DAYS FROM SPUD

CUMULATIVE ROTATING HRS.

MORNING TOUR

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

DRILLER: G McIntosh

HRS. DRLD.	CORE NO.	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT. ON BIT 1000#	PUMP PRESS.	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN

DEVIATION RECORD:

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

REMARKS

1½ Rems Recond plug — 2 men working on water pump
½ pull out five Stands Regen circ
6 Circ Mix Loss Circ Material
And work pipe
4 pumps plugged up w/ Gallant Shell and loss circ material

MUD RECORD

TIME				
WEIGHT				
VISC				
W.L.-C.C.				
FLTR. CK.				
PH				
SD. CONT.				

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
GEL	40 SAXS		
DARCO SEAL	40 SAXS		
WALNUT PLUG	50 SAXS		

DAY TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD	
110	STANDS DP	10,230.62 FT.	RUN NO.	59
	SNGLS. DP	FT.	SIZE	8¾
	D.C. ID / OD	539.19 FT.	MFG.	REED
	RMR BODY OD	12.91 FT.	TYPE	CHGR
	STB BODY OD	FT.	NOZ. NO.	C
	SUBS OD	FT.	SIZE	0
	BIT OR C.B.	FT.	SER. NO.	
		FT.	DEPTH OUT	
	KELLY DOWN	9.00 FT.	CUMULATIVE HOURS RUN	
	TOTAL	10791.72 FT.	COND. OF BIT	
WT. OF STRING		LBS.	REAMER CUTTER NO.	
			TYPE	

DRILLER: R Pechalek

HRS. DRLD.	CORE NO.	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT. ON BIT 1000#	PUMP PRESS.	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN

DEVIATION RECORD:

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

REMARKS

2 circulate Clean out 5500
Clean up suctions & mud 1000
5½ Ream in Loss circulation 1000 - 330
Mix up Loss circulation material
½ Ream out to Bottom 330 - 400

MUD RECORD

TIME				
WEIGHT				
VISC				
W.L.-C.C.				
FLTR. CK.				
PH				
SD. CONT.				

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
GEL	200 SAX		
W/Plug	30 SAX		
DARCO SEAL	110 SAX		
Quick Vis	6 gallons		

EVENING TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD	
110	STANDS DP	10230.62 FT.	RUN NO	59
	SNGLS. DP	FT.	SIZE	8¾
19	D.C. ID / OD	539.19 FT.	MFG.	REED
	RMR BODY OD	1291 FT.	TYPE	CHGR
	STB BODY OD	FT.	NOZ. NO.	CUT
	SUBS OD	FT.	SIZE	OUT
	BIT OR C.B.	FT.	SER NO	ED4377
		FT.	DEPTH OUT	
	KELLY DOWN	4100 FT.	CUMULATIVE HOURS RUN	4¾
	TOTAL	10823.72 FT.	COND. OF BIT	
WT OF STRING		204M LBS.	REAMER CUTTER NO.	
			TYPE	

DRILLER: G McIntosh

HRS. DRLD.	CORE NO.	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT. ON BIT 1000#	PUMP PRESS	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN
4¾		10791	10823	32	35	40	300-600	6½				

DEVIATION RECORD:

DEPTH	DEV.	DIRECTION	DEPTH	DEV	DIRECTION	DEPTH	DEV	DIRECTION

REMARKS

400 700 DRILL
700 1015 LOSS CIR MIX MUD AND LOSS CIR MATERIAL
1015 1200 DRILL AHEAD (SLOW)

40 SAX GEL
4 gal Quick Vis
COURSE WALNUT
WALNUT
DARCO SEAL

MUD RECORD

TIME				
WEIGHT				
VISC				
W.L.-C.C.				
FLTR CK.				
PH				
SD. CONT				

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
GEL	300 SAX		
	50 SAX		
	40 SAX		
	70 SAX		

C.P.—38 (10/63) **DAILY DRILLING REPORT** REPORT NO. 88 DATE JUNE 11/65

OPERATOR: SHELL CANADA LIMITED | LOCATION LSD. SEC. TWP. RGE. W. | WELL NAME: SHELL CHORRLEAD No. 1-46 | PROVINCE: W.W.T.

CONTRACTOR: REGENT DRLG | RIG No. 6 | DRILL PIPE STRING NO. SIZE | TOOL JOINT OD | TYPE THD.

OPERATOR'S REPRESENTATIVE: [illegible] | CONTRACTOR'S TOOL PUSHER: [illegible]

PUMPS

NO.	MANUFACTURER	TYPE	STROKE LENGTH
1.	EMSCO	D-700	16
2.	EMSCO	D-500	16
3.			

CASING & LINER RECORD

SIZE	WT. & GR.	DEPTH SET FROM	DEPTH SET TO	PERFORATIONS FROM	PERFORATIONS TO	CEMENT USED	OTHER
4½"		8	7004				

TIME DISTRIBUTION—HOURS

	NORM	DAY	EVE
DRILLING ACTUAL			
REAMING			
CIRCULATION	11½		
TRIPS	11½	23¼	3½	1	½
DEVIATION SURVEY			
TEST B.O.P			
CUT OFF DRILL LINE	¾	½	
REPAIR RIG			
CORING			
WIRE LINE LOGGING			1¼
OTHER	4½	3½	
FISHING			
COMPLETEING (A) PERFORATING			
(B) RUNNING TUBING			
(C) SWABBING			
(D) TESTING			
(E) ACIDIZING			
(F) ADDITIONAL			
TOTALS	8	8	8

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. or TRIPS SINCE LAST CUT

CUMULATIVE TON MI. or TRIPS

NO. OF DAYS FROM SPUD

CUMULATIVE ROTATING HRS.

MORNING TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD	
115	STANDS DP	FT.	RUN NO.	
2	SNGLS. DP	11760-0 FT.	SIZE	
	D.C. ID / OD	FT.	MFG.	
	RMR BODY OD	FT.	TYPE	
	STB BODY OD	FT.	NOZ. NO. / SIZE	
	SUBS OD	FT.	SER. NO	
	BIT OR C.B.	FT.	DEPTH OUT	
		FT.	CUMULATIVE HOURS RUN	
	KELLY DOWN	31.63 FT.	COND. OF BIT	
	TOTAL	10791-77 FT.	REAMER CUTTER NO.	
WT. OF STRING	210,000 LBS.		TYPE	

DRILLER: J. Nikkel

HRS. DRLD.	CORE NO.	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT. ON BIT 1000#	PUMP PRESS.	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN

DEVIATION RECORD: DEPTH | DEV. | DIRECTION | DEPTH | DEV. | DIRECTION | DEPTH | DEV. | DIRECTION

REMARKS

12	12½	Pull up 10 stds.
12½	2	Rig Halliberton unit to pump water & break circ
2	2½	Run in
2½	3	Break circ 90' off btm.
3	5	Mix loss circ material & work dn pumps (plugged)
5	5½	Try break circ (pipe plugged)
5½	7	Pull out to casing
7	8	Cot & slip line

MUD RECORD

TIME				
WEIGHT				
VISC				
W.L.-C.C.				
FLTR. CK.				
PH				
SD. CONT.				

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

DAY TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD	
110	STANDS DP	10,230.62 FT.	RUN NO.	59
	SNGLS. DP	FT.	SIZE	9¾
19	D.C. ID / OD	539.19 FT.	MFG.	REED
	RMR BODY OD	12.91 FT.	TYPE	CHGR
	STB BODY OD	FT.	NOZ. NO. C / SIZE O	
	SUBS OD	FT.	SER. NO.	ED4377
	BIT OR C.B.	FT.	DEPTH OUT	
		FT.	CUMULATIVE HOURS RUN	
	KELLY DOWN	9.00 FT.	COND. OF BIT	
	TOTAL	10791.77 FT.	REAMER CUTTER NO.	
WT. OF STRING	215,000 LBS.		TYPE	

DRILLER: R. Pacholek

HRS. DRLD.	CORE NO.	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT. ON BIT 1000#	PUMP PRESS.	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN

DEVIATION RECORD: DEPTH | DEV. | DIRECTION | DEPTH | DEV. | DIRECTION | DEPTH | DEV. | DIRECTION

REMARKS

½	Slip & Cut drill line	8⁰⁰ - 8³⁰
¼	Sqr Rig	8³⁰ - 8⁴⁵
2	Pull Out	8⁴⁵ - 10⁴⁵
1¾	Run In to 3000'	10⁴⁵ - 12³⁰
3½	Jack Rig While wait on Water pump motor	12³⁰ - 4⁰⁰
	Std = 53-70 including all + 3 Pipe	

MUD RECORD

TIME				
WEIGHT				
VISC				
W.L.-C.C.				
FLTR. CK.				
PH				
SD. CONT.				

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

EVENING TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD	
	STANDS DP	FT.	RUN NO	
	SNGLS. DP	FT.	SIZE	
	D.C ID / OD	FT.	MFG.	
	RMR BODY OD	FT.	TYPE	
	STB BODY OD	FT.	NOZ. NO. / 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: G. McIntosh

HRS. DRLD.	CORE NO.	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT. ON BIT 1000#	PUMP PRESS	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN

DEVIATION RECORD: DEPTH | DEV. | DIRECTION | DEPTH | DEV | DIRECTION | DEPTH | DEV | DIRECTION

REMARKS

2	Jack Rig While wait on Water pump Motor	4⁰⁰ - 6⁰⁰
1	Run In to 8000'	6⁰⁰ - 7⁰⁰
3	Pump Water into 210 Bbls Tank Rig to	7⁰⁰ - 10⁰⁰
	Run Gel Plug	
1	Trench Rig pits	10⁰⁰ 11⁰⁰
1	Mixed Gel plug	11⁰⁰ 12⁰⁰

MUD RECORD

TIME				
WEIGHT				
VISC				
W.L.-C.C.				
FLTR. CK.				
PH				
SD. CONT				

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

C.P.—30 (10/63) **DAILY DRILLING REPORT** REPORT NO. 87 DATE June 10/65

OPERATOR	LOCATION LSD.	SEC.	TWP.	RGE.	W.	WELL NAME	No.	PROVINCE
SHELL CANADA LIMITED						SHELL CHOIR RIKAR	1-46	N.W.T

CONTRACTOR	RIG No.	DRILL PIPE STRING NO.	SIZE	TOOL JOINT	TYPE THD.
FREEWT DRLG	6	2	5"	6 1/4 OD	X-H

OPERATOR'S REPRESENTATIVE: E Rettinger

CONTRACTOR'S TOOL PUSHER: L Barnwell

PUMPS

NO.	MANUFACTURER	TYPE	STROKE LENGTH
1.	EMSCO	D-700	16
2.	EMSCO	A-500	16
3.			

CASING & LINER RECORD

SIZE	WT. & GR.	DEPTH SET FROM	DEPTH SET TO	PERFORATIONS FROM	PERFORATIONS TO	CEMENT USED	OTHER
9 5/8		0	7005				

TIME DISTRIBUTION—HOURS

	MORN	DAY	EVE
DRILLING ACTUAL	7	1/2	
REAMING			
CIRCULATING	1/2		
TRIPS		5	
DEVIATION SURVEY Wk Co.		1 3/4	
TEST B.O.P			
CUT OFF DRILL LINE			
REPAIR RIG			
CORING Sn Rig		1/4	
WIRE LINE LOGGING			
OTHER	1/2	1/2	
FISHING			
COMPLETING (A) PERFORATING			
(B) RUNNING TUBING			
(C) SWABBING			
(D) TESTING			
(E) ACIDIZING			
(F) ADDITIONAL			
TOTALS	8	8	

TIME SUMMARY (OFFICE USE ONLY)

CONTRACTOR'S TIME HRS:

OPERATOR'S TIME:

HRS. W/D.P: 24

HRS WO/D.P:

HRS STANDBY

WIRE LINE RECORD

REEL NO

NO OF LINES SIZE

FEET SLIPPED

FEET CUT OFF

PRESENT LENGTH

TON MI. or TRIPS SINCE LAST CUT

CUMULATIVE TON MI. or TRIPS

NO. OF DAYS FROM SPUD

CUMULATIVE ROTATING HRS.

MORNING TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD	
109	STANDS DP	FT.	RUN NO.	58
2	SNGLS. DP	10199.22 FT.	SIZE	8 3/4
	1-8 1/2 D.C.		MFG.	SEC
19	8-6 1/4 OD	539.19 FT.	TYPE	H8-J
2	RMR BODY OD	12.9 FT.	NOZ. NO.	2 1/1
	STB BODY OD	FT.	SIZE	34/17
	SUBS OD	FT.	SER. NO	74824
	BIT OR C.B.	FT.	DEPTH OUT	Drlg.
		FT.	CUMULATIVE HOURS RUN	18 1/4
	KELLY DOWN	31 FT.	COND. OF BIT	Drlg.
	TOTAL	10782.22 FT.	REAMER CUTTER NO.	
WT. OF STRING	215,000 LBS.		TYPE	

DRILLER: J. Hefford

HRS. DRLD.	CORE NO.	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT. ON BIT 1000#	PUMP PRESS.	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN
7		10697	10782	85 ft	110	20/30	400	5 1/2	61			

DEVIATION RECORD: DEPTH | DEV. | DIRECTION | DEPTH | DEV. | DIRECTION | DEPTH | DEV. | DIRECTION

REMARKS

12 00 - 12 30	WORK ON PUMPS (PLUGED W/LOSS CIRC. MATERIAL)
12 30 - 6 00	DRLG
6 00 - 6 30	REPLACE PUMP ENGINE
6 30 - 7 30	DRLG
7 30 - 8 00	CIRCULATE ON COMMS.

MUD RECORD

TIME	12 AM.	4 AM	6 AM
WEIGHT	8.4	8.5	8.5
VISC	30	30	30
W.L.-C.C.			
FLTR. CK.			
PH			
SD. CONT.			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
COARSE	WALNUT	PLUG	
120 SAXS			
WATER			

DAY TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD	
110	STANDS DP	10230.65 FT.	RUN NO.	59
	SNGLS. DP	FT.	SIZE	9 3/4
	ID D.C.		MFG.	Sec
19	OD	539.19 FT.	TYPE	H8J
	RMR BODY OD	12.91 FT.	NOZ. NO.	3
	STB BODY OD	FT.	SIZE	2-20 1-17
	SUBS OD	FT.	SER. NO.	74274
	BIT OR C.B.	FT.	DEPTH OUT	10,791
		FT.	CUMULATIVE HOURS RUN	13
	KELLY DOWN	9.00 FT.	COND. OF BIT	Good
	TOTAL	10791.22 FT.	REAMER CUTTER NO.	
WT. OF STRING		LBS.	TYPE	

DRILLER: R. Pachal

HRS. DRLD.	CORE NO.	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT. ON BIT 1000#	PUMP PRESS.	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN
1/2		10782	10791		40	30	400	5 1/2	61			

DEVIATION RECORD: DEPTH | DEV. | DIRECTION | DEPTH | DEV. | DIRECTION | DEPTH | DEV. | DIRECTION

REMARKS

1/2	Drill & Loss Cir @ 10,791
1 1/4	Try Regain Cir
4 1/4	Pull Out
1/2	Perforate Bottom Jab Sinks
1/2	Set Rig
3 1/4	Run In
8 00 - 8 30	
8 30 - 10 15	
10 15 - 2 30	
2 30 - 3 00	
3 00 - 3 15	
3 15 - 4 00	

#3 Pipe std 53-70 inboard

MUD RECORD

TIME	8.00
WEIGHT	8.4
VISC	28
W.L.-C.C.	
FLTR. CK.	
PH	
SD. CONT.	

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

EVENING TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD	
116	STANDS DP	FT.	RUN NO	
1	SNGLS. DP	10760.09 FT.	SIZE	
	D.C ID		MFG.	
	OD	FT.	TYPE	
	RMR BODY OD	30.00 FT.	NOZ. NO.	
	STB BODY OD	FT.	SIZE	
	SUBS OD	FT.	SER NO	
	BIT OR C.B.	FT	DEPTH OUT	
		FT.	CUMULATIVE HOURS RUN	
	KELLY DOWN	TIH FT.	COND. OF BIT	
	TOTAL	10791. FT.	REAMER CUTTER NO.	
WT OF STRING		LBS.	TYPE	

DRILLER

HRS. DRLD.	CORE NO.	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT. ON BIT 1000#	PUMP PRESS	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN

DEVIATION RECORD: DEPTH | DEV. | DIRECTION | DEPTH | DEV | DIRECTION | DEPTH | DEV | DIRECTION

REMARKS

4 00	5 30 RUN IN OPEN END TO 7000'
5 30	10 00 RIG TO RUN DIESEL-GEL PLUG & MIX LOSS CIRC. MAT.
10 00	11 00 RUN IN
11 00	12 00 TRY TO BREAK CIRC (PIPE PLUGED W/LOSS CIRC

MUD RECORD

TIME	
WEIGHT	
VISC	
W.L.-C.C.	
FLTR. CK.	
PH	
SD. CONT	

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

C.P.—38 (10/63) **DAILY DRILLING REPORT** REPORT NO. 86 DATE June 9/65

OPERATOR	LOCATION LSD.	SEC.	TWP.	RGE.	W.	WELL NAME	No.	PROVINCE
SHELL CANADA LIMITED						SHELL PEMBINA	1-46	W.W.T

CONTRACTOR	RIG No.	DRILL PIPE STRING NO.	SIZE	TOOL JOINT	TYPE THD.
FREWI DRLG	6	2	5"	6 1/4 OD	X.H.

OPERATOR'S REPRESENTATIVE: E. Kemp

CONTRACTOR'S TOOL PUSHER: L. Dennis

PUMPS

NO.	MANUFACTURER	TYPE	STROKE LENGTH
1.	KANSAS	D-700	16
2.	EMSCO	D-500	16
3.			

CASING & LINER RECORD

SIZE	WT. & GR.	DEPTH SET FROM	DEPTH SET TO	PERFORATIONS FROM	PERFORATIONS TO	CEMENT USED	OTHER
9 5/8		0	2005				

TIME DISTRIBUTION—HOURS

	MORN	DAY	EVE
DRILLING ACTUAL			5 1/4
REAMING To 57m			1 3/4
CIRCULATING			1/4
TRIPS	3 3/4	3	
DEVIATION SURVEY			
TEST B.O.P. Press		1 1/2	
CUT OFF DRILL LINE	1/2	1/2	
REPAIR RIG			
CORING			
WIRE LINE LOGGING			
OTHER	11 1/2	3	3 HM
FISHING			
COMPLETING (A) PERFORATING			
(B) RUNNING TUBING			
(C) SWABBING			
(D) TESTING			
(E) ACIDIZING			
(F) ADDITIONAL			
TOTALS	8	8	8

TIME SUMMARY (OFFICE USE ONLY)

CONTRACTOR'S TIME HRS:

OPERATOR'S TIME:

HRS. W/D.P: 17 Hrs

HRS WO/D.P:

HRS STANDBY

WIRE LINE RECORD

REEL NO

NO OF LINES SIZE

FEET SLIPPED

FEET CUT OFF

PRESENT LENGTH

TON MI. or TRIPS SINCE LAST CUT

CUMULATIVE TON MI. or TRIPS

NO. OF DAYS FROM SPUD

CUMULATIVE ROTATING HRS.

MORNING TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD	
114	STANDS DP	FT.	RUN NO.	57
1	SNGLS. DP	10635.07 FT.	SIZE	8 3/4
	D.C. ID		MFG.	REED
	D.C. OD	FT.	TYPE	YHW6
	RMR BODY OD	FT.	NOZ. NO.	Op
	STB BODY OD	FT.	NOZ. SIZE	8
	SUBS OD	FT.	SER. NO	ED4479
	BIT OR C.B.	FT.	DEPTH OUT	NEVER
		FT.	CUMULATIVE HOURS RUN	DRILLED
	KELLY DOWN	5— FT.	COND. OF BIT	
	TOTAL	10640.07 FT.	REAMER CUTTER NO.	
WT. OF STRING	180,000 LBS.		TYPE	

DRILLER: J. Nicholl

HRS. DRLD.	CORE NO.	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT. ON BIT 1000#	PUMP PRESS.	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN

DEVIATION RECORD:

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

REMARKS

6 00	6 45	DISPLACE PLUG
6 45	1 00	WORK ON PUMPS (PLUGED WITH LOSS CIRC MATERIAL)
1 00	2 30	POH OUT TO CASING
2 30	3 15	SLIP LINE
3 15	3 30	WORK ON PUMP (PLUGED WITH LOSS CIRC MATERIAL)
3 30	5 00	FINISH POH
5 00	8 00	CHANGE RUBBERS IN 5" PIPE RAMS - 3 Hrs Repair

MUD RECORD

TIME				
WEIGHT				
VISC				
W.L.-C.C.				
FLTR. CK.				
PH				
SD. CONT.				

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

DAY TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD	
104	STANDS DP	FT.	RUN NO.	58
1	SNGLS. DP	10073.07 FT.	SIZE	8 3/4
	D.C. ID		MFG.	SEC
19	D.C. OD	539.19 FT.	TYPE	H87J
	RMR BODY OD	12.91 FT.	NOZ. NO.	2 / 1
	STB BODY OD	FT.	NOZ. SIZE	24 / 17
	SUBS OD	FT.	SER. NO.	748274
	BIT OR C.B.	FT.	DEPTH OUT	N
		FT.	CUMULATIVE HOURS RUN	8
	KELLY DOWN	15.00 FT.	COND. OF BIT	W
	TOTAL	10640.17 FT.	REAMER CUTTER NO.	
WT. OF STRING		LBS.	TYPE	

DRILLER: R. Pocholik

HRS. DRLD.	CORE NO.	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT. ON BIT 1000#	PUMP PRESS.	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN
		No 3	Pipe	@ at 53-70 inclusive								

DEVIATION RECORD: 1/2 @ 1966 4 PM

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

REMARKS

Install Pipe Rams - 2 hr — Slip & Cut line 1/2
Clean Out Sour Cr. material from Pumps 1 hr — Trip for 3
Press test Pipe Rams 1 hr
Pressure Test B.O.P.
Clean out Pipe Rams - Leak on B.O.P. Pipe Ram.
Door when Pressure Test applied -
800# Drop in P.S.I. in 30 MINS NOVISABLE
Leak on Surface

MUD RECORD

TIME				
WEIGHT				
VISC				
W.L.-C.C.				
FLTR. CK.				
PH				
SD. CONT.				

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

EVENING TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD	
108	STANDS DP	FT.	RUN NO	58
2	SNGLS. DP	1010 4.60 FT.	SIZE	8 3/4
	1-8 1/2 OD D.C. ID		MFG.	SEC
19	18-6 1/2 OD D.C.	539.19 FT.	TYPE	H87J
	RMR BODY OD	12.91 FT.	NOZ. NO.	2 / 1
	STB BODY OD	FT.	NOZ. SIZE	24 / 17
	SUBS OD	FT.	SER NO	748274
	BIT OR C.B.	FT	DEPTH OUT	Drlg
		FT.	CUMULATIVE HOURS RUN	5 1/4
	KELLY DOWN	41 FT.	COND. OF BIT	Drlg.
	TOTAL	10697.72 FT.	REAMER CUTTER NO.	
WT OF STRING	165,000	LBS.	TYPE	

DRILLER: J. Nicholl

HRS. DRLD.	CORE NO.	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT. ON BIT 1000#	PUMP PRESS	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN
5 1/4		10640	10697	57 ft	40	30	500	5 1/2	54			

DEVIATION RECORD:

DEPTH	DEV.	DIRECTION	DEPTH	DEV	DIRECTION	DEPTH	DEV	DIRECTION

REMARKS

4 00	4 30	RUN IN
11 30	6 00	REAM TO BTm. & WORK PIPE - LOSS CIRC.
6 00	10 00	DRLG
10 00	10 30	CHANGE PUMPS - (PLUGED WITH L.C. MATERIAL)
10 30	11 00	DRLG
11 00	12 00	PIPE ON COMINS.

MUD RECORD

TIME	8 P.M	10 P.M.		
WEIGHT	8.5	8.5		
VISC	30	30		
W.L.-C.C.				
FLTR. CK.				
PH				
SD. CONT				

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
35 sacks Walnut plug.		Coarse	

C.P.—38 (10/63) **DAILY DRILLING REPORT** REPORT NO. 85 DATE June 8/67

OPERATOR	LOCATION LSD.	SEC.	TWP.	RGE.	W.	WELL NAME	No.	PROVINCE
SHELL CANADA LIMITED						SHELL CHURCHILL	1-46	N.W.T

CONTRACTOR	RIG No.	DRILL PIPE STRING NO. SIZE	TOOL JOINT 6 1/4 OD	TYPE THD. X H
REGENT DRLG	6	2 5"		

OPERATOR'S REPRESENTATIVE — CONTRACTOR'S TOOL PUSHER: [signature]

PUMPS

NO.	MANUFACTURER	TYPE	STROKE LENGTH
1.	EMSCO	D-700	16
2.	EMSCO	D-500	16
3.			

CASING & LINER RECORD	SIZE	WT. & GR.	DEPTH SET FROM	DEPTH SET TO	PERFORATIONS FROM	PERFORATIONS TO	CEMENT USED	OTHER
	9 5/8		0	7004				

TIME DISTRIBUTION—HOURS

	MORN	DAY	EVE
DRILLING ACTUAL			
REAMING			
CIRCULATING			
TRIPS	4		
DEVIATION SURVEY			
TEST B.O.P			
CUT OFF DRILL LINE			
REPAIR RIG			
CORING			
WIRE LINE LOGGING			
OTHER	4		
FISHING			
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

WIRE LINE RECORD

REEL NO	
NO OF LINES	SIZE
FEET SLIPPED	
FEET CUT OFF	
PRESENT LENGTH	
TON MI. or TRIPS SINCE LAST CUT	
CUMULATIVE TON MI. or TRIPS	
NO. OF DAYS FROM SPUD	
CUMULATIVE ROTATING HRS.	

MORNING TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD	
114	STANDS DP	FT.	RUN NO.	56
1	SNGLS. DP	10635.05 FT.	SIZE	8 3/4
	D.C. ID		MFG.	REED
	D.C. OD	FT.	TYPE	YHWJG
	RMR BODY OD	FT.	NOZ. NO.	6 6 6
	STB BODY OD	FT.	NOZ. SIZE	OUT
1	SUBS OD	FT.	SER. NO	E04479
	BIT OR C.B.	FT.	DEPTH OUT	N
		FT.	CUMULATIVE HOURS RUN	E
	KELLY DOWN	5 FT.	COND. OF BIT	O
	TOTAL	10640.05 FT.	REAMER CUTTER NO.	
	WT. OF STRING	125,000 LBS.	TYPE	

DRILLER: J. Hibbard

HRS. DRLD.	CORE NO.	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT. ON BIT 1000#	PUMP PRESS.	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN
		No. 3 Pipe		53 stds. 2 sgls — 70 stds 2 singles Inclusive								

DEVIATION RECORD:	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

REMARKS

12	1	WAIT ON BIT (CUT-OUT)
1	3	RUN IN TO 7000' PICKING UP 9 SINGLES NOT PIPE
3	5	RIG TO RUN PLUG (DIESEL — GEL)
5	7	RUN IN TO REEL PLUG (NO PLUG) (10640)
7	8	PREPAIR TO MIX LOSS CIRC. MATERIAL

"Where is the No 3. Pipe?"

MUD RECORD

TIME				
WEIGHT				
VISC				
W.L.-C.C.				
FLTR. CK.				
PH				
SD. CONT.				

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

DAY TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD	
114	STANDS DP	FT.	RUN NO.	
1	SNGLS. DP	10635.05 FT.	SIZE	
	D.C. ID		MFG.	
	D.C. OD	FT.	TYPE	
	RMR BODY OD	FT.	NOZ. NO.	
	STB BODY OD	FT.	NOZ. SIZE	
	SUBS OD	FT.	SER. NO.	
	BIT OR C.B.	FT.	DEPTH OUT	
		FT.	CUMULATIVE HOURS RUN	
	KELLY DOWN	5.00 FT.	COND. OF BIT	
	TOTAL	10640.05 FT.	REAMER CUTTER NO.	
	WT. OF STRING	LBS.	TYPE	

DRILLER: [signature]

HRS. DRLD.	CORE NO.	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT. ON BIT 1000#	PUMP PRESS.	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN

DEVIATION RECORD:	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

REMARKS

½		Pump Mud into Suction from Stand By Mud Tanks
	8	Mix Walnut Mush 8:00 - 11:00
1		Rig Up Surface Mud Guns on Suction 11:00 - 12:00
2½		Mix Seal Cir Material 12:00 - 2:30
½		~~Pump Loss Cir Material + Pooped~~ 2:30
½		Run in Hole 2:30 - 3:00
		Pump Loss Cir Material + Pooped 3:00 - 4:00

MUD RECORD

TIME				
WEIGHT				
VISC				
W.L.-C.C.				
FLTR. CK.				
PH				
SD. CONT.				

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

EVENING TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD	
114	STANDS DP	FT.	RUN NO	57
1	SNGLS. DP	10635.05 FT.	SIZE	8 3/4
	D.C ID		MFG.	REED
	D.C OD	FT.	TYPE	YHWJG
	RMR BODY OD	FT.	NOZ. NO.	OPEN
	STB BODY OD	FT.	NOZ. SIZE	
	SUBS OD	FT.	SER NO	E04479
	BIT OR C.B.	FT	DEPTH OUT	1
		FT.	CUMULATIVE HOURS RUN	
	KELLY DOWN	5 FT.	COND. OF BIT	
	TOTAL	10640.05 FT.	REAMER CUTTER NO.	
	WT OF STRING	185,000 LBS.	TYPE	

DRILLER

HRS. DRLD.	CORE NO.	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT. ON BIT 1000#	PUMP PRESS	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN

DEVIATION RECORD:	DEPTH	DEV.	DIRECTION	DEPTH	DEV	DIRECTION	DEPTH	DEV	DIRECTION

REMARKS

4	6	Displace plug — work on weight scale
6	7	Regain circ clean to btm & circ'd.
7	7:30	Circulate
8:30	11	Pull up 5 stds & mix loss circ material.
11	11:30	Run in
11:30	12	Pump plug.

MUD RECORD

TIME				
WEIGHT				
VISC				
W.L.-C.C.				
FLTR CK.				
PH				
SD. CONT				

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
5 sacks	crushed walnut		
30 sacks	walnut plug		
30 sacks	Poloco seal		
10 sacks	Mica		

10 sacks wood lock

C.P.—38 (10/63)

DAILY DRILLING REPORT

REPORT NO. 84 DATE June 9/65

OPERATOR: SHELL CANADA LIMITED

CONTRACTOR: REBENT DRLG — RIG No. 6

OPERATOR'S REPRESENTATIVE: E.E. Hough

CONTRACTOR'S TOOL PUSHER: L. Bernard

LOCATION LSD. SEC. TWP. RGE. W.

WELL NAME: SHELL CHOIERLENE — No. I-46 — PROVINCE: NWT

DRILL PIPE STRING NO. 2 SIZE 3½" — TOOL JOINT 6 1/4 OD — TYPE THD. X-H

PUMPS

NO.	MANUFACTURER	TYPE	STROKE LENGTH
1.	EMSCO	D-700	16
2.	EMSCO	D-500	16
3.			

CASING & LINER RECORD

SIZE	WT. & GR.	DEPTH SET FROM	DEPTH SET TO	PERFORATIONS FROM	PERFORATIONS TO	CEMENT USED	OTHER
9⅝		0	3004				

TIME DISTRIBUTION—HOURS

	MORN	DAY	EVE
DRILLING ACTUAL			
REAMING			
CIRCULATING			
TRIPS	5¾		
DEVIATION SURVEY			
TEST B.O.P	¼		
CUT OFF DRILL LINE			
REPAIR RIG			
CORING			
WIRE LINE LOGGING			
OTHER	2		
FISHING			
COMPLETING (A) PERFORATING			
(B) RUNNING TUBING			
(C) SWABBING			
(D) TESTING			
(E) ACIDIZING			
(F) ADDITIONAL			
TOTALS	8		

TIME SUMMARY (OFFICE USE ONLY)

CONTRACTOR'S TIME HRS:

OPERATOR'S TIME:

HRS. W/D.P: 24 hrs

HRS WO/D.P:

HRS STANDBY

WIRE LINE RECORD

REEL NO

NO OF LINES SIZE

FEET SLIPPED

FEET CUT OFF

PRESENT LENGTH

TON MI. or TRIPS SINCE LAST CUT

CUMULATIVE TON MI. or TRIPS

NO. OF DAYS FROM SPUD

CUMULATIVE ROTATING HRS.

MORNING TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD	
114	STANDS DP	FT.	RUN NO.	1
1	SNGLS. DP	10635.05 FT.	SIZE	
	D.C. ID		MFG.	
	OD	FT.	TYPE	
	RMR BODY OD	FT.	NOZ. NO.	
	STB BODY OD	FT.	SIZE	
	SUBS OD	FT.	SER. NO	
	BIT OR C.B.	FT.	DEPTH OUT	
		FT.	CUMULATIVE HOURS RUN	
	KELLY DOWN	5.00 FT.	COND. OF BIT	
	TOTAL	10640.05 FT.	REAMER CUTTER NO.	
WT. OF STRING	185,000 LBS.		TYPE	

DRILLER: J. Hebbard

HRS. DRLD.	CORE NO.	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT. ON BIT 1000#	PUMP PRESS.	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN

DEVIATION RECORD:

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

REMARKS

12⁰⁰ 12⁴⁵ RUN WATER TO MUD TANKS & HOOK UP FILL UP LINE
12⁴⁵ 4³⁰ POH-OUT (MEASURE)
4³⁰ 5⁰⁰ RIG SERVICE & BOP CHECK
5⁰⁰ 6⁰⁰ START PUMP AT LAKE & HOOK INTO STORAGE TANKS TO
6⁰⁰ 8⁰⁰ KEEP HOLE FULL
8⁰⁰ PICK UP 13 Dgls. & RUN IN TO 6500' OPEN END

MUD RECORD

TIME		
WEIGHT		
VISC		
W.L.-C.C.		
FLTR. CK.		
PH		
SD. CONT.		

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

DAY TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD	
114	STANDS DP	FT.	RUN NO.	
1	SNGLS. DP	10635.05 FT.	SIZE	
	D.C. ID		MFG.	
	OD	FT.	TYPE	
	RMR BODY OD	FT.	NOZ. NO	
	STB BODY OD	FT.	SIZE	
	SUBS OD	FT.	SER. NO.	
	BIT OR C.B.	FT.	DEPTH OUT	
		FT.	CUMULATIVE HOURS RUN	
	KELLY DOWN	5.00 FT.	COND. OF BIT	
	TOTAL	10,640.05 FT.	REAMER CUTTER NO.	
WT. OF STRING		LBS.	TYPE	

DRILLER: R. Pacholek

HRS. DRLD.	CORE NO.	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT. ON BIT 1000#	PUMP PRESS.	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN

DEVIATION RECORD:

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

REMARKS

2¾ Work on Pump @ Lake 8⁰⁰ - 10⁴⁵
Rig to Cement
¾ Slip & Cut Drill Line 10⁴⁵ - 11³⁰
3 Rig to drop Cement Plug 11³⁰ - 2³⁰
1½ Run in hole 2³⁰ - 4⁰⁰

MUD RECORD

TIME		
WEIGHT		
VISC		
W.L.-C.C.		
FLTR. CK.		
PH		
SD. CONT.		

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

EVENING TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD	
114	STANDS DP	FT.	RUN NO	
1	SNGLS. DP	10635.05 FT.	SIZE	
	D.C ID		MFG.	
	OD	FT.	TYPE	
	RMR BODY OD	FT.	NOZ. NO.	
	STB BODY OD	FT.	SIZE	
	SUBS OD	FT.	SER NO	
	BIT OR C.B.	FT	DEPTH OUT	
		FT.	CUMULATIVE HOURS RUN	
	KELLY DOWN	5.00 FT.	COND. OF BIT	
	TOTAL	10640.05	REAMER CUTTER NO.	
WT OF STRING		LBS.	TYPE	

DRILLER

HRS. DRLD.	CORE NO.	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT. ON BIT 1000#	PUMP PRESS	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN

DEVIATION RECORD:

DEPTH	DEV.	DIRECTION	DEPTH	DEV	DIRECTION	DEPTH	DEV	DIRECTION

REMARKS

N⁰⁰ 6⁰⁰ CEMENT & DISPLACE
6⁰⁰ 11⁰⁰ LAY DOWN SINGELS FOR HARD BANDING
11⁰⁰ 11³⁰ RIG SERVICE & BOP CHECK
11³⁰ 12⁰⁰ WAIT ON BIT

MUD RECORD

TIME		
WEIGHT		
VISC		
W.L.-C.C.		
FLTR CK.		
PH		
SD. CONT		

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

C.P.—38 (10/63)

DAILY DRILLING REPORT

REPORT NO. | DATE June 8 '63

OPERATOR: SHELL CANADA LIMITED | LOCATION LSD. SEC. TWP. RGE W. | WELL NAME: Shell Cloverleaf | No. I-46 | PROVINCE: NWT

CONTRACTOR: Regent Drilling | RIG No. 6 | DRILL PIPE STRING NO. SIZE | TOOL JOINT OD | TYPE THD.

OPERATOR'S REPRESENTATIVE: E Ettinger | CONTRACTOR'S TOOL PUSHER: L Burnside

PUMPS

NO.	MANUFACTURER	TYPE	STROKE LENGTH
1.			
2.			
3.			

CASING & LINER RECORD

	SIZE	WT. & GR.	DEPTH SET FROM	DEPTH SET TO	PERFORATIONS FROM	PERFORATIONS TO	CEMENT USED	OTHER

TIME DISTRIBUTION—HOURS

	MORN	DAY	EVE
DRILLING ACTUAL		1	
REAMING			
CIRCULATING			
TRIPS		3½	
DEVIATION SURVEY			
TEST B.O.P Pressure		2	
CUT OFF DRILL LINE		3/4	
REPAIR RIG			
CORING			
WIRE LINE LOGGING			
OTHER		2	
FISHING			
COMPLETING (A) PERFORATING			
(B) RUNNING TUBING			
(C) SWABBING			
(D) TESTING			
(E) ACIDIZING			
(F) ADDITIONAL			
TOTALS		8	

TIME SUMMARY (OFFICE USE ONLY)

CONTRACTOR'S TIME HRS:

OPERATOR'S TIME:

HRS. W/D.P: 24

HRS WO/D.P:

HRS STANDBY

WIRE LINE RECORD

REEL NO

NO OF LINES SIZE

FEET SLIPPED

FEET CUT OFF

PRESENT LENGTH

TORN MI. or TRIPS SINCE LAST CUT

CUMULATIVE TORN MI. or TRIPS

NO. OF DAYS FROM SPUD

CUMULATIVE ROTATING HRS.

MORNING TOUR

DRILLING ASSEMBLY

NO.			
10	STANDS DP		FT. 10,010.27
	SNGLS. DP		FT.
	D.C. ID		
	D.C. OD		FT. 539.15
	RMR BODY OD		FT. 12.67
	STB BODY OD		FT.
	SUBS OD		FT.
	BIT OR C.B.		FT.
			FT.
	KELLY DOWN		FT. 37
	TOTAL		FT. 10630.67
WT. OF STRING		205,000	LBS.
DRILLER		H Pachelski	

BIT RECORD

RUN NO.	55
SIZE	8¾
MFG.	Sec
TYPE	H4J
NOZ. NO.	3
NOZ. SIZE	11
SER. NO	787927
DEPTH OUT	10630
CUMULATIVE HOURS RUN	11¾
COND. OF BIT	
REAMER CUTTER NO.	
TYPE	

HRS. DRLD.	CORE NO.	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT. ON BIT 1000#	PUMP PRESS.	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN
—												

DEVIATION RECORD:

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

REMARKS

Circulate Sample - Loss Circulation 12:00
Pull up 10 Std @ 10641' 5:00
Pull Out 5:00 - 8:00

MUD RECORD

TIME	
WEIGHT	
VISC	T
W.L.-C.C.	
FLTR. CK.	R
PH	
SD. CONT.	1 P

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

DAY TOUR

DRILLING ASSEMBLY

NO.			
69	STANDS DP		FT.
2	SNGLS. DP		FT. 10191.32
	D.C. ID		
	D.C. OD		FT. 422.90
	RMR BODY OD		FT. 5
	STB BODY OD		FT. 3.80
	SUBS OD		FT. 5.80
	BIT OR C.B.		FT.
			FT.
	KELLY DOWN		FT. 10.00
	TOTAL		FT. 10640.82
WT. OF STRING		200,000	LBS.
DRILLER		J Wilford	

BIT RECORD

RUN NO.	56
SIZE	8¾
MFG.	SEC
TYPE	H4J
NOZ. NO.	No Nz
NOZ. SIZE	
SER. NO.	774163
DEPTH OUT	N/E
CUMULATIVE HOURS RUN	E
COND. OF BIT	W
REAMER CUTTER NO.	
TYPE	

HRS. DRLD.	CORE NO.	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT. ON BIT 1000#	PUMP PRESS.	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN

DEVIATION RECORD:

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

REMARKS

8:00 8:30 FINISH OUT
8:30 9:00 R.G SERVICE
9:00 10:00 RIG UP TO TEST CASING
10:00 12:00 PRESSURE TEST CASING & BOPS
12:00 2:30 RUN IN TO 6500'
2:30 3:00 SLIP & CUT LINE
3:00 4:00 CLEAN TANKS & PUMP MUD FROM STORAGE TANKS

MUD RECORD

TIME	
WEIGHT	
VISC	Loss
W.L.-C.C.	
FLTR. CK.	
PH	
SD. CONT.	CIR

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

EVENING TOUR

DRILLING ASSEMBLY

NO.			
	STANDS DP		FT. 10198.32
	SNGLS. DP		FT.
	D.C. ID		
	D.C. OD	422.90	FT.
	RMR BODY OD		FT.
	STB BODY OD		FT.
	SUBS OD	3.80	FT.
	BIT OR C.B.		FT.
	JARS	5.80	FT.
	KELLY DOWN	9.18	FT.
	TOTAL	10640.82	FT.
WT OF STRING		200	LBS.
DRILLER			

BIT RECORD

RUN NO	56
SIZE	8¾
MFG.	SEC
TYPE	H4J
NOZ. NO.	3
NOZ. SIZE	NONE
SER NO	774163
DEPTH OUT	
CUMULATIVE HOURS RUN	
COND. OF BIT	
REAMER CUTTER NO.	
TYPE	

HRS. DRLD.	CORE NO.	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT. ON BIT 1000#	PUMP PRESS	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN

DEVIATION RECORD:

DEPTH	DEV.	DIRECTION	DEPTH	DEV	DIRECTION	DEPTH	DEV	DIRECTION

REMARKS

Mud in 100 BBLS OF MUD.
40 - 5 Sx Coarse Walnut
25 - 5 Sx Palco. Seal
10 - 5 Sx - Mica.
10 - 5 Sx - Wood Flake
Drill To 10640 While Spotting Plug on Bottom
Lost Complete Returns Hole had taken approx 1000 BBLS
of Water - No sign of Gas or Water Flow

MUD RECORD

TIME	
WEIGHT	Loss
VISC	
W.L.-C.C.	
FLTR. CK.	
PH	C.R.
SD. CONT	

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

C.P. 38 (10/63) **DAILY DRILLING REPORT** REPORT NO. 82 DATE June 5 1965

OPERATOR	LOCATION LSD. SEC. TWP. RGE. W.	WELL NAME	No.	PROVINCE
SHELL CANADA LIMITED		Lloyd Creek	1-46	NWT

CONTRACTOR	RIG No.	DRILL PIPE STRING NO. SIZE	TOOL JOINT	OD
TRIDENT DRLG	SIX	2 5"	TYPE THD.	X-H

OPERATOR'S REPRESENTATIVE: E.B. Hinger

CONTRACTOR'S TOOL PUSHER: L.E. Burnside

PUMPS

NO.	MANUFACTURER	TYPE	STROKE LENGTH
1.	Emsco	D700	16"
2.	Emsco	D500	16"
3.			

CASING & LINER RECORD	SIZE	WT. & GR.	DEPTH SET FROM	DEPTH SET TO	PERFORATIONS FROM	PERFORATIONS TO	CEMENT USED	OTHER

TIME DISTRIBUTION — HOURS

	MORN	DAY	EVE
DRILLING ACTUAL		4½	7½
REAMING TO BTM.		2½	
CIRCULATING			
TRIPS		3½	
DEVIATION SURVEY			
TEST B.O.P			
CUT OFF DRILL LINE		3½	
REPAIR RIG			½
CORING			
WIRE LINE LOGGING			
OTHER		½	½
FISHING			
COMPLETING (A) PERFORATING			
(B) RUNNING TUBING			
(C) SWABBING			
(D) TESTING			
(E) ACIDIZING			
(F) ADDITIONAL			
TOTALS		8	

TIME SUMMARY (OFFICE USE ONLY)

CONTRACTOR'S TIME HRS:

OPERATOR'S TIME: 23 hrs.

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. or TRIPS SINCE LAST CUT

CUMULATIVE TON MI. or TRIPS

NO. OF DAYS FROM SPUD

CUMULATIVE ROTATING HRS.

MORNING TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD	
108	STANDS DP	99 90.9 FT.	RUN NO.	54
	SNGLS. DP	FT.	SIZE	8 3/4
	D.C. ID		MFG.	Soe
19	D.C. OD	539.19 FT.	TYPE	H95
	RMR BODY OD	12.9 FT.	NOZ. NO.	3
	STB BODY OD	FT.	NOZ. SIZE	11
	SUBS OD	FT.	SER. NO	787897
	BIT OR C.B.	FT.	DEPTH OUT	~~10245~~ 10465
		FT.	CUMULATIVE HOURS RUN	~~[illegible]~~ 27¼
	KELLY DOWN	22.00 FT.	COND. OF BIT	
	TOTAL	10245.81 FT.	REAMER CUTTER NO.	
	WT. OF STRING	LBS.	TYPE	

DRILLER: L. Pachalek

HRS. DRLD.	CORE NO.	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT. ON BIT 1000#	PUMP PRESS.	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN
—		—	—									

DEVIATION RECORD: DEPTH | DEV. | DIRECTION | DEPTH | DEV. | DIRECTION | DEPTH | DEV. | DIRECTION

REMARKS

12 12.45 Pull Out in Log Down 4 jts
Lay Down Bit Sub
12.45 1.30 Remove Rotary Kelly Assembly
1.30 4.30 Circ Clean
4.30 4.45 Lay Dia
4.45 5.00 Set Pull Sub & BOP Rams
5.00 Rest Run Csg Pick Up 2 Rot Bushings
in Top of T.F.

MUD RECORD

TIME	
WEIGHT	9
VISC	
W.L.-C.C.	K
FLTR. CK.	
PH	1
SD. CONT.	P

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

DAY TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD	
107	STANDS DP	99 47.45 FT.	RUN NO.	55
	SNGLS. DP	FT.	SIZE	8 3/4
	6-8½ D.C. ID		MFG.	SEC
19	18-6½ OD	539.19 FT.	TYPE	H87
2	RMR BODY OD	12.9 FT.	NOZ. NO.	3
	STB BODY OD	FT.	NOZ. SIZE	11
	SUBS OD	FT.	SER. NO.	787927
	BIT OR C.B.	FT.	DEPTH OUT	
		FT.	CUMULATIVE HOURS RUN	4¼
	KELLY DOWN	26 — FT.	COND. OF BIT	DRLG.
	TOTAL	10525.59 FT.	REAMER CUTTER NO.	
	WT. OF STRING	203,000 LBS.	TYPE	

DRILLER: J. Nibbard

HRS. DRLD.	CORE NO.	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT. ON BIT 1000#	PUMP PRESS.	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN
4¼		10465	10525	60 ft	90	30	1500	5½	64			

DEVIATION RECORD: DEPTH | DEV. | DIRECTION | DEPTH | DEV. | DIRECTION | DEPTH | DEV. | DIRECTION

REMARKS

8 8.30 Pick Up 15 jts. No 2 Pump
8.45 9 Rig Service
9 9.45 Slip & Cut Line
9.45 11 Run In
11 11.45 Break Circ & Ream To Btm.
11 Drlg

MUD RECORD

	12 Noon	2 P.M.
TIME		
WEIGHT	8.3	8.3
VISC	28	28
W.L.-C.C.		
FLTR. CK.		
PH		
SD. CONT.		

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
WATER			

EVENING TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD	
108	STANDS DP	100 102.7 FT.	RUN NO	55
	SNGLS. DP	FT.	SIZE	8 3/4
	1-8½ D.C. ID		MFG.	SEC
19	18-6½ OD	539.19 FT.	TYPE	H8-J
2	RMR BODY OD	12.9 FT.	NOZ. NO.	3
	STB BODY OD	FT.	NOZ. SIZE	11
	SUBS OD	FT.	SER NO	787927
	BIT OR C.B.	FT	DEPTH OUT	
		FT.	CUMULATIVE HOURS RUN	11¾
	KELLY DOWN	37.80 FT.	COND. OF BIT	
	TOTAL	10630.69 FT.	REAMER CUTTER NO.	
	WT OF STRING	100-00 LBS.	TYPE	

DRILLER

HRS. DRLD.	CORE NO.	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT. ON BIT 1000#	PUMP PRESS	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN
7½		10525	10631		90	30	1500	5½	66			

DEVIATION RECORD: DEPTH | DEV. | DIRECTION | DEPTH | DEV | DIRECTION | DEPTH | DEV | DIRECTION

REMARKS

5 5.30 Drill
5.30 5.45 Replace Rotary Torque Assembly
5.45 5.30 Rig Service & Clean Tank
5.30 12.00 Drill

MUD RECORD

TIME		
WEIGHT	Water	
VISC		
W.L.-C.C.		
FLTR. CK.		
PH	9.5	
SD. CONT		

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
Caustic soda	4 sack		
Soda ash	2 sack		
Mica	10 "		
Wood fibre	15 "		

C.P.—38 (10/63) **DAILY DRILLING REPORT** REPORT NO. 81 DATE June 4 - 1965

OPERATOR	LOCATION LSD. SEC. TWP. RGE. W.	WELL NAME	No.	PROVINCE
SHELL CANADA LIMITED		Shell Cloverleaf	1-46	N.W.T.

CONTRACTOR	RIG No.	DRILL PIPE STRING NO. SIZE	TOOL JOINT OD / TYPE THD.
Regent Drilling Ltd	6		

OPERATOR'S REPRESENTATIVE: B. Ettinger

CONTRACTOR'S TOOL PUSHER: L. Burnside

PUMPS

NO.	MANUFACTURER	TYPE	STROKE LENGTH
1.	Emsco	D 700	16
2.	Emsco	D 500	16
3.			

CASING & LINER RECORD	SIZE	WT. & GR.	DEPTH SET FROM	DEPTH SET TO	PERFORATIONS FROM	PERFORATIONS TO	CEMENT USED	OTHER

TIME DISTRIBUTION—HOURS

	MORN	DAY	EVE
DRILLING ACTUAL	7½	6¾	4½
REAMING			
CIRCULATING	½	1	1¼
TRIPS			½
DEVIATION SURVEY			¼
TEST B.O.P			
CUT OFF DRILL LINE			
REPAIR RIG			
CORING			
WIRE LINE LOGGING			
OTHER		¼	
FISHING			
COMPLETING (A) PERFORATING			
(B) RUNNING TUBING			
(C) SWABBING			
(D) TESTING			
(E) ACIDIZING			
(F) ADDITIONAL			
TOTALS	8	8	8

TIME SUMMARY (OFFICE USE ONLY)

CONTRACTOR'S TIME HRS:

OPERATOR'S TIME: 24 hrs

HRS. W/D.P:

HRS WO/D.P:

HRS STANDBY

WIRE LINE RECORD

REEL NO

NO OF LENES SIZE

FEET SLIPPED

FEET CUT OFF

PRESENT LENGTH

TON MI. or TRIPS SINCE LAST CUT

CUMULATIVE TON MI. or TRIPS

NO. OF DAYS FROM SPUD

CUMULATIVE ROTATING HRS.

MORNING TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD	
104	STANDS DP	9704.76 FT.	RUN NO.	54
	SNGLS. DP	FT.	SIZE	8 3/4
	D.C. ID		MFG.	Sec
19	D.C. OD	539.19 FT.	TYPE	H8J
	RMR BODY OD	12.91 FT.	NOZ. NO.	3
	STB BODY OD	FT.	NOZ. SIZE	11
	SUBS OD	FT.	SER. NO	787897
	BIT OR C.B.	FT.	DEPTH OUT	
		FT.	CUMULATIVE HOURS RUN	16
	KELLY DOWN	39.00 FT.	COND. OF BIT	
	TOTAL	10,285.86 FT.	REAMER CUTTER NO.	
	WT. OF STRING	105,000 LBS.	TYPE	

DRILLER: R. Pocholek

HRS. DRLD.	CORE NO.	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT. ON BIT 1000#	PUMP PRESS.	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN
7½		10,155	10,285		40	35-45	1500	5½	66			

DEVIATION RECORD:

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

REMARKS

7½ Drill 12:00 - 7:30

½ Circulate on Conn's 7:30 8:00

MUD RECORD

	2	4	6
TIME			
WEIGHT	8.3	8.3	8.3
VISC	28	28	28
W.L.-C.C.			
FLTR. CK.			
PH		9.5	
SD. CONT.			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

DAY TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD	
103	STANDS DP	FT.	RUN NO.	54
1	SNGLS. DP	9828.61 FT.	SIZE	8 3/4
	D.C. ID		MFG.	SEC
19	D.C. OD	539.19 FT.	TYPE	H.P.J
	RMR BODY OD	12.91 FT.	NOZ. NO.	7
	STB BODY OD	FT.	NOZ. SIZE	11
	SUBS OD	FT.	SER. NO.	787897
	BIT OR C.B.	FT.	DEPTH OUT	
		FT.	CUMULATIVE HOURS RUN	22¾
	KELLY DOWN	FT.	COND. OF BIT	
	TOTAL	FT.	REAMER CUTTER NO.	
	WT. OF STRING	LBS.	TYPE	

DRILLER: J. Sifford

HRS. DRLD.	CORE NO.	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT. ON BIT 1000#	PUMP PRESS.	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN
6¾		10285	10414	Dog Leg	40	30	1500	5½	65			

DEVIATION RECORD:

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

REMARKS

1:00 1:30 Rig Service

1:30 3:00 Drill

3:00 3:30 Circ. on Conns

3:30 4:00 Circ. Sample - Unable to Rotate Pipe on Bottom

MUD RECORD

TIME			
WEIGHT			
VISC			
W.L.-C.C.			
FLTR. CK.			
PH			
SD. CONT.			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

EVENING TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD	
106	STANDS DP	9990.91 FT.	RUN NO	54
	SNGLS. DP	FT.	SIZE	
	D.C. ID		MFG.	
19	D.C. OD	539.19 FT.	TYPE	
	RMR BODY OD	12.91 FT.	NOZ. NO.	
	STB BODY OD	FT.	NOZ. SIZE	
	SUBS OD	FT.	SER NO	
	BIT OR C.B.	FT	DEPTH OUT	10465
		FT.	CUMULATIVE HOURS RUN	27¼
	KELLY DOWN	22.00 FT.	COND. OF BIT	
	TOTAL	10443.01 FT.	REAMER CUTTER NO.	
	WT OF STRING	LBS.	TYPE	

DRILLER

HRS. DRLD.	CORE NO.	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT. ON BIT 1000#	PUMP PRESS	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN
4½		10414	10,465		40	30	1500	5½				

DEVIATION RECORD:

DEPTH	DEV.	DIRECTION	DEPTH	DEV	DIRECTION	DEPTH	DEV	DIRECTION
10400	14½	°						

REMARKS

4:00 4:30 Circ. Sample - Unable to Rotate Pipe on Bottom

4:30 9:00 Drill

9:00 - 10:15 Cir Sample

10:15 - 10:30 Totco

10:30 - 12:00 Pull out - Sorting Pipe for hard Banding

MUD RECORD

TIME			
WEIGHT	Water.		
VISC			
W.L.-C.C.			
FLTR CK.			
PH			
SD. CONT			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

C.P.-18 (10/63) **DAILY DRILLING REPORT** REPORT NO. 20 DATE June 3/65

OPERATOR	LOCATION LSD. SEC. TWP. RGE. W.	WELL NAME	No.	PROVINCE
SHELL CANADA LIMITED		SHELL PROVOST LEAF	1-46	N.W.T.

CONTRACTOR	RIG No.	DRILL PIPE STRING NO.	SIZE	TOOL JOINT OD	TYPE THD.
TREBENT DRILLING	SIX	3	5"		N.H.

OPERATOR'S REPRESENTATIVE: G B Hunger

CONTRACTOR'S TOOL PUSHER:

PUMPS

NO.	MANUFACTURER	TYPE	STROKE LENGTH
1.	EMSCO	D-700	16"
2.	EMSCO	D-500	16"
3.			

CASING & LINER RECORD

SIZE	WT. & GR.	DEPTH SET FROM	DEPTH SET TO	PERFORATIONS FROM	PERFORATIONS TO	CEMENT USED	OTHER
9⅝		0	7004				

TIME DISTRIBUTION—HOURS

	MORN	DAY	EVE
DRILLING ACTUAL		14½	7½
REAMING To Btm.		¾	
CIRCULATING	½		½
TRIPS	4¾	3¼	
DEVIATION SURVEY	¼		
TEST B.O.P			¼
CUT OFF DRILL LINE			
REPAIR RIG			
CORING			
WIRE LINE LOGGING			
OTHER	3½	3¼	
FISHING			
COMPLETING (A) PERFORATING			
(B) RUNNING TUBING			
(C) SWABBING			
(D) TESTING			
(E) ACIDIZING			
(F) ADDITIONAL			
TOTALS	8	8	

TIME SUMMARY (OFFICE USE ONLY)

CONTRACTOR'S TIME HRS:

OPERATOR'S TIME: 24 hrs

HRS. W/D.P:

HRS W0/D.P:

HRS STANDBY

WIRE LINE RECORD

REEL NO

NO OF LINES SIZE

FEET SLIPPED

FEET CUT OFF

PRESENT LENGTH

TON MI. or TRIPS SINCE LAST CUT

CUMULATIVE TON MI. or TRIPS

NO. OF DAYS FROM SPUD

CUMULATIVE ROTATING HRS.

MORNING TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD	
10	STANDS DP	9452.32 FT.	RUN NO.	54
1	SNGLS. DP		SIZE	8¾
19	D.C. ID		MFG.	SEC
	D.C. OD	539.19 FT.	TYPE	H8-J
	RMR BODY OD	12.91 FT.	NOZ. NO.	3
	STB BODY OD	FT.	NOZ. SIZE	11
	SUBS OD	FT.	SER. NO	787897
	BIT OR C.B.	FT.	DEPTH OUT	N
		FT.	CUMULATIVE HOURS RUN	L
	KELLY DOWN	41.00 FT.	COND. OF BIT	W
	TOTAL	10025.42 FT.	REAMER CUTTER NO.	
WT. OF STRING	192 LBS.		TYPE	

DRILLER: P Pocholek

HRS. DRLD.	CORE NO.	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT. ON BIT 1000#	PUMP PRESS.	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN

DEVIATION RECORD:

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION
9960	17°							

REMARKS

12[45]	12[30]	CIRCULATE SAMPLE	½ hr.
12[30]	12[45]	TOTCO	¼ hr.
12[45]	4[45]	POH OUT - SORT & LAY DOWN 30 SINGLES	4 hrs.
4[45]	5[00]	CHECK BTM. HOLE REAMER FOR HARD BANDING	
		CLEAN TANK & JET CELLAR	½ hr.
5[00]	5[30]	RIG SERVICE	¼ hr.
5[30]	6[15]	RUN IN	¾ hr.
6[15]	8[00]	WORK ON FUEL LINES (WATER IN FUEL)	1¾ hrs.

MUD RECORD

TIME	
WEIGHT	
VISC	
W.L.-C.C.	
FLTR. CK.	
PH	
SD. CONT.	

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

DAY TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD	
	STANDS DP	FT.	RUN NO.	54
	SNGLS. DP	FT.	SIZE	8¾
19	1-8½ ID D.C.		MFG.	SEC
	18-6½ OD D.C.	539.19 FT.	TYPE	H8-J
2	RMR BODY OD	12.91 FT.	NOZ. NO	3
	STB BODY OD	FT.	NOZ. SIZE	11
	SUBS OD	FT.	SER. NO.	787897
	BIT OR C.B.	FT.	DEPTH OUT	Run
		FT.	CUMULATIVE HOURS RUN	1¼
	KELLY DOWN	FT.	COND. OF BIT	
	TOTAL	FT.	REAMER CUTTER NO.	
WT. OF STRING	LBS.		TYPE	

DRILLER: J. Nibbard

HRS. DRLD.	CORE NO.	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT. ON BIT 1000#	PUMP PRESS.	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN
1¼		10025	10048	23 ft	40	20	1500	5½	66			

DEVIATION RECORD:

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

REMARKS

8[00]	11[15]	WORK ON FUEL LINES (WATER IN FUEL)	3¼ hrs.
11[15]	2[00]	RUN IN PICKING UP 30 SINGLES 45 stds.	2¾ hrs.
		3½ PIPE ABOVE COLLARS ~~DRESSED~~	
2[00]	2[45]	BREAK CIRC & REAM TO BTM.	¾ hr.
2[45]	4[00]	DRILL	1¼ hrs.

MUD RECORD

TIME	2 P.M.		
WEIGHT	8.3		
VISC	28		
W.L.-C.C.			
FLTR. CK.			
PH	9.5		
SD. CONT.			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

EVENING TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD	
10	STANDS DP	9579.52 FT.	RUN NO	54
	SNGLS. DP	FT.	SIZE	8¾
19	D.C ID		MFG.	SEC
	D.C OD	539.19 FT.	TYPE	H8-J
	RMR BODY OD	12.91 FT.	NOZ. NO.	3
	STB BODY OD	FT.	NOZ. SIZE	11
	SUBS OD	FT.	SER NO	787897
	BIT OR C.B.	FT	DEPTH OUT	
		FT.	CUMULATIVE HOURS RUN	8½
	KELLY DOWN	24.00 FT.	COND. OF BIT	
	TOTAL	10,155.42 FT.	REAMER CUTTER NO.	
WT OF STRING	205,000 LBS.		TYPE	

DRILLER

HRS. DRLD.	CORE NO.	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT. ON BIT 1000#	PUMP PRESS	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN
7¼		9329			40	25-35	1500	5½	66			
		10,044	10155									

DEVIATION RECORD:

DEPTH	DEV.	DIRECTION	DEPTH	DEV	DIRECTION	DEPTH	DEV	DIRECTION

REMARKS

4[00]	4[15]	RIG SERVICE	
4[15]	11[30]	DRILL	
11[30]	1[00]	Circulate on Core 5 Min	

MUD RECORD

TIME	6	8	10
WEIGHT	8.3	8.3	8.3
VISC	28	28	28
W.L.-C.C.			
FLTR. CK.			
PH	9.5	9.5	9.5
SD. CONT			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

C.P.—38 (10/63) **DAILY DRILLING REPORT** REPORT NO. 79 DATE June 2 - 1965

OPERATOR: SHELL CANADA LIMITED | LOCATION LSD. SEC. TWP. RGE. W. | WELL NAME: Steel Cheecham | No. 1-46 | PROVINCE N.W.T.

CONTRACTOR: Right Drilling Co. | RIG No. 6 | DRILL PIPE STRING NO. 5 SIZE 5" | TOOL JOINT OD TYPE THD. X-H

OPERATOR'S REPRESENTATIVE: B.E. Hunter | CONTRACTOR'S TOOL PUSHER: R. Hamm

PUMPS

NO.	MANUFACTURER	TYPE	STROKE LENGTH
1.	Emsco	D 700	16
2.	Emsco	D 500	16
3.			

CASING & LINER RECORD

	SIZE	WT. & GR.	DEPTH SET FROM	DEPTH SET TO	PERFORATIONS FROM	PERFORATIONS TO	CEMENT USED	OTHER
	9 5/8		0	7001				

TIME DISTRIBUTION—HOURS

	MORN	DAY	EVE
DRILLING ACTUAL	7½	7	6¾
REAMING			
CIRCULATING	½	¼	1
TRIPS			
DEVIATION SURVEY			
TEST B.O.P			
CUT OFF DRILL LINE			
REPAIR RIG			¼
CORING			
WIRE LINE LOGGING			
OTHER		¾	
FISHING			
COMPLETING (A) PERFORATING			
(B) RUNNING TUBING			
(C) SWABBING			
(D) TESTING			
(E) ACIDIZING			
(F) ADDITIONAL			
TOTALS	8	8	8

TIME SUMMARY (OFFICE USE ONLY)

CONTRACTOR'S TIME-HRS:

OPERATOR'S TIME:

HRS. W/D.P: 23¼ hrs

HRS WO/D.P:

HRS STANDBY

WIRE LINE RECORD

REEL NO

NO OF LINES SIZE

FEET SLIPPED

FEET CUT OFF

PRESENT LENGTH

TON MI. or TRIPS SINCE LAST CUT

CUMULATIVE TON MI. or TRIPS

NO. OF DAYS FROM SPUD

CUMULATIVE ROTATING HRS.

MORNING TOUR

NO.	DRILLING ASSEMBLY	FT.
99	STANDS DP	
5	SNGLS. DP	9245.45
1	D.C. ID	
	D.C. OD	539.19
	RMR BODY OD	12.91
	STB BODY OD	
	SUBS OD	
	BIT OR C.B.	
	KELLY DOWN	23.00
	TOTAL	9820.55
	WT. OF STRING	188,000 LBS.

BIT RECORD	
RUN NO.	53
SIZE	8 3/4
MFG.	Sec
TYPE	H45
NOZ. NO.	3
NOZ. SIZE	11
SER. NO	727915
DEPTH OUT	
CUMULATIVE HOURS RUN	14¼
COND. OF BIT	
REAMER CUTTER NO.	
TYPE	

DRILLER: L. Pechalk

HRS. DRLD.	CORE NO.	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT. ON BIT 1000#	PUMP PRESS.	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN
7½		9710	9820		40	25	1500	5½	66			

DEVIATION RECORD:

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

REMARKS

7½	Drill	12:00 - 7:30
½	Circ on Conn Samp	7:30 - 8:00

MUD RECORD

	2	4	6
TIME			
WEIGHT	8.3	8.3	8.3
VISC	28	28	28
W.L.-C.C.			
FLTR. CK.			
PH	9.5	9.5	9.5
SD. CONT.			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

DAY TOUR

NO.	DRILLING ASSEMBLY	FT.
100	STANDS DP	
1	SNGLS. DP	9338.84
19	1 - 8½" ID D.C. 18 - 6½" OD	539.19
2	RMR BODY OD	12.9
	STB BODY OD	
	SUBS OD	
	BIT OR C.B.	
	KELLY DOWN	34 —
	TOTAL	9933.94
	WT. OF STRING	9933.94 LBS.

BIT RECORD	
RUN NO.	53
SIZE	8 3/4
MFG.	SEC
TYPE	H8-J
NOZ. NO.	3
NOZ. SIZE	11
SER. NO.	727915
DEPTH OUT	D
CUMULATIVE HOURS RUN	R
COND. OF BIT	5 C
REAMER CUTTER NO.	
TYPE	

DRILLER: J. Nibford

HRS. DRLD.	CORE NO.	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT. ON BIT 1000#	PUMP PRESS.	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN
7		9820	9923	103 ft.	40	25	1500	5½	66	5½	65	

DEVIATION RECORD:

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

REMARKS

8:00	8:15	Rig Service 1/4 hr.
8:15	11:15	Drill 3 hrs.
11:15	11:45	Change Pumps & Prime D-500 ½ hr.
11:45	3:45	Drill 4 hrs.
3:45	4:00	Circ. on Conns. 5 minutes 1/4 hr.

MUD RECORD

	8 AM	12 N	2 P.M.
TIME			
WEIGHT	8.3	8.3	8.3
VISC	28	28	28
W.L.-C.C.			
FLTR. CK.			
PH	9.5	9.5	9.5
SD. CONT.			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
WATER & CLEAN TANKS			

EVENING TOUR

NO.	DRILLING ASSEMBLY	FT.
101	STANDS DP	
	SNGLS. DP	9432.32
19	1 - 8½" ID D.C. 18 - 6½" OD	539.19
2	RMR BODY OD	12.9
	STB BODY OD	
	SUBS OD	
	BIT OR C.B.	
	KELLY DOWN	41.00
	TOTAL	10,025
	WT OF STRING	LBS.

BIT RECORD	
RUN NO.	53
SIZE	8 3/4
MFG.	SEC
TYPE	H8-J
NOZ. NO.	3
NOZ. SIZE	11
SER NO	727915
DEPTH OUT	10,025
CUMULATIVE HOURS RUN	28
COND. OF BIT	
REAMER CUTTER NO.	
TYPE	

DRILLER

HRS. DRLD.	CORE NO.	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT. ON BIT 1000#	PUMP PRESS	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN
16¾		9923	10,025		40	[illegible]	1500	5½	66			

DEVIATION RECORD:

DEPTH	DEV.	DIRECTION	DEPTH	DEV	DIRECTION	DEPTH	DEV	DIRECTION
9960	16°							

REMARKS

5¼	Drill
¼	Dressed Worked tool joint
1½	Drill
½	Circulate on Conn.
½	Circulate Sample

MUD RECORD

	6	8	10
TIME			
WEIGHT	8.3	8.3	8.3
VISC	28	28	28
W.L.-C.C.			
FLTR CK.			
PH	9.5	9.5	9.5
SD. CONT			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

C.P.—38 (10/63) **DAILY DRILLING REPORT** REPORT NO. 78 DATE June 1- 65

OPERATOR: SHELL CANADA LIMITED | LOCATION LSD. SEC. TWP. RGE. W. | WELL NAME: Shell Cloverleaf No. 1-46 | PROVINCE: N W T

CONTRACTOR: Rogers Drilling | RIG No. 6 | DRILL PIPE STRING NO. SIZE | TOOL JOINT OD | TYPE THD.

OPERATOR'S REPRESENTATIVE: Ettinger | CONTRACTOR'S TOOL PUSHER: L. B. Hansen

PUMPS

NO.	MANUFACTURER	TYPE	STROKE LENGTH
1.	Emsco	D 250	16
2.	Emsco	D 250	16
3.			

CASING & LINER RECORD

	SIZE	WT. & GR.	DEPTH SET FROM	DEPTH SET TO	PERFORATIONS FROM	PERFORATIONS TO	CEMENT USED	OTHER

TIME DISTRIBUTION—HOURS

	MORN	DAY	EVE
DRILLING ACTUAL	5		12
REAMING	3/4		9/4
CIRCULATING	13/4		1/4
TRIPS	1/2	5 1/4	1/4
DEVIATION SURVEY		1/4	
TEST B.O.P		3/4	
CUT OFF DRILL LINE		1	
REPAIR RIG			
CORING			
WIRE LINE LOGGING			
OTHER		1/2	
FISHING			
COMPLETING (A) PERFORATING			
(B) RUNNING TUBING			
(C) SWABBING			
(D) TESTING			
(E) ACIDIZING			
(F) ADDITIONAL			
TOTALS	8	8	8

TIME SUMMARY (OFFICE USE ONLY)

CONTRACTOR'S TIME HRS:

OPERATOR'S TIME:

HRS. W/D.P: 24 hrs.

HRS WO/D.P:

HRS STANDBY

WIRE LINE RECORD

REEL NO

NO OF LEGS SIZE

FEET SLIPPED

FEET CUT OFF

PRESENT LENGTH

TON MI. or TRIPS SINCE LAST CUT

CUMULATIVE TON MI. or TRIPS

NO. OF DAYS FROM SPUD

CUMULATIVE ROTATING HRS.

MORNING TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD	
97	STANDS DP	9028.98 FT.	RUN NO.	52
	SNGLS. DP	FT.	SIZE	8 3/4
19	D.C. ID / OD	539.19 FT.	MFG.	Reed
	RMR BODY OD	12.91 FT.	TYPE	YHHG
	STB BODY OD	FT.	NOZ. NO.	3
	SUBS OD	FT.	NOZ. SIZE	11
	BIT OR C.B.	FT.	SER. NO	834497
		FT.	DEPTH OUT	9605
	KELLY DOWN	24.00 FT.	CUMULATIVE HOURS RUN	5
	TOTAL	9605.06 FT.	COND. OF BIT	
WT. OF STRING	184,000 LBS.		REAMER CUTTER NO.	
			TYPE	

DRILLER: R Puchobb

HRS. DRLD.	CORE NO.	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT. ON BIT 1000#	PUMP PRESS.	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN
5		9528	9605		40	20	1500	5 1/2	66			

DEVIATION RECORD:	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION
	9580	18°							

REMARKS

1/2	Pipe Lay	12⁰⁰ - 12³⁰
3/4	Ream To Btm	12³⁰ - 1¹⁵
5	Drill	1¹⁵ - 6¹⁵
1/2	Circulating on Conn	6¹⁵ - 6⁴⁵
1 1/4	Circulate & Sample	6⁴⁵ - 8⁰⁰

MUD RECORD

TIME			
WEIGHT	8.3	9.3	8.3
VISC	28	28	28
W.L.-C.C.			
FLTR. CK.			
PH		9.5	
SD. CONT.			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
Caustic	400 LE		

DAY TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD	
97	STANDS DP	9028.98 FT.	RUN NO.	53
	SNGLS. DP	FT.	SIZE	8 3/4
19	D.C. 6-8 1/2 ID / 18-6 1/4 OD	539.19 FT.	MFG.	SEC
	RMR BODY OD	12.91 FT.	TYPE	M84J
	STB BODY OD	FT.	NOZ. NO.	3
	SUBS OD	FT.	NOZ. SIZE	11
	BIT OR C.B.	FT.	SER. NO.	779135
		FT.	DEPTH OUT	W
	KELLY DOWN	84 FT.	CUMULATIVE HOURS RUN	6
	TOTAL	9605.06 FT.	COND. OF BIT	W
WT. OF STRING	190,000 LBS.		REAMER CUTTER NO.	
			TYPE	

DRILLER: J. Hibbard

HRS. DRLD.	CORE NO.	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT. ON BIT 1000#	PUMP PRESS.	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN

DEVIATION RECORD:	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

REMARKS

8⁰⁰	8³⁰	SURVEY & RIG SERVICE	
8³⁰	11⁴⁵	PULL OUT	
11⁴⁵	12⁰⁰	BOP CHECK - ? (1/4)	
12⁰⁰	12³⁰	TOW IN COLLARS	
12³⁰	1³⁰	SLIP & CUT LINE	
1³⁰	2⁰⁰	LAY DOWN 9 sgls NO 2 PIPE	
2⁰⁰	4⁰⁰	RUN IN PICKING UP 9 sgls 45 stds IN HOLE	

MUD RECORD

TIME			
WEIGHT			
VISC			
W.L.-C.C.			
FLTR. CK.			
PH			
SD. CONT.			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

EVENING TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD	
98	STANDS DP	FT.	RUN NO	53
	SNGLS. DP	FT.	SIZE	8 3/4
19	D.C. 1-8 1/2 ID / 18 6 1/4 OD	539.19 FT.	MFG.	SEC
	RMR BODY OD	12.91 FT.	TYPE	M84J
	STB BODY OD	FT.	NOZ. NO.	3
	SUBS OD	FT.	NOZ. SIZE	11
	BIT OR C.B.	FT.	SER NO	779135
		FT.	DEPTH OUT	
	KELLY DOWN	3600 FT.	CUMULATIVE HOURS RUN	6 3/4
	TOTAL	9710.06 FT.	COND. OF BIT	
WT OF STRING	188,000 LBS.		REAMER CUTTER NO.	
			TYPE	

DRILLER

HRS. DRLD.	CORE NO.	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT. ON BIT 1000#	PUMP PRESS	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN
		9558	9710		40	[illegible]	1500	5 1/2	66	5 1/2		
		9605										

DEVIATION RECORD:	DEPTH	DEV.	DIRECTION	DEPTH	DEV	DIRECTION	DEPTH	DEV	DIRECTION

REMARKS

4⁰⁰	4³⁰	FINISH RUNNING IN	1/4
4³⁰	5⁰⁰	BREAK CIRC. & REAM TO BTM.	3/4
5⁰⁰	11⁴⁵	DRILL	6 3/4
11⁴⁵	12⁰⁰	Circulate on Connections	1/4

MUD RECORD

TIME	4 P.M.		
WEIGHT	8.3		
VISC	28		
W.L.-C.C.			
FLTR CK.			
PH			
SD. CONT			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

C.P.—38 (10/63) **DAILY DRILLING REPORT** REPORT NO. 78 DATE May 31 - 1965

OPERATOR: SHELL CANADA LIMITED | LOCATION LSD. SEC. TWP. RGE. W | WELL NAME: Shell Clearwater No. 1 - 46 | PROVINCE: N.W.T.

CONTRACTOR: Regent Drilling | RIG No. 6 | DRILL PIPE STRING NO. SIZE | TOOL JOINT OD | TYPE THD.

OPERATOR'S REPRESENTATIVE: E. Ettenger | CONTRACTOR'S TOOL PUSHER: L. R. Hansen

PUMPS

NO.	MANUFACTURER	TYPE	STROKE LENGTH
1.	Emsco	D700	16
2.	Emsco	D500	16
3.			

CASING & LINER RECORD

SIZE	WT. & GR.	DEPTH SET FROM	DEPTH SET TO	PERFORATIONS FROM	PERFORATIONS TO	CEMENT USED	OTHER

TIME DISTRIBUTION—HOURS

	MORN	DAY	EVE
DRILLING ACTUAL			
REAMING			
CIRCULATING			
TRIPS	3¼	4½	4½
DEVIATION SURVEY			
TEST B.O.P. - Cellar	½		
CUT OFF DRILL LINE	½		
REPAIR RIG - Swivel Packing	4½	½	3¼
CORING			2½ Repair
WIRE LINE LOGGING TEST	½	3¼	
OTHER	½		¼
FISHING			
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: 21½ Hrs

HRS WO/D.P:

HRS STANDBY

WIRE LINE RECORD

REEL NO

NO OF LINES SIZE

FEET SLIPPED

FEET CUT OFF

PRESENT LENGTH

TON MI. or TRIPS SINCE LAST CUT

CUMULATIVE TON MI. or TRIPS

NO. OF DAYS FROM SPUD

CUMULATIVE ROTATING HRS.

MORNING TOUR

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

DRILLER: R. Pacholok

HRS. DRLD.	CORE NO.	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT. ON BIT 1000#	PUMP PRESS.	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN
				Bottom Packer set				9	3	4	3	

DEVIATION RECORD: DEPTH | DEV. | DIRECTION | DEPTH | DEV. | DIRECTION | DEPTH | DEV. | DIRECTION

REMARKS

½	Tear Out Packer	1200 - 1230
½	Jet Cellar Check BOP	1230 - 100
½	Read Test Charts - Woodco	100 130
½	Slip & Cut Drill Line	130 - 200
3¼	Service Packer & Clocks	200 - 245
1¼	Trip Up Packer Change Clocks	245 - 415
3¼	Run in DST #23	415 - 730

MUD RECORD

TIME				
WEIGHT				
VISC				
W.L.-C.C.				
FLTR. CK.				
PH				
SD. CONT.				

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

Lost 730 - 800 - ½

DAY TOUR

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

DRILLER

HRS. DRLD.	CORE NO.	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT. ON BIT 1000#	PUMP PRESS.	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN

DEVIATION RECORD: DEPTH | DEV. | DIRECTION | DEPTH | DEV. | DIRECTION | DEPTH | DEV. | DIRECTION

REMARKS

DST 2B 9343-9538 TO 90m
SI 90m Recovery: 3510' (SRW&Mb)
of fresh water HHH: 4125, SIP 3850
IFP 825 FFP 2060

2¼	Testing
4¼	Drain Out of Hole
½	Lay down test tools

MUD RECORD

TIME				
WEIGHT				
VISC				
W.L.-C.C.				
FLTR. CK.				
PH				
SD. CONT.				

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

EVENING TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD	
	STANDS DP	FT.	RUN NO.	52
	SNGLS. DP	FT.	SIZE	
	D.C. ID / OD	FT.	MFG.	REED
	RMR BODY OD	FT.	TYPE	YHWG
	STB BODY OD	FT.	NOZ. NO.	3/13
	SUBS OD	FT.	NOZ. SIZE	
	BIT OR C.B.	FT.	SER. NO	E6H477
		FT.	DEPTH OUT	9663
	KELLY DOWN	FT.	CUMULATIVE HOURS RUN	5'
	TOTAL	FT.	COND. OF BIT	
WT. OF STRING		LBS.	REAMER CUTTER NO.	
			TYPE	

DRILLER

HRS. DRLD.	CORE NO.	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT. ON BIT 1000#	PUMP PRESS.	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN

DEVIATION RECORD: DEPTH | DEV. | DIRECTION | DEPTH | DEV | DIRECTION | DEPTH | DEV | DIRECTION

REMARKS

3¼	Lay down test tools
2	Work on Rotary table changing Kelly bushings to 5¼ Hex
1	Run in DC's and lay down 6 DC's.
¼	Clean Shaker Tank
½	Run in lay down Drill pipe
½	Repair sulphur on Hydromatic
1½	Run in

MUD RECORD

TIME				
WEIGHT				
VISC				
W.L.-C.C.				
FLTR. CK.				
PH				
SD. CONT				

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

C.P.—38 (10/63) **DAILY DRILLING REPORT** REPORT NO. 77 DATE May 30 - 1965

OPERATOR	LOCATION LSD. SEC. TWP. RGE. W.	WELL NAME	No.	PROVINCE
SHELL CANADA LIMITED		Shell Cloverleaf	1-46	N.W.T.

CONTRACTOR	RIG No.	DRILL PIPE STRING NO. SIZE	TOOL JOINT OD / TYPE THD.

OPERATOR'S REPRESENTATIVE	CONTRACTOR'S TOOL PUSHER
B. Ettinger	L. R. Hansen

PUMPS

NO.	MANUFACTURER	TYPE	STROKE LENGTH
1.	Emsco	D 700	16
2.	Emsco	D 500	16
3.			

CASING & LINER RECORD

SIZE	WT. & GR.	DEPTH SET FROM	DEPTH SET TO	PERFORATIONS FROM	PERFORATIONS TO	CEMENT USED	OTHER

TIME DISTRIBUTION — HOURS

	MORN	DAY	EVE
DRILLING ACTUAL			
REAMING			
CIRCULATING			
TRIPS		3¼	
DEVIATION SURVEY			
TEST B.O.P			
CUT OFF DRILL LINE			
REPAIR RIG			
CORING			
WIRE LINE LOGGING			
OTHER	1½	9½	4
FISHING	6½		
COMPLETING (A) PERFORATING			
(B) RUNNING TUBING			
(C) SWABBING			
(D) TESTING			
(E) ACIDIZING			
(F) ADDITIONAL			
TOTALS	8	13	4

TIME SUMMARY (OFFICE USE ONLY)

CONTRACTOR'S TIME HRS:

OPERATOR'S TIME:

HRS. W/D.P: 24 hrs

HRS WO/D.P:

HRS STANDBY

WIRE LINE RECORD

REEL NO

NO OF LINES SIZE

FEET SLIPPED

FEET CUT OFF

PRESENT LENGTH

TON MI. or TRIPS SINCE LAST CUT

CUMULATIVE TON MI. or TRIPS

NO. OF DAYS FROM SPUD

CUMULATIVE ROTATING HRS.

MORNING TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD	
	STANDS DP	FT.	RUN NO.	
	SNGLS. DP	FT.	SIZE	
	D.C. ID / OD	FT.	MFG.	
	RMR BODY OD	FT.	TYPE	
	STB BODY OD	FT.	NOZ. NO. / 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 R. Pacholek

HRS. DRLD.	CORE NO.	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT. ON BIT 1000#	PUMP PRESS.	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN

DEVIATION RECORD: DEPTH / DEV. / DIRECTION / DEPTH / DEV. / DIRECTION / DEPTH / DEV. / DIRECTION

REMARKS

1¼	Circulate hole clean.	12[00] - 1[15]
½	Pick Up Reamer W/ o-Shot	1[15] - 1[45]
4	Chain Long Out of Hole	1[45] - 5[45]
3¼	Lay down Fish, Break Down Fish Tools	5[45] - 6[30]
1½	Run in all DCs and Reflectoscope DCs	6[30] - 8[00]

MUD RECORD

TIME	
WEIGHT	
VISC	
W.L.-C.C.	
FLTR. CK.	
PH	
SD. CONT.	

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

DAY TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD	
	STANDS DP	FT.	RUN NO.	1
	SNGLS. DP	FT.	SIZE	8
	D.C. ID / OD	FT.	MFG.	
	RMR BODY OD	FT.	TYPE	
	STB BODY OD	FT.	NOZ. NO. / SIZE	5
	SUBS OD	FT.	SER. NO.	7
	BIT OR C.B.	FT.	DEPTH OUT	10
		FT.	CUMULATIVE HOURS RUN	
	KELLY DOWN	FT.	COND. OF BIT	6
	TOTAL	FT.	REAMER CUTTER NO.	
WT. OF STRING		LBS.	TYPE	

DRILLER J. Hibbard

HRS. DRLD.	CORE NO.	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT. ON BIT 1000#	PUMP PRESS.	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN

DEVIATION RECORD: DEPTH / DEV. / DIRECTION / DEPTH / DEV. / DIRECTION / DEPTH / DEV. / DIRECTION

REMARKS

8[00]	10[30]	REFLECTOSCOPE COLLARS
10[30]	12[30]	MAKE UP TESTER & STAKE FLARE LINE
12[30]	3[45]	RUN IN SLOWLY
3[45]	4[00]	RIG TO TEST

MUD RECORD

TIME	
WEIGHT	
VISC	
W.L.-C.C.	
FLTR. CK.	
PH	
SD. CONT.	

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

EVENING TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD	
	STANDS DP	FT.	RUN NO	
	SNGLS. DP	FT.	SIZE	
	D.C ID / OD	FT.	MFG.	
	RMR BODY OD	FT.	TYPE	
	STB BODY OD	FT.	NOZ. NO. / 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)	ROTARY R.P.M.	WT. ON BIT 1000#	PUMP PRESS	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN

DEVIATION RECORD: DEPTH / DEV. / DIRECTION / DEPTH / DEV / DIRECTION / DEPTH / DEV / DIRECTION

REMARKS

4[00]	4[30]	RIG TO TEST
4[30]	7[00]	TESTING
7[00]	12[00]	Chain Out of hole

DST #2A 9238-9238. Misrun. Lost packer seats after 10 minutes. Recovered 3330' of drilling fluid.

MUD RECORD

TIME	
WEIGHT	
VISC	
W.L.-C.C.	
FLTR CK.	
PH	
SD. CONT	

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

C.P.—36 (10/63)

DAILY DRILLING REPORT

REPORT NO. 7b DATE May 29

OPERATOR	LOCATION LSD. SEC. TWP. RGE. W.	WELL NAME No.	PROVINCE
SHELL CANADA LIMITED	Cloverleaf	Cloverleaf 1-46	N.W.T.

CONTRACTOR	RIG No.	DRILL PIPE STRING NO. SIZE	TOOL JOINT OD / TYPE THD.	CASING & LINER RECORD	SIZE	WT. & GR.	DEPTH SET FROM	DEPTH SET TO	PERFORATIONS FROM	PERFORATIONS TO	CEMENT USED	OTHER
REGENT DRLG	6		X H		9⅝		0	7005				

PUMPS NO.	MANUFACTURER	TYPE	STROKE LENGTH
1.	EMSCO ~~B-700~~	D700	16
2.	EMSCO	D~~500~~	16
3.			

OPERATOR'S REPRESENTATIVE: L. Stanyer

CONTRACTOR'S TOOL PUSHER:

TIME DISTRIBUTION—HOURS

	MORN	DAY	EVE
DRILLING ACTUAL	6½		
REAMING			
CIRCULATING	3¼	1½	
TRIPS	3¼	3¾	
DEVIATION SURVEY			
TEST B.O.P			
CUT OFF DRILL LINE			1
REPAIR RIG			2½
CORING			
WIRE LINE LOGGING			
OTHER		5¾	
FISHING			4½
COMPLETING (A) PERFORATING			
(B) RUNNING TUBING			
(C) SWABBING			
(D) TESTING			
(E) ACIDIZING			
(F) ADDITIONAL			
TOTALS	8	8	9

TIME SUMMARY (OFFICE USE ONLY)

CONTRACTOR'S TIME HRS:

OPERATOR'S TIME: 25½ hrs

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. or TRIPS SINCE LAST CUT

CUMULATIVE TON MI. or TRIPS

NO. OF DAYS FROM SPUD

CUMULATIVE ROTATING HRS.

MORNING TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD	
96	STANDS DP	8935.16 FT.	RUN NO.	51
	SNGLS. DP	FT.	SIZE	8¾
	D.C. ID		MFG.	SEC.
2/28	D.C. OD	569.19 FT.	TYPE	H87
2	RMR BODY OD	12.36 FT.	NOZ. NO.	3
	STB BODY OD	FT.	NOZ. SIZE	11
	SUBS OD	FT.	SER. NO	747976
	BIT OR C.B.	FT.	DEPTH OUT	9538
		FT.	CUMULATIVE HOURS RUN	6½
	KELLY DOWN	21.29 FT.	COND. OF BIT	
	TOTAL	9538.00 FT.	REAMER CUTTER NO.	
WT. OF STRING	195,000 LBS.		TYPE	

DRILLER: R. Shafnick

HRS. DRLD.	CORE NO.	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT. ON BIT 1000#	PUMP PRESS.	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN
6½		9440	9538		35	45	1500	5½	66	5½		

DEVIATION RECORD: DEPTH / DEV. / DIRECTION | DEPTH / DEV. / DIRECTION | DEPTH / DEV. / DIRECTION

REMARKS

12m	12⁴⁵	RUN IN
12⁴⁵	1⁰⁰	CLEAN TO BOTTOM
1M	7³⁰	DRILLING
7³⁰	8⁰⁰	↑ lost pump pressure. circ ↑ (1) circ. sample

MUD RECORD			
TIME	2	4	6
WEIGHT	9.3	9.3	9.4
VISC	78	78	78
W.L.-C.C.			
FLTR. CK.			
PH			
SD. CONT.			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
Water			

DAY TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD	
	STANDS DP	FT.	RUN NO.	
	SNGLS. DP	FT.	SIZE	
	D.C. ID		MFG.	
	D.C. OD	FT.	TYPE	
	RMR BODY OD	FT.	NOZ. NO.	
	STB BODY OD	FT.	NOZ. 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: J. Hilford

HRS. DRLD.	CORE NO.	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT. ON BIT 1000#	PUMP PRESS.	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN

DEVIATION RECORD: DEPTH / DEV. / DIRECTION | DEPTH / DEV. / DIRECTION | DEPTH / DEV. / DIRECTION

REMARKS

8⁰⁰	9³⁰	CIRC SAMPLE
9³⁰	12⁰⁰	MILL OUT
12⁰⁰	4⁰⁰	REMOVE DOTCH MAN SLIP DOWN ON COLLAR

MUD RECORD			
TIME			
WEIGHT			
VISC			
W.L.-C.C.			
FLTR. CK.			
PH			
SD. CONT.			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

EVENING TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD	
97	STANDS DP	FT.	RUN NO	
1	SNGLS. DP	9060.38 FT.	SIZE	
	D.C ID		MFG.	
17	D.C OD	452.91 FT.	TYPE	
	RMR BODY OD	FT.	NOZ. NO.	
	STB BODY OD	FT.	NOZ. SIZE	
	SUBS OD	11.98 FT.	SER NO	
	BIT OR C.B.	FT	DEPTH OUT	
		FT	CUMULATIVE HOURS RUN	
	KELLY DOWN	8.00 FT.	COND. OF BIT	
	TOTAL	9532.08 FT.	REAMER CUTTER NO.	
WT OF STRING	140000 LBS.		TYPE	

DRILLER: L. Pickalk

HRS. DRLD.	CORE NO.	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT. ON BIT 1000#	PUMP PRESS	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN

DEVIATION RECORD: DEPTH / DEV. / DIRECTION | DEPTH / DEV / DIRECTION | DEPTH / DEV / DIRECTION

REMARKS

4⁰⁰	5⁰⁰	RIG UP DIXER SHOTT
5⁰⁰	5¹⁵	RUN IN COLLARS
5¹⁵	6¹⁵	SLIP & CUT LINE
6¹⁵	9¹⁵	WORK ON DWTS
9¹⁵	9³⁰	Run In
9³⁰	9⁰⁰	Repair Jarwith air line & Snapflp chain
9⁰⁰	11³⁰	Run In
11³⁰	12⁰⁰	Circulate

MUD RECORD			
TIME			
WEIGHT			
VISC			
W.L.-C.C.			
FLTR CK.			
PH			
SD. CONT			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

C.P.—38 (10/63) **DAILY DRILLING REPORT** REPORT NO. 25 DATE MAY 28

OPERATOR	LOCATION LSD. SEC. TWP. RGE. W.	WELL NAME	No.	PROVINCE
SHELL CANADA LIMITED		SHELL COUCH LAKE	1-76	NWT

CONTRACTOR	RIG No.	DRILL PIPE STRING NO. SIZE	TOOL JOINT OD	TYPE THD.
REGENT DRLG	6	2 5"		XH

OPERATOR'S REPRESENTATIVE: E St Onge — CONTRACTOR'S TOOL PUSHER: L K Hansen

PUMPS

NO.	MANUFACTURER	TYPE	STROKE LENGTH
1.	EMSCO	D200	16
2.	EMSCO	D500	16
3.			

CASING & LINER RECORD

	SIZE	WT. & GR.	DEPTH SET FROM	DEPTH SET TO	PERFORATIONS FROM	PERFORATIONS TO	CEMENT USED	OTHER
	5½	55	0	9035				

MORNING TOUR

TIME DISTRIBUTION—HOURS

	MORN	DAY	EVE
DRILLING ACTUAL			
REAMING			
CIRCULATING			
TRIPS	4½	4¾	6
DEVIATION SURVEY			
TEST B.O.P			½
CUT OFF DRILL LINE		1	
REPAIR RIG			
CORING			
WIRE LINE LOGGING			
OTHER		1¼	W/C
FISHING	3½	1	
COMPLETING (A) PERFORATING			
(B) RUNNING TUBING			
(C) SWABBING			
(D) TESTING			
(E) ACIDIZING			
(F) ADDITIONAL			
TOTALS	8	8	

NO.	DRILLING ASSEMBLY		BIT RECORD	
	STANDS DP	FT.	RUN NO.	
	SNGLS. DP	FT.	SIZE	
	D.C. ID		MFG.	
	D.C. OD	FT.	TYPE	
	RMR BODY OD	FT.	NOZ. NO.	
	STB BODY OD	FT.	NOZ. 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: G McIntosh

HRS. DRLD.	CORE NO.	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT. ON BIT 1000#	PUMP PRESS.	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN

DEVIATION RECORD:	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

REMARKS

1200	1230	HOIST
1230	200	SERVICE OVER SHOT
200	430	RUN IN TO FISH
430	630	WORK OVER FISH
630	800	HOIST SPINNING OUT W/CHAIN

MUD RECORD

TIME				
WEIGHT				
VISC				
W.L.-C.C.				
FLTR. CK.				
PH				
SD. CONT.				

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

DAY TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD	
	STANDS DP	FT.	RUN NO.	
	SNGLS. DP	FT.	SIZE	
	D.C. ID		MFG.	
	D.C. OD	FT.	TYPE	
	RMR BODY OD	FT.	NOZ. NO	
	STB BODY OD	FT.	NOZ. 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: J. Hibbard

HRS. DRLD.	CORE NO.	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT. ON BIT 1000#	PUMP PRESS.	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN

DEVIATION RECORD:	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

REMARKS

800	900	FINISH POOLING OUT
900	1000	BREAK OVER SHOT & MAKE UP TAPP
1000	1100	RUN IN COLLARS
1100	1200	CUT & SLIP LINE & RIG SERVICE
1200	330	RUN IN
230	330	WORK FISH
330	400	POH OUT

MUD RECORD

TIME				
WEIGHT				
VISC				
W.L.-C.C.				
FLTR. CK.				
PH				
SD. CONT.				

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

TIME SUMMARY (OFFICE USE ONLY)

CONTRACTOR'S TIME HRS:	
OPERATOR'S TIME:	24 hrs
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. or TRIPS SINCE LAST CUT	
CUMULATIVE TON MI. or TRIPS	
NO. OF DAYS FROM SPUD	
CUMULATIVE ROTATING HRS.	

EVENING TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD	
95	STANDS DP	8443 FT.	RUN NO	51
	SNGLS. DP	FT.	SIZE	8 3/4
20	D.C. ID		MFG.	SEC.
16	D.C. OD	596.35 FT.	TYPE	H8-J
2	RMR BODY OD	12.36 FT.	NOZ. NO.	3
	STB BODY OD	FT.	NOZ. SIZE	11
	SUBS OD	FT.	SER NO	747977
	BIT OR C.B.	FT.	DEPTH OUT	
		FT.	CUMULATIVE HOURS RUN	
	KELLY DOWN	15 FT.	COND. OF BIT	
	TOTAL	9440.25 FT.	REAMER CUTTER NO.	
	WT OF STRING	LBS.	TYPE	

DRILLER

HRS. DRLD.	CORE NO.	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT. ON BIT 1000#	PUMP PRESS.	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN
			9440									

DEVIATION RECORD:	DEPTH	DEV.	DIRECTION	DEPTH	DEV	DIRECTION	DEPTH	DEV	DIRECTION

REMARKS

400	730	POH OUT (WET & WITH CHAIN)
730	830	BREAK DOWN FISH & WAIT ON REAMER
830	930	Service rig & check B.O.P's
930	12M	Run in with Bit.

MUD RECORD

TIME				
WEIGHT				
VISC				
W.L.-C.C.				
FLTR. CK.				
PH				
SD. CONT				

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

C.P.—34 (10/63) **DAILY DRILLING REPORT** REPORT NO. 94 DATE MAY 27/65

OPERATOR: SHELL CANADA LIMITED | LOCATION LSD. SEC. TWP. RGE. W. | WELL NAME: SHELL CLOVER LEAF No. 1-46 | PROVINCE: ALTA

CONTRACTOR: REGENT DRLG | RIG No. 6 | DRILL PIPE STRING NO. SIZE 2 5 | TOOL JOINT OD | TYPE THD. XH

OPERATOR'S REPRESENTATIVE: R B Chamberlain | CONTRACTOR'S TOOL PUSHER: L. R. Hansen

PUMPS

NO.	MANUFACTURER	TYPE	STROKE LENGTH
1.	EMSCO	D37	16
2.	EMSCO	D37	16
3.			

CASING & LINER RECORD	SIZE	WT. & GR.	DEPTH SET FROM	DEPTH SET TO	PERFORATIONS FROM	PERFORATIONS TO	CEMENT USED	OTHER
	9 5/8		0	2025				

TIME DISTRIBUTION—HOURS

	MORN	DAY	EVE
DRILLING ACTUAL	8	4 1/2	
REAMING			
CIRCULATING SAMPLES		1	
TRIPS		2 1/2	4
DEVIATION SURVEY			
TEST B.O.P			
CUT OFF DRILL LINE			
REPAIR RIG			
CORING			
WIRE LINE LOGGING			
OTHER		1/2	
FISHING			3
COMPLETING (A) PERFORATING			
(B) RUNNING TUBING			
(C) SWABBING			
(D) TESTING			
(E) ACIDIZING			
(F) ADDITIONAL			
TOTALS	8	9	7

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. or TRIPS SINCE LAST CUT

CUMULATIVE TON MI. or TRIPS

NO. OF DAYS FROM SPUD

CUMULATIVE ROTATING HRS.

MORNING TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD	
94	STANDS DP	8751.19 FT.	RUN NO.	50
	SNGLS. DP	FT.	SIZE	8 3/4
20	D.C. 2-8" ID 8 P-6 1/2" OD	569.19 FT.	MFG.	REED
			TYPE	HYC46
	RMR BODY OD	12.86 FT.	NOZ. NO.	3
	STB BODY OD	FT.	SIZE	11
	SUBS OD	FT.	SER. NO	E84045
	BIT OR C.B.	FT.	DEPTH OUT	
		FT.	CUMULATIVE HOURS RUN	
	KELLY DOWN	35.00 FT.	COND. OF BIT	
	TOTAL	9368 FT.	REAMER CUTTER NO.	
	WT. OF STRING	198M LBS.	TYPE	

DRILLER: J. McIntosh

HRS. DRLD.	CORE NO.	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT. ON BIT 1000#	PUMP PRESS.	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN
8		9232	9368	130	32	45	1560	6 1/2	65			

DEVIATION RECORD: DEPTH | DEV. | DIRECTION | DEPTH | DEV. | DIRECTION | DEPTH | DEV. | DIRECTION

REMARKS

~~6 AM~~ 8 00 DRILL

MUD RECORD

	12 MID	4 AM	6 AM
TIME			
WEIGHT	8.4	8.3	8.3
VISC	28	28	28
W.L.-C.C.			
FLTR. CK.			
PH			
SD. CONT.			

MUD & CHEMICALS ADDED — TYPE | AMT. | TYPE | AMT.

WATER

DAY TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD	
95	STANDS DP	8843.70 FT.	RUN NO.	50
	SNGLS. DP	FT.	SIZE	8 3/4
20	2-8 1/2" ID D.C. 18-6 1/2" OD	569.19 FT.	MFG.	RAMCO
			TYPE	HYC46
	RMR BODY OD	12.86 FT.	NOZ. NO.	3
	STB BODY OD	FT.	SIZE	11
	SUBS OD	FT.	SER. NO.	E84045
	BIT OR C.B.	FT.	DEPTH OUT	9440
		FT.	CUMULATIVE HOURS RUN	
	KELLY DOWN	15 FT.	COND. OF BIT	
	TOTAL	9440-72 FT.	REAMER CUTTER NO.	
	WT. OF STRING	200/1000 LBS.	TYPE	

DRILLER: J. Wibberd

HRS. DRLD.	CORE NO.	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT. ON BIT 1000#	PUMP PRESS.	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN
4 1/2		9368	9440	72	35	45	1500	5 1/2	66			

DEVIATION RECORD: DEPTH | DEV. | DIRECTION | DEPTH | DEV. | DIRECTION | DEPTH | DEV. | DIRECTION

REMARKS

8 00 8 30 RIG SERVICE & SWIVEL SERVICE
8 30 12 30 DRLG
12 30 1 30 CIRC. SAMPLES
1 30 4 00 PULL OUT (TWIST OFF)

MUD RECORD

TIME			
WEIGHT			
VISC			
W.L.-C.C.			
FLTR. CK.			
PH			
SD. CONT.			

MUD & CHEMICALS ADDED — TYPE | AMT. | TYPE | AMT.

EVENING TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD	
	STANDS DP	FT.	RUN NO	
	SNGLS. DP	FT.	SIZE	
	D.C ID OD	FT.	MFG.	
			TYPE	
	RMR BODY OD	FT.	NOZ. 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: L. McIntosh

HRS. DRLD.	CORE NO.	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT. ON BIT 1000#	PUMP PRESS	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN

DEVIATION RECORD: DEPTH | DEV. | DIRECTION | DEPTH | DEV | DIRECTION | DEPTH | DEV | DIRECTION

REMARKS

4 00 5 00 BOP CHECK & MAKE UP OVER SHOT
5 00 8 00 RUN IN
8 00 10 00 WORK OVER FISH
10 00 12 00 HOIST

MUD RECORD

TIME			
WEIGHT			
VISC			
W.L.-C.C.			
FLTR. CK.			
PH			
SD. CONT.			

MUD & CHEMICALS ADDED — TYPE | AMT. | TYPE | AMT.

C.P.—38 (10/63) **DAILY DRILLING REPORT** REPORT NO. 74 DATE MAY 26/65

OPERATOR	LOCATION LSD. SEC. TWP. RGE. W.	WELL NAME	No.	PROVINCE
SHELL CANADA LIMITED		SHELL CANOL LEAF	1-46	N.W.T.

CONTRACTOR	RIG No.	DRILL PIPE STRING NO. SIZE	TOOL JOINT OD / TYPE THD.
REGENT DRLG	6	2 5"	TYPE THD. XH

OPERATOR'S REPRESENTATIVE	CONTRACTOR'S TOOL PUSHER
RS Lumley	L.R. Hansen

PUMPS

NO.	MANUFACTURER	TYPE	STROKE LENGTH
1.	EMSCO	D 700	16
2.	EMSCO	D 500	16
3.			

CASING & LINER RECORD

SIZE	WT. & GR.	DEPTH SET FROM	DEPTH SET TO	PERFORATIONS FROM	PERFORATIONS TO	CEMENT USED	OTHER
9⅝	53.5	0	7035				

TIME DISTRIBUTION—HOURS

	MORN	DAY	EVE
DRILLING ACTUAL	7½	7	1½
REAMING			
CIRCULATING 4pm		9¼	
TRIPS			5¼
DEVIATION SURVEY			½
TEST B.O.P. Weekly			½
CUT OFF DRILL LINE			
REPAIR RIG	½		½
CORING			
WIRE LINE LOGGING			
OTHER		1¼	
FISHING			
COMPLETING (A) PERFORATING			
(B) RUNNING TUBING			
(C) SWABBING			
(D) TESTING			
(E) ACIDIZING			
(F) ADDITIONAL			
TOTALS	8	8	8

TIME SUMMARY (OFFICE USE ONLY)

CONTRACTOR'S TIME HRS:

OPERATOR'S TIME:

HRS. W/D.P:

HRS W/O D.P:

HRS STANDBY

WIRE LINE RECORD

REEL NO

NO OF LINES SIZE

FEET SLIPPED

FEET CUT OFF

PRESENT LENGTH

TON MI. or TRIPS SINCE LAST CUT

CUMULATIVE TON MI. or TRIPS

NO. OF DAYS FROM SPUD

CUMULATIVE ROTATING HRS.

MORNING TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD	
90	STANDS DP	FT.	RUN NO.	49
2	SNGLS. DP	844.18 FT.	SIZE	8¾
26	D.C. ID 2-6½ OD 18-6¼	569.19 FT.	MFG.	SEC
			TYPE	H55
	RMR BODY OD	1286 FT.	NOZ. NO.	3
	STB BODY OD	FT.	NOZ. SIZE	2-11 1-12
	SUBS OD	FT.	SER. NO	787825
	BIT OR C.B.	FT.	DEPTH OUT	
		FT.	CUMULATIVE HOURS RUN	20½
	KELLY DOWN	4100 FT.	COND. OF BIT	RUN
	TOTAL	9064.85 FT.	REAMER CUTTER NO.	
WT. OF STRING	192M LBS.		TYPE	

DRILLER G McIntosh

HRS. DRLD.	CORE NO.	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT. ON BIT 1000#	PUMP PRESS.	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN
7½		8939	9064	125'	40	45	1400	5½	70			

DEVIATION RECORD: DEPTH / DEV. / DIRECTION

REMARKS

1200 1230 WORK ON PUMPS

1230 8⁰⁰ DRILL

MUD RECORD

TIME	12 MID	4 AM	6 AM
WEIGHT	9.3	9.3	9.3
VISC	29	28	28
W.L.-C.C.			
FLTR. CK.			
PH			
SD. CONT.			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
WATER			

DAY TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD	
92	STANDS DP	FT.	RUN NO.	49
2	SNGLS. DP	8626.35 FT.	SIZE	8¾
20	D.C. ID 2-8½ OD 18-6¼	569.19 FT.	MFG.	SEC
			TYPE	H88-J
	RMR BODY OD	12.86 FT.	NOZ. NO	2 / 1
	STB BODY OD	FT.	NOZ. SIZE	11 / 12
	SUBS OD	FT.	SER. NO.	787925
	BIT OR C.B.	FT.	DEPTH OUT	9218
		FT.	CUMULATIVE HOURS RUN	27½
	KELLY DOWN	10— FT.	COND. OF BIT	4 4 2
	TOTAL	9218.46 FT.	REAMER CUTTER NO.	
WT. OF STRING	198M LBS.		TYPE	

DRILLER J. Hibbard

HRS. DRLD.	CORE NO.	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT. ON BIT 1000#	PUMP PRESS.	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN
4		9064	9218	154	45	45	1400	5½	70	5½	64	

DEVIATION RECORD: DEPTH / DEV. / DIRECTION

REMARKS

8⁰⁰ 8¹⁵ RIG SERVICE

8¹⁵ 3¹⁵ DRILL

3¹⁵ 4⁰⁰ CIRCULATE SAMPLE

MUD RECORD

TIME	8 AM	12	2 P.M.
WEIGHT	8.3	8.3	8.3
VISC	28	28	28
W.L.-C.C.			
FLTR. CK.			
PH			
SD. CONT.			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
WATER + CLEAN TANKS			

EVENING TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD	
92	STANDS DP	FT.	RUN NO	50
2	SNGLS. DP	8626.35 FT.	SIZE	8 3/4
20	D.C. ID OD	569.19 FT.	MFG.	REED
			TYPE	HC46
	RMR BODY OD	1286 FT.	NOZ. NO.	3
	STB BODY OD	FT.	NOZ. SIZE	11
	SUBS OD	FT.	SER NO	E84045
	BIT OR C.B.	FT	DEPTH OUT	
		FT.	CUMULATIVE HOURS RUN	
	KELLY DOWN	30.00 FT.	COND. OF BIT	
	TOTAL	9235.41 FT.	REAMER CUTTER NO.	
WT OF STRING		LBS.	TYPE	

DRILLER J. Hibbard

HRS. DRLD.	CORE NO.	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT. ON BIT 1000#	PUMP PRESS	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN
1¼		9218	9235	20	32	[illegible]	500	5½	65			

DEVIATION RECORD: DEPTH 9200 / DEV. 11° / DIRECTION

REMARKS

4⁰⁰ 4³⁰ SURVEY

4³⁰ 7⁰⁰ PULL OUT

7⁰⁰ 7³⁰ RIG SERVICE & BOP CHECK

7³⁰ 8⁰⁰ RUN IN DC

8⁰⁰ 8³⁰ WORK ON TOUROE GUAGE

8³⁰ 10⁴⁵ RUN IN CLEAN TO BOTTOM

10⁴⁵ 12⁰⁰ DRILL

MUD RECORD

TIME			10 PM
WEIGHT			8.4
VISC			28
W.L.-C.C.			
FLTR. CK.			
PH			
SD. CONT			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
WATER			

C.P.—38 (10/63) **DAILY DRILLING REPORT** REPORT NO. 72 DATE MAY 25/65

OPERATOR: SHELL CANADA LIMITED | LOCATION LSD. SEC. TWP. RGE. W. | WELL NAME: SHELL CHURCHILL No. 1—16 | PROVINCE: N.W.T

CONTRACTOR: REGENT DRLG. RIG No. SIX | DRILL PIPE STRING NO. SIZE 2 5" | TOOL JOINT OD TYPE THD. X-H

OPERATOR'S REPRESENTATIVE: W B Kunka | CONTRACTOR'S TOOL PUSHER: L. R. Hansen

PUMPS

NO.	MANUFACTURER	TYPE	STROKE LENGTH
1.	EMSCO	D-700	16
2.	EMSCO	D-500	16
3.			

CASING & LINER RECORD

SIZE	WT. & GR.	DEPTH SET FROM	DEPTH SET TO	PERFORATIONS FROM	PERFORATIONS TO	CEMENT USED	OTHER
9 5/8		0	7005				

MORNING TOUR

TIME DISTRIBUTION—HOURS

	MORN	DAY	EVE
DRILLING ACTUAL	2 3/4	5 1/4	7 3/4
REAMING			
CIRCULATING Samp	3/4		
TRIPS	2 1/2	2	
DEVIATION SURVEY	1/2		
TEST B.O.P + Service	1/2		1/2
CUT OFF DRILL LINE	1		
REPAIR RIG			
CORING			
WIRE LINE LOGGING			
OTHER		3/4	
FISHING			
COMPLETING (A) PERFORATING			
(B) RUNNING TUBING			
(C) SWABBING			
(D) TESTING			
(E) ACIDIZING			
(F) ADDITIONAL			
TOTALS	8	8	

NO.	DRILLING ASSEMBLY		BIT RECORD		
87	STANDS DP	FT.	RUN NO.	48	49
1	SNGLS. DP	8132.53 FT.	SIZE	8 3/4	8 3/4
10	D.C. 8 1/2" ID 18-6 1/2" OD	569.19 FT.	MFG.	H.W	Sec.
	RMR BODY OD	12.86 FT.	TYPE	R67X-J	H8J
	STB BODY OD	FT.	NOZ. NO.	3	3
	SUBS OD	FT.	NOZ. SIZE	11	2-11 1-12
	BIT OR C.B.	FT.	SER. NO	65174	78702
		FT.	DEPTH OUT	8740	W
	KELLY DOWN	40 FT.	CUMULATIVE HOURS RUN	27 3/4	5
	TOTAL	8740.53 FT.	COND. OF BIT	W.O.	E
WT. OF STRING	192000 LBS.		REAMER CUTTER NO.		
DRILLER	J. Wibard		TYPE		

HRS. DRLD.	CORE NO.	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT. ON BIT 1000#	PUMP PRESS.	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN
2 3/4		8705	8740	35'	40	45	1500	5 1/2	64			

DEVIATION RECORD: DEPTH 8700 DEV. 9° | DIRECTION | DEPTH | DEV. | DIRECTION | DEPTH | DEV. | DIRECTION

REMARKS

12	2	DRLG
2	3	CIRCULATE SAMPLES
3	4	SURVEY
4	6	POH OUT
6	6	RIG SERVICE & BOP CHECK
6	7	RUN IN CORGUNS
7	8	SLIP & CUT LINE

MUD RECORD

	12 M	2 AM
TIME		
WEIGHT	8.3	8.3
VISC	28	28
W.L.-C.C.		
FLTR. CK.		
PH		
SD. CONT.		

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
WATER & GEL SAW			
THINNER			

DAY TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD	
88	STANDS DP	FT.	RUN NO.	49
	SNGLS. DP	8193.80 FT.	SIZE	F 3/4
20	D.C. ID OD	569.19 FT.	MFG.	SEC
	RMR BODY OD	12.86 FT.	TYPE	H8J
	STB BODY OD	FT.	NOZ. NO.	3
	SUBS OD	FT.	NOZ. SIZE	3-11 1-12
	BIT OR C.B.	FT.	SER. NO.	78725
		FT.	DEPTH OUT	
	KELLY DOWN	40 FT.	CUMULATIVE HOURS RUN	5 1/4
	TOTAL	8816.85 FT.	COND. OF BIT	RUN
WT. OF STRING	192M LBS.		REAMER CUTTER NO.	
DRILLER	L McIntosh		TYPE	

HRS. DRLD.	CORE NO.	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT. ON BIT 1000#	PUMP PRESS	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN
5 1/4		8740	8816	76	40	25/45	1400	5 1/2	70			

DEVIATION RECORD: DEPTH | DEV. | DIRECTION | DEPTH | DEV. | DIRECTION | DEPTH | DEV. | DIRECTION

REMARKS

8	10	RUN IN
10	16 45	BREAK CIR CLEAN 35 FT TO BOTTOM
16 45	400	DRILL

MUD RECORD

	12 NOON	2 PM
TIME		
WEIGHT	8.3	8.3
VISC	28	28
W.L.-C.C.		
FLTR. CK.		
PH		
SD. CONT.		

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
WATER			

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. or TRIPS SINCE LAST CUT

CUMULATIVE TON MI. or TRIPS

NO. OF DAYS FROM SPUD

CUMULATIVE ROTATING HRS.

EVENING TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD	
89	STANDS DP	FT.	RUN NO	4/9
1	SNGLS. DP	236.85 FT.	SIZE	8 3/4
20	D.C. 3-8 1/2 ID 18-6 1/2 OD	569.19 FT.	MFG.	SEC
	RMR BODY OD	12.86 FT.	TYPE	H8J
	STB BODY OD	FT.	NOZ. NO.	2 / 1
	SUBS OD	FT.	NOZ. SIZE	11 / 12
	BIT OR C.B.	FT.	SER NO	78725
		FT.	DEPTH OUT	
	KELLY DOWN	40 FT.	CUMULATIVE HOURS RUN	13
	TOTAL	8939.88 FT.	COND. OF BIT	RUN
WT OF STRING	192M LBS.		REAMER CUTTER NO.	
DRILLER	L McIntosh		TYPE	

HRS. DRLD.	CORE NO.	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT. ON BIT 1000#	PUMP PRESS	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN
7 3/4		8816	8939	123	40	4	1400	5 1/2	70			

DEVIATION RECORD: DEPTH | DEV. | DIRECTION | DEPTH | DEV | DIRECTION | DEPTH | DEV | DIRECTION

REMARKS

4	4 15	RIG SERVICE
4 15	1200	DRLG

MUD RECORD

	4PM	8PM	10PM
TIME			
WEIGHT	8.3	8.3	8.3
VISC	28	28	28
W.L.-C.C.			
FLTR. CK.			
PH			
SD. CONT			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
WATER			

C.P.—38 (10/63) **DAILY DRILLING REPORT** REPORT NO. 71 DATE MAY 24/65

OPERATOR	LOCATION LSD. SEC. TWP. RGE. W	WELL NAME	No.	PROVINCE
SHELL CANADA LIMITED		SHELL ROCKYFORD	1-16	N.W.T.

CONTRACTOR	RIG No.	DRILL PIPE STRING NO. SIZE	TOOL JOINT OD	TYPE THD.
REGENT DRLG.	514	2 5"		X-H-

OPERATOR'S REPRESENTATIVE	CONTRACTOR'S TOOL PUSHER
K.B. Lumley	L.R. Hansen

PUMPS

NO.	MANUFACTURER	TYPE	STROKE LENGTH
1.	EMSCO	D-700	16
2.	EMSCO	D-500	16
3.			

CASING & LINER RECORD

SIZE	WT. & GR.	DEPTH SET FROM	DEPTH SET TO	PERFORATIONS FROM	PERFORATIONS TO	CEMENT USED	OTHER
9⅝		0	7005				

TIME DISTRIBUTION—HOURS

	MORN	DAY	EVE
DRILLING ACTUAL	7¾	7¾	7½
REAMING			
CIRCULATING			
TRIPS			
DEVIATION SURVEY			
TEST B.O.P		½	
CUT OFF DRILL LINE			
REPAIR RIG		[illegible]	
CORING			
WIRE LINE LOGGING			
OTHER	¼	¼	¼
FISHING			
COMPLETING (A) PERFORATING			
(B) RUNNING TUBING			
(C) SWABBING			
(D) TESTING			
(E) ACIDIZING			
(F) ADDITIONAL			
TOTALS	8	8	8

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

KEEL NO
NO OF LINES SIZE
FEET SLIPPED
FEET CUT OFF
PRESENT LENGTH
TON MI. or TRIPS SINCE LAST CUT
CUMULATIVE TON MI. or TRIPS
NO. OF DAYS FROM SPUD
CUMULATIVE ROTATING HRS.

MORNING TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD	
84	STANDS DP	7819.02 FT.	RUN NO.	48
	SNGLS. DP	FT.	SIZE	8¾
20	2-8" ID D.C. 18-6½ OD	569.19 FT.	MFG.	H.W.
			TYPE	RG 7XJ
	RMR BODY OD	12.86 FT.	NOZ. NO.	3
	STB BODY OD	FT.	NOZ. SIZE	11
	SUBS OD	FT.	SER. NO	65174
	BIT OR C.B.	FT.	DEPTH OUT	Drlg
		FT.	CUMULATIVE HOURS RUN	18
	KELLY DOWN	FT.	COND. OF BIT	1/1 Drlg
	TOTAL	8437.07 FT.	REAMER CUTTER NO.	
	WT. OF STRING	178,000 LBS.	TYPE	

DRILLER J. Hibbard

HRS. DRLD.	CORE NO.	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT. ON BIT 1000#	PUMP PRESS.	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN
7¾		8287	8437	15, ✓r.	40	45	1500	5½	64			

DEVIATION RECORD:	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

REMARKS

12 AM 12 PM Rig Service
12 PM 8 AM Drlg

MUD RECORD

TIME	12 PM	2 AM	6 AM
WEIGHT	8.3	8.3	8.3
VISC	28	28	28
W.L.-C.C.			
FLTR. CK.			
PH			
SD. CONT.			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
WATER FROM CLEAN TANKS			

DAY TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD	
85	STANDS DP	FT.	RUN NO.	48
2	SNGLS. DP	7976.26 FT.	SIZE	8¾
20	D.C. 2-8" ID 18-6½ OD	569.19 FT.	MFG.	HW
			TYPE	RG7XJ
	RMR BODY OD	12.86 FT.	NOZ. NO.	3
	STB BODY OD	FT.	NOZ. SIZE	-11
	SUBS OD	FT.	SER. NO.	65174
	BIT OR C.B.	FT.	DEPTH OUT	Run
		FT.	CUMULATIVE HOURS RUN	17½
	KELLY DOWN	22.00 FT.	COND. OF BIT	Run
	TOTAL	8580.79 FT.	REAMER CUTTER NO.	
	WT. OF STRING	190M LBS.	TYPE	

DRILLER L. McIntosh

HRS. DRLD.	CORE NO.	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT. ON BIT 1000#	PUMP PRESS.	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN
7½		8437	8580	143	35/40	35/45	1500	5½	64			

DEVIATION RECORD:	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

REMARKS

8 AM 8:30 Rig Service Bop and Kelly cock check
8:30 4 PM Drill

MUD RECORD

TIME	8 AM	12 NOON	2 PM
WEIGHT	8.3	8.3	8.3
VISC	28	28	28
W.L.-C.C.			
FLTR. CK.			
PH			
SD. CONT.			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
WATER			

EVENING TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD	
87	STANDS DP	8105.02 FT.	RUN NO	48
	SNGLS. DP	FT.	SIZE	8¾
20	D.C 2-6½ ID 18-6½ OD	569.19 FT.	MFG.	HW
			TYPE	RG7XJ
	RMR BODY OD	12.86 FT.	NOZ. NO.	3
	STB BODY OD	FT.	NOZ. SIZE	11
	SUBS OD	FT.	SER NO	65174
	BIT OR C.B.	FT.	DEPTH OUT	Drlg
		FT.	CUMULATIVE HOURS RUN	28
	KELLY DOWN	21— FT.	COND. OF BIT	Drlg
	TOTAL	8705.07 FT.	REAMER CUTTER NO.	
	WT OF STRING	190M LBS.	TYPE	

DRILLER J. Hibbard

HRS. DRLD.	CORE NO.	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT. ON BIT 1000#	PUMP PRESS	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN
7½		8580	8705	125	35/40	35/45	1560	5½	64			

DEVIATION RECORD:	DEPTH	DEV.	DIRECTION	DEPTH	DEV	DIRECTION	DEPTH	DEV	DIRECTION

REMARKS

4 PM 4:30 Rig Service
4:30 11 PM Drlg
11 PM 11:30 Change Pumps & Prime Same
11:30 12 AM Drlg

MUD RECORD

TIME	4 PM	8 PM	10 PM
WEIGHT	8.3	8.3	8.3
VISC	28	28	28
W.L.-C.C.			
FLTR. CK.			
PH			
SD. CONT			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
WATER FROM CLEAN		TANKS	

C.P.—38 (10/63) **DAILY DRILLING REPORT** REPORT NO. 70 DATE MAY 23/65

OPERATOR	LOCATION LSD. SEC. TWP. RGE. W.	WELL NAME	No.	PROVINCE
SHELL CANADA LIMITED		SHELL CLOVERLEAF	1-46	NWT

CONTRACTOR	RIG No.	DRILL PIPE STRING NO. SIZE	TOOL JOINT OD TYPE THD
REGENT DRILLING	SIX	4 5"	X-H

OPERATOR'S REPRESENTATIVE: L R Hansen

CONTRACTOR'S TOOL PUSHER: R B Cunningham

PUMPS

NO.	MANUFACTURER	TYPE	STROKE LENGTH
1.	EMSCO	D-700	16
2.	EMSCO	D-500	16
3.			

CASING & LINER RECORD

SIZE	WT. & GR.	DEPTH SET FROM	DEPTH SET TO	PERFORATIONS FROM	PERFORATIONS TO	CEMENT USED	OTHER
9 5/8		0	7005				

TIME DISTRIBUTION—HOURS

	MORN	DAY	EVE
DRILLING ACTUAL	8	6 1/4	3 1/4
REAMING			1/2
CIRCULATING		3/4	
TRIPS		1/4	3 1/2
DEVIATION SURVEY		1/2	
TEST B.O.P			1/2
CUT OFF DRILL LINE			
REPAIR RIG			1/2
CORING			
WIRE LINE LOGGING			
OTHER		1/4	
FISHING			
COMPLETING (A) PERFORATING			
(B) RUNNING TUBING			
(C) SWABBING			
(D) TESTING			
(E) ACIDIZING			
(F) ADDITIONAL			
TOTALS	8	8	8

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. or TRIPS SINCE LAST CUT

CUMULATIVE TON MI. or TRIPS

NO. OF DAYS FROM SPUD

CUMULATIVE ROTATING HRS.

MORNING TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD	
31	STANDS DP	7540-64 FT.	RUN NO.	4/7
	SNGLS. DP	FT.	SIZE	8 3/4
20	D.C. 2-8 1/2 ID 18-6 1/2 OD	569-19 FT.	MFG.	SEC
			TYPE	H8-J
	RMR BODY OD	12-86 FT.	NOZ. NO.	2 / 1
	STB BODY OD	FT.	NOZ. SIZE	11 / 12
	SUBS OD	FT.	SER. NO	787874
	BIT OR C.B.	FT.	DEPTH OUT	
		FT.	CUMULATIVE HOURS RUN	25 1/2
	KELLY DOWN	41— FT.	COND. OF BIT	Fdg
	TOTAL	8163-69 FT.	REAMER CUTTER NO.	
WT. OF STRING	168,000 LBS.	TYPE		

DRILLER: J. Hibbard

HRS. DRLD.	CORE NO.	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT. ON BIT 1000#	PUMP PRESS.	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN
8		8010	8163	153'	30/45	45	1550	5 1/2	70			

DEVIATION RECORD:

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

REMARKS

12:00 8:00 Drlg

MUD RECORD

	12 A.M	2 A.M	4 A.M
WEIGHT	8.3	8.3	8.3
VISC	28	28	28
W.L.-C.C.			
FLTR. CK.			
PH			
SD. CONT.			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
WATER			

DAY TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD	
82	STANDS DP	FT.	RUN NO.	4A
	SNGLS. DP	7633.29 FT.	SIZE	8 3/4
20	D.C. ID OD	569.19 FT.	MFG.	SEC
			TYPE	H8S
	RMR BODY OD	12.86 FT.	NOZ. NO	3
	STB BODY OD	FT.	NOZ. SIZE	2-11 2-12
	SUBS OD	FT.	SER. NO.	787874
	BIT OR C.B.	FT.	DEPTH OUT	8250
		FT.	CUMULATIVE HOURS RUN	4 3/4
	KELLY DOWN	350 FT.	COND. OF BIT	4 4 7
	TOTAL	8250.34 FT.	REAMER CUTTER NO.	
WT. OF STRING	165m LBS.	TYPE		

DRILLER: L McKintosh

HRS. DRLD.	CORE NO.	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT. ON BIT 1000#	PUMP PRESS.	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN
6 1/4		8163	8250	87	35/45	35/50	1400	5 1/2	70			

DEVIATION RECORD:

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION
8250								

REMARKS

6:00	8:15	Rig Service
8:15	2:30	Drill
2:30	3:15	Circ Sample
3:15	3:45	Survey
3:45	4:00	Hoist

MUD RECORD

	8 AM	10 AM	12 PM
WEIGHT	8.3	8.3	8.3
VISC	28	28	28
W.L.-C.C.			
FLTR. CK.			
PH			
SD. CONT.			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
WATER			

EVENING TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD	
82	STANDS DP	FT.	RUN NO	4B
1	SNGLS. DP	7664.83 FT.	SIZE	8 3/4
20	D.C. 2-8" ID 18-6 1/2 OD	569.19 FT.	MFG.	HTC
			TYPE	H67J
	RMR BODY OD	12.86 FT.	NOZ. NO.	3
	STB BODY OD	FT.	NOZ. SIZE	-11
	SUBS OD	FT.	SER NO	65174
	BIT OR C.B.	FT	DEPTH OUT	
		FT.	CUMULATIVE HOURS RUN	7 3 1/4
	KELLY DOWN	41— FT.	COND. OF BIT	Fdg
	TOTAL	8287.76 FT.	REAMER CUTTER NO.	J
WT OF STRING	174 000 LBS.	TYPE		

DRILLER: L McKintosh

HRS. DRLD.	CORE NO.	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT. ON BIT 1000#	PUMP PRESS	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN
2 1/4		8250	8287	37 ft.	35/45	30/45	1500	5 1/2	66			

DEVIATION RECORD:

DEPTH	DEV.	DIRECTION	DEPTH	DEV	DIRECTION	DEPTH	DEV	DIRECTION
8230	7°							

REMARKS

4:00	6:30	Hoist out change Bits
6:30	8:45	Check Rams Run in
8:45	9:15	Break Circ + ream to Btm
9:15	11:30	Drlg
11:30	12:00	Work on motor Fawick

MUD RECORD

	10 PM		
WEIGHT	8.3		
VISC	28		
W.L.-C.C.			
FLTR CK.			
PH			
SD. CONT			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
WATER			

C.P.—38 (10/63) **DAILY DRILLING REPORT** REPORT NO. 69 DATE MAY 22/65

OPERATOR	LOCATION LSD.	SEC.	TWP.	RGE.	WELL NAME	No.	PROVINCE
SHELL CANADA LIMITED					SHELL RICHARDSON	1-6/6	N.W.T

CONTRACTOR: Brent Drlg. — RIG No. 6 — DRILL PIPE STRING NO. SIZE: 2 — 5" — TOOL JOINT OD — TYPE THD. NC H

OPERATOR'S REPRESENTATIVE: W B Campbell — CONTRACTOR'S TOOL PUSHER: L. B. Hansen

PUMPS

NO.	MANUFACTURER	TYPE	STROKE LENGTH
1.	EMSCO	D-70 D	16
2.	EMSCO	D-500	16
3.			

CASING & LINER RECORD

SIZE	WT. & GR.	DEPTH SET FROM	DEPTH SET TO	PERFORATIONS FROM	PERFORATIONS TO	CEMENT USED	OTHER
9 5/8		0	7003'				

TIME DISTRIBUTION—HOURS

	MORN	DAY	EVE
DRILLING ACTUAL	2	7 3/4	7 3/4
REAMING	1/4		
CIRCULATING			
TRIPS	3 1/4		
DEVIATION SURVEY			
TEST B.O.P	1/4		
CUT OFF DRILL LINE	1		
REPAIR RIG			
CORING			
WIRE LINE LOGGING			
OTHER		1/4	1 1/4
FISHING	1 3/4		
COMPLETING (A) PERFORATING			
(B) RUNNING TUBING			
(C) SWABBING			
(D) TESTING			
(E) ACIDIZING			
(F) ADDITIONAL			
TOTALS	8	8	8

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. or TRIPS SINCE LAST CUT

CUMULATIVE TON MI. or TRIPS

NO. OF DAYS FROM SPUD

CUMULATIVE ROTATING HRS.

MORNING TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD	
76	STANDS DP	FT.	RUN NO.	47
2	SNGLS. DP	7133.90 FT.	SIZE	8 3/4
20	D.C. 8" ID 8 1/2 OD	569.19 FT.	MFG.	SEC
			TYPE	HBT
2	RMR BODY OD	12.86 FT.	NOZ. NO.	2/1
	STB BODY OD	FT.	SIZE	11/12
	SUBS OD	FT.	SER. NO	782874
	BIT OR C.B.	FT.	DEPTH OUT	
		FT.	CUMULATIVE HOURS RUN	
	KELLY DOWN	37 FT.	COND. OF BIT	Dull
	TOTAL	7757.99 FT.	REAMER CUTTER NO.	
	WT. OF STRING	165000 LBS.	TYPE	

DRILLER: J. Hibbard

HRS. DRLD.	CORE NO.	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT. ON BIT 1000#	PUMP PRESS.	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN
2		7732	7757		35	23/45	1350	5 1/2	70			

DEVIATION RECORD:

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

REMARKS

12 00	1 30	Pull out
1 30	2 00	Rig service & BOP check
2 00	2 45	Set brakes & Casper collars
2 45	5 15	Run in & pick up 6 singles
5 15	6 00	Break circ & ream to btm
6 00	8 00	Drill

MUD RECORD

TIME	6 AM.
WEIGHT	8.3
VISC	38
W.L.-C.C.	
FLTR. CK.	
PH	
SD. CONT.	

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
WATER			

DAY TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD	
78	STANDS DP	FT.	RUN NO.	47
1	SNGLS. DP	7292.70 FT.	SIZE	8 3/4
20	D.C. 8" ID 8 1/2 OD	569.19 FT.	MFG.	SEC
			TYPE	H85
	RMR BODY 6 3/4 OD	12.86 FT.	NOZ. NO.	3
	STB BODY OD	FT.	SIZE	2-11 1-12
	SUBS OD	FT.	SER. NO.	782874
	BIT OR C.B.	FT.	DEPTH OUT	
		FT.	CUMULATIVE HOURS RUN	9 3/4
	KELLY DOWN	1600 FT.	COND. OF BIT	Used
	TOTAL	7895.75 FT.	REAMER CUTTER NO.	
	WT. OF STRING	165m LBS.	TYPE	

DRILLER: G McIntosh

HRS. DRLD.	CORE NO.	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT. ON BIT 1000#	PUMP PRESS.	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN
7 3/4		7752	7890	133	25/45	35/50	1400	5 1/2	70	5 1/2		.5

DEVIATION RECORD:

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

REMARKS

8 00	8 45	Rig service
8 45	4 00	Drill

MUD RECORD

TIME	10 AM	12 00	2 00
WEIGHT	8.3	8.3	8.3
VISC	28	28	28
W.L.-C.C.			
FLTR. CK.			
PH			
SD. CONT.			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
WATER			

EVENING TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD	
79	STANDS DP	FT.	RUN NO	47
2	SNGLS. DP	7416.98 FT.	SIZE	8 3/4
20	D.C. 8" ID 8 1/2 OD	569.19 FT.	MFG.	SES
			TYPE	H85
	RMR BODY OD	12.86 FT.	NOZ. NO.	3
	STB BODY OD	FT.	SIZE	2-11 1-12
	SUBS OD	FT.	SER NO	782874
	BIT OR C.B.	FT	DEPTH OUT	
		FT.	CUMULATIVE HOURS RUN	17 1/2
	KELLY DOWN	11 FT.	COND. OF BIT	Used
	TOTAL	8010.03 FT.	REAMER CUTTER NO.	
	WT OF STRING	165 LBS.	TYPE	

DRILLER: G McIntosh

HRS. DRLD.	CORE NO.	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT. ON BIT 1000#	PUMP PRESS	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN
7 3/4		7890	8010.		25/45	35/50	1400	5 1/2	70			

DEVIATION RECORD:

DEPTH	DEV.	DIRECTION	DEPTH	DEV	DIRECTION	DEPTH	DEV	DIRECTION

REMARKS

4 00	4 15	Rig service
4 15	12 00	Drill

MUD RECORD

TIME	6 PM	8 PM	10 PM
WEIGHT	8.3	8.3	8.3
VISC	28	28	28
W.L.-C.C.			
FLTR CK.			
PH			
SD. CONT			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
WATER			

C.P.—38 (10/63) **DAILY DRILLING REPORT** REPORT NO. 68 DATE May 21-1964

OPERATOR	LOCATION LSD.	SEC.	TWP.	RGE.	W.	WELL NAME	No.	PROVINCE
SHELL CANADA LIMITED						Shell Bons Corp	1-46	N W T

CONTRACTOR: Regent Drilling Ltd — RIG No. 6

DRILL PIPE STRING NO. SIZE: — TOOL JOINT OD: — TYPE THD.:

OPERATOR'S REPRESENTATIVE: B Crosby — CONTRACTOR'S TOOL PUSHER: L Bernard

PUMPS

NO.	MANUFACTURER	TYPE	STROKE LENGTH
1.	Emsco	D700	16
2.	Emsco	D500	16
3.			

CASING & LINER RECORD

	SIZE	WT. & GR.	DEPTH SET FROM	DEPTH SET TO	PERFORATIONS FROM	PERFORATIONS TO	CEMENT USED	OTHER

TIME DISTRIBUTION—HOURS

	NORM	DAY	EVE
DRILLING ACTUAL	4	7¾	5¾
REAMING			
CIRCULATING			1/2
TRIPS			3/4
DEVIATION SURVEY			1/4
TEST B.O.P			
CUT OFF DRILL LINE			
REPAIR RIG			1/4
CORING			
WIRE LINE LOGGING			
OTHER	4		
FISHING			
COMPLETING (A) PERFORATING			
(B) RUNNING TUBING			
(C) SWABBING			
(D) TESTING			
(E) ACIDIZING			
(F) ADDITIONAL			
TOTALS	0	8	8

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. or TRIPS SINCE LAST CUT

CUMULATIVE TON MI. or TRIPS

NO. OF DAYS FROM SPUD

CUMULATIVE ROTATING HRS.

MORNING TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD	
22	STANDS DP	6704.08 FT.	RUN NO.	46
	SNGLS. DP	FT.	SIZE	8 3/4
	D.C. ID / OD	742.93 FT.	MFG.	Sec
	RMR BODY OD	12.96 FT.	TYPE	H85
	STB BODY OD	FT.	NOZ. NO.	2
	SUBS OD	FT.	NOZ. SIZE	2-11 1-12
	BIT OR C.B.	FT.	SER. NO	78794
		FT.	DEPTH OUT	
	KELLY DOWN	41.00 FT.	CUMULATIVE HOURS RUN	20¼
	TOTAL	7500.81 FT.	COND. OF BIT	
WT. OF STRING	165,000 LBS.		REAMER CUTTER NO.	
DRILLER	L Pacholek		TYPE	

HRS. DRLD.	CORE NO.	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT. ON BIT 1000#	PUMP PRESS.	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN
8		7400	7500	100'	25-35	45	1400	5½	68			

DEVIATION RECORD: DEPTH | DEV. | DIRECTION | DEPTH | DEV. | DIRECTION | DEPTH | DEV. | DIRECTION

REMARKS

Drill 12:00 – 8:00

MUD RECORD

TIME			
WEIGHT	9.2	9.3	8.3
VISC	28	28	28
W.L.-C.C.			
FLTR. CK.			
PH			
SD. CONT.			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

DAY TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD	
73	STANDS DP	FT.	RUN NO.	46
2	SNGLS. DP	0660.5 FT.	SIZE	8 3/4
26	D.C. ID / OD	742.93 FT.	MFG.	Sec
	RMR BODY OD	12.86 FT.	TYPE	H85
	STB BODY OD	FT.	NOZ. NO.	3
	SUBS OD	FT.	NOZ. SIZE	2-11 1-12
	BIT OR C.B.	FT.	SER. NO.	78792
		FT.	DEPTH OUT	
	KELLY DOWN	20.00 FT.	CUMULATIVE HOURS RUN	28
	TOTAL	7636.30 FT.	COND. OF BIT	Rual
WT. OF STRING	170,000 LBS.		REAMER CUTTER NO.	
DRILLER	L Mc Frost		TYPE	

HRS. DRLD.	CORE NO.	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT. ON BIT 1000#	PUMP PRESS.	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN
7¾		7500	7636	136	25/45	40/45	1400	5½	70			

DEVIATION RECORD: DEPTH | DEV. | DIRECTION | DEPTH | DEV. | DIRECTION | DEPTH | DEV. | DIRECTION

REMARKS

8:00 8:15 Rig Service
8:15 4:00 Drill

MUD RECORD

TIME	10:00	12:00	2:00
WEIGHT	8.3	8.3	8.3
VISC	28	28	28
W.L.-C.C.			
FLTR. CK.			
PH			
SD. CONT.			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
H2O			

EVENING TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD	
74	STANDS DP	FT.	RUN NO	46
7	SNGLS. DP	6953.05 FT.	SIZE	8 3/4
26	D.C. ID / OD	742.93 FT.	MFG.	SEC
2	RMR BODY OD	12.86 FT.	TYPE	H85
	STB BODY OD	FT.	NOZ. NO.	3
	SUBS OD	FT.	NOZ. SIZE	2-11 1-12
	BIT OR C.B.	FT.	SER NO	78792
		FT.	DEPTH OUT	7732
	KELLY DOWN	24 — FT.	CUMULATIVE HOURS RUN	33¾
	TOTAL	7732.80 FT.	COND. OF BIT	4-3-2
WT OF STRING	170,000 LBS.		REAMER CUTTER NO.	
DRILLER	L Mc Frost		TYPE	

HRS. DRLD.	CORE NO.	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT. ON BIT 1000#	PUMP PRESS	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN
5¾		7636	7732		35/45	35/40	1400	5½	70	5½		

DEVIATION RECORD: DEPTH | DEV. | DIRECTION | DEPTH | DEV | DIRECTION | DEPTH | DEV | DIRECTION

REMARKS

4:00 4:30 Rig Service
4:15 4:30 Repair Air Lines
4:30 10:00 Drill
10:00 10:45 Circ. Sample
10:45 11:00 Survey
11:15 12:00 Pull Out

MUD RECORD

TIME	6 PM	8 PM	10 PM
WEIGHT	8.3	8.3	8.3
VISC	28	28	28
W.L.-C.C.			
FLTR. CK.			
PH			
SD. CONT			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
WATER			

C.P.—38 (10/63) **DAILY DRILLING REPORT** REPORT NO. 68 DATE May 20 65

OPERATOR	LOCATION LSD. SEC. TWP. RGE. W.	WELL NAME	No.	PROVINCE
SHELL CANADA LIMITED		Shell Hamlet	I - 46	N.W.T.

CONTRACTOR	RIG No.	DRILL PIPE STRING NO. SIZE	TOOL JOINT OD / TYPE THD.
Ryan	6	5"	

OPERATOR'S REPRESENTATIVE: B Cook

CONTRACTOR'S TOOL PUSHER: G Semple

PUMPS

NO.	MANUFACTURER	TYPE	STROKE LENGTH
1.	Emsco	D700	16
2.	Emsco	D500	16
3.			

CASING & LINER RECORD

SIZE	WT. & GR.	DEPTH SET FROM	DEPTH SET TO	PERFORATIONS FROM	PERFORATIONS TO	CEMENT USED	OTHER
13⅜		0	700				
9⅝		0	7000				

TIME DISTRIBUTION—HOURS

	MORN	DAY	EVE
DRILLING ACTUAL	2½	5¼	7
REAMING		1½	
CIRCULATING			
TRIPS	¾	14	
DEVIATION SURVEY	¼		
TEST B.O.P			
CUT OFF DRILL LINE	½		
REPAIR RIG			1½
CORING (Service)	¼		1½
WIRE LINE LOGGING			
OTHER	¼		
FISHING			
COMPLETING (A) PERFORATING			
(B) RUNNING TUBING			
(C) SWABBING			
(D) TESTING			
(E) ACIDIZING			
(F) ADDITIONAL			
TOTALS	8	8	

TIME SUMMARY (OFFICE USE ONLY)

CONTRACTOR'S TIME HRS:

OPERATOR'S TIME:

HRS. W/D.P:

HRS W/O D.P:

HRS STANDBY

WIRE LINE RECORD

REEL NO

NO OF LINES SIZE

FEET SLIPPED

FEET CUT OFF

PRESENT LENGTH

TON MI. or TRIPS SINCE LAST CUT

CUMULATIVE TON MI. or TRIPS

NO. OF DAYS FROM SPUD

CUMULATIVE ROTATING HRS.

MORNING TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD		
69	STANDS DP	FT.	RUN NO.	#5	#3
4	SNGLS. DP	64.17 FT.	SIZE	9 3/4	9 1/2
	D.C. ID		MFG.	See	See
26	D.C. OD	742.93 FT.	TYPE	HWW	H.T.C.
	RMR BODY OD	FT.	NOZ. NO.	3	3
	STB BODY OD	FT.	NOZ. SIZE	2-11 1-12	2-11 1-12
	SUBS OD	FT.	SER. NO	78316	711941
	BIT OR C.B.	12.76 FT.	DEPTH OUT	7204	
		FT.	CUMULATIVE HOURS RUN	14	
	KELLY DOWN	FT.	COND. OF BIT	DULL	
	TOTAL	FT.	REAMER CUTTER NO.		
	WT. OF STRING	LBS.	TYPE		

DRILLER: R Packold

HRS. DRLD.	CORE NO.	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT. ON BIT 1000#	PUMP PRESS.	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN
23¼		7166	7204	38'	80	40	1500	5½	66			

DEVIATION RECORD: DEPTH 7204 DEV. 4° DIRECTION

REMARKS

2¾	Drill	12⁰⁰ - 2⁴⁵
¼	Survey	2⁴⁵ - 3⁰⁰
2½	Pull Out	3⁰⁰ - 5³⁰
¾	Pick Up Square DC's and Reamers	5³⁰ 6⁰⁵
¼	Clean Suction Tank	6⁰⁵ - 6³⁰
¾	Run in DC's	6³⁰ - 7¹⁵
½	Slip Drill Line	7¹⁵ - 7⁴⁵
¼	Service Rig Check BOP	7⁴⁵ - 8⁰⁰

MUD RECORD

TIME				
WEIGHT				
VISC				
W.L.-C.C.				
FLTR. CK.				
PH				
SD. CONT.				

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

DAY TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD	
69	STANDS DP	FT.	RUN NO.	#6
2	SNGLS. DP	65.32 FT.	SIZE	9 3/4
	D.C. ID		MFG.	SEC
26	D.C. OD	742.93 FT.	TYPE	H85
	RMR BODY OD	12.86 FT.	NOZ. NO.	3
	STB BODY OD	FT.	NOZ. SIZE	2-11 1-12
	SUBS OD	FT.	SER. NO.	787912
	BIT OR C.B.	FT.	DEPTH OUT	
		FT.	CUMULATIVE HOURS RUN	5¼
	KELLY DOWN	34.00 FT.	COND. OF BIT	
	TOTAL	7305.11 FT.	REAMER CUTTER NO.	
	WT. OF STRING	164M LBS.	TYPE	

DRILLER: G McIntosh

HRS. DRLD.	CORE NO.	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT. ON BIT 1000#	PUMP PRESS.	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN
5¼		7204	7305	101	25/35	50	1400	5½	70			

DEVIATION RECORD: DEPTH DEV. DIRECTION

REMARKS

8⁰⁰	9¹⁵	Ream
9¹⁵	10⁴⁵	Ream & Gauge Hole
10⁴⁵		Drill

MUD RECORD

TIME				
WEIGHT				
VISC				
W.L.-C.C.				
FLTR. CK.				
PH				
SD. CONT.				

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

EVENING TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD	
71	STANDS DP	6609.54 FT.	RUN NO	4/6
	SNGLS. DP	FT.	SIZE	9 3/4
	D.C. ID		MFG.	See
26	D.C. OD	742.93 FT.	TYPE	H85
	RMR BODY OD	FT.	NOZ. NO.	3
	STB BODY OD	FT.	NOZ. SIZE	2-11 1-12
	SUBS OD	12.86 FT.	SER NO	787912
	BIT OR C.B.	FT	DEPTH OUT	
		FT.	CUMULATIVE HOURS RUN	12¼
	KELLY DOWN	35.00 FT.	COND. OF BIT	
	TOTAL	7400.33 FT.	REAMER CUTTER NO.	
	WT OF STRING	LBS.	TYPE	

DRILLER: G McIntosh

HRS. DRLD.	CORE NO.	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT. ON BIT 1000#	PUMP PRESS	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN
7		7305	7400	95'	25/35	40	1400	5½	70			

DEVIATION RECORD: DEPTH DEV. DIRECTION

REMARKS

½	Rig Service Check Motor Shut offs	4⁰⁰ - 4³⁰
2½	Drill	4³⁰ - 7⁰⁰
1	Install Torque Wheel	6³⁰ - 7³⁰
4½	Drill	7³⁰ - 12⁰⁰

MUD RECORD

TIME				
WEIGHT	8.3			
VISC	28			
W.L.-C.C.				
FLTR. CK.				
PH				
SD. CONT				

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

C.P.—38 (10/63) **DAILY DRILLING REPORT** REPORT NO. 67 DATE MAY 19/65

OPERATOR	LOCATION LSD. SEC. TWP. RGE. W.	WELL NAME	No.	PROVINCE
SHELL CANADA LIMITED		SHELL CLOVER LEAF	1-46	NWT

CONTRACTOR	RIG No.	DRILL PIPE STRING NO. SIZE	TOOL JOINT	OD
Regent	6	2 5"	TYPE THD.	

OPERATOR'S REPRESENTATIVE: W.S. Cunningham

CONTRACTOR'S TOOL PUSHER: Leo Bernardo

PUMPS

NO.	MANUFACTURER	TYPE	STROKE LENGTH
1.			
2.			
3.			

CASING & LINER RECORD	SIZE	WT. & GR.	DEPTH SET FROM	DEPTH SET TO	PERFORATIONS FROM	PERFORATIONS TO	CEMENT USED	OTHER
	13⅜		0	700				
	9⅝		0	7000			535	

TIME DISTRIBUTION—HOURS

	MORN	DAY	EVE
DRILLING ACTUAL	3¼	5½	6½
REAMING			
CIRCULATING			
TRIPS			
DEVIATION SURVEY			
TEST B.O.P			
CUT OFF DRILL LINE			
REPAIR RIG		¾	½
CORING			
WIRE LINE LOGGING			
OTHER Jack Rig	1½	2	1
FISHING			
COMPLETING (A) PERFORATING			
(B) RUNNING TUBING			
(C) SWABBING			
(D) TESTING			
(E) ACIDIZING WOC	3		
(F) ADDITIONAL			
TOTALS	8	8	8

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. or TRIPS SINCE LAST CUT

CUMULATIVE TON MI. or TRIPS

NO. OF DAYS FROM SPUD

CUMULATIVE ROTATING HRS.

MORNING TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD	
61	STANDS DP	FT.	RUN NO.	45
2	SNGLS. DP	62.98 23 FT.	SIZE	8 3/4
	ID		MFG.	See.
24	D.C. 6½ OD	683.31 FT.	TYPE	124M
	RMR BODY OD	FT.	NOZ. NO.	2-11
	STB BODY OD	FT.	SIZE	1-12
1	SUBS OD	1.84 FT.	SER. NO	725164
	BIT OR C.B.	FT.	DEPTH OUT	
		FT.	CUMULATIVE HOURS RUN	3 3/4
	KELLY DOWN	21.00 FT.	COND. OF BIT	
	TOTAL	700438 FT.	REAMER CUTTER NO.	
	WT. OF STRING	120M LBS.	TYPE	

DRILLER: L. McIntosh

HRS. DRLD.	CORE NO.	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT. ON BIT 1000#	PUMP PRESS.	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN
		Took	—									

DEVIATION RECORD:

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

REMARKS

1200 1300 Run in

1300 3000 Pressure Test Hydril and pipe Rams 2000# held OK

3000 6⁴⁵ Drill out to top of shoe

6⁴⁵ 8⁰⁰ Jack Rig

MUD RECORD

TIME				
WEIGHT				
VISC				
W.L.-C.C.				
FLTR. CK.				
PH				
SD. CONT.				

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

DAY TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD	
68	STANDS DP	FT.	RUN NO.	45
1	SNGLS. DP	63.60.18 FT.	SIZE	8 3/4
	ID		MFG.	2-11 1-12
24	D.C. OD	683.31 FT.	TYPE	MWD
	RMR BODY OD	FT.	NOZ. NO.	3
	STB BODY OD	FT.	SIZE	2-11 1-12
1	SUBS BIT OD	1.83 FT.	SER. NO.	725164
	BIT OR C.B.	FT.	DEPTH OUT	
		FT.	CUMULATIVE HOURS RUN	9
	KELLY DOWN	30.00 FT.	COND. OF BIT	
	TOTAL	7075 27 FT.	REAMER CUTTER NO.	
	WT. OF STRING	160M LBS.	TYPE	

DRILLER: R. Pachalk

HRS. DRLD.	CORE NO.	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT. ON BIT 1000#	PUMP PRESS.	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN
5¼		7004	7075	71 ft.	80	40	1500	5½	66	5½	66	

DEVIATION RECORD:

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

REMARKS

2 Jack Rig 8⁰⁰-16⁰⁰

½ Drill Dit Cog Shoe 10⁰⁰-10³⁰

1½ Drill 10³⁰-12⁰⁰

¼ Work on DW Sub. Pump 12⁰⁰-12¹⁵

2 Drill 12¹⁵ 2¹⁵

½ Sr Swivel, turn kelly one Safety Chain 2¹⁵-2⁴⁵

1¼ Drill 2⁴⁵ 4⁰⁰

MUD RECORD

TIME		12-00	2.00	
WEIGHT		8.3	8.3	
VISC		28	28	
W.L.-C.C.				
FLTR. CK.				
PH				
SD. CONT.				

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

EVENING TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD	
69	STANDS DP	FT.	RUN NO	45
1	SNGLS. DP	64.12 17 FT.	SIZE	8 3/4
	ID		MFG.	SEC
24	D.C 6½ OD	683.31 FT.	TYPE	MWD
	RMR BODY OD	FT.	NOZ. NO.	3
	STB BODY OD	FT.	SIZE	2-11 1-12
1	SUBS OD	1.84 FT.	SER NO	725164
	BIT OR C.B.	FT	DEPTH OUT	
	—	FT.	CUMULATIVE HOURS RUN	11½
	KELLY DOWN	29.— FT.	COND. OF BIT	RUN
	TOTAL	7160.31 FT.	REAMER CUTTER NO.	
	WT OF STRING	160M LBS.	TYPE	

DRILLER: L. McIntosh

HRS. DRLD.	CORE NO.	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT. ON BIT 1000#	PUMP PRESS	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN
6½		7075	7166	91 ft.	80	40M	1800	5½	62	5½	62	

DEVIATION RECORD:

DEPTH	DEV.	DIRECTION	DEPTH	DEV	DIRECTION	DEPTH	DEV	DIRECTION
							—	

REMARKS

4⁰⁰ 4³⁰ DRILL

4³⁰ 5³⁰ JACK RIG

5³⁰ 6¹⁵ DRILL

6¹⁵ 6⁴⁵ RIG SERVICE CLEAN SETTLING TANK

6⁴⁵ 12⁰⁰ DRILL

MUD RECORD

TIME				
WEIGHT				
VISC				
W.L.-C.C.				
FLTR. CK.				
PH				
SD. CONT				

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

C.P.—38 (10/63) **DAILY DRILLING REPORT** REPORT NO. 65 DATE Aug 18

OPERATOR: SHELL CANADA LIMITED | LOCATION LSD. SEC. TWP. RGE. W. | WELL NAME: Shell Clarke Lake | No. 1-46 | PROVINCE: NWT

CONTRACTOR: Regent | RIG No. 6 | DRILL PIPE STRING NO. SIZE | TOOL JOINT OD | TYPE THD.

OPERATOR'S REPRESENTATIVE: [illegible] | CONTRACTOR'S TOOL PUSHER: [illegible]

PUMPS

NO.	MANUFACTURER	TYPE	STROKE LENGTH
1.			
2.			
3.			

CASING & LINER RECORD

SIZE	WT. & GR.	DEPTH SET FROM	DEPTH SET TO	PERFORATIONS FROM	PERFORATIONS TO	CEMENT USED	OTHER

TIME DISTRIBUTION—HOURS

	MORN	DAY	EVE
DRILLING ACTUAL			
REAMING			
CIRCULATING			
TRIPS			
DEVIATION SURVEY			
TEST B.O.P			
CUT OFF DRILL LINE			
REPAIR RIG			
CORING			
WIRE LINE LOGGING			
OTHER			
FISHING			
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

WIRE LINE RECORD

REEL NO

NO OF LINES SIZE

FEET SLIPPED

FEET CUT OFF

PRESENT LENGTH

TON MI. or TRIPS SINCE LAST CUT

CUMULATIVE TON MI. or TRIPS

NO. OF DAYS FROM SPUD

CUMULATIVE ROTATING HRS.

MORNING TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD	
	STANDS DP	FT.	RUN NO.	
	SNGLS. DP	FT.	SIZE	
	D.C. ID / OD	FT.	MFG.	
	RMR BODY OD	FT.	TYPE	
	STB BODY OD	FT.	NOZ. NO. / 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: L McIntosh

HRS. DRLD.	CORE NO.	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT. ON BIT 1000#	PUMP PRESS.	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN

DEVIATION RECORD:	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

REMARKS

1200 1230 CIRC
1230 300 CEMENT AND Pump Plug
300 500 WORK ON CELLAR CLEAN MUD TANKS
9 5/8" 36# J-55 & 40# N-80 csg
Cemented @ 7005 with 535 sx
Neat Cement + 0.2% HR4. Plug down
3 AM Aug 18 1/4 lbs/sx @ 2000 psi. Float held OK.

MUD RECORD

TIME				
WEIGHT				
VISC				
W.L.-C.C.				
FLTR. CK.				
PH				
SD. CONT.				

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

DAY TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD	
	STANDS DP	FT.	RUN NO.	
	SNGLS. DP	FT.	SIZE	
	D.C. ID / OD	FT.	MFG.	
	RMR BODY OD	FT.	TYPE	
	STB BODY OD	FT.	NOZ. NO / 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: A Pocholk

HRS. DRLD.	CORE NO.	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT. ON BIT 1000#	PUMP PRESS.	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN

DEVIATION RECORD:	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

REMARKS

W.O.C. 8:00 - 4:00

MUD RECORD

TIME				
WEIGHT				
VISC				
W.L.-C.C.				
FLTR. CK.				
PH				
SD. CONT.				

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

EVENING TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD	
	STANDS DP	FT.	RUN NO	
	SNGLS. DP	FT.	SIZE	
	D.C. ID / OD	FT.	MFG.	
	RMR BODY OD	FT.	TYPE	
	STB BODY OD	FT.	NOZ. NO. / 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: L McIntosh

HRS. DRLD.	CORE NO.	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT. ON BIT 1000#	PUMP PRESS	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN

DEVIATION RECORD:	DEPTH	DEV.	DIRECTION	DEPTH	DEV	DIRECTION	DEPTH	DEV	DIRECTION

REMARKS

400 1100 WOC
1100 1200 Run in

MUD RECORD

TIME				
WEIGHT				
VISC				
W.L.-C.C.				
FLTR CK.				
PH				
SD. CONT				

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

CP-38 (10/63) **DAILY DRILLING REPORT** REPORT NO. 64 DATE MAY 17

| | | |

C.P.—38 (10/63) **DAILY DRILLING REPORT** REPORT NO. 63 DATE May 6-64

OPERATOR	LOCATION LSD. SEC. TWP. RGE. W.	WELL NAME	No.	PROVINCE
SHELL CANADA LIMITED		Dowling	1-46	N W T

CONTRACTOR	RIG No.	DRILL PIPE STRING NO. SIZE	TOOL JOINT OD / TYPE THD.
Regent Ltd.			

OPERATOR'S REPRESENTATIVE: W B Cunningham

CONTRACTOR'S TOOL PUSHER: L. Burnside

PUMPS

NO.	MANUFACTURER	TYPE	STROKE LENGTH
1.			
2.			
3.			

CASING & LINER RECORD

SIZE	WT. & GR.	DEPTH SET FROM	DEPTH SET TO	PERFORATIONS FROM	PERFORATIONS TO	CEMENT USED	OTHER

TIME DISTRIBUTION—HOURS

	MORN	DAY	EVE
DRILLING ACTUAL			
REAMING			
CIRCULATING			
TRIPS			
DEVIATION SURVEY			
TEST B.O.P			
CUT OFF DRILL LINE			
REPAIR RIG			
CORING			
WIRE LINE LOGGING			
OTHER Log	8	4	
FISHING			
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

WIRE LINE RECORD

REEL NO

NO OF LINES SIZE

FEET SLIPPED

FEET CUT OFF

PRESENT LENGTH

TON MI. or TRIPS SINCE LAST CUT

CUMULATIVE TON MI. or TRIPS

NO. OF DAYS FROM SPUD

CUMULATIVE ROTATING HRS.

MORNING TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD	
	STANDS DP	FT.	RUN NO.	
	SNGLS. DP	FT.	SIZE	
	D.C. ID / OD	FT.	MFG.	
			TYPE	
	RMR BODY OD	FT.	NOZ. NO.	
	STB BODY OD	FT.	NOZ. 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)	ROTARY R.P.M.	WT. ON BIT 1000#	PUMP PRESS.	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN

DEVIATION RECORD:	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

REMARKS

8 Log

MUD RECORD

TIME				
WEIGHT				
VISC				
W.L.-C.C.				
FLTR. CK.				
PH				
SD. CONT.				

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

DAY TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD	
	STANDS DP	FT.	RUN NO.	
	SNGLS. DP	FT.	SIZE	
	D.C. ID / OD	FT.	MFG.	
			TYPE	
	RMR BODY OD	FT.	NOZ. NO	
	STB BODY OD	FT.	NOZ. 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 R. Pachalek

HRS. DRLD.	CORE NO.	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT. ON BIT 1000#	PUMP PRESS.	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN

DEVIATION RECORD:	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

REMARKS

4 Logging W/Schlumberger 8⁰⁰-4⁰⁰

MUD RECORD

TIME				
WEIGHT				
VISC				
W.L.-C.C.				
FLTR. CK.				
PH				
SD. CONT.				

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

EVENING TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD	
	STANDS DP	FT.	RUN NO	
	SNGLS. DP	FT.	SIZE	
	D.C ID / OD	FT.	MFG.	
			TYPE	
	RMR BODY OD	FT.	NOZ. NO.	
	STB BODY OD	FT.	NOZ. 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 L McIntosh

HRS. DRLD.	CORE NO.	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT. ON BIT 1000#	PUMP PRESS	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN

DEVIATION RECORD:	DEPTH	DEV.	DIRECTION	DEPTH	DEV	DIRECTION	DEPTH	DEV	DIRECTION

REMARKS

4ᵐᵒ

400-700 Log

700 915 RUN IN

915 945 CLEAN 20FT TO BOTTOM

MUD RECORD

TIME				
WEIGHT				
VISC				
W.L.-C.C.				
FLTR CK.				
PH				
SD. CONT				

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

C.P.—38 (10/63) **DAILY DRILLING REPORT** REPORT NO. 63 DATE May 15 65

OPERATOR	LOCATION LSD. SEC. TWP. RGE. W.	WELL NAME	No.	PROVINCE
SHELL CANADA LIMITED		Bell Cloverdale	1-46	N.W.T.

CONTRACTOR	RIG No.	DRILL PIPE STRING NO. SIZE	TOOL JOINT OD / TYPE THD.
Regent Drilling	6	2 5"	V.M.

OPERATOR'S REPRESENTATIVE	CONTRACTOR'S TOOL PUSHER
K. Cook	M. Burnside

PUMPS

NO.	MANUFACTURER	TYPE	STROKE LENGTH
1.	Emsco	D700	16"
2.	Emsco	D500	16"
3.			

CASING & LINER RECORD

SIZE	WT. & GR.	DEPTH SET FROM	DEPTH SET TO	PERFORATIONS FROM	PERFORATIONS TO	CEMENT USED	OTHER

TIME DISTRIBUTION—HOURS

	MORN	DAY	EVE
DRILLING ACTUAL		23¼	
REAMING			7¾
CIRCULATING		2	
TRIPS			
DEVIATION SURVEY			¼
TEST B.O.P			
CUT OFF DRILL LINE			
REPAIR RIG			
CORING			
WIRE LINE LOGGING			4
OTHER Co mud	8	2¾	
FISHING			
COMPLETING (A) PERFORATING			
(B) RUNNING TUBING			
(C) SWABBING			
(D) TESTING			
(E) ACIDIZING			
(F) ADDITIONAL			
TOTALS	8	9	7

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. or TRIPS SINCE LAST CUT

CUMULATIVE TON MI. or TRIPS

NO. OF DAYS FROM SPUD

CUMULATIVE ROTATING HRS.

MORNING TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD	
66	STANDS DP	FT.	RUN NO.	4A
1	SNGLS. DP	616.49 FT.	SIZE	12¼
27	D.C. ID / OD	771.96 FT.	MFG.	Sec
			TYPE	M44
	RMR BODY OD	FT.	NOZ. NO.	3
	STB BODY OD	FT.	NOZ. SIZE	3/4
	SUBS OD	7.13 FT.	SER. NO	790403
	BIT OR C.B.	FT.	DEPTH OUT	7004
	Jars	5.80 FT.	CUMULATIVE HOURS RUN	18¼
	KELLY DOWN	40 FT.	COND. OF BIT	
	TOTAL	6[illegible] FT.	REAMER CUTTER NO.	
WT. OF STRING	6[illegible] LBS.		TYPE	
DRILLER	L. Willoughby			

HRS. DRLD.	CORE NO.	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT. ON BIT 1000#	PUMP PRESS.	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN

DEVIATION RECORD:

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

REMARKS

Circ condition mud. 12"

MUD RECORD

TIME	4	6
WEIGHT	10.0	10.8
VISC	75	75
W.L.-C.C.		
FLTR. CK.		2/32
PH		12.0
SD. CONT.		

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
water			
Caustic	140	Lig	
Pelter	5000	Lb.	

DAY TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD	
66	STANDS DP	FT.	RUN NO.	4A
2	SNGLS. DP	6201.16 FT.	SIZE	12¼
27	D.C. ID / OD	771.96 FT.	MFG.	Sec
			TYPE	M44
	RMR BODY OD	FT.	NOZ. NO	3
	STB BODY OD	FT.	NOZ. SIZE	3/4
	SUBS OD	7.13 FT.	SER. NO.	790403
	BIT OR C.B.	FT.	DEPTH OUT	7004
		5.80 FT.	CUMULATIVE HOURS RUN	22¼
	KELLY DOWN	14.00 FT.	COND. OF BIT	
	TOTAL	7000.05 FT.	REAMER CUTTER NO.	
WT. OF STRING	120,000 LBS.		TYPE	
DRILLER	R. Pocholik			

HRS. DRLD.	CORE NO.	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT. ON BIT 1000#	PUMP PRESS.	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN
3¾		6988	7004		55	65	1400	5½	52	5½	54	

DEVIATION RECORD:

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

REMARKS

2¼	Run In	Condition Mud	9[illegible] - 10[illegible]
2¾	Drill		10[illegible] - 7[illegible]
	Circulate T. Log		7[illegible] - 4[illegible]

MUD RECORD

TIME	8	12	2
WEIGHT	10.	10.	10.
VISC	78	78	78
W.L.-C.C.	7.0	7.0	7.0
FLTR. CK.	2/32		
PH	11.5	11.5	11.5
SD. CONT.			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
Pelter	900		
Caustic	200		

EVENING TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD	
	STANDS DP	FT.	RUN NO	
	SNGLS. DP	FT.	SIZE	
	D.C. ID / OD	FT.	MFG.	
			TYPE	
	RMR BODY OD	FT.	NOZ. NO.	
	STB BODY OD	FT.	NOZ. 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)	ROTARY R.P.M.	WT. ON BIT 1000#	PUMP PRESS	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN
		7004										

DEVIATION RECORD:

DEPTH	DEV.	DIRECTION	DEPTH	DEV	DIRECTION	DEPTH	DEV	DIRECTION

REMARKS

¼	Logs		4[illegible] - 4[illegible]
	Pull to log	Ran Schlumberger logs.	4[illegible] 7[illegible]
	Log-g	IES 7004-717	9 12
	Board 7000	IML 7004-717	
	Tally 7004-15	SGR 7004-717	
	4.15 connection made		
	[illegible]		

MUD RECORD

TIME			
WEIGHT			
VISC			
W.L.-C.C.			
FLTR. CK.			
PH			
SD. CONT			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

C.-.-38 (10/63) **DAILY DRILLING REPORT** REPORT NO. 62 DATE May. 14

OPERATOR	LOCATION LSD.	SEC.	TWP.	RGE.	W.	WELL NAME	No.	PROVINCE
SHELL CANADA LIMITED						Shell Cloverleaf	1-46	N.W.T.

CONTRACTOR: Regent Drilling — RIG No. 6

DRILL PIPE STRING NO. SIZE: 2 — 5" — TOOL JOINT OD — TYPE THD XH.

OPERATOR'S REPRESENTATIVE: [illegible]

CONTRACTOR'S TOOL PUSHER: [illegible]

PUMPS

NO.	MANUFACTURER	TYPE	STROKE LENGTH
1.	Emsco	D700	10"
2.	Emsco	D500	10"
3.			

CASING & LINER RECORD

SIZE	WT. & GR.	DEPTH SET FROM	DEPTH SET TO	PERFORATIONS FROM	PERFORATIONS TO	CEMENT USED	OTHER

TIME DISTRIBUTION — HOURS

	MORN	DAY	EVE
DRILLING ACTUAL	4½	6	13½
REAMING	1/2		
CIRCULATING			
TRIPS	2¾	13¼	
DEVIATION SURVEY			
TEST B.O.P	1/2		
CUT OFF DRILL LINE			
REPAIR RIG			
CORING			
WIRE LINE LOGGING			
OTHER			
FISHING			
COMPLETING (A) PERFORATING			
(B) RUNNING TUBING			
(C) SWABBING			
(D) TESTING			
(E) ACIDIZING			
(F) ADDITIONAL			
TOTALS	8	8	8

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.

MORNING TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD	
65	STANDS DP	FT.	RUN NO.	4A
2	SNGLS. DP	610.30 FT.	SIZE	12¼
	D.C. ID		MFG.	Sec
27	D.C. OD	771.96 FT.	TYPE	M4L
	RMR BODY OD	FT.	NOZ. NO.	3
	STB BODY OD	FT.	NOZ. SIZE	3/4
	SUBS OD	7.13 FT.	SER. NO	790403
	BIT OR C.B.	FT.	DEPTH OUT	
	Jars	5.80 FT.	CUMULATIVE HOURS RUN	41¼
	KELLY DOWN	17.00 FT.	COND. OF BIT	
	TOTAL	6904.19	REAMER CUTTER NO.	
WT. OF STRING	170 M LBS.		TYPE	

DRILLER: P. Willoughby

HRS. DRLD.	CORE NO.	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT. ON BIT 1000#	PUMP PRESS.	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN
4½		6879	6904		70	65	1400	5½	52	5½	54	

DEVIATION RECORD:

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION
6875	1¾							

REMARKS

½	Pull out 12" - 12³⁰
4	Close blind rams & change bits 12³⁰ - 12⁴⁵
¾	Run in DC's 12⁴⁵ - 1³⁰
¼	Slip & cut drlg line, service rig 1³⁰ - 1⁴⁵
1½	Run in 1⁴⁵ - 3¹⁵
½	Clean 15' to Btm 3¹⁵ - 3⁴⁵
4½	Drill 3⁴⁵ - 8⁰⁰

MUD RECORD

	4	6
TIME		
WEIGHT	10.0	10.1
VISC	100	105
W.L.-C.C.		
FLTR. CK.		
PH		
SD. CONT.		

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
Water			
Caltex	150	Salt	
Caustic	100	lbs	

DAY TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD	
66	STANDS DP	621.86 FT.	RUN NO.	4A
	SNGLS. DP	FT.	SIZE	12¼
	D.C. ID		MFG.	Sec
27	D.C. OD	771.96 FT.	TYPE	M4L
	RMR BODY OD	FT.	NOZ. NO	3
	STB BODY OD	FT.	NOZ. SIZE	3/4
	SUBS OD	7.13 FT.	SER. NO.	790403
	BIT OR C.B.	FT.	DEPTH OUT	
		5.80 FT.	CUMULATIVE HOURS RUN	12¼
	KELLY DOWN	FT.	COND. OF BIT	
	TOTAL	3500 FT.	REAMER CUTTER NO.	
WT. OF STRING		LBS.	TYPE	

DRILLER: [illegible]

HRS. DRLD.	CORE NO.	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT. ON BIT 1000#	PUMP PRESS.	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN
8		6908	6957		70	65	1400	5½	52	5½	54	

DEVIATION RECORD:

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

REMARKS

8	Drill 8⁰⁰ 4⁰⁰

MUD RECORD

	10	12	2
TIME			
WEIGHT	10.1	10.1	10.1
VISC	92	92	93
W.L.-C.C.		5.2	
FLTR. CK.		3/32	
PH		11.0	
SD. CONT.			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
Gel	105 sks.		
Caustic	100 #		
Caltex	150 #		

EVENING TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD	
66	STANDS DP	FT.	RUN NO	4A
1	SNGLS. DP	6169.84 FT.	SIZE	12¼
	D.C ID		MFG.	Sec
27	D.C OD	771.96 FT.	TYPE	M4L
	RMR BODY OD	FT.	NOZ. NO.	3
	STB BODY OD	FT.	NOZ. SIZE	3/4
	SUBS OD	7.13 FT.	SER NO	790403
	BIT OR C.B.	FT	DEPTH OUT	
	Jars	5.80 FT.	CUMULATIVE HOURS RUN	18½
	KELLY DOWN	34.00 FT.	COND. OF BIT	
	TOTAL	6948.30 FT.	REAMER CUTTER NO.	
WT OF STRING	170 M	LBS.	TYPE	

DRILLER

HRS. DRLD.	CORE NO.	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT. ON BIT 1000#	PUMP PRESS	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN
6½		6957	6988		70	65	1400	5½	52	5½	54	

DEVIATION RECORD:

DEPTH	DEV.	DIRECTION	DEPTH	DEV	DIRECTION	DEPTH	DEV	DIRECTION

REMARKS

6½	Drill 4⁰⁰ - 10¹⁵
13¼	Pull 25 stds. 10¹⁵ - 12⁰⁰

MUD RECORD

	4	6	4
TIME			
WEIGHT	10.1	10.1	10.1
VISC	103	105	110
W.L.-C.C.	5.2		
FLTR. CK.	2/32		
PH	11.0		
SD. CONT			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
Gel	25 sack		
Caustic	100	lbs	
Caltex	300	lbs	

C.P.—38 (10/63) **DAILY DRILLING REPORT** REPORT NO. 61 DATE May 13/65

OPERATOR: SHELL CANADA LIMITED | LOCATION LSD. SEC. TWP. RGE. W. | WELL NAME: Shell Cloverleaf No. 1-46 | PROVINCE: N.W.T.

CONTRACTOR: Regent Drilling | RIG No. 6 | DRILL PIPE STRING NO. SIZE: 5" | TOOL JOINT OD | TYPE THD. V.H.

OPERATOR'S REPRESENTATIVE: B.E. Trenga | CONTRACTOR'S TOOL PUSHER: W. Bennick

PUMPS

NO.	MANUFACTURER	TYPE	STROKE LENGTH
1.	Emsco	D700	16"
2.	Emsco	D500	16"
3.			

CASING & LINER RECORD

SIZE	WT. & GR.	DEPTH SET FROM	DEPTH SET TO	PERFORATIONS FROM	PERFORATIONS TO	CEMENT USED	OTHER

TIME DISTRIBUTION—HOURS

	MORN	DAY	EVE
DRILLING ACTUAL	6½	7¾	6
REAMING	3/4		
CIRCULATING			
TRIPS	1		1¾
DEVIATION SURVEY			1/4
TEST B.O.P			
CUT OFF DRILL LINE			
REPAIR RIG			
CORING			
WIRE LINE LOGGING			
OTHER SER. RIG			1/4
FISHING			
COMPLETING (A) PERFORATING			
(B) RUNNING TUBING			
(C) SWABBING			
(D) TESTING			
(E) ACIDIZING			
(F) ADDITIONAL			
TOTALS	12	12	

TIME SUMMARY (OFFICE USE ONLY)

CONTRACTOR'S TIME HRS:

OPERATOR'S TIME:

HRS. W/D.P: 24 hrs.

HRS WO/D.P:

HRS STANDBY

WIRE LINE RECORD

REEL NO

NO OF LINES SIZE

FEET SLIPPED

FEET CUT OFF

PRESENT LENGTH

TON MI. or TRIPS SINCE LAST CUT

CUMULATIVE TON MI. or TRIPS

NO. OF DAYS FROM SPUD

CUMULATIVE ROTATING HRS.

MORNING TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD	
64	STANDS DP	FT.	RUN NO.	#3
1	SNGLS. DP	5943.3 FT.	SIZE	12¼
27	D.C. ID / OD	771.96 FT.	MFG.	See
			TYPE	M4N
	RMR BODY OD	FT.	NOZ. NO.	3
	STB BODY OD	FT.	NOZ. SIZE	3/4
	SUBS OD	7.13 FT.	SER. NO	788538
	BIT OR C.B.	FT.	DEPTH OUT	
	Jars.	5.8 FT.	CUMULATIVE HOURS RUN	61
	KELLY DOWN	36 FT.	COND. OF BIT	
	TOTAL	6804.2 FT.	REAMER CUTTER NO.	
WT. OF STRING	170 M LBS.		TYPE	

DRILLER: P. Willoughby

HRS. DRLD.	CORE NO.	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT. ON BIT 1000#	PUMP PRESS.	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN
6¼		6758	6804		70	65	1200	5½	53	5½	54	

DEVIATION RECORD:	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

REMARKS

1 Run in 12" - 1m

3/4 Clean 2 jts to btm 1m - 14m

6¼ Drill 14m - 8m

MUD RECORD

TIME	2	4	6
WEIGHT	9.9	9.4	9.8
VISC	105	95	90
W.L.-C.C.			5.8
FLTR. CK.			2/32
PH			10.5
SD. CONT.			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
Water			
Bellten	150 lb.		
Caustic	100 lbs.		

DAY TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD	
65	STANDS DP	6044.32 FT.	RUN NO.	#3
	SNGLS. DP	FT.	SIZE	12¼
	D.C. ID / OD	771.96 FT.	MFG.	See
			TYPE	M4N
	RMR BODY OD	FT.	NOZ. NO	3
	STB BODY OD	7.13 FT.	NOZ. SIZE	3/4
	SUBS OD	FT.	SER. NO.	788538
	BIT OR C.B.	FT.	DEPTH OUT	
	Jars.	5.80 FT.	CUMULATIVE HOURS RUN	14
	KELLY DOWN	21.00 FT.	COND. OF BIT	
	TOTAL	6850.22 FT.	REAMER CUTTER NO.	
WT. OF STRING	170 000 LBS.		TYPE	

DRILLER: P. Pacholek

HRS. DRLD.	CORE NO.	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT. ON BIT 1000#	PUMP PRESS.	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN
7¾		6804	6850		70	65	1400	5½	52	5½	54	

DEVIATION RECORD:	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION
	6740	1½°							

REMARKS

1/2 Drill 8m - 9m30

1/4 Ser Rig 9m30 - 9m45

7¼ Drill 9m45 - 4m

MUD RECORD

TIME	10	12	2
WEIGHT	10.0	10.0	10.0
VISC	85	90	90
W.L.-C.C.		5.8	
FLTR. CK.		2/32	
PH		10.5	
SD. CONT.			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
Bellten	150 lb.		
Caustic	100 lbs.		
Gel	10 sx		

EVENING TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD	
65	STANDS DP	FT.	RUN NO	#3
1	SNGLS. DP	6074.77 FT.	SIZE	12¼
27	D.C. ID / OD	771.96 FT.	MFG.	See
			TYPE	M4N
	RMR BODY OD	FT.	NOZ. NO.	3
	STB BODY OD	FT.	NOZ. SIZE	3/4
	SUBS OD	7.13 FT.	SER NO	788538
	BIT OR C.B.	FT	DEPTH OUT	6879
	Jars.	5.80 FT.	CUMULATIVE HOURS RUN	20
	KELLY DOWN	FT.	COND. OF BIT	
	TOTAL	FT.	REAMER CUTTER NO.	
WT OF STRING	170 000 LBS.		TYPE	

DRILLER

HRS. DRLD.	CORE NO.	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT. ON BIT 1000#	PUMP PRESS	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN
6		6850	6879		70	65	1400	5½	52	5½	54	

DEVIATION RECORD:	DEPTH	DEV.	DIRECTION	DEPTH	DEV	DIRECTION	DEPTH	DEV	DIRECTION
	6875	1¾°							

REMARKS

6 Drill 4m - 10m

1/4 Survey. 10m - 10m15

1¾ Pull out 10m15 - 12m

MUD RECORD

TIME	4	6	8
WEIGHT	10.0	10.0	10.0
VISC	90	90	95
W.L.-C.C.			
FLTR CK.			
PH			
SD. CONT			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
water			
Bellten	150 lbs.		

C.P.—38 (10/63) **DAILY DRILLING REPORT** REPORT NO. 60 DATE May 12

OPERATOR: SHELL CANADA LIMITED | LOCATION LSD. SEC. TWP. RGE. W. | WELL NAME: Shell Clearwater No. 1-46 | PROVINCE: N.W.T.

CONTRACTOR: Regan Drilling | RIG No. 6 | DRILL PIPE STRING NO. SIZE 2 5" | TOOL JOINT OD TYPE THD. X.H.

OPERATOR'S REPRESENTATIVE: K. Letting | CONTRACTOR'S TOOL PUSHER

PUMPS

NO.	MANUFACTURER	TYPE	STROKE LENGTH
1.	Emsco	D700	16"
2.	Emsco	D500	16"
3.			

CASING & LINER RECORD

SIZE	WT. & GR.	DEPTH SET FROM	DEPTH SET TO	PERFORATIONS FROM	PERFORATIONS TO	CEMENT USED	OTHER

TIME DISTRIBUTION—HOURS

	MORN	DAY	EVE
DRILLING ACTUAL	5 1/4	8	2 3/4
REAMING	3/4		
CIRCULATING			
TRIPS	2		3 1/2
DEVIATION SURVEY			1/2
TEST B.O.P			1/2
CUT OFF DRILL LINE			1
REPAIR RIG			
CORING			
WIRE LINE LOGGING			
OTHER			
FISHING			
COMPLETING (A) PERFORATING			
(B) RUNNING TUBING			
(C) SWABBING			
(D) TESTING			
(E) ACIDIZING			
(F) ADDITIONAL			
TOTALS	8	8	8

TIME SUMMARY (OFFICE USE ONLY)

CONTRACTOR'S TIME HRS:

OPERATOR'S TIME:

HRS. W/D.P: 24 hrs

HRS WO/D.P:

HRS STANDBY

WIRE LINE RECORD

REEL NO

NO OF LINES SIZE

FEET SLIPPED

FEET CUT OFF

PRESENT LENGTH

TON MI. or TRIPS SINCE LAST CUT

CUMULATIVE TON MI. or TRIPS

NO. OF DAYS FROM SPUD

CUMULATIVE ROTATING HRS.

MORNING TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD	
6	STANDS DP	FT.	RUN NO.	42
1	SNGLS. DP	5890.15 FT.	SIZE	12 1/4
	D.C. ID		MFG.	See
27	D.C. OD	771.96 FT.	TYPE	M44M
	RMR BODY OD	FT.	NOZ. NO.	3
	STB BODY OD	FT.	NOZ. SIZE	3/4
	SUBS OD	7.1 FT.	SER. NO	788506
	BIT OR C.B.	FT.	DEPTH OUT	
	Jars.	6.70 FT.	CUMULATIVE HOURS RUN	5 1/4
	KELLY DOWN	FT.	COND. OF BIT	
	TOTAL	FT.	REAMER CUTTER NO.	
WT. OF STRING	170,000 LBS.		TYPE	

DRILLER: L. Willoughby

HRS. DRLD.	CORE NO.	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT. ON BIT 1000#	PUMP PRESS.	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN
		6648			70	65	1250	5 1/2	50	5 1/2	51	

DEVIATION RECORD:	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

REMARKS

2	Run in reaming tight hole 12:00 - 2:00
3/4	Clean 25' & Btm 2:00 - 2:45
5 1/4	Drill 2:45 - 8:00

MUD RECORD

	4	6	
TIME			
WEIGHT	10.1	10.1	
VISC	100	90	
W.L.-C.C.		50	5.2
FLTR. CK.		2/32	
PH		10.5	
SD. CONT.			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
Water			
Gel	14 sx		
Pellets	150 lb		
Caustic	100 lb		

DAY TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD	
63	STANDS DP	FT.	RUN NO.	42
2	SNGLS. DP	5921.65 FT.	SIZE	12 1/4
	D.C. ID		MFG.	See
	D.C. OD	771.96 FT.	TYPE	M44M
	RMR BODY OD	FT.	NOZ. NO.	3
	STB BODY OD	FT.	NOZ. SIZE	3/4
	SUBS OD	7.13 FT.	SER. NO.	788506
	BIT OR C.B.	FT.	DEPTH OUT	
	Jars.	15.80 FT.	CUMULATIVE HOURS RUN	13 1/4
	KELLY DOWN	FT.	COND. OF BIT	
	TOTAL	34.00 FT.	REAMER CUTTER NO.	
WT. OF STRING	174,000 LBS.		TYPE	

DRILLER: L. Pacholek

HRS. DRLD.	CORE NO.	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT. ON BIT 1000#	PUMP PRESS.	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN
8		6687	6700		70	65	1400	5 1/2	52	5 1/2	54	

DEVIATION RECORD:	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION
	6600	2°	B.						

REMARKS

8	Drill 8:00 - 4:00

MUD RECORD

	10	12	2
TIME			
WEIGHT	10.1	10.1	10.1
VISC	76	76	76
W.L.-C.C.	5.2		
FLTR. CK.	2/32		
PH	10.5		
SD. CONT.			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
Gel	20 sk.		
Pellets	150 lb		
Caustic	100 lb		

EVENING TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD	
65	STANDS DP	5952.45 FT.	RUN NO	42
	SNGLS. DP	FT.	SIZE	12 1/4
	D.C. ID		MFG.	See
27	D.C. OD	771.96 FT.	TYPE	M44M
	RMR BODY OD	FT.	NOZ. NO.	3
	STB BODY OD	FT.	NOZ. SIZE	3/4
	SUBS OD	7.13 FT.	SER NO	788506
	BIT OR C.B.	FT	DEPTH OUT	6758
	Jars.	5.80 FT.	CUMULATIVE HOURS RUN	16
	KELLY DOWN	21.00 FT.	COND. OF BIT	Good
	TOTAL	6758.73 FT.	REAMER CUTTER NO.	
WT OF STRING	176,000 LBS.		TYPE	

DRILLER

HRS. DRLD.	CORE NO.	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT. ON BIT 1000#	PUMP PRESS	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN
23/4		6740	6758		70	65	1400	5 1/2	52	5 1/2	54	

DEVIATION RECORD:	DEPTH	DEV.	DIRECTION	DEPTH	DEV	DIRECTION	DEPTH	DEV	DIRECTION
	6740	1/2°							

REMARKS

03/4	Drill 4:00 - 6:45
1/4	Survey 6:45 - 7:00
23/4	Pull out (pressure) 7:00 - 9:45
1/4	Change blind rams change bits 9:45 - 10:00
1/2	Run in DC 3. 10:00 - 10:30
1	Check Hydril + pipe rams slip + cut line 10:30 - 11:30
1/2	Run in 113 - 12:00

MUD RECORD

	4	6	
TIME			
WEIGHT	10.1	10.1	
VISC	76	76	
W.L.-C.C.			
FLTR CK.			
PH			
SD. CONT			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
Gel	15 sx		
Caustic	100 lb		
Pellets	150 lb		

C.P.—38 (10/63) **DAILY DRILLING REPORT** REPORT NO. 59 DATE May. 11

OPERATOR	LOCATION LSD.	SEC.	TWP.	RGE.	W	WELL NAME	No.	PROVINCE
SHELL CANADA LIMITED						Shell. Cloverleaf	1-46	N.W.T.

CONTRACTOR	RIG No.	DRILL PIPE STRING NO.	SIZE	TOOL JOINT OD	TYPE THD.
Regent Drilling	6	2	5"		X.H.

OPERATOR'S REPRESENTATIVE: E Ettinger

CONTRACTOR'S TOOL PUSHER:

PUMPS

NO.	MANUFACTURER	TYPE	STROKE LENGTH
1.	Emsco	D700	16"
2.	Emsco	D500	16"
3.			

CASING & LINER RECORD

SIZE	WT. & GR.	DEPTH SET FROM	DEPTH SET TO	PERFORATIONS FROM	PERFORATIONS TO	CEMENT USED	OTHER

TIME DISTRIBUTION—HOURS

	MORN	DAY	EVE
DRILLING ACTUAL	8	1½	
REAMING			
CIRCULATING		½	
TRIPS		5½	6½
DEVIATION SURVEY		¼	
TEST B.O.P			½
CUT-OFF DRILL LINE			
REPAIR RIG			1½
CORING			
WIRE LINE LOGGING			
OTHER			
FISHING			
COMPLETING (A) PERFORATING			
(B) RUNNING TUBING			
(C) SWABBING			
(D) TESTING			
(E) ACIDIZING			
(F) ADDITIONAL			
TOTALS	8	8	8

TIME SUMMARY (OFFICE USE ONLY)

CONTRACTOR'S TIME HRS:

OPERATOR'S TIME:

HRS. W/D.P: 22¾ Mon

HRS WO/D.P:

HRS STANDBY

WIRE LINE RECORD

REEL NO

NO OF LINES SIZE

FEET SLIPPED

FEET CUT OFF

PRESENT LENGTH

TON MI. or TRIPS SINCE LAST CUT

CUMULATIVE TON MI. or TRIPS

NO. OF DAYS FROM SPUD

CUMULATIVE ROTATING HRS.

MORNING TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD	
62	STANDS DP	FT.	RUN NO.	41
2	SNGLS. DP	5828 FT.	SIZE	12¼
27	D.C. ID / OD	771.96 FT.	MFG.	Sec
	RMR BODY OD	FT.	TYPE	M4N
	STB BODY OD	FT.	NOZ. NO.	3
	SUBS OD	7.13 FT.	NOZ. SIZE	3/4
	BIT OR C.B.	FT.	SER. NO	788552
		FT.	DEPTH OUT	
	KELLY DOWN	36 FT.	CUMULATIVE HOURS RUN	26½
	TOTAL	6641.42 FT.	COND. OF BIT	
WT. OF STRING		LBS.	REAMER CUTTER NO.	
			TYPE	

DRILLER: L. Wellogsby

HRS. DRLD.	CORE NO.	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT. ON BIT 1000#	PUMP PRESS.	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN
8		6602	6641		70	65	1200	5½	51	5½	52	

DEVIATION RECORD:

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

REMARKS

8 Drill 12¼ - 8½

MUD RECORD

	2	4	6
TIME			
WEIGHT	10.1	10.1	10.1
VISC	70	72	85
W.L.-C.C.			5.6
FLTR. CK.			2/32
PH			11.0
SD. CONT.			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
Water			
Gel	32 sx		
Pellets	150 lbs.		

DAY TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD	
62	STANDS DP	FT.	RUN NO.	41
2	SNGLS. DP	5828.42 FT.	SIZE	12¼
27	D.C. ID / OD	771.96 FT.	MFG.	Sec
	RMR BODY OD	FT.	TYPE	M4N
	STB BODY OD	FT.	NOZ. NO.	3
	SUBS OD	7.13 FT.	NOZ. SIZE	3/4
	BIT OR C.B.	FT.	SER. NO.	788552
		FT.	DEPTH OUT	6648
	KELLY DOWN	44.00 FT.	CUMULATIVE HOURS RUN	28
	TOTAL	6641.49 FT.	COND. OF BIT	
WT. OF STRING		LBS.	REAMER CUTTER NO.	
			TYPE	

DRILLER: R. Pachalek

HRS. DRLD.	CORE NO.	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT. ON BIT 1000#	PUMP PRESS.	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN
1½		6641	6648		70	65	200	5½	51	5½	52	

DEVIATION RECORD:

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION
6650	2°	—						

REMARKS

1½ Drill 8:00 - 9:30

½ Circulate Sample 9:30 - 10:00

½ Rig Tolco 10:00 - 10:15

Pull Out - Hole tight 2340 ft 10:15

Surface Casing - Circulate Out 4:00

to Casing from 2340

MUD RECORD

	8		
TIME			
WEIGHT	10.1		
VISC	74		
W.L.-C.C.	5.4		
FLTR. CK.	2/32		
PH	10.5		
SD. CONT.			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

EVENING TOUR

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

DRILLER

HRS. DRLD.	CORE NO.	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT. ON BIT 1000#	PUMP PRESS	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN

DEVIATION RECORD:

DEPTH	DEV.	DIRECTION	DEPTH	DEV	DIRECTION	DEPTH	DEV	DIRECTION

REMARKS

4 Pulling out working tight hole. 4:00 - 8:00

1½ Good Blind points change Bits 8:00 - 8:15

3½ Run in Dec 9:15 - 9:00

1¼ Replace ~~Brake~~ Lining on #2 pump drive 9:15 - 10:30

1½ Clean Hydril Pipe rams. pressure 9:00 - 9:15

1½ Run in Reaming tight hole. 10:30 - 12:00

MUD RECORD

TIME			
WEIGHT			
VISC			
W.L.-C.C.			
FLTR CK.			
PH			
SD. CONT			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

C.P.—38 (10/63) **DAILY DRILLING REPORT** REPORT NO. 58 DATE May 10/65

OPERATOR: SHELL CANADA LIMITED | LOCATION LSD. SEC. TWP. RGE. M. | WELL NAME: Shell Cloverley | No. 1-46 | PROVINCE N.W.T.

CONTRACTOR: Regent Drilling | RIG No. 6 | DRILL PIPE STRING NO. 2 SIZE 5" | TOOL JOINT OD | TYPE THD. XH

OPERATOR'S REPRESENTATIVE: E. Hunzer | CONTRACTOR'S TOOL PUSHER: L. Bernard

PUMPS

NO.	MANUFACTURER	TYPE	STROKE LENGTH
1.	Emsco	D700	16"
2.	Emsco	D500	16"
3.			

CASING & LINER RECORD

SIZE	WT. & GR.	DEPTH SET FROM	DEPTH SET TO	PERFORATIONS FROM	PERFORATIONS TO	CEMENT USED	OTHER

TIME DISTRIBUTION—HOURS

	MORN	DAY	EVE
DRILLING ACTUAL	2½	8	8
REAMING	½		
CIRCULATING			
TRIPS	2½		
DEVIATION SURVEY			
TEST B.O.P	1½		
CUT OFF DRILL LINE			
REPAIR RIG			
CORING			
WIRE LINE LOGGING			
OTHER			
FISHING			
COMPLETING (A) PERFORATING			
(B) RUNNING TUBING			
(C) SWABBING			
(D) TESTING			
(E) ACIDIZING			
(F) ADDITIONAL			
TOTALS	8	8	8

TIME SUMMARY (OFFICE USE ONLY)

CONTRACTOR'S TIME HRS:

OPERATOR'S TIME: (24 hr)

HRS. W/D.P:

HRS W/O D.P:

HRS STANDBY

WIRE LINE RECORD

REEL NO

NO OF LINES SIZE

FEET SLIPPED

FEET CUT OFF

PRESENT LENGTH

TON MI. or TRIPS SINCE LAST CUT

CUMULATIVE TON MI. or TRIPS

NO. OF DAYS FROM SPUD

CUMULATIVE ROTATING HRS.

MORNING TOUR

NO.	DRILLING ASSEMBLY		FT.	BIT RECORD	
61	STANDS	DP		RUN NO.	41
#1	SNGLS.	DP	5703.71 FT.	SIZE	12¼
27	D.C.	ID		MFG.	See
		OD	771.96 FT.	TYPE	M4N
	RMR BODY	OD	FT.	NOZ. NO.	3
	STB BODY	OD	FT.	NOZ. SIZE	3/4
	SUBS	OD	7.13 FT.	SER. NO	748552
	BIT OR C.B.		FT.	DEPTH OUT	
			FT.	CUMULATIVE HOURS RUN	
	KELLY DOWN		12 FT.	COND. OF BIT	
	TOTAL		6494.8 FT.	REAMER CUTTER NO.	
WT. OF STRING	165,000 LBS.			TYPE	

DRILLER: F. Williams

HRS. DRLD.	CORE NO.	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT. ON BIT 1000#	PUMP PRESS.	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN
2½		6475	6494		70	65	1200	5½	51	5½	51	

DEVIATION RECORD:

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION
6475	2°							

REMARKS

¾	Pull out 12" - 12½"
¼	Close blind rams change bits 12½ - 1"
½	Run in. OC 3. 1" - 1³⁰
¼	Survey. BOP's. Core Kelly cock 1³² - 1⁴⁵
1½	Run in slow. 1⁴⁵ - 2¹⁵
3½	Ream tight hole 5700' & 5400' finish in clean 2¹⁵ - 5³⁰
2½	Drill 5³⁰ - 8"

MUD RECORD

TIME			6
WEIGHT			10.2
VISC			110
W.L.-C.C.			6.0
FLTR. CK.			2/32
PH			9.5
SD. CONT.			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
Gel	15 sks		
Pallet	150 lb.		
Caustic	100 lbs.		

DAY TOUR

NO.	DRILLING ASSEMBLY		FT.	BIT RECORD	
62	STANDS	DP	5716.92 FT.	RUN NO.	41
	SNGLS.	DP	FT.	SIZE	12¼
	D.C.	ID		MFG.	See
		OD	771.96 FT.	TYPE	M4N
	RMR BODY	OD	FT.	NOZ. NO	3
	STB BODY	OD	FT.	NOZ. SIZE	3/4
	SUBS	OD	7.13 FT.	SER. NO.	748552
	BIT OR C.B.		FT.	DEPTH OUT	
			FT.	CUMULATIVE HOURS RUN	10½
	KELLY DOWN		13.00 FT.	COND. OF BIT	
	TOTAL		6559.01 FT.	REAMER CUTTER NO.	
WT. OF STRING	168,000 LBS.			TYPE	

DRILLER: L. Pacholek

HRS. DRLD.	CORE NO.	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT. ON BIT 1000#	PUMP PRESS.	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN
8		6494	6559		70	65	1200	5½	51	5½	52	

DEVIATION RECORD:

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

REMARKS

8 Drill 8⁰⁰ - 4⁰⁰

MUD RECORD

TIME	10	12	2
WEIGHT	10.1	10.0	10.0
VISC	90	80	85
W.L.-C.C.			5.6
FLTR. CK.			2/32
PH	11.0	11.0	11.0
SD. CONT.			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
Gel	15 Sks.		
Caustic	300 #		
Pallet	400 #		

EVENING TOUR

NO.	DRILLING ASSEMBLY		FT.	BIT RECORD	
63	STANDS	DP	FT.	RUN NO	41
1	SNGLS.	DP	5796.95 FT.	SIZE	12¼
27	D.C	ID		MFG.	See
		OD	771.96 FT.	TYPE	M4N
	RMR BODY	OD	FT.	NOZ. NO.	3
	STB BODY	OD	FT.	NOZ. SIZE	3/4
	SUBS	OD	7.13 FT.	SER NO	748552
	BIT OR C.B.		FT	DEPTH OUT	
			FT.	CUMULATIVE HOURS RUN	18½
	KELLY DOWN		FT.	COND. OF BIT	
	TOTAL		FT.	REAMER CUTTER NO.	
WT OF STRING	164,000 LBS.			TYPE	

DRILLER

HRS. DRLD.	CORE NO.	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT. ON BIT 1000#	PUMP PRESS	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN
8		6559	6602		70	65	1200	5½	51	5½	52	

DEVIATION RECORD:

DEPTH	DEV.	DIRECTION	DEPTH	DEV	DIRECTION	DEPTH	DEV	DIRECTION

REMARKS

8 Drill 4⁰⁰ - 12⁰⁰

MUD RECORD

TIME	4	6	10
WEIGHT	10.1	10.1	10.1
VISC	80	95	92
W.L.-C.C.			
FLTR CK.			
PH			11.0
SD. CONT			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

C.P.—38 (10/63)

DAILY DRILLING REPORT

REPORT NO. 57 DATE May. 9

OPERATOR: SHELL CANADA LIMITED

LOCATION LSD. SEC. TWP. RGE. W

WELL NAME: Shell Cloverleaf No. 1-46

PROVINCE: N. W. T.

CONTRACTOR: Regent Drilling RIG No. 6

DRILL PIPE STRING NO. SIZE: 2 5"

TOOL JOINT OD TYPE THD. X.H.

OPERATOR'S REPRESENTATIVE: L. T. Ringrose

CONTRACTOR'S TOOL PUSHER: [illegible]

PUMPS

NO.	MANUFACTURER	TYPE	STROKE LENGTH
1.	Emsco	D700	16"
2.	Emsco	D500	16"
3.			

CASING & LINER RECORD

SIZE	WT. & GR.	DEPTH SET FROM	DEPTH SET TO	PERFORATIONS FROM	PERFORATIONS TO

CEMENT USED:

OTHER:

TIME DISTRIBUTION—HOURS

	MORN	DAY	EVE
DRILLING ACTUAL	5½		
REAMING			
CIRCULATING	1		
TRIPS	1¼		
DEVIATION SURVEY	¼		
TEST B.O.P			
CUT OFF DRILL LINE			
REPAIR RIG			
CORING			
WIRE LINE LOGGING			
OTHER			
FISHING			
COMPLETING (A) PERFORATING			
(B) RUNNING TUBING			
(C) SWABBING			
(D) TESTING			
(E) ACIDIZING			
(F) ADDITIONAL			
TOTALS	8		

TIME SUMMARY (OFFICE USE ONLY)

CONTRACTOR'S TIME HRS:

OPERATOR'S TIME:

HRS. W/D.P: 24 hrs

HRS WO/D.P:

HRS STANDBY

WIRE LINE RECORD

REEL NO

NO OF LINES SIZE

FEET SLIPPED

FEET CUT OFF

PRESENT LENGTH

TON MI. or TRIPS SINCE LAST CUT

CUMULATIVE TON MI. or TRIPS

NO. OF DAYS FROM SPUD

CUMULATIVE ROTATING HRS.

MORNING TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD	
61	STANDS DP	5672.37 FT.	RUN NO.	40
	SNGLS. DP	FT.	SIZE	12¼
	D.C. ID		MFG.	See
27	D.C. OD	771.96 FT.	TYPE	M4A1
	RMR BODY OD	FT.	NOZ. NO.	3
	STB BODY OD	FT.	NOZ. SIZE	3/4
	SUBS OD	7.13 FT.	SER. NO	748589
	BIT OR C.B.	FT.	DEPTH OUT	6475'
		FT.	CUMULATIVE HOUPS RUN	29½
	KELLY DOWN	23 FT.	COND. OF BIT	
	TOTAL	6435.46	REAMER CUTTER NO.	
WT. OF STRING		165,000 LBS.	TYPE	

DRILLER: L. Willoughby

HRS. DRLD.	CORE NO.	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT. ON BIT 1000#	PUMP PRESS.	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN
5½		6444	6475		70	65	1200	5½	51	5½	51	

DEVIATION RECORD:

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

REMARKS

5½ Drill 1200 - 5330

1 Circ sample 5330 - 6330

¼ Survey. 6330 - 6345

MUD RECORD

TIME	2	6	6
WEIGHT	10.1	10.1	10.2
VISC	70	75	80
W.L.-C.C.			5.6
FLTR. CK.			3.2
PH			11.0
SD. CONT.			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
S.L.	26 sks		

DAY TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD	
	STANDS DP	FT.	RUN NO.	
	SNGLS. DP	FT.	SIZE	
	D.C. ID		MFG.	
	D.C. OD	FT.	TYPE	
	RMR BODY OD	FT.	NOZ. NO.	
	STB BODY OD	FT.	NOZ. 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: L. Packolek

HRS. DRLD.	CORE NO.	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT. ON BIT 1000#	PUMP PRESS.	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN

DEVIATION RECORD:

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

REMARKS

¼ Pull out - Stuck @ 2340 — 800 - 815 — 815 - 400

Work Jar Stuck Pipe w/ Coz.

MUD RECORD

TIME			
WEIGHT			
VISC			
W.L.-C.C.			
FLTR. CK.			
PH			
SD. CONT.			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
Lettex	400#		
Caustic	300#		
Gel	95 sks		

EVENING TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD	
	STANDS DP	FT.	RUN NO	
	SNGLS. DP	FT.	SIZE	
	D.C ID		MFG.	
	D.C OD	FT.	TYPE	
	RMR BODY OD	FT.	NOZ. NO.	
	STB BODY OD	FT.	NOZ. 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)	ROTARY R.P.M.	WT. ON BIT 1000#	PUMP PRESS	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN

DEVIATION RECORD:

DEPTH	DEV.	DIRECTION	DEPTH	DEV	DIRECTION	DEPTH	DEV	DIRECTION

REMARKS

5½ Rig up & start Gauge Test & Free Point 400 - 930

1 Circ collection Sub. 930 - 1030

14 Pull out mix light spots. 1030 - 1200

MUD RECORD

TIME			
WEIGHT			
VISC			
W.L.-C.C.			
FLTR CK.			
PH			
SD. CONT			

MUD & CHEMICAL

TYPE	AMT.

C.P.—38 (10/63) **DAILY DRILLING REPORT** REPORT NO. 56 DATE May 8

OPERATOR: SHELL CANADA LIMITED | LOCATION LSD. SEC. TWP. RGE. W.6 | WELL NAME: Red Coulee No. 1-26 | PROVINCE: N.W.T.

CONTRACTOR: Regent Drilling | RIG No. 6 | DRILL PIPE STRING NO. 2 SIZE 5" | TOOL JOINT OD TYPE THD. X H.

OPERATOR'S REPRESENTATIVE: B. B. Thurgur | CONTRACTOR'S TOOL PUSHER:

PUMPS

NO.	MANUFACTURER	TYPE	STROKE LENGTH
1.	Ewans	700	16"
2.	Emsco	D-500	16"
3.			

CASING & LINER RECORD

	SIZE	WT. & GR.	DEPTH SET FROM	DEPTH SET TO	PERFORATIONS FROM	PERFORATIONS TO	CEMENT USED	OTHER

TIME DISTRIBUTION—HOURS

	MORN	DAY	EVE
DRILLING ACTUAL	7¾	7¼	7¾
REAMING			
CIRCULATING			
TRIPS			
DEVIATION SURVEY			
TEST B.O.P			
CUT OFF DRILL LINE			
REPAIR RIG	¼		¼
CORING			
WIRE LINE LOGGING			
OTHER Sm Rig		¼	
FISHING			
COMPLETING (A) PERFORATING			
(B) RUNNING TUBING			
(C) SWABBING			
(D) TESTING			
(E) ACIDIZING			
(F) ADDITIONAL			
TOTALS	8	8	8

TIME SUMMARY (OFFICE USE ONLY)

CONTRACTOR'S TIME HRS:

OPERATOR'S TIME:

HRS. W/D.P: 23½ hrs.

HRS WO/D.P:

HRS STANDBY

WIRE LINE RECORD

REEL NO

NO OF LINES SIZE

FEET SLIPPED

FEET CUT OFF

PRESENT LENGTH

TON MI. or TRIPS SINCE LAST CUT

CUMULATIVE TON MI. or TRIPS

NO. OF DAYS FROM SPUD

CUMULATIVE ROTATING HRS.

MORNING TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD	
55	STANDS DP	FT.	RUN NO.	40
2	SNGLS. DP	55.72 FT.	SIZE	12¼
27	D.C. ID / OD	771.96 FT.	MFG.	Sec
	RMR BODY OD	FT.	TYPE	M44N
	STB BODY OD	FT.	NOZ. NO.	3
	SUBS OD	7.13 FT.	NOZ. SIZE	3/4
	BIT OR C.B.	FT.	SER. NO	784559
		FT.	DEPTH OUT	
	KELLY DOWN	36.00 FT.	CUMULATIVE HOURS RUN	
	TOTAL	6362.33 FT.	COND. OF BIT	
WT. OF STRING	165,000 LBS.		REAMER CUTTER NO.	
DRILLER	E. Willoughby		TYPE	

HRS. DRLD.	CORE NO.	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT. ON BIT 1000#	PUMP PRESS.	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN
7¾		6309	6362		70	65	1200	5½	52	5½	52	

DEVIATION RECORD:

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

REMARKS

1 Drill 12-1
1/4 work on mud line 1-1
6 3/4 Drill 1-8
Lost 5 to 7 BBL to Formation
per hr. approx 35 BBLS

MUD RECORD

	2	4	6
TIME			
WEIGHT	10.3	10.3	10.3
VISC	85	80	75
W.L.-C.C.			5.0
FLTR. CK.			2/32
PH			10.0
SD. CONT.			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
Water		Salmon Reg	50 sx
Gel	37 sx		
Bellite	150 lb.		
Caustic	100 lb.		

DAY TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD	
60	STANDS DP	FT.	RUN NO.	40
1	SNGLS. DP	569.19 FT.	SIZE	12¼
27	D.C. ID / OD	771.96 FT.	MFG.	Sec
	RMR BODY OD	FT.	TYPE	M44N
	STB BODY OD	FT.	NOZ. NO.	3
	SUBS OD	7.13 FT.	NOZ. SIZE	3/4
	BIT OR C.B.	FT.	SER. NO	784559
		FT.	DEPTH OUT	
	KELLY DOWN	15.00 FT.	CUMULATIVE HOURS RUN	16¼
	TOTAL	6403.28 FT.	COND. OF BIT	
WT. OF STRING	165,000 LBS.		REAMER CUTTER NO.	
DRILLER	R. Pocock		TYPE	

HRS. DRLD.	CORE NO.	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT. ON BIT 1000#	PUMP PRESS.	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN
7¾		6362	6403		70	65	1200	5½	51	5½	52	

DEVIATION RECORD:

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION
6300	2¾							

REMARKS

3/4 Diesel
1/4 Ser Rig
7 Drill

800-805
805-900
900-430

MUD RECORD

	10	12	2
TIME			
WEIGHT	10.3	10.3	10.3
VISC	85	85	85
W.L.-C.C.		5.4	
FLTR. CK.		2/32	
PH		11.0	
SD. CONT.			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
Gel	15		
Bellite	150		
Caustic	100		

EVENING TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD	
60	STANDS DP	FT.	RUN NO	40
2	SNGLS. DP	5640.77 FT.	SIZE	12¼
27	D.C. ID / OD	771.96 FT.	MFG.	Sec
	RMR BODY OD	FT.	TYPE	M44N
	STB BODY OD	FT.	NOZ. NO.	3
	SUBS OD	7.13 FT.	NOZ. SIZE	3/4
	BIT OR C.B.	FT	SER NO	784559
		FT.	DEPTH OUT	
	KELLY DOWN	24.12 FT.	CUMULATIVE HOURS RUN	24
	TOTAL	6440.00 FT.	COND. OF BIT	
WT OF STRING	165,500 LBS.		REAMER CUTTER NO.	
DRILLER			TYPE	

HRS. DRLD.	CORE NO.	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT. ON BIT 1000#	PUMP PRESS	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN
7¾		6403	6444		70	65	1200	5½	51	5½	52	

DEVIATION RECORD:

DEPTH	DEV.	DIRECTION	DEPTH	DEV	DIRECTION	DEPTH	DEV	DIRECTION

REMARKS

4 Drill 4-8
1/4 Change pipe rams 8-8¼
3 3/4 Drill 8-12

Three BBLs per Hr to Formation

MUD RECORD

	4	8	10
TIME			
WEIGHT	10.3	10.2	10.2
VISC	74	72	67
W.L.-C.C.			
FLTR CK.			
PH			11.0
SD. CONT			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
Gel	12 sx		
Bellite	150 lb.		

C.P.—38 (10/63) **DAILY DRILLING REPORT** REPORT NO. 55 DATE May 2 1965

OPERATOR: SHELL CANADA LIMITED | LOCATION LSD. SEC. TWP. RGE. W. | WELL NAME Shellmoyan Lea No. 1-26 | PROVINCE NWT

CONTRACTOR: Layent Drilling | RIG No. 6 | DRILL PIPE STRING NO. 2 SIZE 5" | TOOL JOINT OD TYPE THD. X H

OPERATOR'S REPRESENTATIVE: L. Lettinger | CONTRACTOR'S TOOL PUSHER

PUMPS

NO.	MANUFACTURER	TYPE	STROKE LENGTH
1.	Emsco	D700	16"
2.	Emsco	D-500	16"
3.			

CASING & LINER RECORD

SIZE	WT. & GR.	DEPTH SET FROM	DEPTH SET TO	PERFORATIONS FROM	PERFORATIONS TO	CEMENT USED	OTHER

TIME DISTRIBUTION—HOURS

	MORN	DAY	EVE
DRILLING ACTUAL	2	7¾	13½
REAMING	·		½
CIRCULATING			1
TRIPS			4
DEVIATION SURVEY			½
TEST B.O.P			1½
CUT OFF DRILL LINE			
REPAIR RIG			
CORING			
WIRE LINE LOGGING			
OTHER Sm R.G		¼	¼
FISHING			
COMPLETING (A) PERFORATING			
(B) RUNNING TUBING			
(C) SWABBING			
(D) TESTING			
(E) ACIDIZING			
(F) ADDITIONAL			
TOTALS	8	8	8

TIME SUMMARY (OFFICE USE ONLY)

CONTRACTOR'S TIME HRS:

OPERATOR'S TIME:

HRS. W/D.P: 24 hrs

HRS WO/D.P:

HRS STANDBY

WIRE LINE RECORD

REEL NO

NO OF LINES SIZE

FEET SLIPPED

FEET CUT OFF

PRESENT LENGTH

TON MI. or TRIPS SINCE LAST CUT

CUMULATIVE TON MI. or TRIPS

NO. OF DAYS FROM SPUD

CUMULATIVE ROTATING HRS.

MORNING TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD	
57	STANDS DP	FT.	RUN NO	39
2	SNGLS. DP	54 52.64 FT.	SIZE	12¼
	D.C. ID		MFG.	See
27	D.C. OD	771.96 FT.	TYPE	MICRO
	RMR BODY OD	FT.	NOZ. NO.	3
	STB BODY OD	FT.	NOZ. SIZE	3½
	SUBS OD	7.13 FT.	SER. NO	788405
	BIT OR C.B.	FT.	DEPTH OUT	
		FT.	CUMULATIVE HOURS RUN	
	KELLY DOWN	13.34 FT.	COND. OF BIT	
	TOTAL	6245.08 FT.	REAMER CUTTER NO.	
WT. OF STRING	160,000 LBS.		TYPE	

DRILLER: E. Wilson

HRS. DRLD.	CORE NO.	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT. ON BIT 1000#	PUMP PRESS.	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN
8		6190	6245		70	65	1100	5½	52	5½	51	

DEVIATION RECORD:	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

REMARKS

8 Drill 12:00 - 8:00

No Trace Loss. Lic

MUD RECORD

	12	4	6
TIME			
WEIGHT	10.3	10.3	10.3
VISC	75	78	22
W.L.-C.C.			5.6
FLTR. CK.			32
PH			10.0
SD. CONT.			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
Water			
Gel	10 sacks		
Pelleted	150 lbs		

DAY TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD	
59	STANDS DP	5494.21 FT.	RUN NO	39
	SNGLS. DP	FT.	SIZE	See 12¼
	D.C. ID		MFG.	See
27	D.C. OD	771.96 FT.	TYPE	MICRO
	RMR BODY OD	FT.	NOZ. NO	3
	STB BODY OD	FT.	NOZ. SIZE	3½
	SUBS OD	FT.	SER. NO	788405
	BIT OR C.B.	FT.	DEPTH OUT	
		FT.	CUMULATIVE HOURS RUN	23½ 23½
	KELLY DOWN	37.00 FT.	COND. OF BIT	
	TOTAL	6300.35 FT.	REAMER CUTTER NO.	
WT. OF STRING	160,000 LBS.		TYPE	

DRILLER: P. Pacholek

HRS. DRLD.	CORE NO.	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT. ON BIT 1000#	PUMP PRESS.	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN
7¾		6245	6500		70	65	1200	5½	52	5½	53	

DEVIATION RECORD:	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

REMARKS

½ Ser Rig 8:00 - 8:15

7¾ Drill 8:15 - 4:00

Lost 30-40 Bbls To Formation.

Will mud slug it

MUD RECORD

	10	12	2
TIME			
WEIGHT	10.3	10.3	10.3
VISC	83	83	83
W.L.-C.C.		5.4	
FLTR. CK.		2/32	
PH		10.5	
SD. CONT.		—	

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
Gel	105 sk		
Walnut	500 lb.		

EVENING TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD		
59	STANDS DP	FT.	RUN NO	39	40
1	SNGLS. DP	55.15 FT.	SIZE	12¼	12¼
	D.C. ID		MFG.	See	See
27	D.C. OD	771.96 FT.	TYPE	MICRO	MICRO
	RMR BODY OD	FT.	NOZ. NO.	3	3
	STB BODY OD	FT.	NOZ. SIZE	3½	3½
	SUBS OD	7.13 FT.	SER NO	788405	788559
	BIT OR C.B.	FT	DEPTH OUT	6300	
		FT.	CUMULATIVE HOURS RUN	23¾	
	KELLY DOWN	15.00 FT.	COND. OF BIT	Out	
	TOTAL	6309.35 FT.	REAMER CUTTER NO.		
WT OF STRING	160,000 LBS.		TYPE		

DRILLER: E. Wilson

HRS. DRLD.	CORE NO.	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT. ON BIT 1000#	PUMP PRESS	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN
13¼		6300	6309		70	65	1250	5½	52	5½	52	

DEVIATION RECORD:	DEPTH	DEV.	DIRECTION	DEPTH	DEV	DIRECTION	DEPTH	DEV	DIRECTION
	6309	2¾°							

REMARKS

1 Drill 4:00 - 5:00

1 Circ sample 5:00 - 6:00

¼ Survey 6:00 - 6:15

2 Pull bit 6:15 - 8:15

¼ Close blind rams change bits 8:15 - 8:30

½ Run in D.P. 8:30 - 9:00

½ Servicing close BOPS 9:00 - 9:15

1½ Run in slow 9:15 - 10:45

Drill 10:45 - 11:45

Circ & Rig 11:45 - 12:00

Drill 12:00 -

MUD RECORD

	4	6	
TIME			
WEIGHT	10.3	10.3	
VISC	76	76	
W.L.-C.C.			
FLTR CK.			
PH			
SD. CONT			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
Caustic	100 lbs		
Pellets	150 lbs.		

C.P.-38 (10/63) **DAILY DRILLING REPORT** REPORT NO. 54 DATE May 6, 1965

OPERATOR: SHELL CANADA LIMITED | LOCATION LSD. SEC. TWP. RGE. W | WELL NAME: Shell Clearbay No. 1-46 | PROVINCE: N.W.T.

CONTRACTOR: Regent Drilling Ltd | RIG No. 6 | DRILL PIPE STRING NO. SIZE: 2 5 | TOOL JOINT 6¼ OD | TYPE THD. XH

OPERATOR'S REPRESENTATIVE: R. Ellingson | CONTRACTOR'S TOOL PUSHER

PUMPS

NO.	MANUFACTURER	TYPE	STROKE LENGTH
1.	Emsco	D700	16
2.	Emsco	D500	16
3.			

CASING & LINER RECORD

SIZE	WT. & GR.	DEPTH SET FROM	DEPTH SET TO	PERFORATIONS FROM	PERFORATIONS TO	CEMENT USED	OTHER

TIME DISTRIBUTION—HOURS

	MORN	DAY	EVE
DRILLING ACTUAL	5¼	4½	2½
REAMING		½	
CIRCULATING			
TRIPS	2¼	2	
DEVIATION SURVEY	¼		
TEST B.O.P		½	
CUT OFF DRILL LINE			
REPAIR RIG		3¼	¼
CORING			
WIRE LINE LOGGING			
OTHER Ser Rig	¼		¼
FISHING			
COMPLETING (A) PERFORATING			
(B) RUNNING TUBING			
(C) SWABBING			
(D) TESTING			
(E) ACIDIZING			
(F) ADDITIONAL			
TOTALS	8	8	

TIME SUMMARY (OFFICE USE ONLY)

CONTRACTOR'S TIME HRS:

OPERATOR'S TIME:

HRS. W/D.P: 23¾

HRS WO/D.P:

HRS STANDBY

WIRE LINE RECORD

REEL NO

NO OF LINES SIZE

FEET SLIPPED

FEET CUT OFF

PRESENT LENGTH

TON MI. or TRIPS SINCE LAST CUT

CUMULATIVE TON MI. or TRIPS

NO. OF DAYS FROM SP'JD

CUMULATIVE ROTATING HRS.

MORNING TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD	
57	STANDS DP	5297.41 FT.	RUN NO.	38
	SNGLS. DP	FT.	SIZE	12¼
	D.C. ID		MFG.	Soc
27	D.C. OD	771.96 FT.	TYPE	M4N
	RMR BODY OD	FT.	NOZ. NO.	3
	STB BODY OD	FT.	NOZ. SIZE	3/4
2	SUBS OD	2.13 FT.	SER. NO	78514
	BIT OR C.B.	FT.	DEPTH OUT	188
		FT.	CUMULATIVE HOURS RUN	31¾
	KELLY DOWN	33.00 FT.	COND. OF BIT	
	TOTAL	6109.30 FT.	REAMER CUTTER NO.	
	WT. OF STRING	LBS.	TYPE	

DRILLER R. Tacholek

HRS. DRLD.	CORE NO.	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT. ON BIT 1000#	PUMP PRESS.	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN
5¼		6079	6109		70	65	1200	5½	53	5½	54	=

DEVIATION RECORD:

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION
6100	2¼							

REMARKS

5¼	Drill	12⁰⁰ - 5¹⁵
¼	Survey	5¹⁵ - 5³⁰
2½	Pull Out	5³⁰ - 7⁰⁵
¼	Ser Rig & Swivel	7⁰⁵ - 8⁰⁰

MUD RECORD

	2	4	
TIME			
WEIGHT	10.3	10.3	
VISC	80	83	
W.L.-C.C.			
FLTR. CK.			
PH			
SD. CONT.			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
Kellex	150		

DAY TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD	
57	STANDS DP	5327.91 FT.	RUN NO.	39
1	SNGLS. DP		SIZE	12¼
	D.C. ID		MFG.	Sec
27	D.C. OD	771.96 FT.	TYPE	M4N
	RMR BODY OD	FT.	NOZ. NO.	3
	STB BODY OD	FT.	NOZ. SIZE	3/4
	SUBS OD	2.13 FT.	SER. NO.	78505
	BIT OR C.B.	FT.	DEPTH OUT	
		FT.	CUMULATIVE HOURS RUN	
	KELLY DOWN	33 FT.	COND. OF BIT	
	TOTAL	6143.6 FT.	REAMER CUTTER NO.	
	WT. OF STRING	160,000 LBS.	TYPE	

DRILLER R. Tacholek

HRS. DRLD.	CORE NO.	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT. ON BIT 1000#	PUMP PRESS.	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN
4½		6109	6142		70	65	1200	5½	52	5½	52	

DEVIATION RECORD:

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

REMARKS

¾	Work on fuel to floor motors	4⁰⁰ - 4³⁰
½	Run in DC's & DP	4³⁰ - 9¹⁵
¼	Close hydril & pipe rams	9¹⁵ - 9³⁰
1½	Run in slow.	9³⁰ - 11⁰⁰
½	Clean to btm	11⁰⁰ - 11³⁰
4½	Drill	11³⁰ - 4⁰⁰

MUD RECORD

	12	2	
TIME			
WEIGHT	10.2	10.2	
VISC	80	74	
W.L.-C.C.			
FLTR. CK.			
PH		10.0	
SD. CONT.			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
Water			

EVENING TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD	
57	STANDS DP	5389.68 FT.	RUN NO	39
	SNGLS. DP	FT.	SIZE	12¼
	D.C ID		MFG.	Sec
27	D.C OD	771.96 FT.	TYPE	M4N
	RMR BODY OD	FT.	NOZ. NO.	3
	STB BODY OD	FT.	NOZ. SIZE	3/4
	SUBS OD	2.13 FT.	SER NO	78505
	BIT OR C.B.	FT	DEPTH OUT	
		FT.	CUMULATIVE HOURS RUN	12
	KELLY DOWN	22.00 FT.	COND. OF BIT	
	TOTAL	6096.9 FT.	REAMER CUTTER NO.	
	WT OF STRING	160 LBS.	TYPE	

DRILLER R. Tacholek

HRS. DRLD.	CORE NO.	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT. ON BIT 1000#	PUMP PRESS	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN
7½		6142	6190		70	65	1200	5½	53	5½	54	—

DEVIATION RECORD:

DEPTH	DEV.	DIRECTION	DEPTH	DEV	DIRECTION	DEPTH	DEV	DIRECTION
6100	2½							

REMARKS

½	Drill	4⁰⁰ - 4³⁰
¼	Ser Rig	4³⁰ - 4⁴⁵
4½	Drill	4⁴⁵ 9¹⁵
¼	Install Drive Belt on Dew. Oil pump	9¹⁵ 9³⁰
2½	Drill	9³⁰ - 12⁰⁰

MUD RECORD

	4	8	10
TIME			
WEIGHT	10.3	10.3	10.3
VISC	65	78	78
W.L.-C.C.			
FLTR CK.			
PH	10.0	10.0	10.0
SD. CONT			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
Lignite	25#		
Caustic	5#		
Gel	20#		

C.P.—38 (10/63) **DAILY DRILLING REPORT** REPORT NO. 53 DATE May 5

OPERATOR: SHELL CANADA LIMITED | LOCATION LSD. SEC. TWP. RGE. W. | WELL NAME: Corrubal | No. 1-46 | PROVINCE: N.W.T.

CONTRACTOR: Regent Drilling Ltd | RIG No. 6 | DRILL PIPE STRING NO. SIZE | TOOL JOINT 6 1/4 OD | TYPE THD. XH

OPERATOR'S REPRESENTATIVE: E Ellinger | CONTRACTOR'S TOOL PUSHER: A Pomeroy

PUMPS

NO.	MANUFACTURER	TYPE	STROKE LENGTH
1.	Emsco	D700	16
2.	Emsco	D500	16
3.			

CASING & LINER RECORD

SIZE	WT. & GR.	DEPTH SET FROM	DEPTH SET TO	PERFORATIONS FROM	PERFORATIONS TO	CEMENT USED	OTHER
13 3/4		0	717				

TIME DISTRIBUTION—HOURS

	MORN	DAY	EVE
DRILLING ACTUAL	4	7 1/2	7 3/4
REAMING			
CIRCULATING			
TRIPS			
DEVIATION SURVEY			
TEST B.O.P			
CUT OFF DRILL LINE			
REPAIR RIG		1/4	1/4
CORING			
WIRE LINE LOGGING		1/4	
OTHER SER RIG			
FISHING			
COMPLETING (A) PERFORATING			
(B) RUNNING TUBING			
(C) SWABBING			
(D) TESTING			
(E) ACIDIZING			
(F) ADDITIONAL			
TOTALS	8	8	

TIME SUMMARY (OFFICE USE ONLY)

CONTRACTOR'S TIME HRS:

OPERATOR'S TIME:

HRS. W/D.P: 24

HRS WO/D.P:

HRS STANDBY

WIRE LINE RECORD

REEL NO

NO OF LINES SIZE

FEET SLIPPED

FEET CUT OFF

PRESENT LENGTH

TON MI. or TRIPS SINCE LAST CUT

CUMULATIVE TON MI. or TRIPS

NO. OF DAYS FROM SPUD

CUMULATIVE ROTATING HRS.

MORNING TOUR

NO.	DRILLING ASSEMBLY		FT.
52	STANDS	DP	
2	SNGLS.	DP	5172.93 FT.
	D.C.	ID	
27		OD	717.96 FT.
	RMR BODY	OD	FT.
2	STB BODY	OD	7.12 FT.
	SUBS	OD	FT.
	BIT OR C.B.		FT.
			FT.
	KELLY DOWN		40.00 FT.
	TOTAL		5992.52 FT.
WT. OF STRING			160,000 LBS.

DRILLER: L Pocholek

BIT RECORD

RUN NO.	38
SIZE	12 1/4
MFG.	Sec
TYPE	M4N
NOZ. NO.	3
NOZ. SIZE	3/4
SER. NO	788514
DEPTH OUT	
CUMULATIVE HOURS RUN	11 1/4
COND. OF BIT	
REAMER CUTTER NO.	
TYPE	

HRS. DRLD.	CORE NO.	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT. ON BIT 1000#	PUMP PRESS.	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN
8		5945	5992		70	65	1200	5 1/2	53	5 1/2	54	=

DEVIATION RECORD:

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION
5900	2 1/2							

REMARKS

8 Drill 12:00 - 8:00

No loss in Circulating fluid at all.

MUD RECORD

TIME	2	4	6
WEIGHT	10.2	10.2	10.2
VISC	79	73	73
W.L.-C.C.			5.2
FLTR. CK.			2/32
PH			11.0
SD. CONT.			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
Gel	15 Sx		
Caustic	100 #		
Poltac	150 #		

DAY TOUR

NO.	DRILLING ASSEMBLY		FT.
56	STANDS	DP	
1	SNGLS.	DP	5285.34 FT.
	D.C.	ID	
27		OD	717.96 FT.
	RMR BODY	OD	FT.
2	STB BODY	OD	7.13 FT.
	SUBS	OD	FT.
	BIT OR C.B.		FT.
			FT.
	KELLY DOWN		20.00 FT.
	TOTAL		6084.43 FT.
WT. OF STRING			160,000 LBS.

DRILLER: L Willoughby

BIT RECORD

RUN NO.	38
SIZE	12 1/4
MFG.	Sec
TYPE	M4N
NOZ. NO.	3
NOZ. SIZE	3/4
SER. NO.	788514
DEPTH OUT	
CUMULATIVE HOURS RUN	18 3/4
COND. OF BIT	
REAMER CUTTER NO.	
TYPE	

HRS. DRLD.	CORE NO.	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT. ON BIT 1000#	PUMP PRESS.	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN
7 1/2		5992	6034		70	65	1200	5 1/2	53	5 1/2	54	=

DEVIATION RECORD:

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

REMARKS

1/4	Service Rig	8:00 - 8:15
5	Drill	8:15 - 1:15
1/4	Remove Torque gauge	1:15 - 1:30
2 1/2	Drill	1:30 - 4:00

MUD RECORD

TIME	10	12	2
WEIGHT	10.3	10.3	10.3
VISC	75	70	80
W.L.-C.C.			5.8
FLTR. CK.			2/32
PH			11.0
SD. CONT.			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
Gel	24		
Caustic			
Poltac	150		

EVENING TOUR

NO.	DRILLING ASSEMBLY		FT.
56	STANDS	DP	
2	SNGLS.	DP	5265.92 FT.
	D.C	ID	
27		OD	717.96 FT.
	RMR BODY	OD	FT.
2	STB BODY	OD	7.13 FT.
	SUBS	OD	FT.
	BIT OR C.B.		FT.
			FT.
	KELLY DOWN		34.00 FT.
	TOTAL		FT.
WT OF STRING			160,000 LBS.

DRILLER: L Pocholek

BIT RECORD

RUN NO	38
SIZE	12 1/4
MFG.	Sec
TYPE	M4N
NOZ. NO.	3
NOZ. SIZE	3/4
SER NO	788514
DEPTH OUT	
CUMULATIVE HOURS RUN	26 1/2
COND. OF BIT	
REAMER CUTTER NO.	
TYPE	

HRS. DRLD.	CORE NO.	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT. ON BIT 1000#	PUMP PRESS	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN
7 3/4		6034	6079		70	65	1200	5 1/2	53	5 1/2	54	=

DEVIATION RECORD:

DEPTH	DEV.	DIRECTION	DEPTH	DEV	DIRECTION	DEPTH	DEV	DIRECTION

REMARKS

3 3/4	Drill	4:00 - 7:45
1/4	Change Gland Packing - D700	7:45 - 8:00
4	Drill	8:00 12:00

MUD RECORD

TIME	6	8	10
WEIGHT	10.3	10.3	10.4
VISC	75	68	89
W.L.-C.C.			5.6
FLTR CK.			
PH	11.0	11.0	11.0
SD. CONT			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
Gel	105x.		

C.P.—38 (10/63) **DAILY DRILLING REPORT** REPORT NO. 52 DATE May 4

OPERATOR: SHELL CANADA LIMITED

LOCATION LSD. SEC. TWP. RGE. W.

WELL NAME: Shell Chauncey No. 1-46

PROVINCE: N W T

CONTRACTOR: Regent Drilling Ltd. RIG No. 6

DRILL PIPE STRING NO. SIZE | TOOL JOINT OD | TYPE THD. XH

OPERATOR'S REPRESENTATIVE: E. Hunger

CONTRACTOR'S TOOL PUSHER: F. Dameka

PUMPS

NO.	MANUFACTURER	TYPE	STROKE LENGTH
1.	Emsco	D700	16
2.	Emsco	D500	16
3.			

CASING & LINER RECORD

SIZE	WT. & GR.	DEPTH SET FROM	DEPTH SET TO	PERFORATIONS FROM	PERFORATIONS TO	CEMENT USED	OTHER

TIME DISTRIBUTION—HOURS

	MORN	DAY	EVE
DRILLING ACTUAL	4		3¼
REAMING			¼
CIRCULATING			
TRIPS	3		1½
DEVIATION SURVEY	¼		
TEST B.O.P	¼		
CUT OFF DRILL LINE	½	½	
REPAIR RIG			
CORING			
WIRE LINE LOGGING			
OTHER		7¼	2½
FISHING (Rock Bit Junk Loss)			½
COMPLETING (A) PERFORATING			
(B) RUNNING TUBING			
(C) SWABBING			
(D) TESTING			
(E) ACIDIZING			
(F) ADDITIONAL			
TOTALS	8	8	8

TIME SUMMARY (OFFICE USE ONLY)

CONTRACTOR'S TIME HRS:

OPERATOR'S TIME:

HRS. W/D.P: 24

HRS WO/D.P:

HRS STANDBY

WIRE LINE RECORD

REEL NO

NO. OF LINES SIZE

FEET SLIPPED

FEET CUT OFF

PRESENT LENGTH

TON MI. or TRIPS SINCE LAST CUT

CUMULATIVE TON MI. or TRIPS

NO. OF DAYS FROM SPUD

CUMULATIVE ROTATING HRS.

MORNING TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD	
22	STANDS DP	810.79 FT.	RUN NO.	37 / 38
	SNGLS. DP	FT.	SIZE	12¼ / 12¼
27	D.C. ID / OD	771.96 FT.	MFG.	Cre / Smc
	RMR BODY OD	FT.	TYPE	M4N / M4N
	STB BODY OD	FT.	NOZ. NO.	3 / 3
	SUBS OD	7.13 FT.	NOZ. SIZE	3/4 / 3/4
	BIT OR C.B.	FT.	SER. NO	788087 / 788514
		FT.	DEPTH OUT	5921
	KELLY DOWN	32.00 FT.	CUMULATIVE HOURS RUN	26¼
	TOTAL	5921.88 FT.	COND. OF BIT	
WT. OF STRING	160,000 LBS.		REAMER CUTTER NO.	
DRILLER	L. Pacholek		TYPE	

HRS. DRLD.	CORE NO.	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT. ON BIT 1000#	PUMP PRESS.	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN
4		5895	5921		70	50	1200	5½	52	5½	52	=

DEVIATION RECORD: DEPTH 5900 | DEV. 2½° | DIRECTION | DEPTH | DEV. | DIRECTION | DEPTH | DEV. | DIRECTION

REMARKS

4 Drill Losing Mud. 12⁰⁰ - 4⁰⁰
¼ Cyclonite Survey approx 3 to 5 BBLS Pit Hr. 4⁰⁰ - 4¹⁵
2¼ Pull Out 4¹⁵ - 6³⁰
¼ Ser Rig & BOP 6³⁰ - 6⁴⁵
3¼ Remove DC + Hold DP - Close Pipe Rams 6⁴⁵ - 7²⁰
½ Slip & Cut Drill Line 7²⁰ - 8⁰⁰

MUD RECORD

	12	2
TIME		
WEIGHT	10.2	10.2
VISC	75	75
W.L.-C.C.		
FLTR. CK.		
PH	11.0	11.0
SD. CONT.		

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

DAY TOUR

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

HRS. DRLD.	CORE NO.	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT. ON BIT 1000#	PUMP PRESS.	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN

DEVIATION RECORD: DEPTH | DEV. | DIRECTION | DEPTH | DEV. | DIRECTION | DEPTH | DEV. | DIRECTION

REMARKS

½ Slips & cut Line 8⁰⁰-8³⁰
7½ Jack rig & line up Derrick 8³⁰-4⁰⁰

MUD RECORD

TIME		
WEIGHT		
VISC		
W.L.-C.C.		
FLTR. CK.		
PH		
SD. CONT.		

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

EVENING TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD	
5	STANDS DP	FT.	RUN NO	38
1	SNGLS. DP	51½ 3 FT.	SIZE	12¼
	D.C. ID / OD	771.96 FT.	MFG.	See
	RMR BODY OD	FT.	TYPE	M4N
	STB BODY OD	7.13 FT.	NOZ. NO.	3
	SUBS OD	FT.	NOZ. SIZE	3/4
	BIT OR C.B.	FT.	SER NO	788514
		FT.	DEPTH OUT	
	KELLY DOWN	24.00 FT.	CUMULATIVE HOURS RUN	3¼
	TOTAL	5945.45 FT.	COND. OF BIT	
WT OF STRING	160,000 LBS.		REAMER CUTTER NO.	
DRILLER	L. Pacholek		TYPE	

HRS. DRLD.	CORE NO.	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT. ON BIT 1000#	PUMP PRESS	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN
3¼		5921	5945		75	40/60	1200	5½	52	5½	52	—

DEVIATION RECORD: DEPTH | DEV. | DIRECTION | DEPTH | DEV | DIRECTION | DEPTH | DEV | DIRECTION

REMARKS

2½ Ream up for jacks 4⁰⁰ - 6³⁰
¼ Clear Junk Log in hole. 6³⁰ - 6⁴⁵
1½ Run in slow Short orders 6⁴⁵ - 8¹⁵
½ Clean to Btm 8¹⁵ - 8⁴⁵
3¼ Drill 8⁴⁵ - 12⁰⁰
Lost 55 BBLS of Mud & Centering - 11 hrs -

MUD RECORD

	9	10
TIME		
WEIGHT	10.1	10.1
VISC	90	90
W.L.-C.C.		
FLTR. CK.		
PH	10.5	10.5
SD. CONT		

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
Walnut	100 Sck		
Mica	50 Sck		
Caustic	100 lbs		

C.P.—38 (10/63) **DAILY DRILLING REPORT** REPORT NO. 51 DATE May 3

OPERATOR: SHELL CANADA LIMITED | LOCATION LSD. SEC. TWP. RGE. W. | WELL NAME: Shell Cloverleaf No. 1-46 | PROVINCE: N W T

CONTRACTOR: Regent Drilling Ltd. RIG No. 6 | DRILL PIPE STRING NO. SIZE | TOOL JOINT OD TYPE THD

OPERATOR'S REPRESENTATIVE: L Ellenger | CONTRACTOR'S TOOL PUSHER: J Pomeleau

PUMPS

NO.	MANUFACTURER	TYPE	STROKE LENGTH
1.	Emsco	D700	16
2.	Emsco	D500	16
3.			

CASING & LINER RECORD

	SIZE	WT. & GR.	DEPTH SET FROM	DEPTH SET TO	PERFORATIONS FROM	PERFORATIONS TO	CEMENT USED	OTHER

TIME DISTRIBUTION—HOURS

	MORN	DAY	EVE
DRILLING ACTUAL	11½	7¾	4
REAMING	½		
CIRCULATING			
TRIPS	¼		
DEVIATION SURVEY			
TEST B.O.P			
CUT OFF DRILL LINE			
REPAIR RIG	5¼		
CORING			
WIRE LINE LOGGING			
OTHER		¼	
FISHING			
COMPLETING (A) PERFORATING			
(B) RUNNING TUBING			
(C) SWABBING			
(D) TESTING			
(E) ACIDIZING			
(F) ADDITIONAL			
TOTALS	4	8	12

TIME SUMMARY (OFFICE USE ONLY)

CONTRACTOR'S TIME HRS:

OPERATOR'S TIME:

HRS. W/D.P: 23¼

HRS WO/D.P:

HRS STANDBY

WIRE LINE RECORD

REEL NO

NO. OF LINES SIZE

FEET SLIPPED

FEET CUT OFF

PRESENT LENGTH

TON MI. or TRIPS SINCE LAST CUT

CUMULATIVE TON MI. or TRIPS

NO. OF DAYS FROM SPUD

CUMULATIVE ROTATING HRS.

MORNING TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD	
53	STANDS DP	4957.73 FT.	RUN NO.	37
1	SNGLS. DP	FT.	SIZE	12¼
27	D.C. ID / OD	771.96 FT.	MFG.	See
	RMR BODY OD	FT.	TYPE	M4N
	STB BODY OD	FT.	NOZ. NO.	3
	SUBS OD	7.13 FT.	NOZ. SIZE	3/4
	BIT OR C.B.	FT.	SER. NO	789087
		FT.	DEPTH OUT	
	KELLY DOWN	35.00 FT.	CUMULATIVE HOURS RUN	6½
	TOTAL	5771.32 FT.	COND. OF BIT	
WT. OF STRING	LBS.		REAMER CUTTER NO.	
			TYPE	

DRILLER: L Pachalek

HRS. DRLD.	CORE NO.	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT. ON BIT 1000#	PUMP PRESS.	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN
¼		5721	5721		70	50	1200	5½	55	5½	54	
1¼												

DEVIATION RECORD: DEPTH 5720 DEV. 3° | DEPTH | DEV. | DIRECTION | DEPTH | DEV. | DIRECTION | DEPTH | DEV. | DIRECTION

REMARKS

¼	Run In "No lost Circ." 12⁰⁰-12¹⁵
½	Clean Out to Btm 12¹⁵-12⁴⁵
5¼	Drill 12⁴⁵-6⁰⁰
¾	Repair Rotary Chain - Install Torque Gauge 6⁰⁰-6⁴⁵
1¼	Trip 6⁴⁵-8⁰⁰

MUD RECORD

	2	4	6
TIME			
WEIGHT	10.0	10.0	10.0
VISC	85	77	65
W.L.-C.C.			
FLTR. CK.			
PH		11.0	
SD. CONT.			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
Caustic	200#		
Pelton	300#		
Gel	30 Sx		

DAY TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD	
54	STANDS DP	FT.	RUN NO.	37
1	SNGLS. DP	5049.73 FT.	SIZE	12¼
27	D.C. ID / OD	771.96 FT.	MFG.	See
	RMR BODY OD	FT.	TYPE	M4N
	STB BODY OD	FT.	NOZ. NO.	3
	SUBS OD	7.13 FT.	NOZ. SIZE	3/4
	BIT OR C.B.	FT.	SER. NO.	789087
		FT.	DEPTH OUT	
	KELLY DOWN	12.00 FT.	CUMULATIVE HOURS RUN	
	TOTAL	5840.85 FT.	COND. OF BIT	
WT. OF STRING	160,000 LBS.		REAMER CUTTER NO.	
			TYPE	

DRILLER: G. Willoughby

HRS. DRLD.	CORE NO.	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT. ON BIT 1000#	PUMP PRESS.	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN
7¾		5771	5840		70	60	900	5½	62	5½	62	

DEVIATION RECORD: DEPTH | DEV. | DIRECTION | DEPTH | DEV. | DIRECTION | DEPTH | DEV. | DIRECTION

REMARKS

¼	Service rig 8⁰⁰-8¹⁵
7¾	Drill 8¹⁵-4⁰⁰

Losing mud @ 5. BBLs Per Hr.

MUD RECORD

	8	12	2
TIME			
WEIGHT	10.1	10.2	10.2
VISC	68	65	65
W.L.C.C.	6.2		
FLTR. CK.	2/32		
PH	11.0		
SD. CONT.			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
Water			
Gel	30 Sx		

EVENING TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD	
54	STANDS DP	FT.	RUN NO	37
2	SNGLS. DP	5051.36 FT.	SIZE	12¼
27	D.C. ID / OD	771.96 FT.	MFG.	See
	RMR BODY OD	FT.	TYPE	M4N
	STB BODY OD	FT.	NOZ. NO.	3
	SUBS OD	7.13 FT.	NOZ. SIZE	3/4
	BIT OR C.B.	FT	SER NO	789087
		FT.	DEPTH OUT	
	KELLY DOWN	36.00 FT.	CUMULATIVE HOURS RUN	22¼
	TOTAL	5895.42 FT.	COND. OF BIT	
WT OF STRING	160,000 LBS.		REAMER CUTTER NO.	
			TYPE	

DRILLER: L Pachalek

HRS. DRLD.	CORE NO.	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT. ON BIT 1000#	PUMP PRESS	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN
4		5840	5895		70	50	1200	5½	52	5½	52	=

DEVIATION RECORD: DEPTH | DEV. | DIRECTION | DEPTH | DEV | DIRECTION | DEPTH | DEV | DIRECTION

REMARKS

4	Drill 4⁰⁰-12⁰⁰

MUD RECORD

	6	8	10
TIME			
WEIGHT	10.1	10.2	10.2
VISC	82	72	72
W.L.C.C.			
FLTR CK.			
PH	11.0	11.0	11.0
SD. CONT			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

C.P.—38 (10/63) **DAILY DRILLING REPORT** REPORT NO. 50 DATE May 2 1965

OPERATOR: SHELL CANADA LIMITED

LOCATION: LSD. SEC. TWP. RGE. W.

WELL NAME: Ford Clover Leaf No. 1-46

PROVINCE: N W T

CONTRACTOR: Regent Drilling Ltd RIG No. 6

DRILL PIPE STRING NO. SIZE: TOOL JOINT 6 1/4 OD TYPE THD. X H

OPERATOR'S REPRESENTATIVE: E E Hinger

CONTRACTOR'S TOOL PUSHER: L Dumaine

PUMPS

NO.	MANUFACTURER	TYPE	STROKE LENGTH
1.	Emsco	D700	16
2.	Emsco	D500	16
3.			

CASING & LINER RECORD

SIZE	WT. & GR.	DEPTH SET FROM	DEPTH SET TO	PERFORATIONS FROM	PERFORATIONS TO	CEMENT USED	OTHER
		1	717				

TIME DISTRIBUTION—HOURS

	MORN	DAY	TYR
DRILLING ACTUAL	4 1/2	7 1/2	3 1/4
REAMING	3/4		
CIRCULATING			
TRIPS	1 1/2		4 1/4
DEVIATION SURVEY			1/4
TEST B.O.P			1/4
CUT OFF DRILL LINE			
REPAIR RIG	3/4		
CORING			
WIRE LINE LOGGING			
OTHER Clear Jack	1/2	1/2	
FISHING			
COMPLETING (A) PERFORATING			
(B) RUNNING TUBING			
(C) SWABBING			
(D) TESTING			
(E) ACIDIZING			
(F) ADDITIONAL			
TOTALS	8	8	8

TIME SUMMARY (OFFICE USE ONLY)

CONTRACTOR'S TIME HRS:

OPERATOR'S TIME:

HRS. W/D.P: 24.

HRS WO/D.P:

HRS STANDBY

WIRE LINE RECORD

REEL NO

NO OF LINES SIZE

FEET SLIPPED

FEET CUT OFF

PRESENT LENGTH

TON MI. or TRIPS SINCE LAST CUT

CUMULATIVE TON MI. or TRIPS

NO. OF DAYS FROM SPUD

CUMULATIVE ROTATING HRS.

MORNING TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD	
52	STANDS DP	4885.87 FT.	RUN NO.	36
	SNGLS. DP	FT.	SIZE	12 1/4
	D.C. ID		MFG.	Sec
27	D.C. OD	771.96 FT.	TYPE	M4N
	RMR BODY OD	FT.	NOZ. NO.	3
	STB BODY OD	FT.	NOZ. SIZE	3/4
	SUBS OD	2.13 FT.	SER. NO	889978
	BIT OR C.B.	FT.	DEPTH OUT	
		FT.	CUMULATIVE HOURS RUN	4 1/2
	KELLY DOWN	37.00 FT.	COND. OF BIT	
	TOTAL	5651.96 FT.	REAMER CUTTER NO.	
	WT. OF STRING	160 000 LBS.	TYPE	

DRILLER: R Packold

HRS. DRLD.	CORE NO.	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT. ON BIT 1000#	PUMP PRESS.	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN
4 1/2		561	5651		90-120	30/40	1300	5 1/2	64	5 1/2	55	

DEVIATION RECORD: DEPTH 5600 DEV. 4 3/4 DIRECTION

REMARKS

1/2	Clean Suction Tank	12⁰⁰ - 12³⁰
3/4	Work on Pump Found Jack D700	12³⁰ - 1¹⁵
1 1/2	Ream to Bottom	1¹⁵ - 2⁴⁵
3/4	Clean to Btm	2⁴⁵ - 3³⁰
4 1/2	Drill	3³⁰ - 8⁰⁰

MUD RECORD

		4	6
TIME			
WEIGHT		10.2	10.2
VISC		86	86
W.L.-C.C.			
FLTR. CK.			
PH		11.0	11.5
SD. CONT.			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
Caustic	100		
Pellets	200		

DAY TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD	
5	STANDS DP	FT.	RUN NO.	36
2	SNGLS. DP	4899.60 FT.	SIZE	12 1/4
	D.C. ID		MFG.	See
27	D.C. OD	771.96 FT.	TYPE	M4N
	RMR BODY OD	FT.	NOZ. NO	3
	STB BODY OD	FT.	NOZ. SIZE	3/4
	SUBS OD	7.13 FT.	SER. NO.	889978
	BIT OR C.B.	FT.	DEPTH OUT	
		FT.	CUMULATIVE HOURS RUN	
	KELLY DOWN	23 FT.	COND. OF BIT	
	TOTAL	5701.09 FT.	REAMER CUTTER NO.	
	WT. OF STRING	160 000 LBS.	TYPE	

DRILLER: E. Wilson

HRS. DRLD.	CORE NO.	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT. ON BIT 1000#	PUMP PRESS.	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN
7 3/4		5651	5701		120	40	900	5 1/2	62	5 1/2	62	

DEVIATION RECORD: DEPTH DEV. DIRECTION

REMARKS

1/2	Sur. Dry	8⁰⁰ - 8¹⁵
7 3/4	Drill	8¹⁵ - 4⁰⁰

Losing Mud 5 to 7 BBLS Per hour.

MUD RECORD

	10	12	2
TIME			
WEIGHT	10.2	10.2	10.2
VISC	72	67	70
W.L.-C.C.			6.5
FLTR. CK.			2/32
PH		—	11.0
SD. CONT.			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
Water			
Gel	75 sxs		
Caustic	100 lbs		
Pellets	200 lbs		

EVENING TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD		
52	STANDS DP	4826.60 FT.	RUN NO	36	37
	SNGLS. DP	FT.	SIZE	12 1/4	12 1/4
	D.C ID		MFG.	See	See
27	D.C OD	771.96 FT.	TYPE	M4N	M4N
	RMR BODY OD	FT.	NOZ. NO.	3	3
	STB BODY OD	FT.	NOZ. SIZE	3/4	3/4
	SUBS OD	7.13 FT.	SER NO	889978	788000
	BIT OR C.B.	FT	DEPTH OUT	5721	
		FT.	CUMULATIVE HOURS RUN	15 1/2	
	KELLY DOWN	16.65 FT.	COND. OF BIT	Dull Chtl	
	TOTAL	5721.65 FT.	REAMER CUTTER NO.		
	WT OF STRING	160 000 LBS.	TYPE		

DRILLER: R Packold

HRS. DRLD.	CORE NO.	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT. ON BIT 1000#	PUMP PRESS	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN
3 1/4		5701	5721		120	45	900	5 1/2	62			

DEVIATION RECORD: DEPTH 5720 DEV. 3° DIRECTION

REMARKS

3 1/4	Drill	4⁰⁰ - 7¹⁵
1/4	Survey	7¹⁵ - 7³⁰
2 1/2	Pull Out	7³⁰ - 10⁰⁰
1/4	Set BOP	10⁰⁰ - 10¹⁵
1 3/4	Run In	10¹⁵ - 12⁰⁰

MUD RECORD

	4	6
TIME		
WEIGHT	10.2	10.2
VISC	75	78
W.L.-C.C.	6.5	
FLTR. CK.	2/32	
PH		10.5
SD. CONT		

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
Gel	14		

C.P.—38 (10/63) **DAILY DRILLING REPORT** REPORT NO. 49 DATE MAY 1/65

OPERATOR: SHELL CANADA LIMITED | LOCATION LSD. SEC. TWP. RGE. W. | WELL NAME: SHELL CROWSNEST | No. 1-46 | PROVINCE: W.W.T.

CONTRACTOR: REGENT DRILLING | RIG No. 6 | DRILL PIPE STRING NO. SIZE: 4 3½" | TOOL JOINT OD | TYPE THD. 4½ H.

OPERATOR'S REPRESENTATIVE: L. Eltinge | CONTRACTOR'S TOOL PUSHER: H. Pounder

PUMPS

NO.	MANUFACTURER	TYPE	STROKE LENGTH
1.	EMSCO	D-700	16
2.	EMSCO	D-700	16
3.			

CASING & LINER RECORD

SIZE	WT. & GR.	DEPTH SET FROM	DEPTH SET TO	PERFORATIONS FROM	PERFORATIONS TO	CEMENT USED	OTHER
13⅜		0	717				

TIME DISTRIBUTION — HOURS

	HORN	DAY	EVE
DRILLING ACTUAL	8	5¾	
REAMING	3		
CIRCULATING			
TRIPS			4¼
DEVIATION SURVEY			¼
TEST B.O.P			¼
CUT OFF DRILL LINE			
REPAIR RIG			
CORING	Sr Rig		¼
WIRE LINE LOGGING		8	
OTHER		2¼	
FISHING			
COMPLITING (A) PERFORATING			
(B) RUNNING TUBING			
(C) SWABBING			
(D) TESTING			
(E) ACIDIZING			
(F) ADDITIONAL			
TOTALS	8	16	

TIME SUMMARY (OFFICE USE ONLY)

CONTRACTOR'S TIME HRS:

OPERATOR'S TIME:

HRS. W/D.P: 23¾

HRS WO/D.P:

HRS STANDBY

WIRE LINE RECORD

REEL NO.

NO. OF LINES SIZE

FEET SLIPPED

FEET CUT OFF

PRESENT LENGTH

TON MI. or TRIPS SINCE LAST CUT

CUMULATIVE TON MI. or TRIPS

NO. OF DAYS FROM SPUD

CUMULATIVE ROTATING HRS.

MORNING TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD	
51	STAN'S DP	4741.66 FT.	RUN NO.	35
	SNGLS. DP	FT.	SIZE	12¼
	24 D.C. 6½ ID		MFG.	SEC
27	3 - 9" OD	771.96 FT.	TYPE	M4N
	RMR BODY OD	FT.	NOZ. NO.	3
	STB BODY OD	FT.	SIZE	3/4
1	SUBS OD	7.13 FT.	SER. NO	8405711
	BIT OR C.B.	FT.	DEPTH OUT	
		FT.	CUMULATIVE HOURS RUN	5
	KELLY DOWN	37 — FT.	COND. OF BIT	Bdly
	TOTAL	FT.	REAMER CUTTER NO.	
WT. OF STRING		LBS.	TYPE	

DRILLER: J. Wilford

HRS. DRLD.	CORE NO.	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT. ON BIT 1000#	PUMP PRESS.	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN
5		5490	5550		120	7	1000	5½	62	5½	62	

DEVIATION RECORD: DEPTH | DEV. | DIRECTION | DEPTH | DEV. | DIRECTION | DEPTH | DEV. | DIRECTION

REMARKS

12 — 3 — Break circ. & ream 300' to Btm (Tight hole)

3 — 8 — Drill

MUD RECORD

	4	6
TIME		
WEIGHT	10.2	10.1
VISC	70	70
W.L.-C.C.		6.4
FLTR. CK.		2/32
PH		10.5
SD. CONT.		

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
WATER			
GEL		3200#	
CAUSTIC		100#	
PECTEX		200#	

DAY TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD	
51	STANDS DP	FT.	RUN NO.	35
2	SNGLS. DP	4804.47 FT.	SIZE	12¼
	ID		MFG.	See
27	D.C. OD	771.96 FT.	TYPE	M4N
	RMR BODY OD	FT.	NOZ. NO	3
	STB BODY OD	FT.	SIZE	3/4
	SUBS OD	7.13 FT.	SER. NO	8405711
	BIT OR C.B.	FT.	DEPTH OUT	5611
		FT.	CUMULATIVE HOURS RUN	10¾
	KELLY DOWN	24.00 FT.	COND. OF BIT	
	TOTAL	5611.56 FT.	REAMER CUTTER NO.	
WT. OF STRING		145,000 LBS.	TYPE	

DRILLER: F. Willoughby

HRS. DRLD.	CORE NO.	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT. ON BIT 1000#	PUMP PRESS.	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN
5¼		5557	5611		80	7	650	5½	52	5½	52	

DEVIATION RECORD: DEPTH | DEV. | DIRECTION | DEPTH | DEV. | DIRECTION | DEPTH | DEV. | DIRECTION

REMARKS

Servicing 8:00 - 8:15

Drill 8:15 - 9:15

Work on #4 motor clutch 9:15 - 9:30

Drill 9:30 - 12:45

Trip Jack rig 12:45 - 1:30

Drill 1:30 - 3:00

Jack rig 3:00 - 4:00

MUD RECORD

	8	10	12
TIME			
WEIGHT	10.2	10.3	10.2
VISC	70	90	82
W.L.-C.C.			
FLTR. CK.			
PH			11.0
SD. CONT.			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
Gel	15 sx		
Caustic	300 lbs.		
Wate			

EVENING TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD	
51	STANDS DP	FT.	RUN NO	36
2	SNGLS. DP	4804.47 FT.	SIZE	12¼
	ID		MFG.	See
27	D.C. OD	771.96 FT.	TYPE	M4N
	RMR BODY OD	FT.	NOZ. NO.	3
	STB BODY OD	FT.	SIZE	3/4
	SUBS OD	7.13 FT.	SER NO	8599778
	BIT OR C.B.	FT	DEPTH OUT	
		FT.	CUMULATIVE HOURS RUN	—
	KELLY DOWN	24.00 FT.	COND. OF BIT	
	TOTAL	5611.56 FT.	REAMER CUTTER NO.	
WT OF STRING		145,000 LBS.	TYPE	

DRILLER: P. Parkhurst

HRS. DRLD.	CORE NO.	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT. ON BIT 1000#	PUMP PRESS	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN
—	—	—	—									

DEVIATION RECORD: DEPTH 5600 | DEV. 4¾ | DIRECTION | DEPTH | DEV | DIRECTION | DEPTH | DEV | DIRECTION

REMARKS

3	Jack Rig + Tune Up #2 pump Drive	4:00 - 7:00
¼	Survey	7:00 - 7:15
3	Pull Out	7:15 - 10:15
½	Sr Rig Check BOP	10:15 - 10:45
1¼	Run in DC's + 1 std Tone pipe Rams	10:45 - 12:00

MUD RECORD

TIME			
WEIGHT			
VISC			
W.L.-C.C.			
FLTR CK.			
PH			
SD. CONT			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

C.P.—38 (10/63) **DAILY DRILLING REPORT** REPORT NO. 48 DATE April 30/65

OPERATOR: SHELL CANADA LIMITED | LOCATION LSD. SEC. TWP. RGE. W. | WELL NAME: SHELL CLOVERLEAF No. 1-46 | PROVINCE: N.W.T.

CONTRACTOR: REGENT DRLG | RIG No. 6 | DRILL PIPE STRING NO. SIZE 4 3½" | TOOL JOINT OD | TYPE THD. 4½

OPERATOR'S REPRESENTATIVE: [signature] | CONTRACTOR'S TOOL PUSHER: [signature]

PUMPS

NO.	MANUFACTURER	TYPE	STROKE LENGTH
1.	EMSCO	D-700	16"
2.	EMSCO	D-500	16"
3.			

CASING & LINER RECORD

SIZE	WT. & GR.	DEPTH SET FROM	DEPTH SET TO	PERFORATIONS FROM	PERFORATIONS TO	CEMENT USED	OTHER
13⅜		0	717				

TIME DISTRIBUTION—HOURS

	MORN	DAY	EVE
DRILLING ACTUAL	8	7¾	4
REAMING			
CIRCULATING			
TRIPS			3½
DEVIATION SURVEY			1/4
TEST B.O.P			1/4
CUT OFF DRILL LINE			
REPAIR RIG			
CORING			
WIRE LINE LOGGING			
OTHER		½	
FISHING			
COMPLETING (A) PERFORATING			
(B) RUNNING TUBING			
(C) SWABBING			
(D) TESTING			
(E) ACIDIZING			
(F) ADDITIONAL			
TOTALS	8	8	8

TIME SUMMARY (OFFICE USE ONLY)

CONTRACTOR'S TIME HRS:

OPERATOR'S TIME:

HRS. W/D.P: 24 hrs

HRS WO/D.P:

HRS STANDBY

WIRE LINE RECORD

REEL NO

NO. OF LINES — SIZE

FEET SLIPPED

FEET CUT OFF

PRESENT LENGTH

TON MI. or TRIPS SINCE LAST CUT

CUMULATIVE TON MI. or TRIPS

NO. OF DAYS FROM SPUD

CUMULATIVE ROTATING HRS.

MORNING TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD	
49	STANDS DP	4554.93 FT.	RUN NO.	34
	SNGLS. DP	FT.	SIZE	12¼
27	19-6½" ID D.C. 3-9" OD	606.66 FT.	MFG.	SEC
	RMR BODY OD	FT.	TYPE	M44N
	STB BODY OD	FT.	NOZ. NO.	3
1	SUBS OD	7.15 FT.	NOZ. SIZE	3/4
	BIT OR C.B.	FT.	SER. NO	836947
		FT.	DEPTH OUT.	
	KELLY DOWN	39 FT.	CUMULATIVE HOURS RUN	14½
	TOTAL	5375.07 FT.	COND. OF BIT	Dull
	WT. OF STRING	148000 LBS.	REAMER CUTTER NO.	
			TYPE	

DRILLER: E. Hibbard

HRS. DRLD.	CORE NO.	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT. ON BIT 1000#	PUMP PRESS.	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN
8		5268	5375		75	75	1150	5½	53	6½	53	

DEVIATION RECORD: DEPTH | DEV. | DIRECTION | DEPTH | DEV. | DIRECTION | DEPTH | DEV. | DIRECTION

REMARKS

12:00 Bit Drlg

MUD RECORD

	12	4	6
TIME	12	4	6
WEIGHT	10.3	10.2	10.0
VISC	80	75	74
W.L.-C.C.			7
FLTR. CK.			2/32
PH			10.0
SD. CONT.			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
WATER			
GEL		3600	

DAY TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD	
50	STANDS DP	4682 FT.	RUN NO.	36
1	SNGLS. DP	FT.	SIZE	12¼
27	ID D.C. - OD	871.96	MFG.	Sec
	RMR BODY OD	FT.	TYPE	M44N
	STB BODY OD	FT.	NOZ. NO	3
1	SUBS OD	7.15 FT.	NOZ. SIZE	3/4
	BIT OR C.B.	FT.	SER. NO.	836947
		FT.	DEPTH OUT	5458
	KELLY DOWN	31.8 FT.	CUMULATIVE HOURS RUN	22¼
	TOTAL	5556.24 FT.	COND. OF BIT	Dull
	WT. OF STRING	145000 LBS.	REAMER CUTTER NO.	
			TYPE	

DRILLER: E. Wiloszyk

HRS. DRLD.	CORE NO.	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT. ON BIT 1000#	PUMP PRESS.	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN
7¾		5373	5458		75	75	1150	5½	53	5½	53	

DEVIATION RECORD: DEPTH | DEV. | DIRECTION | DEPTH | DEV. | DIRECTION | DEPTH | DEV. | DIRECTION

REMARKS

Sew Sing 8:00 - 8:15
Drill 8:15 - 4:00

MUD RECORD

	8	10	2
TIME	8	10	2
WEIGHT	10.2	10.1	10.1
VISC	75	70	78
W.L.-C.C.	6.2		
FLTR. CK.	2/32		
PH	10.5		
SD. CONT.			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
Water			
Gel	25 sx		
Caustic	150 lb		
Pelletex	200 lb		

EVENING TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD	
50	STANDS DP	FT.	RUN NO	34
1	SNGLS. DP	4618.13 FT.	SIZE	12¾
27	24-6½" ID D.C. 3-9" OD	771.98	MFG.	SEC
	RMR BODY OD	FT.	TYPE	M44N
	STB BODY OD	FT.	NOZ. NO.	3
1	SUBS OD	7.43 FT.	NOZ. SIZE	3/4
	BIT OR C.B.	FT	SER. NO	836947
		FT.	DEPTH OUT	5490
	KELLY DOWN	33 FT.	CUMULATIVE HOURS RUN	36¼
	TOTAL	5490.76 FT.	COND. OF BIT	331
	WT. OF STRING	LBS.	REAMER CUTTER NO.	
			TYPE	

DRILLER

HRS. DRLD.	CORE NO.	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT. ON BIT 1000#	PUMP PRESS	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN
4		5458	5490		75	75	1150	5½	53			

DEVIATION RECORD: DEPTH 5480 | DEV. 3½ | DIRECTION | DEPTH | DEV | DIRECTION | DEPTH | DEV | DIRECTION

REMARKS

~~5:00 8:00 Survey~~ Drill
8:00 8:15 Survey
8:15 10:00 Pull out
10:00 10:30 Rig Service & Bop Check
10:30 12:00 Run In

MUD RECORD

	4	6
TIME	4	6
WEIGHT	10.1	10.1
VISC	80	75
W.L.-C.C.	6.4	
FLTR. CK.	2/32	
PH	10.5	
SD. CONT		

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

C.P.-30 (10/63) **DAILY DRILLING REPORT** REPORT NO. 47 DATE April 29/65

OPERATOR: SHELL CANADA LIMITED | LOCATION LSD. 1 SEC. 46 TWP. RGE. W. | WELL NAME: SHELL CLOVERLEAF No. 1-46 | PROVINCE: N.W.T.

CONTRACTOR: REGENT DRILLING | RIG No. 6 | DRILL PIPE STRING NO. SIZE 4½ | TOOL JOINT OD TYPE THD. X-H.

OPERATOR'S REPRESENTATIVE: B. Snook | CONTRACTOR'S TOOL PUSHER: A. Dameshek

PUMPS

NO.	MANUFACTURER	TYPE	STROKE LENGTH
1.	EMSCO	D-700	16"
2.	EMSCO	D-500	16"
3.			

CASING & LINER RECORD

SIZE	WT. & GR.	DEPTH SET FROM	DEPTH SET TO	PERFORATIONS FROM	PERFORATIONS TO	CEMENT USED
		0	717			

TIME DISTRIBUTION — HOURS

	MORN	DAY	EVE
DRILLING ACTUAL	6	6½	
REAMING JOBS		½	½
CIRCULATING			
TRIPS		1½	
DEVIATION SURVEY		½	
TEST B.O.P		½	
CUT OFF DRILL LINE			
REPAIR RIG			
CORING			
WIRE LINE LOGGING			
OTHER	2	1½	
FISHING			
COMPLETING (A) PERFORATING			
(B) RUNNING TUBING			
(C) SWABBING			
(D) TESTING			
(E) ACIDIZING			
(F) ADDITIONAL			
TOTALS	8	8	8

TIME SUMMARY (OFFICE USE ONLY)

CONTRACTOR'S TIME HRS:

OPERATOR'S TIME:

HRS. W/D.P:

HRS W.O/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. TRIPS

NO. OF DAYS FROM SPUD

CUMULATIVE ROTATING HRS.

MORNING TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD	
47	STANDS DP	4369.73 FT.	RUN NO.	33
	SNGLS. DP	FT.	SIZE	12¼
27	24-6⅝ ID D.C. 3-9" OD	626.66 FT.	MFG.	See
	RMR BODY OD	FT.	TYPE	M4N
	STB BODY OD	FT.	NOZ. NO.	3
	SUBS OD	7.13 FT.	NOZ. SIZE	3/4
	BIT OR C.B.	FT.	SER. NO	790340
		FT.	DEPTH OUT	
	KELLY DOWN	16 — FT.	CUMULATIVE HOURS RUN	8½
	TOTAL	5166.9 FT.	COND. OF BIT	1/1/4
WT. OF STRING	LBS.		REAMER CUTTER NO.	
			TYPE	

DRILLER: J. Hibbard

HRS. DRLD.	CORE NO.	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT. ON BIT 1000#	PUMP PRESS.	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN
6		5112	5164		75	75	1000	5½	64	5½	64	

DEVIATION RECORD:

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

REMARKS

12⁰⁰ 6⁰⁰ Drlg.
6⁰⁰ 8⁰⁰ Jack Rig

MUD RECORD

TIME	12⁰⁰		
WEIGHT	10.1	9	
VISC	78	60	
W.L.-C.C.		6.2	
FLTR. CK.		2/32	
PH		11	
SD. CONT.			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE
WATER		
BEL — 2800		

DAY TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD	
47	STANDS DP	4369.73 FT.	RUN NO.	33
	SNGLS. DP	FT.	SIZE	12¼
27	ID D.C. OD	771.96	MFG.	See
	RMR BODY OD	FT.	TYPE	M4N
	STB BODY OD	FT.	NOZ. NO	3
	SUBS OD	7.13 FT.	NOZ. SIZE	3/4
	BIT OR C.B.	FT.	SER. NO.	790340
		FT.	DEPTH OUT	5188
	KELLY DOWN	40 FT.	CUMULATIVE HOURS RUN	12½
	TOTAL	5188 FT.	COND. OF BIT	
WT. OF STRING	145,000 LBS.		REAMER CUTTER NO.	
			TYPE	

DRILLER: E. W. Mougeby

HRS. DRLD.	CORE NO.	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT. ON BIT 1000#	PUMP PRESS.	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN
4		5164	5188		75	75	1150	5½	54	5½	54	

DEVIATION RECORD:

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION
5180	2°							

REMARKS

Trip to Jack Rig 8⁰⁰ — 8³⁰
Drill 8³⁰ — 12³⁰
Survey 12³⁰ - 12⁴⁵
Pull out 12⁴⁵ - 2⁴⁵
Serv. rig & BOPs 2⁴⁵ - 3¹⁵
Run in 3¹⁵ — 4⁰⁰

MUD RECORD

TIME	4	10	12
WEIGHT	9.9	9.9	10.1
VISC	80	75	80
W.L.-C.C.			
FLTR. CK.			
PH			
SD. CONT.			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
with			

EVENING TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD	
48	STANDS DP	FT.	RUN NO	34
1	SNGLS. DP	44.63-52	SIZE	12¼
27	19-6⅝ ID D.C. 3-9" OD	626.66 FT.	MFG.	See
	RMR BODY OD	FT.	TYPE	M4N
	STB BODY OD	FT.	NOZ. NO.	3
1	SUBS OD	7.13 FT.	NOZ. SIZE	3/4
	BIT OR C.B.	FT	SER NO	236987
		FT.	DEPTH OUT	
	KELLY DOWN	26 FT.	CUMULATIVE HOURS RUN	6½
	TOTAL	5268.9 FT.	COND. OF BIT	1/1/4
WT OF STRING	145,000 LBS.		REAMER CUTTER NO.	
			TYPE	

DRILLER

HRS. DRLD.	CORE NO.	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT. ON BIT 1000#	PUMP PRESS	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN
6½		5188	5268		75	75	1150	5½	54	5½	54	

DEVIATION RECORD:

DEPTH	DEV.	DIRECTION	DEPTH	DEV	DIRECTION	DEPTH	DEV	DIRECTION

REMARKS

Run in 4⁰⁰ — 5⁰⁰
Ream to Btm 5⁰⁰ — 5³⁰
Drill 5³⁰ — 12⁰⁰

MUD RECORD

TIME	6⁰⁰	8⁰⁰	10⁰⁰
WEIGHT	10.1	10.4	10.3
VISC	75	70	70
W.L.-C.C.		6.4	
FLTR. CK.		2/32	
PH		11.0	
SD. CONT			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
WATER			
BEL —	600 lb		

KODAK SAFETY ▲ FILM +▲

C.P.-38 (10/63) **DAILY DRILLING REPORT** REPORT NO. 46 DATE APRIL 28/65

OPERATOR: SHELL CANADA LIMITED | CONTRACTOR: RECENT DRILLING | RIG NO. 6 | OPERATOR'S REPRESENTATIVE: B. Lamb | CONTRACTOR'S TOOL PUSHER: H. Dawson

LOCATION LSD. 1 SEC. 46 TWP. RGE. W. | WELL NAME: SHELL CLOUDBERRY No. 1-46 | PROVINCE: N.W.T.

DRILL PIPE STRING NO. SIZE: 2 5" | TOOL JOINT OD: 6 | TYPE THD.: F.H

PUMPS

NO.	MANUFACTURER	TYPE	STROKE LENGTH
1.	EMSCO	D-700	16"
2.	EMSCO	D-500	16"
3.			

CASING & LINER RECORD

SIZE	WT. & GR.	DEPTH SET FROM	DEPTH SET TO	PERFORATIONS FROM	PERFORATIONS TO	CEMENT USED	OTHER
13⅜		0	717				

TIME DISTRIBUTION—HOURS

	MORN	DAY	EVE
DRILLING ACTUAL	7¾	6½	2¼
REAMING			
CIRCULATING			
TRIPS		11¼	4
DEVIATION SURVEY		¼	
TEST B.O.P			1½
CUT OFF DRILL LINE			¾
REPAIR RIG			
CORING			
WIRE LINE LOGGING			
OTHER	1¼		¼
FISHING			
COMPLETING (A) PERFORATING			
(B) RUNNING TUBING			
(C) SWABBING			
(D) TESTING			
(E) ACIDIZING			
(F) ADDITIONAL			
TOTALS	8	18	8

TIME SUMMARY (OFFICE USE ONLY)
CONTRACTOR'S TIME HRS:
OPERATOR'S TIME:
HRS. W/D.P:
HRS W/O D.P:
HRS STANDBY

WIRE LINE RECORD
REEL NO
NO OF LINES SIZE
FEET SLIPPED
FEET CUT OFF
PRESENT LENGTH
TON MI. or TRIPS SINCE LAST CUT
CUMULATIVE TON MI. or TRIPS
NO. OF DAYS FROM SPUD
CUMULATIVE ROTATING HRS.

MORNING TOUR

DRILLING ASSEMBLY

NO.		FT.
47	STANDS DP	
1	SNGLS. DP	44.00.84 FT.
16	9-6½ D.C. ID	
	3-9" OD	626.66 FT.
	RMR BODY OD	FT.
	STB BODY OD	FT.
1	SUBS OD	7.13 FT.
	BIT OR C.B.	FT.
		FT.
	KELLY DOWN	16 — FT.
	TOTAL	5050.63 FT.
	WT. OF STRING	143,000 LBS.

BIT RECORD

RUN NO.	32
SIZE	12¼
MFG.	SEC
TYPE	H7
NOZ. NO.	3
NOZ. SIZE	3/4
SER. NO	753383
DEPTH OUT	
CUMULATIVE HOURS RUN	13½
COND. OF BIT	Dale.
REAMER CUTTER NO.	—
TYPE	

DRILLER: J. Hibbard

HRS. DRLD.	CORE NO.	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT. ON BIT 1000#	PUMP PRESS.	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN
7¾		5002	5050		75	65	1000	5½		5½		

DEVIATION RECORD:

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

REMARKS

12⁰⁰ 12³⁰ RIG SERVICE
12³⁰ 8⁰⁰ DRILL

MUD RECORD

TIME	12⁰⁰	4⁰⁰	6⁰⁰
WEIGHT	10.	10.	10.
VISC	38	38	40
W.L.-C.C.			
FLTR. CK.			6/32
PH			10.0
SD. CONT.			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
GEL	90 SAXS		
FILTER	600#		
CAUSTIC	200#		

DAY TOUR

DRILLING ASSEMBLY

NO.		FT.
47	STANDS DP	
2	SNGLS. DP	44.32.42
22	D.C. ID	
	OD	626.66
	RMR BODY OD	FT.
	STB BODY OD	FT.
1	SUBS OD	7.13 FT.
	BIT OR C.B.	FT.
		FT.
	KELLY DOWN	15 FT.
	TOTAL	5081 FT.
	WT. OF STRING	143,000 LBS.

BIT RECORD

RUN NO.	32
SIZE	12¼
MFG.	SEC
TYPE	H7
NOZ. NO	3
NOZ. SIZE	3/4
SER. NO.	753383
DEPTH OUT	5081
CUMULATIVE HOURS RUN	20
COND. OF BIT	2 3 1
REAMER CUTTER NO.	
TYPE	

DRILLER: L. Willoughby

HRS. DRLD.	CORE NO.	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT. ON BIT 1000#	PUMP PRESS.	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN
6½		5050	5081		70	65	1600	5½	64	5½	64	

DEVIATION RECORD:

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION
5080	3¾							

REMARKS

Drill 4⁰⁰ - 2³⁰
Survey 2³⁰ - 2⁴⁵
Pull out. 2⁴⁵ - 4⁰⁰

MUD RECORD

TIME	8	10	12
WEIGHT	9.9	9.9	9.9
VISC	41	42	55
W.L.-C.C.			
FLTR. CK.			
PH			
SD. CONT.			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
Gel.	70 sacs		

EVENING TOUR

DRILLING ASSEMBLY

NO.		FT.
46	STANDS DP	
1	SNGLS. DP	43.07.28
22	9¼-6½ D.C.	
	3-9" OD	771.96
	RMR BODY OD	FT.
	STB BODY OD	FT.
1	SUBS OD	7.13 FT.
	BIT OR C.B.	FT
		FT.
	KELLY DOWN	26 FT.
	TOTAL	5112.36 FT.
	WT OF STRING	145,000 LBS.

BIT RECORD

RUN NO	33
SIZE	12¼
MFG.	SEC
TYPE	M44D
NOZ. NO.	3
NOZ. SIZE	3/4
SER NO	790340
DEPTH OUT	
CUMULATIVE HOURS RUN	21½
COND. OF BIT	2 4 1
REAMER CUTTER NO.	
TYPE	

DRILLER

HRS. DRLD.	CORE NO.	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT. ON BIT 1000#	PUMP PRESS	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN
2½		5081	5112		110	70	1000	5½	64	5½	64	

DEVIATION RECORD:

DEPTH	DEV.	DIRECTION	DEPTH	DEV	DIRECTION	DEPTH	DEV	DIRECTION

REMARKS

Pull out. 4⁰⁰ - 4³⁰
Serv. rig & BOP. 4³⁰ - 5¹⁵
Run in D.C.'s pick up 5082 5¹⁵ - 7¹⁵
Slip & cut line 7⁴⁵ - 8⁰⁰
Run In — 8⁰⁰ 9¹⁵
Break circ & clean to btm - 9¹⁵ 9⁴⁰
Drill — 9³⁰ 12⁰⁰

MUD RECORD

TIME	00		
WEIGHT	10.1		
VISC	78		
W.L.-C.C.			
FLTR CK.			
PH			
SD. CONT			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
WATER			

C.P.—38 (TD/63) **DAILY DRILLING REPORT** REPORT NO. 45 DATE April 27 '65

OPERATOR: SHELL CANADA LIMITED | LOCATION LSD. SEC. TWP. RGE. W. | WELL NAME: Shell Cloverleaf No. 1-46 | PROVINCE: N.W.T.

CONTRACTOR: Regent Drilling | RIG No. 6 | DRILL PIPE STRING NO. SIZE: 2 4½ | TOOL JOINT OD TYPE THD: XH

OPERATOR'S REPRESENTATIVE: [illegible] | CONTRACTOR'S TOOL PUSHER: [illegible]

PUMPS

NO.	MANUFACTURER	TYPE	STROKE LENGTH
1.	Emsco	D700	16"
2.	Emsco	D500	16"
3.			

CASING & LINER RECORD

SIZE	WT. & GR.	DEPTH SET FROM	DEPTH SET TO	PERFORATIONS FROM	PERFORATIONS TO	CEMENT USED	OTHER
		0	717				

TIME DISTRIBUTION—HOURS

	MORN	DAY	EVE
DRILLING ACTUAL	9	5½	3¼
REAMING			1/4
CIRCULATING			1/4
TRIPS		2	1½
DEVIATION SURVEY		1/4	
TEST B.O.P			½
CUT OFF DRILL LINE			
REPAIR RIG			
CORING			
WIRE LINE LOGGING			
OTHER		1/4	
FISHING			
COMPLETING (A) PERFORATING			
(B) RUNNING TUBING			
(C) SWABBING			
(D) TESTING			
(E) ACIDIZING			
(F) ADDITIONAL			
TOTALS	9	8	7

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. or TRIPS SINCE LAST CUT

CUMULATIVE TON MI. or TRIPS

NO. OF DAYS FROM SPUD

CUMULATIVE ROTATING HRS.

MORNING TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD	
46	STANDS DP	4275.87 FT.	RUN NO.	31
	SNGLS. DP	FT.	SIZE	12¼
	D.C. ID		MFG.	Sec.
22	D.C. OD	626.66 FT.	TYPE	H7
	RMR BODY OD	FT.	NOZ. NO.	3
	STB BODY OD	FT.	NOZ. SIZE	3/4
1	SUBS OD	7.13 FT.	SER. NO.	752913
	BIT OR C.B.	FT.	DEPTH OUT	
		FT.	CUMULATIVE HOURS RUN	13¼
	KELLY DOWN	17 FT.	COND. OF BIT	
	TOTAL	4926.66	REAMER CUTTER NO.	
	WT. OF STRING	130,000 LBS.	TYPE	

DRILLER: E. Willoughby

HRS. DRLD.	CORE NO.	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT. ON BIT 1000#	PUMP PRESS.	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN
8		4879	4926		60	70	1000	5½	62	5½	62	

DEVIATION RECORD: DEPTH | DEV. | DIRECTION | DEPTH | DEV. | DIRECTION | DEPTH | DEV. | DIRECTION

REMARKS

Dirl 12⁰⁰ – 8⁰⁰

MUD RECORD

	2	4	6
TIME			
WEIGHT	10.3	10.2	10.2
VISC	75	90	94
W.L.-C.C.			7.2
FLTR. CK.			3/32
PH			11.4
SD. CONT.			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
Water			
Caustic	3 Lbs		
Lettuce	50 Lbs		

DAY TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD	
46	STANDS DP	FT.	RUN NO.	31
1	SNGLS. DP	43.07.27	SIZE	12¼
	19-6½ ID D.C.		MFG.	SEC
22	3-9" OD	626.66 FT.	TYPE	H-7
	RMR BODY OD	FT.	NOZ. NO	3
	STB BODY OD	FT.	NOZ. SIZE	3/4
1	SUBS OD	7.13 FT.	SER. NO.	752913
	BIT OR C.B.	FT.	DEPTH OUT	4958
		FT.	CUMULATIVE HOURS RUN	18¾
	KELLY DOWN	17 FT.	COND. OF BIT	
	TOTAL	4958.06 FT.	REAMER CUTTER NO.	
	WT. OF STRING	130,000 LBS.	TYPE	

DRILLER: E. Hilford

HRS. DRLD.	CORE NO.	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT. ON BIT 1000#	PUMP PRESS.	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN
5½		4926	4958		75	60	1000	5½	68	5½	62	

DEVIATION RECORD: DEPTH 4950 | DEV. 3¼ | DIRECTION | DEPTH | DEV. | DIRECTION | DEPTH | DEV. | DIRECTION

REMARKS

8⁰⁰ – 8¹⁵ Rig Service
8¹⁵ – 1⁰⁰ Drlg
1⁰⁰ – 2⁰⁰ Survey
2⁰⁰ – 4⁰⁰ Pull Out
4⁰⁰ – 5³⁰ Log Dip & BHCS
5³⁰ – 6⁰⁰ Run in
6⁰⁰ – 6¹⁵ Clean Flr Bkts.
6¹⁵ – Drill

MUD RECORD

	8	10	12
TIME			
WEIGHT	10.3	10.3	10.3
VISC	74	70	70
W.L.-C.C.			
FLTR. CK.			
PH			
SD. CONT.			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

EVENING TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD	
46	STANDS DP	FT.	RUN NO	32
2	SNGLS. DP	43.37.79	SIZE	12¼
	D.C ID		MFG.	Sec
22	D.C OD	626.66 FT.	TYPE	H7
	RMR BODY OD	FT.	NOZ. NO.	3
	STB BODY OD	FT.	NOZ. SIZE	3/4
	SUBS OD	7.13 FT.	SER NO	753383
	BIT OR C.B.	FT	DEPTH OUT	
		FT.	CUMULATIVE HOURS RUN	
	KELLY DOWN	FT.	COND. OF BIT	
	TOTAL	5002.52 FT.	REAMER CUTTER NO.	
	WT OF STRING	140,000 LBS.	TYPE	

DRILLER: E. Willoughby

HRS. DRLD.	CORE NO.	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT. ON BIT 1000#	PUMP PRESS	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN
5¾		4958	5002		70	65	1000	5½	64	5½	64	

DEVIATION RECORD: DEPTH | DEV. | DIRECTION | DEPTH | DEV | DIRECTION | DEPTH | DEV | DIRECTION

REMARKS

Log Dip & BHCS 4⁰⁰ – 4³⁰
Run in 4³⁰ – 6⁰⁰
Clean Flr Bkts 6⁰⁰ – 6¹⁵
Drill 6¹⁵ – 12⁰⁰

MUD RECORD

		8	10
TIME			
WEIGHT		10.0	10.0
VISC		75	50
W.L.-C.C.			4.0
FLTR. CK.			3/32
PH			11.4
SD. CONT			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
Water			
Caustic	1 Gallon		

C.P.—38 (12/63)

DAILY DRILLING REPORT

REPORT NO. 44 DATE April 26/67

OPERATOR: SHELL CANADA LIMITED

LOCATION LSD. SEC. TWP. RGE. W.

WELL NAME: Shell Clover Leaf. No. 1-46

PROVINCE: N.W.T.

CONTRACTOR: Regent Drilling RIG No. 6

DRILL PIPE STRING NO. SIZE: TOOL JOINT OD: TYPE THD X H

OPERATOR'S REPRESENTATIVE: W.S. Lumbers

CONTRACTOR'S TOOL PUSHER: H. Pomeroy

PUMPS

NO.	MANUFACTURER	TYPE	STROKE LENGTH
1.	Emsco	D700	16"
2.	Emsco	D500	16"
3.			

CASING & LINER RECORD

SIZE	WT. & GR.	DEPTH SET FROM	DEPTH SET TO	PERFORATIONS FROM	PERFORATIONS TO	CEMENT USED	OTHER
		0	717				

MORNING TOUR

TIME DISTRIBUTION—HOURS

	MORN	DAY	EVE
DRILLING ACTUAL	6¾	2¼	
REAMING	¼		
CIRCULATING			
TRIPS	1	8½	
DEVIATION SURVEY		¼	
TEST B.O.P.		¼	
CUT OFF DRILL LINE			
REPAIR RIG		3¾	
CORING			
WIRE LINE LOGGING			
OTHER			
FISHING			
COMPLETING (A) PERFORATING			
(B) RUNNING TUBING			
(C) SWABBING			
(D) TESTING			
(E) ACIDIZING			
(F) ADDITIONAL			
TOTALS	2	22	

DRILLING ASSEMBLY

NO.			
45	STANDS DP	4183.82	FT.
	SNGLS. DP		FT.
22	D.C. 19-6½ OD 3-9 OD	626.66	FT.
	RMR BODY OD		FT.
	STB BODY OD		FT.
1	SUBS OD	7.13	FT.
	BIT OR C.B.		FT.
			FT.
	KELLY DOWN	17.05	FT.
	TOTAL	4834.67	FT.
	WT. OF STRING	120,500	LBS.

DRILLER: E. Willoughby

BIT RECORD

RUN NO.	30
SIZE	12¼
MFG.	Reed
TYPE	YTL
NOZ. NO.	3
NOZ. SIZE	3/4
SER. NO	E84572
DEPTH OUT	
CUMULATIVE HOURS RUN	
COND. OF BIT	
REAMER CUTTER NO.	
TYPE	

HRS. DRLD.	CORE NO.	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT. ON BIT 1000#	PUMP PRESS.	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN
6¼		4776	4834		80-90	60	900	6½		5½		

DEVIATION RECORD:

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

REMARKS

12-1500 Ream in
1500-1515 Clean Sump
1515-2400 Drill

MUD RECORD

TIME	2	4	6
WEIGHT	10.3	10.3	10.3
VISC	190	120	115
W.L.-C.C.			63
FLTR. CK.			2/32
PH			10.5
SD. CONT.			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
Water			

DAY TOUR

DRILLING ASSEMBLY

NO.			
45	STANDS DP	4103.82	FT.
	SNGLS. DP		FT.
	D.C. ID 19-6½ OD		FT.
22	RMR BODY 9" OD	626.66	FT.
	STB BODY OD		FT.
	SUBS OD		FT.
	BIT OR C.B.	7.13	FT.
			FT.
	KELLY DOWN		FT.
	TOTAL	26	FT.
	WT. OF STRING	4843.61	LBS.

DRILLER: J. Redford

BIT RECORD

RUN NO.	30	31
SIZE	12¼	12¼
MFG.	REED	SEC
TYPE	YTL	H7
NOZ. NO.	3	3
NOZ. SIZE	3/4	3/4
SER. NO.	E84572	752913
DEPTH OUT	4843	
CUMULATIVE HOURS RUN	9	
COND. OF BIT	332	
REAMER CUTTER NO.		
TYPE		

HRS. DRLD.	CORE NO.	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT. ON BIT 1000#	PUMP PRESS.	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN
2¼		4834	4843		90	60	1200	8½	60	5½	60	

DEVIATION RECORD:

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION
4835	¾							

REMARKS

9⁰⁰ 9¼ R16 SERVICE & WORK ON OIL LINES TO POMPOOND
9¼ 11½ DRILL
11½ 12⁰⁰ REPAIR PUMP DRIVE
12⁰⁰ 18⁰⁰ DRILL
18⁰⁰ 19⁰⁰ SURVEY
19⁰⁰ 3⁰⁰ PULL OUT
3⁰⁰ 3³⁰ BOP CHECK & WORK ON CIRCULATING PUMP
3³⁰ 4⁰⁰ RUN IN

MUD RECORD

TIME			
WEIGHT			
VISC			
W.L.-C.C.			
FLTR. CK.			
PH			
SD. CONT.			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
Lignite	400 lbs		
Pellets	200 lbs		

EVENING TOUR

DRILLING ASSEMBLY

NO.			
45	STANDS DP		FT.
2	SNGLS. DP	4214.25	FT.
	D.C. ID		
22	OD	626.66	FT.
	RMR BODY OD		FT.
	STB BODY OD		FT.
	SUBS OD	7.13	FT.
	BIT OR C.B.		FT.
			FT.
	KELLY DOWN	31.05	FT.
	TOTAL	4879.09	FT.
	WT OF STRING	130,000	LBS.

DRILLER: E. Willoughby

BIT RECORD

RUN NO	31
SIZE	12¼
MFG.	SEC
TYPE	H7
NOZ. NO.	3
NOZ. SIZE	3/4
SER NO	752913
DEPTH OUT	
CUMULATIVE HOURS RUN	
COND. OF BIT	
REAMER CUTTER NO.	
TYPE	

HRS. DRLD.	CORE NO.	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT. ON BIT 1000#	PUMP PRESS	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN
5¼		4843	4879		70	60	1600	8½	63	5½	63	

DEVIATION RECORD:

DEPTH	DEV.	DIRECTION	DEPTH	DEV	DIRECTION	DEPTH	DEV	DIRECTION

REMARKS

4⁰⁰ 5⁴⁵ RUN IN
5⁴⁵ 6⁴⁵ REPAIR CHAIN IN DWKS.
6⁴⁵ 12⁰⁰ DRILL

MUD RECORD

TIME	4	6	10
WEIGHT	10.3	10.3	10.3
VISC	130	130	125
W.L.-C.C.			
FLTR CK.			
PH			
SD. CONT			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
water			
Lignite	300 lbs		
Pellets	300 lbs		

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. or TRIPS SINCE LAST CUT	
CUMULATIVE TON MI. or TRIPS	
NO. OF DAYS FROM SPUD	
CUMULATIVE ROTATING HRS.	

C.P.—38 (10/63) **DAILY DRILLING REPORT** REPORT NO. 43 DATE April 25, 1965

OPERATOR: SHELL CANADA LIMITED
LOCATION LSD. SEC. TWP. RGE. W.
WELL NAME: Shell Cloverleaf No. 1-46
PROVINCE: N W T
CONTRACTOR: Regent Drilling Ltd. RIG No. 6
DRILL PIPE STRING NO. SIZE
TOOL JOINT OD TYPE THD. XH
OPERATOR'S REPRESENTATIVE: W B Cunningham
CONTRACTOR'S TOOL PUSHER: H Ramsden

PUMPS

NO.	MANUFACTURER	TYPE	STROKE LENGTH
1.	Emsco	D700	16
2.	Emsco	D500	16
3.			

CASING & LINER RECORD

SIZE	WT. & GR.	DEPTH SET FROM	DEPTH SET TO	PERFORATIONS FROM	PERFORATIONS TO	CEMENT USED	OTHER
		0	717				

TIME DISTRIBUTION—HOURS

	MORN	DAY	EVE
DRILLING ACTUAL	8	6¼	2
REAMING			
CIRCULATING			
TRIPS			4
DEVIATION SURVEY			½
TEST B.O.P			½
CUT OFF DRILL LINE			
REPAIR RIG			1
CORING			
WIRE LINE LOGGING			
OT...2			
FISHING			
COMPLETING (A) PERFORATING			
(B) RUNNING TUBING			
(C) SWABBING			
(D) TESTING			
(E) ACIDIZING			
(F) ADDITIONAL			
TOTALS	8		8

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. or TRIPS SINCE LAST CUT
CUMULATIVE TON MI. or TRIPS
NO. OF DAYS FROM SPUD
CUMULATIVE ROTATING HRS.

MORNING TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD	
43	STANDS DP	2996.36 FT.	RUN NO.	29
	SNGLS. DP	FT.	SIZE	12¼
	D.C. ID		MFG.	REED
22	D.C. OD	626.66 FT.	TYPE	YT1
	RMR BODY OD	FT.	NOZ. NO.	3
	STB BODY OD	7.13 FT.	NOZ. SIZE	3/4
	SUBS OD	FT.	SER. NO	E84573
	BIT OR C.B.	FT.	DEPTH OUT	
		FT.	CUMULATIVE HOURS RUN	10½
	KELLY DOWN	FT.	COND. OF BIT	
	TOTAL	4666.15 FT.	REAMER CUTTER NO.	
	WT. OF STRING	LBS.	TYPE	

DRILLER: R Peckold

HRS. DRLD.	CORE NO.	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT. ON BIT 1000#	PUMP PRESS.	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN
8		4576	4666		120	40	900	6½	70			

DEVIATION RECORD: DEPTH 4550 DEV. 2½° DIRECTION

REMARKS
8 Drill 12⁰⁰ 8⁰⁰

MUD RECORD

	2	4	6
TIME			
WEIGHT	10.3	10.3	10.3
VISC	130	115	110
W.L.-C.C.			
FLTR. CK.			
PH		10.5	
SD. CONT.			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
Caustic	200#		

DAY TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD	
	STANDS DP	FT.	RUN NO.	29
	SNGLS. DP	FT.	SIZE	12¼
	D.C. 19-6½ ID		MFG.	REED
22	D.C. 3-9" OD	626.66 FT.	TYPE	YT1
	RMR BODY OD	FT.	NOZ. NO.	3
	STB BODY OD	FT.	NOZ. SIZE	3/4
1	SUBS OD	7.13 FT.	SER. NO.	E84573
	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: J. Hibbard

HRS. DRLD.	CORE NO.	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT. ON BIT 1000#	PUMP PRESS.	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN
6¼		4666	4755		120	40	900	6½	70			

DEVIATION RECORD: DEPTH DEV. DIRECTION

REMARKS
8⁰⁰ 8⁵ Rig Service — ¼
8¼ 9³⁰ Drill — 1¼
10¹² Work on motors — ¾
Drill — ¾
Replace torque — ½
Drill — 2¼
Motors in & bolt shake — ¼
2

MUD RECORD

	8⁰⁰	12⁰⁰	2⁰⁰
TIME			
WEIGHT	10.5	10.4	10.4
VISC	98	127	120
W.L.-C.C.			
FLTR. CK.			
PH			
SD. CONT.			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
WATER	—		
CAUSTIC	— 700#		
PELTEX	— 1200#		

EVENING TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD	
44	STANDS DP	FT.	RUN NO	29
1	SNGLS. DP	4721.76 FT.	SIZE	12¼
	D.C. 6½ ID		MFG.	REED
22	D.C. 3-9" OD	626.66 FT.	TYPE	YT1
	RMR BODY OD	FT.	NOZ. NO.	3
	STB BODY OD	FT.	NOZ. SIZE	3/4
1	SUBS OD	7.13 FT.	SER. NO	E84573
	BIT OR C.B.	FT	DEPTH OUT	4776
		FT.	CUMULATIVE HOURS RUN	18¾
	KELLY DOWN	21.0 FT.	COND. OF BIT	
	TOTAL	4776.49	REAMER CUTTER NO.	
	WT OF STRING	130 LBS.	TYPE	

DRILLER

HRS. DRLD.	CORE NO.	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT. ON BIT 1000#	PUMP PRESS	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN
2		4755	4776									

DEVIATION RECORD: DEPTH DEV. DIRECTION

REMARKS
6⁰⁰
6⁰⁰ 6³² Survey
6³² 11³⁰ Pull out 6 stds. Work on compound shifter
11³⁰ 12⁰⁰ Tuning BOPS

MUD RECORD

TIME			
WEIGHT			
VISC			
W.L.-C.C.			
FLTR. CK.			
PH			
SD. CONT			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
CAUSTIC	— 300		
PELTEX	— 500		

C-P—38 (10/63) **DAILY DRILLING REPORT** REPORT NO. 42 DATE April 24 1965

OPERATOR: SHELL CANADA LIMITED | LOCATION LSD. SEC. TWP. RGE. W. | WELL NAME: Shell Bearberry No. 1-46 | PROVINCE: N W T

CONTRACTOR: Regent Drilling Ltd RIG No. 6 | DRILL PIPE STRING NO. SIZE | TOOL JOINT OD | TYPE TMD.

OPERATOR'S REPRESENTATIVE | CONTRACTOR'S TOOL PUSHER: L. Lamoureux

PUMPS

NO.	MANUFACTURER	TYPE	STROKE LENGTH
1.	Emsco	D700	16
2.	Emsco	D500	16
3.			

CASING & LINER RECORD

SIZE	WT. & GR.	DEPTH SET FROM	DEPTH SET TO	PERFORATIONS FROM	PERFORATIONS TO	CEMENT USED	OTHER
12¾		0	717			700	

TIME DISTRIBUTION—HOURS

	MORN	DAY	EVE
DRILLING ACTUAL	8	7¾	2½
REAMING			1
CIRCULATING			
TRIPS			3½
DEVIATION SURVEY			½
TEST B.O.P			½
CUT OFF DRILL LINE			
REPAIR RIG			
CORING			
WIRE LINE LOGGING			
OTHER		¼	
FISHING			
COMPLETING (A) PERFORATING			
(B) RUNNING TUBING			
(C) SWABBING			
(D) TESTING			
(E) ACIDIZING			
(F) ADDITIONAL			
TOTALS	8	8	8

TIME SUMMARY (OFFICE USE ONLY)

CONTRACTOR'S TIME HRS:

OPERATOR'S TIME:

HRS. W/D.P:

HRS W/O D.P:

HRS STANDBY

WIRE LINE RECORD

REEL NO

NO OF LINES SIZE

FEET SLIPPED

FEET CUT OFF

PRESENT LENGTH

TON MI. or TRIPS SINCE LAST CUT

CUMULATIVE TON MI. or TRIPS

NO. OF DAYS FROM SPUD

CUMULATIVE ROTATING HRS.

MORNING TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD	
40	STANDS DP	FT.	RUN NO.	28
2	SNGLS. DP	27[illegible].61 FT.	SIZE	12¼
	D.C. ID		MFG.	SEC
22	D.C. OD	626.68 FT.	TYPE	S6
	RMR BODY OD	FT.	NOZ. NO.	3
	STB BODY OD	FT.	NOZ. SIZE	¾
	SUBS OD	7.13 FT.	SER. NO	[illegible]5610
	BIT OR C.B.	FT.	DEPTH OUT	
		FT.	CUMULATIVE HOURS RUN	13
	KELLY DOWN	32.00 FT.	COND. OF BIT	
	TOTAL	4444.48	REAMER CUTTER NO.	
	WT. OF STRING	140,000 LBS.	TYPE	

DRILLER: R. Pacholek

HRS. DRLD.	CORE NO.	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT. ON BIT 1000#	PUMP PRESS.	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN
8		4336	4444		120	40	1900	6½	70			

DEVIATION RECORD: DEPTH 4250 DEV. 3° DIRECTION

REMARKS

8 DRILL 12:00 - 8:00

MUD RECORD

	2	4	6
TIME			
WEIGHT	10.4	10.4	10.4
VISC	74	80	82
W.L.-C.C.		6.0	
FLTR. CK.			
PH		10.5	
SD. CONT.			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
Peltex	400#		
Caustic	200#		

DAY TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD	
64	STANDS DP	3901.61 FT.	RUN NO.	28
	SNGLS. DP	FT.	SIZE	12¼
	19-6½ D.C. ID		MFG.	SEC
22	3-9" D.C. OD	626.66 FT.	TYPE	S6
	RMR BODY OD	FT.	NOZ. NO	3
	STB BODY OD	FT.	NOZ. SIZE	¾
1	SUBS OD	7.13 FT.	SER. NO.	74[illegible]5630
	BIT OR C.B.	FT.	DEPTH OUT	4551
		FT.	CUMULATIVE HOURS RUN	20¾
	KELLY DOWN	FT.	COND. OF BIT	2 2 2 1
	TOTAL	FT.	REAMER CUTTER NO.	
	WT. OF STRING	LBS.	TYPE	

DRILLER: J. Hubbard

HRS. DRLD.	CORE NO.	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT. ON BIT 1000#	PUMP PRESS.	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN
7¾		4444	4551		120	40	950	6½				

DEVIATION RECORD: DEPTH DEV. DIRECTION

REMARKS

8[illegible] 8[illegible] RIG SERVICE — ¼

9[illegible] 4[illegible] TRIP — 7¾

MUD RECORD

	8[illegible]	10[illegible]	2[illegible]
TIME			
WEIGHT	10-4	10-4	10-4
VISC	90	90	105
W.L.-C.C.			
FLTR. CK.			
PH			
SD. CONT.			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
WATER			
GEL —	2800#		
PELTEX —	550#		
CAUSTIC —	100#		

EVENING TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD	
44	STANDS DP	3901.61 FT.	RUN NO	29
	SNGLS. DP	FT.	SIZE	12¼
	D.C ID		MFG.	REED
22	D.C OD	626.66 FT.	TYPE	HT6
	RMR BODY OD	FT.	NOZ. NO.	3
	STB BODY OD	7.13 FT.	NOZ. SIZE	¾
	SUBS OD	FT.	SER NO	684573
	BIT OR C.B.	FT	DEPTH OUT	
		FT.	CUMULATIVE HOURS RUN	2½
	KELLY DOWN	11.03 FT.	COND. OF BIT	
	TOTAL	4576.40 FT.	REAMER CUTTER NO.	
	WT OF STRING	140,000 LBS.	TYPE	

DRILLER: R. Pacholek

HRS. DRLD.	CORE NO.	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT. ON BIT 1000#	PUMP PRESS	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN
2½		4551	4576		120	40	900	6½	70			

DEVIATION RECORD: DEPTH 4550 DEV. 2½ DIRECTION

REMARKS

4[illegible] 4[illegible] SURVEY

4[illegible] 6[illegible] POH OUT

6[illegible] 7[illegible] RIG SERVICE & BOP CHECK

7[illegible] 9[illegible] RIH

9[illegible] 9[illegible] Ream Bridge @ 4300 - Clean to Btm

9[illegible] 12[illegible] Drill

MUD RECORD

TIME			
WEIGHT			
VISC			
W.L.-C.C.			
FLTR. CK.			
PH			
SD. CONT			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
Peltex	400		

C.P.—38 (10/63) **DAILY DRILLING REPORT** REPORT NO. 41 DATE April 23, 1965

OPERATOR: SHELL CANADA LIMITED
CONTRACTOR: Frontier Drilling Ltd. RIG No. 6
OPERATOR'S REPRESENTATIVE: R B Condon
CONTRACTOR'S TOOL PUSHER: L Burnside

LOCATION LSD. SEC. TWP. RGE. W.
WELL NAME: Shell Cloverdale No. 1-46
PROVINCE: N W T

DRILL PIPE STRING NO. SIZE: 4½
TOOL JOINT: 6¼ OD
TYPE THD. XH

PUMPS

NO.	MANUFACTURER	TYPE	STROKE LENGTH
1.	Emsco	D 700	16
2.	Emsco	D 500	16
3.			

CASING & LINER RECORD

	SIZE	WT. & GR.	DEPTH SET FROM	DEPTH SET TO	PERFORATIONS FROM	PERFORATIONS TO	CEMENT USED	OTHER

TIME DISTRIBUTION—HOURS

	MORN	DAY	EVE
DRILLING ACTUAL	7	13¾	4
REAMING Work Tight Hole			
CIRCULATING		½	
TRIPS		3¾	¾
DEVIATION SURVEY		1¼	
TEST B.O.P		½	1¼
CUT OFF DRILL LINE			
REPAIR RIG			
CORING			
WIRE LINE LOGGING			
OTHER			
FISHING			
COMPLETING (A) PERFORATING			
(B) RUNNING TUBING			
(C) SWABBING			
(D) TESTING			
(E) ACIDIZING			
(F) ADDITIONAL			
TOTALS	8	8	8

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. or TRIPS SINCE LAST CUT
CUMULATIVE TON MI. or TRIPS
NO. OF DAYS FROM SPUD
CUMULATIVE ROTATING HRS.

MORNING TOUR

NO.	DRILLING ASSEMBLY	FT.
38	STANDS DP	
1	SNGLS. DP	3565.99
	D.C. ID	
22	D.C. OD 6½	626.66
	RMR BODY OD	
	STB BODY OD	
	SUBS OD	7.13
	BIT OR C.B.	
	KELLY DOWN	39.00
	TOTAL	4238.78
	WT. OF STRING	116,000 LBS.

DRILLER: L Pachalek

BIT RECORD

RUN NO.	27
SIZE	12¼
MFG.	See
TYPE	S3
NOZ. NO.	3
NOZ. SIZE	3/4
SER. NO	245273
DEPTH OUT	
CUMULATIVE HOURS RUN	
COND. OF BIT	
REAMER CUTTER NO.	
TYPE	

HRS. DRLD.	CORE NO.	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT. ON BIT 1000#	PUMP PRESS.	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN
7		4120	4238		120	40	900		75			

DEVIATION RECORD:

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

REMARKS

1	Drill	12⁰⁰ - 1⁰⁰
½	Work tight hole	1⁰⁰ 1³⁰
2¾	Drill	1³⁰ 4¹⁵
½	Work tight hole	4¹⁵ - 4⁴⁵
3¼	Drill	4⁴⁵ 8⁰⁰

MUD RECORD

	2	4	6
TIME			
WEIGHT	10.3	10.3	10.3
VISC	67	66	65
W.L.-C.C.			
FLTR. CK.			
PH			
SD. CONT.			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

DAY TOUR

NO.	DRILLING ASSEMBLY	FT.
38	STANDS DP	
9	SNGLS. DP	3596.44
19	D.C. ID 6½"	
22	D.C. OD 9"	636.66
	RMR BODY OD	
	STB BODY OD	7.13
	SUBS OD	
	BIT OR C.B.	
	KELLY DOWN	30.
	TOTAL	4260.23
	WT. OF STRING	120,000 LBS.

DRILLER: J - Hibbard

BIT RECORD

RUN NO.	27
SIZE	12¼
MFG.	SEC
TYPE	S3
NOZ. NO.	3
NOZ. SIZE	3/4
SER. NO.	147817
DEPTH OUT	4260
CUMULATIVE HOURS RUN	17
COND. OF BIT	231
REAMER CUTTER NO.	
TYPE	

HRS. DRLD.	CORE NO.	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT. ON BIT 1000#	PUMP PRESS.	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN
1¾		4238	4260		120	40	900	6½				

DEVIATION RECORD:

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION
4259	3°							

REMARKS

8⁰⁰	8²⁵	Rig Service — ¼
8¹²	10⁰⁰	Drill — 1¾
10⁰⁰	10³⁰	Circ & Work Pipe For Survey — ½
10³⁰	10⁴⁵	Survey — ¼
10⁴⁵	1³⁰	Pull Out (Tight) — 2¾
1³⁰	3⁰⁰	Drop Check & Leaks Suction Tank — 1½
3⁰⁰	4⁰⁰	Run In — 1

MUD RECORD

	8	10	
TIME			
WEIGHT	10.4	10.4	
VISC	57	80	
W.L.-C.C.			
FLTR. CK.			
PH			
SD. CONT.			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
Gel	1600#		

EVENING TOUR

NO.	DRILLING ASSEMBLY	FT.
39	STANDS DP	
2	SNGLS. DP	3486.52
	D.C. ID	
22	D.C. OD	626.66
	RMR BODY OD	
	STB BODY OD	2.13
	SUBS OD	
	BIT OR C.B.	
	KELLY DOWN	16.00
	TOTAL	4336.31
	WT OF STRING	140,000 LBS.

DRILLER: L Pachalek

BIT RECORD

RUN NO	28
SIZE	12¼
MFG.	SEC
TYPE	S1
NOZ. NO.	3
NOZ. SIZE	3/4
SER. NO	145670
DEPTH OUT	
CUMULATIVE HOURS RUN	5
COND. OF BIT	
REAMER CUTTER NO.	
TYPE	

HRS. DRLD.	CORE NO.	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT. ON BIT 1000#	PUMP PRESS	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN
5		4260	4336		120	40	900	6½	70			

DEVIATION RECORD:

DEPTH	DEV.	DIRECTION	DEPTH	DEV	DIRECTION	DEPTH	DEV	DIRECTION

REMARKS

4⁰⁰	4⁴⁵	Run In — 2¾
4⁴⁵	6¹²	Ream 250' Tight Hole To Btm — ½
6¹²	9⁰⁰	Drill — 2¾
9⁰⁰	9³⁰	Circ Tight Hole — ½
9³⁰	9⁴⁵	Ser & BOP — ¼
9⁴⁵	12⁰⁰	Drill — 2¼

MUD RECORD

	6	8	10
TIME			
WEIGHT	10.4	10.4	10.4
VISC	82	80	78
W.L.-C.C.			
FLTR. CK.			
PH		10.5	
SD. CONT			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

C.P.-38 (10/63) **DAILY DRILLING REPORT** REPORT NO. 40 DATE April 22 - 1965

OPERATOR: SHELL CANADA LIMITED | LOCATION LSD. SEC. TWP. RGE. W. | WELL NAME: Shell Cowley | No. 1-46 | PROVINCE: N.W.T.

CONTRACTOR: Regent Drilling Ltd | RIG No. 6 | DRILL PIPE STRING NO. SIZE | TOOL JOINT OD | TYPE THD. X H

OPERATOR'S REPRESENTATIVE: H.B. Cowle | CONTRACTOR'S TOOL PUSHER: L.E. Burnside

PUMPS

NO.	MANUFACTURER	TYPE	STROKE LENGTH
1.	Emsco	D 700	16
2.	Emsco	D 500	16
3.			

CASING & LINER RECORD

	SIZE	WT. & GR.	DEPTH SET FROM	DEPTH SET TO	PERFORATIONS FROM	PERFORATIONS TO	CEMENT USED	OTHER
	13 3/8		0	717			700	

TIME DISTRIBUTION—HOURS

	MORN	DAY	EVE
DRILLING ACTUAL	7	12	3 1/4
REAMING Tight Hole			1
CIRCULATING	1/2		
TRIPS		4	
DEVIATION SURVEY	1/2	3/4	
TEST B.O.P		3/4	
CUT OFF DRILL LINE			
REPAIR RIG			1/4
CORING			
WIRE LINE LOGGING			
OTHER		1 1/4	
FISHING			
COMPLETING (A) PERFORATING			
(B) RUNNING TUBING			
(C) SWABBING			
(D) TESTING			
(E) ACIDIZING			
(F) ADDITIONAL			
TOTALS	9	9	6

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. or TRIPS SINCE LAST CUT

CUMULATIVE TON MI. or TRIPS

NO. OF DAYS FROM SPUD

CUMULATIVE ROTATING HRS.

MORNING TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD	
37	STANDS DP	FT.	RUN NO.	26
2	SNGLS. DP	8482.46 FT.	SIZE	12 1/4
	D.C. ID		MFG.	Sec
22	D.C. OD	626.66 FT.	TYPE	S-3
	RMR BODY OD	FT.	NOZ. NO.	3
	STB BODY OD	7.13 FT.	NOZ. SIZE	3/4
	SUBS OD	FT.	SER. NO	747004
	BIT OR C.B.	FT.	DEPTH OUT	4065
		FT.	CUMULATIVE HOURS RUN	193/4
	KELLY DOWN	19.00 FT.	COND. OF BIT	231
	TOTAL	9065.25 FT.	REAMER CUTTER NO.	
	WT. OF STRING	115,000 LBS.	TYPE	

DRILLER: R. Pacholek

HRS. DRLD.	CORE NO.	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT. ON BIT 1000#	PUMP PRESS.	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN
7		4015	4065		60	60	900	6 1/2	67			

DEVIATION RECORD: DEPTH 3990 DEV. 2 1/4 | DIRECTION | DEPTH | DEV. | DIRECTION | DEPTH | DEV. | DIRECTION

REMARKS

1	Drill	1200-100
1/2	Circulate for Survey	100-130
1/2	Survey	130-200
6	Drill	200-900

MUD RECORD

TIME	2	4	6
WEIGHT	10.1	10.2	10.3
VISC	65	64	63
W.L.-C.C.			
FLTR. CK.			
PH		9.5	
SD. CONT.			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
Gel	20 sx		
Caustic	20 lbs		
Poltex	150 lbs		

DAY TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD	
37	STANDS DP	3443.01 FT.	RUN NO.	27
	SNGLS. DP	FT.	SIZE	12 1/4
	19-6 1/2" D.C. ID		MFG.	SEC
22	3-9" D.C. OD	626.66 FT.	TYPE	S-3
	RMR BODY OD	FT.	NOZ. NO.	3
	STB BODY OD	FT.	NOZ. SIZE	3/4
1	SUBS OD	7.13 FT.	SER. NO.	747873
	BIT OR C.B.	FT.	DEPTH OUT	
		FT.	CUMULATIVE HOURS RUN	14 3/4
	KELLY DOWN	14 FT.	COND. OF BIT	1 1/4
	TOTAL	4090.80 FT.	REAMER CUTTER NO.	
	WT. OF STRING	115,000 LBS.	TYPE	

DRILLER: J. Hibbard

HRS. DRLD.	CORE NO.	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT. ON BIT 1000#	PUMP PRESS.	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN
1 1/2		4065	4090									

DEVIATION RECORD: DEPTH 4060 DEV. 2 3/4 | DIRECTION | DEPTH | DEV. | DIRECTION | DEPTH | DEV. | DIRECTION

REMARKS

8:00	8:45	Survey & Blow Kelly	3/4	measure out 3413.12
8:45	10:45	Pull out (measure)	2	Pipe tally 3412.46
10:45	11:45	Rig service & Bop check	1	.66
11:45	1:30	Run in	1 3/4	Pipe correction mark
1:30	1:45	Clean tight spot	1/4	(12 std off. DTH)
1:45	2:30	Finish in & clean to Btm.	3/4	(60 ft. fill)
2:30	4:00	Drill	1 1/2	

MUD RECORD

TIME			3:00
WEIGHT			10.3
VISC			73
W.L.-C.C.			
FLTR. CK.			
PH			
SD. CONT.			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

EVENING TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD	
37	STANDS DP	FT.	RUN NO	27
2	SNGLS. DP	3502.94 FT.	SIZE	12 1/4
	19-6 1/2" D.C. ID		MFG.	SEC
22	3-9" D.C. OD	626.66 FT.	TYPE	S-3
	RMR BODY OD	FT.	NOZ. NO.	3
	STB BODY OD	FT.	NOZ. SIZE	3/4
	SUBS OD	7.13 FT.	SER NO	747873
	BIT OR C.B.	FT	DEPTH OUT	
		FT.	CUMULATIVE HOURS RUN	8 1/4
	KELLY DOWN	34.00 FT.	COND. OF BIT	
	TOTAL	4170.73 FT.	REAMER CUTTER NO.	
	WT OF STRING	115 000 LBS.	TYPE	

DRILLER: R. Pacholek

HRS. DRLD.	CORE NO.	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT. ON BIT 1000#	PUMP PRESS	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN
1 3/4		4090	4170		120	40	900	6 1/4	70			

DEVIATION RECORD: DEPTH | DEV. | DIRECTION | DEPTH | DEV | DIRECTION | DEPTH | DEV | DIRECTION

REMARKS

4:00	4:30	Circ & work tight hole	1/2	
4:30	6:00	Drill	1 1/2	
6:00	6:15	Change out Indicator	1/4	
6:15	9:15	Drill	3	
9:15	9:45	Wk tight hole	1/2	
9:45	12:00	Drill	2 1/4	

MUD RECORD

TIME	6	8	10
WEIGHT	10.2	10.2	10.2
VISC	72	75	75
W.L.-C.C.			
FLTR. CK.			
PH		9.5	
SD. CONT			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
Gel	70 sx.		

C.P.—38 (10/63) **DAILY DRILLING REPORT** REPORT NO. 39 DATE April 21/65

OPERATOR: SHELL CANADA LIMITED
LOCATION LSD. 1 SEC. 46 TWP. RGE. W.
WELL NAME: SHELL CLOVER LEAF No. 1-46
PROVINCE: ALTA

CONTRACTOR: PREBENT DRLG. RIG No. 6
DRILL PIPE STRING NO. SIZE: 2 5" TOOL JOINT OD: TYPE THD.
OPERATOR'S REPRESENTATIVE: [illegible]
CONTRACTOR'S TOOL PUSHER: L. Beauvais

PUMPS

NO.	MANUFACTURER	TYPE	STROKE LENGTH
1.	EMSCO	D-700	16
2.	EMSCO	D-500	16
3.			

CASING & LINER RECORD

	SIZE	WT. & GR.	DEPTH SET FROM	DEPTH SET TO	PERFORATIONS FROM	PERFORATIONS TO	CEMENT USED	OTHER
	13 3/8		0	717			700	

TIME DISTRIBUTION—HOURS

	MORN	DAY	EVE
DRILLING ACTUAL		5 1/4	4 3/4
REAMING			
CIRCULATING		1/4	
TRIPS			
DEVIATION SURVEY	1		
TEST B.O.P			
CUT OFF DRILL LINE			
REPAIR RIG		3/4	1/4
CORING	1/4		
WIRE LINE LOGGING			
OTHER water line SAFETY	3/4	1/4	1/4
FISHING			
COMPLETING (A) PERFORATING			
(B) RUNNING TUBING			
(C) SWABBING			
(D) TESTING			
(E) ACIDIZING			
(F) ADDITIONAL			
TOTALS			8

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. or TRIPS SINCE LAST CUT
CUMULATIVE TON MI. or TRIPS
NO. OF DAYS FROM SPUD
CUMULATIVE ROTATING HRS.

MORNING TOUR

NO.	DRILLING ASSEMBLY	FT.
34	STANDS DP	
2	SNGLS. DP	3226.46
22	D.C. ID / OD	626.66
	RMR BODY OD	FT.
	STB BODY OD	FT.
	SUBS OD	7.13 FT.
	BIT OR C.B.	FT.
		FT.
	KELLY DOWN	41.00 FT.
	TOTAL	3901.25 FT.
	WT. OF STRING	LBS.

BIT RECORD: RUN NO. 26; SIZE 12 1/4; MFG. See; TYPE S6; NOZ. NO. 3; NOZ. SIZE 3/4; SER. NO 74/7004; DEPTH OUT; CUMULATIVE HOURS RUN; COND. OF BIT; REAMER CUTTER NO.; TYPE

DRILLER: L. Peckolick

HRS. DRLD.	CORE NO.	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT. ON BIT 1000#	PUMP PRESS.	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN
—												

DEVIATION RECORD: DEPTH / DEV. / DIRECTION

REMARKS

2	Trip Out - Hole tight 3840 - 3000' and @ 1920
1/4	Circulate Out @ 2615' 12:00 - 3:20
1/4	Work on Flow Line 3:30 - 3:45
3/4	Drain Waterlines to take 3:45 4:30
3 1/2	Run In - Cleaning Out Tight Spots and Ream to Btm 40 ft 5:30 - 8:00

MUD RECORD

TIME	
WEIGHT	
VISC	
W.L.-C.C.	
FLTR. CK.	
PH	
SD. CONT.	

MUD & CHEMICALS ADDED: TYPE / AMT. / TYPE / AMT.

DAY TOUR

NO.	DRILLING ASSEMBLY	FT.
36	STANDS DP	
1	SNGLS. DP	3038 FT.
22	D.C. 6 1/2 ID / 7 - 900 OD	626.66 FT.
	RMR BODY OD	FT.
	STB BODY OD	FT.
	SUBS OD	7.13 FT.
	BIT OR C.B.	FT.
		FT.
	KELLY DOWN	FT.
	TOTAL	34 FT.
	WT. OF STRING	3955.90

BIT RECORD: RUN NO. 26; SIZE 12 1/4; MFG. SEC; TYPE 5-6; NOZ. NO. 3; NOZ. SIZE 3/4; SER. NO 745004; DEPTH OUT; CUMULATIVE HOURS RUN 5 1/4; COND. OF BIT; REAMER CUTTER NO.; TYPE

DRILLER: J. Hibbard

HRS. DRLD.	CORE NO.	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT. ON BIT 1000#	PUMP PRESS.	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN
5 1/4		3901	3955		110	40/60	700	6 1/2	60	6 1/2		

DEVIATION RECORD: DEPTH / DEV. / DIRECTION

REMARKS

8:15	Rig Service — 1/4
8:15 - 10:00	Drill — 1 3/4
10:00 - 10:15	Repair Camerad on Mud Line & Skid out Motors — 1/4
10:15 - 12:30	Drill — 2
12:30 - 1:00	Remove Torque — 1/2
1:00 - 3:30	Drill — 2 1/2
3:30 - 4:00	Skid Motors back & Pick up Kelly — 1/2

MUD RECORD

TIME	8:00
WEIGHT	9.8
VISC	59
W.L.-C.C.	
FLTR. CK.	
PH	
SD. CONT.	

MUD & CHEMICALS ADDED: TYPE / AMT. / TYPE / AMT.

EVENING TOUR

NO.	DRILLING ASSEMBLY	FT.
36	STANDS DP	3350.94 FT.
	SNGLS. DP	FT.
22	D.C. ID / OD	626.66 FT.
	RMR BODY OD	FT.
	STB BODY OD	FT.
	SUBS OD	7.12 FT.
	BIT OR C.B.	FT.
		FT.
	KELLY DOWN	31.00 FT.
	TOTAL	4015.72 FT.
	WT OF STRING	LBS.

BIT RECORD: RUN NO 26; SIZE 12 1/4; MFG. SEC; TYPE 5-6; NOZ. NO. 3; NOZ. SIZE 3/4; SER NO 745004; DEPTH OUT; CUMULATIVE HOURS RUN 12 3/4; COND. OF BIT; REAMER CUTTER NO.; TYPE

DRILLER: D. Peckolick

HRS. DRLD.	CORE NO.	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT. ON BIT 1000#	PUMP PRESS	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN
7 1/2		3955	4015		110/60	40/60	900	6 1/2	68			

DEVIATION RECORD: DEPTH / DEV. / DIRECTION

REMARKS

4:00	4" Bolt Down Motors — 1/4
4:15	2:45 Drill — 4 1/2
4:45 - 9:00	Service Rig — 1/4
9:00 - 12:00	Drill — 3

MUD RECORD

TIME	4	8	10
WEIGHT	10.	10.	10.1
VISC	66	66	70
W.L.-C.C.			
FLTR CK.			
PH			
SD. CONT	68	68	69

MUD & CHEMICALS ADDED: TYPE / AMT. / TYPE / AMT.
Gel 16 sx
Pit 150 bbls

C.P.—38 (10/63) **DAILY DRILLING REPORT** REPORT NO. 38 DATE April 20 1965

OPERATOR: SHELL CANADA LIMITED | LOCATION LSD. SEC. TWP. RGE. W. | WELL NAME: Shell Cloverley | No. 1-46 | PROVINCE: N W T

CONTRACTOR: Regent Drilling & Stl | RIG No. 6 | DRILL PIPE STRING NO. SIZE 4½" | TOOL JOINT OD | TYPE THD.

OPERATOR'S REPRESENTATIVE: B Lumba | CONTRACTOR'S TOOL PUSHER: L Burnett

PUMPS

NO.	MANUFACTURER	TYPE	STROKE LENGTH
1.	Emsco	D700	16
2.	Emsco	D500	16
3.			

CASING & LINER RECORD

SIZE	WT. & GR.	DEPTH SET FROM	DEPTH SET TO	PERFORATIONS FROM	PERFORATIONS TO	CEMENT USED	OTHER
13⅜		0	717			700	

TIME DISTRIBUTION—HOURS

	MORN	DAY	EVE
DRILLING ACTUAL	4¼	5¾	9¼
REAMING	½		
CIRCULATING		3¼	½
TRIPS			
DEVIATION SURVEY		3/4	
TEST B.O.P			
CUT OFF DRILL LINE			
REPAIR RIG	1¾	3/4	
CORING			
WIRE LINE LOGGING			
OTHER			
FISHING			
COMPLETING (A) PERFORATING			
(B) RUNNING TUBING			
(C) SWABBING			
(D) TESTING			
(E) ACIDIZING			
(F) ADDITIONAL			
TOTALS	8	8	8

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. or TRIPS SINCE LAST CUT

CUMULATIVE TON MI. or TRIPS

NO. OF DAYS FROM SPUD

CUMULATIVE ROTATING HRS.

MORNING TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD	
33	STANDS DP	FT.	RUN NO.	25
1	SNGLS. DP	3102.66 FT.	SIZE	12¼
19	D.C. 6½" ID		MFG.	Sec
3	9" OD	626.66 FT.	TYPE	RWN
	RMR BODY OD	FT.	NOZ. NO.	3
	STB BODY OD	FT.	NOZ. SIZE	3/4
	SUBS OD	7.13 FT.	SER. NO	83 9979
	BIT OR C.B.	FT.	DEPTH OUT	
		FT.	CUMULATIVE HOURS RUN	4¼
	KELLY DOWN	16.00 FT.	COND. OF BIT	
	TOTAL	3752.45 FT.	REAMER CUTTER NO.	
	WT. OF STRING	120,000 LBS.	TYPE	

DRILLER: L Pocholek

HRS. DRLD.	CORE NO.	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT. ON BIT 1000#	PUMP PRESS.	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN
4¼		3727	3752		100	20	1100	6½	68			

DEVIATION RECORD: DEPTH | DEV. | DIRECTION | DEPTH | DEV. | DIRECTION | DEPTH | DEV. | DIRECTION

REMARKS

2	Break Circulation clean 50 to Btm Wait on Water	12⁰⁰-2⁰⁰
½	Drill	2⁰⁰-2³⁰
1¼	Repack 4" Cameron on Mud line	2³⁰ 3⁴⁵
3	Drill	3⁴⁵-6⁴⁵
¼	Work on Elevators & Swivel	6⁴⁵-7⁰⁰
3¼	Drill	7⁰⁰-7⁴⁵
¼	Work on Drawworks	7⁴⁵-8⁰⁰

MUD RECORD

TIME	2	4	6
WEIGHT	9.6	9.6	9.6
VISC	54	50	47
W.L.-C.C.			
FLTR. CK.			
PH		9.5	
SD. CONT.			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

DAY TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD	
34	STANDS DP	3163.75 FT.	RUN NO.	25
	SNGLS. DP	FT.	SIZE	12¼
22	D.C. 19-6½ ID		MFG.	SEC
	3-9" OD	626.66 FT.	TYPE	M44N
	RMR BODY OD	FT.	NOZ. NO	3
	STB BODY OD	7.13 FT.	NOZ. SIZE	3/4
	SUBS OD	FT.	SER. NO.	8399-79
	BIT OR C.B.	FT.	DEPTH OUT	
		FT.	CUMULATIVE HOURS RUN	10
	KELLY DOWN	35 FT.	COND. OF BIT	Dull
	TOTAL	3832.54 FT.	REAMER CUTTER NO.	
	WT. OF STRING	120,000 LBS.	TYPE	

DRILLER: J. Willard

HRS. DRLD.	CORE NO.	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT. ON BIT 1000#	PUMP PRESS.	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN
5¾		3758	3832		130	40	1000	6½	67			

DEVIATION RECORD: DEPTH | DEV. | DIRECTION | DEPTH | DEV. | DIRECTION | DEPTH | DEV. | DIRECTION

3766 | 1⅜

REMARKS

8⁰⁰	8³⁰	REPAIR CHAIN IN DWKS RIG SERVICE	3/4
8³⁰	10³⁰	TRIP	1¾
10³⁰	10⁴⁵	CIRC & WORK TIGHT PIPE	¼
10⁴⁵	1⁰⁰	DRILL	2¼
1⁰⁰	1³⁰	CIRC & WORK PIPE FOR SURVEY	½
1³⁰	2¹⁵	SURVEY	¾
2¹⁵	4⁰⁰	DRILL	1¾

MUD RECORD

TIME	8⁰⁰	10⁰⁰	2⁰⁰
WEIGHT	9.5	9.6	9.7
VISC	47	47	45
W.L.-C.C.			
FLTR. CK.			
PH			
SD. CONT.			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

EVENING TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD	
33	STANDS DP	FT.	RUN NO	
1	SNGLS. DP	31.51 FT.	SIZE	
	D.C ID		MFG.	
	OD	626.66 FT.	TYPE	
	RMR BODY OD	FT.	NOZ. NO.	
	STB BODY OD	7.13 FT.	NOZ. SIZE	
	SUBS OD	FT.	SER NO	
	BIT OR C.B.	FT.	DEPTH OUT	
		FT.	CUMULATIVE HOURS RUN	
	KELLY DOWN	47.00 FT.	COND. OF BIT	
	TOTAL	3901.26 FT.	REAMER CUTTER NO.	
	WT OF STRING	LBS.	TYPE	

DRILLER

HRS. DRLD.	CORE NO.	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT. ON BIT 1000#	PUMP PRESS	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN
		3832										

DEVIATION RECORD: DEPTH | DEV. | DIRECTION | DEPTH | DEV | DIRECTION | DEPTH | DEV | DIRECTION

REMARKS

4⁰⁰	4¹²	TRIP	1/4
4¹⁵	4³⁰	CIRC & WORK TIGHT HOLE	1/4
4³⁰	6⁴⁵	DRILL	2¼
6⁴⁵	7⁰⁰	CIRC FOR CORING	1/4
7⁰⁰	12⁰⁰	DRILL	

MUD RECORD

TIME	8⁰⁰	10⁰⁰	2
WEIGHT			
VISC			
W.L.-C.C.			
FLTR. CK.			
PH			
SD. CONT			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

C.P.—38 (10/63) **DAILY DRILLING REPORT** REPORT NO. DATE Apr 20 19

OPERATOR: SHELL CANADA LIMITED | LOCATION LSD. SEC. TWP. RGE. W. | WELL NAME: Shell Clarke Lake No. 1-46 | PROVINCE: N W T

CONTRACTOR: Right Drlg Co | RIG No. 6 | DRILL PIPE STRING NO. SIZE: E 5" | TOOL JOINT OD | TYPE THD.

OPERATOR'S REPRESENTATIVE: L B Carter | CONTRACTOR'S TOOL PUSHER

PUMPS

NO.	MANUFACTURER	TYPE	STROKE LENGTH
1.			
2.			
3.			

CASING & LINER RECORD

SIZE	WT. & GR.	DEPTH SET FROM	DEPTH SET TO	PERFORATIONS FROM	PERFORATIONS TO	CEMENT USED	OTHER

TIME DISTRIBUTION—HOURS

	MORN	DAY	EVE
DRILLING ACTUAL			
REAMING			
CIRCULATING			
TRIPS			
DEVIATION SURVEY			
TEST B.O.P.			
CUT OFF DRILL LINE			
REPAIR RIG			
CORING			
WIRE LINE LOGGING			
OTHER			
FISHING			
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

WIRE LINE RECORD

REEL NO

NO OF LINES SIZE

FEET SLIPPED

FEET CUT OFF

PRESENT LENGTH

TON MI. or TRIPS SINCE LAST CUT

CUMULATIVE TON MI. or TRIPS

NO. OF DAYS FROM SPUD

CUMULATIVE ROTATING HRS.

MORNING TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD	
	STANDS DP	FT.	RUN NO.	
	SNGLS. DP	FT.	SIZE	
	D.C. ID / OD	FT.	MFG.	
	RMR BODY OD	FT.	TYPE	
	STB BODY OD	FT.	NOZ. NO. / 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 L Pacholek

HRS. DRLD.	CORE NO.	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT. ON BIT 1000#	PUMP PRESS.	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN

DEVIATION RECORD:

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

REMARKS

1 Thaw Out Pumps & Mud Lines 12^00-1^00
2 Mix Mud and by Water line from 400 Bbl 1^00-
Tank to Suction and Pump Water 3^00
1 Circulate hole and Measure D.P. 4^00-5^00
2 Pick Up Drill Pipe 5^00-7^00
1 Circulate & ~~Pick Up~~ Drill Measure Pipe 7^00-8^00

MUD RECORD

TIME			
WEIGHT			
VISC			
W.L.-C.C.			
FLTR. CK.			
PH			
SD. CONT.			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
Gel	17		
Caustic	750		

DAY TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD	
34	STANDS DP	3163.43 FT.	RUN NO.	
	SNGLS. DP	FT.	SIZE	
	D.C. ID		MFG.	
19	D.C. 6½ OD	538.29 FT.	TYPE	
	RMR BODY OD	FT.	NOZ. NO.	
	STB BODY OD	FT.	SIZE	
	SUBS 8" OD	FT.	SER. NO.	
	BIT OR C.B.	1.83 FT.	DEPTH OUT	
		FT.	CUMULATIVE HOURS RUN	
	KELLY DOWN	FT.	COND. OF BIT	
	TOTAL	23 FT.	REAMER CUTTER NO.	
	WT. OF STRING	3787 LBS.	TYPE	

DRILLER J. Hifford

HRS. DRLD.	CORE NO.	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT. ON BIT 1000#	PUMP PRESS.	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN

DEVIATION RECORD:

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

REMARKS

8^00 8^15 Rig Service
8^15 3^15 Pick up Pipe (Servicing All Washes)
3^15 4^00 Break Circ & Clean to Btm.

MUD RECORD

TIME			
WEIGHT			
VISC			
W.L.-C.C.			
FLTR. CK.			
PH			
SD. CONT.			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

EVENING TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD	
	STANDS DP	FT.	RUN NO	25
	SNGLS. DP	FT.	SIZE	12¼
	D.C ID / OD	FT.	MFG.	SEC
	RMR BODY OD	FT.	TYPE	M44N
	STB BODY OD	FT.	NOZ. NO.	3
	SUBS OD	FT.	SIZE	3/4
	BIT OR C.B.	FT.	SER NO	539976
		FT.	DEPTH OUT	
	KELLY DOWN	FT.	CUMULATIVE HOURS RUN	
	TOTAL	FT.	COND. OF BIT	
	WT OF STRING	LBS.	REAMER CUTTER NO.	
			TYPE	

DRILLER

HRS. DRLD.	CORE NO.	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT. ON BIT 1000#	PUMP PRESS	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN

DEVIATION RECORD:

DEPTH	DEV.	DIRECTION	DEPTH	DEV	DIRECTION	DEPTH	DEV	DIRECTION

REMARKS

4^00 5^00 CIRCULATE
5^00 7^00 TOH OUT & STRING MULE LINE
7^00 11^45 PICK UP 9" COLLARS & RUN IN DP 7^00-10^45
10^45 11^15 Repair Leak in Water Header
11^15 12^00 Ream to

MUD RECORD

TIME			
WEIGHT			
VISC			
W.L.-C.C.			
FLTR. CK.			
PH			
SD. CONT			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

C.P.—38 (10/63) **DAILY DRILLING REPORT** REPORT NO. DATE April 18, 1965

OPERATOR: SHELL CANADA LIMITED

LOCATION LSD. SEC. TWP. RGE. W.

WELL NAME: Shell Pbrundrel No. 1-46

PROVINCE: N W T

CONTRACTOR: Regent Drilling RIG No.

DRILL PIPE STRING NO. SIZE | TOOL JOINT OD | TYPE THD.

OPERATOR'S REPRESENTATIVE: W B Cook CONTRACTOR'S TOOL PUSHER: W Burnside

PUMPS

NO.	MANUFACTURER	TYPE	STROKE LENGTH
1.			
2.			
3.			

CASING & LINER RECORD

SIZE	WT. & GR.	DEPTH SET FROM	DEPTH SET TO	PERFORATIONS FROM	PERFORATIONS TO	CEMENT USED	OTHER

TIME DISTRIBUTION—HOURS

	MORN	DAY	EVE
DRILLING ACTUAL			
REAMING			
CIRCULATING			
TRIPS			
DEVIATION SURVEY			
TEST B.O.P			
CUT OFF DRILL LINE			
REPAIR RIG			
CORING			
WIRE LINE LOGGING			
OTHER			
FISHING			
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

WIRE LINE RECORD

REEL NO

NO OF LINES SIZE

FEET SLIPPED

FEET CUT OFF

PRESENT LENGTH

TON MI. or TRIPS SINCE LAST CUT

CUMULATIVE TON MI. or TRIPS

NO. OF DAYS FROM SPUD

CUMULATIVE ROTATING HRS.

MORNING TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD	
	STANDS DP	FT.	RUN NO.	
	SNGLS. DP	FT.	SIZE	
	D.C. ID / OD	FT.	MFG.	
			TYPE	
	RMR BODY OD	FT.	NOZ. NO.	
	STB BODY OD	FT.	NOZ. 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: L Pocholek

HRS. DRLD.	CORE NO.	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT. ON BIT 1000#	PUMP PRESS.	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN

DEVIATION RECORD:

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

REMARKS

2 Dig mouse hole 12:00-2:00
1 Unload truck load of Eel 2:00-3:00
5 N/Pple Up BOP - Change to 5" pipe Rams 3:00-8:00

MUD RECORD

TIME			
WEIGHT			
VISC			
W.L.-C.C.			
FLTR. CK.			
PH			
SD. CONT.			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

DAY TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD	
	STANDS DP	FT.	RUN NO.	
	SNGLS. DP	FT.	SIZE	
	D.C. ID / OD	FT.	MFG.	
			TYPE	
	RMR BODY OD	FT.	NOZ. NO	
	STB BODY OD	FT.	NOZ. 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: J. Hilland

HRS. DRLD.	CORE NO.	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT. ON BIT 1000#	PUMP PRESS.	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN

DEVIATION RECORD:

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

REMARKS

8:00 1:00 Nipple up
1:00 4:00 Pick up Collars

MUD RECORD

TIME			
WEIGHT			
VISC			
W.L.-C.C.			
FLTR. CK.			
PH			
SD. CONT.			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

EVENING TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD	
	STANDS DP	FT.	RUN NO	
	SNGLS. DP	FT.	SIZE	
	D.C ID / OD	FT.	MFG.	
			TYPE	
	RMR BODY OD	FT.	NOZ. NO.	
	STB BODY OD	FT.	NOZ. 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)	ROTARY R.P.M.	WT. ON BIT 1000#	PUMP PRESS	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN

DEVIATION RECORD:

DEPTH	DEV.	DIRECTION	DEPTH	DEV	DIRECTION	DEPTH	DEV	DIRECTION

REMARKS

4:00 5:00 Pick up collars
5:00 7:00 Work on power & lines
7:00 9:30 Pick up pipe
9:30 10:30 Subsequent first aid
10:30 11:00 Install kelly spinner & Kelly hose
11:00 12:00 Thaw out Pumps

MUD RECORD

TIME			
WEIGHT			
VISC			
W.L.-C.C.			
FLTR CK.			
PH			
SD. CONT			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

C.P.—38 (10/63) **DAILY DRILLING REPORT** REPORT NO. DATE April 17, 1965

OPERATOR: SHELL CANADA LIMITED
CONTRACTOR: Regent Drilling Ltd. RIG No. 6
OPERATOR'S REPRESENTATIVE: H B Cook
CONTRACTOR'S TOOL PUSHER: G Burnside

LOCATION LSD. SEC. TWP. RGE. W. WELL NAME: Shell Clearwater No. 1-46 PROVINCE: N W T

DRILL PIPE STRING NO. SIZE | TOOL JOINT OD | TYPE THD.

PUMPS

NO.	MANUFACTURER	TYPE	STROKE LENGTH
1.			
2.			
3.			

CASING & LINER RECORD

SIZE	WT. & GR.	DEPTH SET FROM	DEPTH SET TO	PERFORATIONS FROM	PERFORATIONS TO	CEMENT USED	OTHER

TIME DISTRIBUTION—HOURS

	MORN	DAY	EVE
DRILLING ACTUAL			
REAMING			
CIRCULATING			
TRIPS			
DEVIATION SURVEY			
TEST B.O.P.			
CUT OFF DRILL LINE			
REPAIR RIG			
CORING			
WIRE LINE LOGGING			
OTHER			
FISHING			
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

WIRE LINE RECORD

REEL NO
NO OF LINES SIZE
FEET SLIPPED
FEET CUT OFF
PRESENT LENGTH
TON MI. or TRIPS SINCE LAST CUT
CUMULATIVE TON MI. or TRIPS
NO. OF DAYS FROM SPUD
CUMULATIVE ROTATING HRS.

MORNING TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD	
	STANDS DP	FT.	RUN NO.	
	SNGLS. DP	FT.	SIZE	
	D.C. ID / OD	FT.	MFG. / TYPE	
	RMR BODY OD	FT.	NOZ. NO. / SIZE	
	STB BODY OD	FT.		
	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: L Packolek

HRS. DRLD.	CORE NO.	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT. ON BIT 1000#	PUMP PRESS.	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN

DEVIATION RECORD:

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

REMARKS

1½ Thaw Out B.O.P, Hook Up Lubricator Line To Ramm, Open Blind Rams 12:00 - 13:30

5½ Pick Up D.C. and drill Rat hole 13:30 - 19:00

Rat hole Very Hard to drill - Wet Permo front Steam will not help penetrate formation

MUD RECORD

TIME				
WEIGHT				
VISC				
W.L.-C.C.				
FLTR. CK.				
PH				
SD. CONT.				

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

DAY TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD	
	STANDS DP	FT.	RUN NO.	
	SNGLS. DP	FT.	SIZE	
	D.C. ID / OD	FT.	MFG. / TYPE	
	RMR BODY OD	FT.	NOZ. NO / SIZE	
	STB BODY OD	FT.		
	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: J. Nikkel

HRS. DRLD.	CORE NO.	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT. ON BIT 1000#	PUMP PRESS.	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN

DEVIATION RECORD:

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

REMARKS

8:00 - 12:00 - Dig Rat Hole
12:00 - 4:00 - Dig Mouse Hole

MUD RECORD

TIME				
WEIGHT				
VISC				
W.L.-C.C.				
FLTR. CK.				
PH				
SD. CONT.				

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

EVENING TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD	
	STANDS DP	FT.	RUN NO	
	SNGLS. DP	FT.	SIZE	
	D.C ID / OD	FT.	MFG. / TYPE	
	RMR BODY OD	FT.	NOZ. NO. / SIZE	
	STB BODY OD	FT.		
	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)	ROTARY R.P.M.	WT. ON BIT 1000#	PUMP PRESS	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN

DEVIATION RECORD:

DEPTH	DEV.	DIRECTION	DEPTH	DEV	DIRECTION	DEPTH	DEV	DIRECTION

REMARKS

4:00 - 12:00 Dig Mouse Hole

MUD RECORD

TIME				
WEIGHT				
VISC				
W.L.-C.C.				
FLTR CK.				
PH				
SD. CONT				

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

C.P.—38 (10/67) **DAILY DRILLING REPORT** REPORT NO. DATE April 16, 1965

OPERATOR	LOCATION LSD.	SEC.	TWP.	RGE.	W.	WELL NAME	No.	PROVINCE
SHELL CANADA LIMITED						Shell Bownlea	1-46	N.W.T.

CONTRACTOR	RIG No.	DRILL PIPE STRING NO. SIZE	TOOL JOINT OD / TYPE THD.
Kingwood Drilling Ltd	6		

OPERATOR'S REPRESENTATIVE: B Cumber — CONTRACTOR'S TOOL PUSHER: L Burnside

PUMPS

NO.	MANUFACTURER	TYPE	STROKE LENGTH
1.			
2.			
3.			

CASING & LINER RECORD

SIZE	WT. & GR.	DEPTH SET FROM	DEPTH SET TO	PERFORATIONS FROM	PERFORATIONS TO	CEMENT USED	OTHER

TIME DISTRIBUTION—HOURS

	MORN	DAY	EVE
DRILLING ACTUAL			
REAMING			
CIRCULATING			
TRIPS			
DEVIATION SURVEY			
TEST B.O.P			
CUT OFF DRILL LINE			
REPAIR RIG			
CORING			
WIRE LINE LOGGING			
OTHER			
FISHING			
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

WIRE LINE RECORD

REEL NO

NO OF LINES SIZE

FEET SLIPPED

FEET CUT OFF

PRESENT LENGTH

TON MI. or TRIPS SINCE LAST CUT

CUMULATIVE TON MI. or TRIPS

NO. OF DAYS FROM SPUD

CUMULATIVE ROTATING HRS.

MORNING TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD	
	STANDS DP	FT.	RUN NO.	
	SNGLS. DP	FT.	SIZE	
	D.C. ID / OD	FT.	MFG. / TYPE	
	RMR BODY OD	FT.	NOZ. NO. / SIZE	
	STB BODY OD	FT.		
	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: L Packalk

HRS. DRLD.	CORE NO.	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT. ON BIT 1000#	PUMP PRESS.	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN

DEVIATION RECORD:

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

REMARKS

Employees.
L Packalk
G. Yarrow
B. Rodvang
R Dietrich
L. Lindstrom.

Complete & Block Up Pipe Racks
Build & Insulate Pad for Mud
Mixer; Lay fuel line to Std-By
Fuel tank & Pump fuel; Repair &
Water header & Brake water lines
Install Rotary torque; Lay BOP
Hydrolic lines; Cut Blocking
for Pipe Racks

MUD RECORD

TIME				
WEIGHT				
VISC				
W.L.-C.C.				
FLTR. CK.				
PH				
SD. CONT.				

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

DAY TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD	
	STANDS DP	FT.	RUN NO.	
	SNGLS. DP	FT.	SIZE	
	D.C. ID / OD	FT.	MFG. / TYPE	
	RMR BODY OD	FT.	NOZ. NO / SIZE	
	STB BODY OD	FT.		
	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: G Willard

HRS. DRLD.	CORE NO.	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT. ON BIT 1000#	PUMP PRESS.	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN

DEVIATION RECORD:

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

REMARKS

Employees

J. HIBBARD
J. KURYS
V. FORSYTH
R. GUNSOLLY
R. SMITH
W. ALLEN

Wash 80' to 400' Pu UP FLOOR
PICK UP TABLE, SWIVEL
& KELLY
~~Ream Hole to 400'~~

MUD RECORD

TIME				
WEIGHT				
VISC				
W.L.-C.C.				
FLTR. CK.				
PH				
SD. CONT.				

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

EVENING TOUR

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

DRILLER: L Packalk

HRS. DRLD.	CORE NO.	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT. ON BIT 1000#	PUMP PRESS	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN

DEVIATION RECORD:

DEPTH	DEV.	DIRECTION	DEPTH	DEV	DIRECTION	DEPTH	DEV	DIRECTION

REMARKS

8 Dig Rat hole 4"-11"
8

MUD RECORD

TIME				
WEIGHT				
VISC				
W.L.C.C.				
FLTR CK.				
PH				
SD. CONT				

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

C.P.—38 (10/63) **DAILY DRILLING REPORT** REPORT NO. 36 DATE April 7/65

OPERATOR: SHELL CANADA LIMITED | LOCATION LSD. SEC. TWP. RGE. W. | WELL NAME: SHELL CLOVER LEAF No. 1-46 | PROVINCE: WILT

CONTRACTOR: RECEPT | RIG No. 21 | DRILL PIPE STRING NO. SIZE | TOOL JOINT OD | TYPE THD.

OPERATOR'S REPRESENTATIVE: W.S. Laird | CONTRACTOR'S TOOL PUSHER: L.R. Hansen

PUMPS

NO.	MANUFACTURER	TYPE	STROKE LENGTH
1.			
2.			
3.			

CASING & LINER RECORD

	SIZE	WT. & GR.	DEPTH SET FROM	DEPTH SET TO	PERFORATIONS FROM	PERFORATIONS TO	CEMENT USED	OTHER

TIME DISTRIBUTION—HOURS

	MORN	DAY	EVE
DRILLING ACTUAL			
REAMING			
CIRCULATING			
TRIPS			
DEVIATION SURVEY			
TEST B.O.P			
CUT OFF DRILL LINE			
REPAIR RIG			
CORING			
WIRE LINE LOGGING			
OTHER		6	4
FISHING			
COMPLETING (A) PERFORATING			
(B) RUNNING TUBING			
(C) SWABBING			
(D) TESTING			
(E) ACIDIZING			
(F) ADDITIONAL			
TOTALS		6	4

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. or TRIPS SINCE LAST CUT

CUMULATIVE TON MI. or TRIPS

NO. OF DAYS FROM SPUD

CUMULATIVE ROTATING HRS.

MORNING TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD	
	STANDS DP	FT.	RUN NO.	
	SNGLS. DP	FT.	SIZE	
	D.C. ID / OD	FT.	MFG.	
	RMR BODY OD	FT.	TYPE	
	STB BODY OD	FT.	NOZ. NO. / 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: L. McIntosh

HRS. DRLD.	CORE NO.	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT. ON BIT 1000#	PUMP PRESS.	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN

DEVIATION RECORD: DEPTH | DEV. | DIRECTION | DEPTH | DEV. | DIRECTION | DEPTH | DEV. | DIRECTION

REMARKS

1200 LAY DOWN DP AND COLLARS

Well Suspended while Moving Rig 21 off + Rig 6 on.

MUD RECORD

TIME			
WEIGHT			
VISC			
W.L.-C.C.			
FLTR. CK.			
PH			
SD. CONT.			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

DAY TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD	
	STANDS DP	FT.	RUN NO.	
	SNGLS. DP	FT.	SIZE	
	D.C. ID / OD	FT.	MFG.	
	RMR BODY OD	FT.	TYPE	
	STB BODY OD	FT.	NOZ. NO / 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: S. Morrow

HRS. DRLD.	CORE NO.	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT. ON BIT 1000#	PUMP PRESS.	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN

DEVIATION RECORD: DEPTH | DEV. | DIRECTION | DEPTH | DEV. | DIRECTION | DEPTH | DEV. | DIRECTION

REMARKS

8:00 4:00 TEARING OUT

MUD RECORD

TIME			
WEIGHT			
VISC			
W.L.-C.C.			
FLTR. CK.			
PH			
SD. CONT.			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

EVENING TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD	
	STANDS DP	FT.	RUN NO	
	SNGLS. DP	FT.	SIZE	
	D.C ID / OD	FT.	MFG.	
	RMR BODY OD	FT.	TYPE	
	STB BODY OD	FT.	NOZ. NO. / 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: S. Morrow

HRS. DRLD.	CORE NO.	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT. ON BIT 1000#	PUMP PRESS	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN

DEVIATION RECORD: DEPTH | DEV. | DIRECTION | DEPTH | DEV | DIRECTION | DEPTH | DEV | DIRECTION

REMARKS

4:20 8:00 TEARING OUT

MUD RECORD

TIME			
WEIGHT			
VISC			
W.L.-C.C.			
FLTR CK.			
PH			
SD. CONT			

MUD & CHEMICALS

TYPE	AMT.	TY

C.P.—38 (10/63) **DAILY DRILLING REPORT** REPORT NO. 35 DATE APRIL 6

OPERATOR: SHELL CANADA LIMITED | LOCATION LSD. SEC. TWP. RGE. W. | WELL NAME: SHELL CROWER LEAF | No. 1-46 | PROVINCE: NWT

CONTRACTOR: REGENT | RIG No. 21 | DRILL PIPE STRING NO. 2 SIZE 3½ | TOOL JOINT 4¾ OD | TYPE THD. IF

OPERATOR'S REPRESENTATIVE: W B Cumming | CONTRACTOR'S TOOL PUSHER: L. R. Hansen

PUMPS

NO.	MANUFACTURER	TYPE	STROKE LENGTH
1.	EMSCO	D300	14
2.			
3.			

CASING & LINER RECORD

SIZE	WT. & GR.	DEPTH SET FROM	DEPTH SET TO	PERFORATIONS FROM	PERFORATIONS TO	CEMENT USED	OTHER
13⅜	61 J55	0	716				

TIME DISTRIBUTION—HOURS

	MORN	DAY	EVE
DRILLING ACTUAL	7½	4½	
REAMING			
CIRCULATING			
TRIPS		2½	
DEVIATION SURVEY	½	½	
TEST B.O.P		¼	
CUT OFF DRILL LINE			
REPAIR RIG			
CORING			
WIRE LINE LOGGING			
OTHER		¼	
FISHING			
COMPLETING (A) PERFORATING			
(B) RUNNING TUBING			
(C) SWABBING			
(D) TESTING			
(E) ACIDIZING			
(F) ADDITIONAL			
TOTALS	8	16	

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. or TRIPS SINCE LAST CUT

CUMULATIVE TON MI. or TRIPS

NO. OF DAYS FROM SPUD

CUMULATIVE ROTATING HRS.

MORNING TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD	
52	STANDS DP	3206.65 FT.	RUN NO.	23
	SNGLS. DP	FT.	SIZE	12¼
1	D.C. 10-4½ ID 4-6¼ 1-7¾ OD	444.33 FT.	MFG.	SEC
	RMR BODY OD	FT.	TYPE	M4N
	STB BODY OD	326 FT.	NOZ. NO.	9
	SUBS OD	135 FT.	NOZ. SIZE	7/4
	BIT OR C.B.	FT.	SER. NO	790536
		FT.	DEPTH OUT	
	KELLY DOWN	3700 FT.	CUMULATIVE HOURS RUN	30¾
	TOTAL	3682.98 FT.	COND. OF BIT	Run
WT. OF STRING	52 LBS.		REAMER CUTTER NO.	
DRILLER	L McIntosh		TYPE	

HRS. DRLD.	CORE NO.	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT. ON BIT 1000#	PUMP PRESS.	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN
7½		3661	3692	30	140	4-6m	1100	5½	65			

DEVIATION RECORD:	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION
	3186	2¾							

REMARKS

1200	100	DRILL
100	130	RIG SERVICE SURVEY
130	800	DRILL

MUD RECORD

	1200	400	600
TIME			
WEIGHT	10	10	10
VISC	110	115	120
W.L.-C.C.		6.2	
FLTR. CK.		2/32	
PH		9.5	
SD. CONT.			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
GEL	1000		
CAUSTIC	50		
SUPALG	50		

DAY TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD		
52	STANDS DP	FT.	RUN NO.	23	24
1	SNGLS. DP	3237.45 FT.	SIZE	12¼	12¼
15	D.C. 10-4½ ID 4-6¼ 1-7¾ OD	444.33 FT.	MFG.	SEC	SEC
			TYPE	M4N	M4N
1	RMR BODY OD	320 FT.	NOZ. NO.	3	3
1	STB BODY OD	135 FT.	NOZ. SIZE	3/4	3/4
	SUBS OD	FT.	SER. NO.	790536	790379
	BIT OR C.B.	FT.	DEPTH OUT	3694	
		FT.	CUMULATIVE HOURS RUN	31½	3 7/4
	KELLY DOWN	20.00 FT.	COND. OF BIT	POOR	
	TOTAL	3706.33 FT.	REAMER CUTTER NO.		
WT. OF STRING	52M LBS.		TYPE		
DRILLER	L Morrow				

HRS. DRLD.	CORE NO.	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT. ON BIT 1000#	PUMP PRESS.	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN
4½		3691	3706	15	140	6M	1100	5½	66			

DEVIATION RECORD:	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION
	3695	2½°							

REMARKS

400	845	DRILL
845	900	RIG SERVICE
900	930	PULL OUT
930	1045	BOP CHECK
1045	1145	RUN IN (CLEAN OUT to BTM. 15' FILL
1145	1215	DRILL
1215	1245	SURVEY
1245	400	DRILL 2

MUD RECORD

	800	1200	200
TIME			
WEIGHT	10.1	10.1	10.1
VISC	140	130	125
W.L.-C.C.		6.4	
FLTR. CK.		2/32	
PH		9.5	
SD. CONT.			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

EVENING TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD	
52	STANDS DP	FT.	RUN NO	24
1	SNGLS. DP	3237.45 FT.	SIZE	12¼
15	D.C. 10-4½ ID 4-6¼ OD	444.33 FT.	MFG.	SEC
			TYPE	M4N
1	RMR BODY OD	320 FT.	NOZ. NO.	3
1	STB BODY OD	135 FT.	NOZ. SIZE	3/4
	SUBS OD	FT.	SER NO	790379
	BIT OR C.B.	FT.	DEPTH OUT	3727
		FT.	CUMULATIVE HOURS RUN	10
	KELLY DOWN	41.00 FT.	COND. OF BIT	
	TOTAL	3727.33 FT.	REAMER CUTTER NO.	
WT OF STRING	52M LBS.		TYPE	
DRILLER				

HRS. DRLD.	CORE NO.	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT. ON BIT 1000#	PUMP PRESS	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN
6¼		3706	3727	21	140	4-6m	1100	5½	65			

DEVIATION RECORD:	DEPTH	DEV.	DIRECTION	DEPTH	DEV	DIRECTION	DEPTH	DEV	DIRECTION
	3695	2½							

REMARKS

400	1015	DRILL
1015	1130	CIR CONDITION HOLE
1130	1200	LAY DOWN PIPE

MUD RECORD

	400	800	1000
TIME			
WEIGHT	10	10	
VISC	110	130	120
W.L.-C.C.			
FLTR CK.			
PH			
SD. CONT			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
GEL	1800		
DELTEX	250		

C.P.—38 (10/63) **DAILY DRILLING REPORT** REPORT NO. 34 DATE APRIL 5/65

OPERATOR	LOCATION LSD.	SEC.	TWP.	RGE.	W.	WELL NAME	No.	PROVINCE
SHELL CANADA LIMITED						SHELL CLIVIER LEAF	1-46	NWT

CONTRACTOR	RIG No.	DRILL PIPE STRING NO.	SIZE	TOOL JOINT	OD
REGENT	21	2	3½	TYPE THD.	IF

OPERATOR'S REPRESENTATIVE: B Cumble

CONTRACTOR'S TOOL PUSHER: L. R. Hansen

PUMPS

NO.	MANUFACTURER	TYPE	STROKE LENGTH
1.	EMSCO	D300	14
2.			
3.			

CASING & LINER RECORD	SIZE	WT. & GR.	DEPTH SET FROM	DEPTH SET TO	PERFORATIONS FROM	PERFORATIONS TO	CEMENT USED	OTHER
	13⅜	60.5#	0	716				

TIME DISTRIBUTION—HOURS

	MORN	DAY	EVE
DRILLING ACTUAL	7½	7½	7½
REAMING			
CIRCULATING			
TRIPS			
DEVIATION SURVEY	½	½	
TEST B.O.P			
CUT OFF DRILL LINE			
REPAIR RIG			
CORING			
WIRE LINE LOGGING			
OTHER		½	½
FISHING			
COMPLETING (A) PERFORATING			
(B) RUNNING TUBING			
(C) SWABBING			
(D) TESTING			
(E) ACIDIZING			
(F) ADDITIONAL			
TOTALS	8	8	8

TIME SUMMARY (OFFICE USE ONLY)

CONTRACTOR'S TIME HRS:

OPERATOR'S TIME:

HRS. W/D.P:

HRS W/O D.P:

HRS STANDBY

WIRE LINE RECORD

REEL NO

NO OF LINES SIZE

FEET SLIPPED

FEET CUT OFF

PRESENT LENGTH

TON MI. or TRIPS SINCE LAST CUT

CUMULATIVE TON MI. or TRIPS

NO. OF DAYS FROM SPUD

CUMULATIVE ROTATING HRS.

MORNING TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD	
51	STANDS DP	3146.09 FT.	RUN NO.	23
	SNGLS. DP	FT.	SIZE	12¼
15	D.C. 10-4½ ID 4-6½ 1-7¾ OD	444.33 FT.	MFG.	SEC
			TYPE	M44J
	RMR BODY OD	FT.	NOZ. NO.	3
	STB BODY OD	320 FT.	SIZE	3/4
	SUBS OD	135 FT.	SER. NO	780536
	BIT OR C.B.	FT.	DEPTH OUT	
		FT.	CUMULATIVE HOURS RUN	8¼
	KELLY DOWN	1800 FT.	COND. OF BIT	RUN
	TOTAL	3142.97 FT.	REAMER CUTTER NO	
	WT. OF STRING	52 LBS.	TYPE	

DRILLER: L McIntosh

HRS. DRLD.	CORE NO.	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT. ON BIT 1000#	PUMP PRESS.	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN
7½		3577	3612	35	140	6-8	1075	5½	65			

DEVIATION RECORD: DEPTH 3574 DEV. 2¼ DIRECTION

REMARKS

1200 200 DRILL
200 230 SURVEY
230 800 DRILL

MUD RECORD

TIME	1200	400	600
WEIGHT	10	10	10
VISC	125	105	123
W.L.-C.C.		5.6	
FLTR. CK.		2/32	
PH		9.5	
SD. CONT.			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
Gel	1600		
Caustic	50		
Soda Ash	50		

DAY TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD	
51	STANDS DP	3141.09 FT.	RUN NO.	23
	SNGLS. DP	FT.	SIZE	12¼
15	D.C. 10-4½ ID 4-6½ 1-7¾ OD	444.33 FT.	MFG.	SEC
			TYPE	M44J
	RMR BODY OD	320 FT.	NOZ. NO.	3
	STB BODY OD	135 FT.	SIZE	3/4
	SUBS OD	FT.	SER. NO	780536
	BIT OR C.B.	FT.	DEPTH OUT	
		FT.	CUMULATIVE HOURS RUN	15½
	KELLY DOWN	41 FT.	COND. OF BIT	
	TOTAL	3635.97 FT.	REAMER CUTTER NO.	
	WT. OF STRING	52M LBS.	TYPE	

DRILLER: Morrow

HRS. DRLD.	CORE NO.	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT. ON BIT 1000#	PUMP PRESS.	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN
7¾		3612	3635	23	140	8M	1500	5½	66			

DEVIATION RECORD: DEPTH 3636 DEV. 2¾° DIRECTION

REMARKS

8:00 8:15 RIG SERVICE
8:15 3:30 DRILL
3:30 4:00 SURVEY AN CHECH KELLY COCK

MUD RECORD

TIME			
WEIGHT			
VISC			
W.L.-C.C.			
FLTR. CK.			
PH			
SD. CONT.			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

EVENING TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD	
51	STANDS DP	FT.	RUN NO	23
1	SNGLS. DP	3176.70 FT.	SIZE	12¼
15	D.C. 10-4½ ID 4-6½ 1-7¾ OD	444.33 FT.	MFG.	SEC
			TYPE	M44J
	RMR BODY OD	320 FT.	NOZ. NO.	3
	STB BODY OD	135 FT.	SIZE	3/4
	SUBS OD	FT.	SER NO	780536
	BIT OR C.B.	FT	DEPTH OUT	
		FT.	CUMULATIVE HOURS RUN	23¼
	KELLY DOWN	3600 FT.	COND. OF BIT	RUN
	TOTAL	3661.58 FT.	REAMER CUTTER NO.	
	WT OF STRING	52M LBS.	TYPE	

DRILLER

HRS. DRLD.	CORE NO.	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT. ON BIT 1000#	PUMP PRESS	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN
7¾		3635	3661	26	140	4-6	1100	5½	65			

DEVIATION RECORD: DEPTH DEV. DIRECTION

REMARKS

400 4K RIG SERVICE
415 1200 DRILL

MUD RECORD

TIME	400	800	1000
WEIGHT	10	10	10
VISC	105	130	135
W.L.-C.C.			
FLTR CK.			
PH			
SD. CONT			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
Gel	1200		

C.P.—38 (10/63) **DAILY DRILLING REPORT** REPORT NO. 33 DATE April 8th 65

OPERATOR	LOCATION LSD. SEC. TWP. RGE. W.	WELL NAME	No.	PROVINCE
SHELL CANADA LIMITED		SHELL CLOVER LEAF	1-46	N.W.T

CONTRACTOR	RIG No.	DRILL PIPE STRING NO. SIZE	TOOL JOINT OD	TYPE THD.
REGENT	21	2 3½	4 3/4	IF

OPERATOR'S REPRESENTATIVE: W B Cumbe

CONTRACTOR'S TOOL PUSHER: L. R. Hansen

PUMPS

NO.	MANUFACTURER	TYPE	STROKE LENGTH
1.	EMSCO	D 300	14
2.			
3.			

CASING & LINER RECORD

SIZE	WT. & GR.	DEPTH SET FROM	DEPTH SET TO	PERFORATIONS FROM	PERFORATIONS TO	CEMENT USED	OTHER
13⅜	61 55#	0	716				

TIME DISTRIBUTION—HOURS

	MORN	DAY	EVE
DRILLING ACTUAL	5½	7½	3½
REAMING			
CIRCULATING			
TRIPS			3¾
DEVIATION SURVEY		½	½
TEST B.O.P			¼
CUT OFF DRILL LINE			
REPAIR RIG	2½		
CORING			
WIRE LINE LOGGING			
OTHER			¼
FISHING			
COMPLETING (A) PERFORATING			
(B) RUNNING TUBING			
(C) SWABBING			
(D) TESTING			
(E) ACIDIZING			
(F) ADDITIONAL			
TOTALS	8	8	8

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. or TRIPS SINCE LAST CUT

CUMULATIVE TON MI. or TRIPS

NO. OF DAYS FROM SPUD

CUMULATIVE ROTATING HRS.

MORNING TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD	
49	STANDS DP	FT.	RUN NO.	22
1	SNGLS. DP	30 53.35 FT.	SIZE	12¼
15	D.C. 10-4½ ID 4 6½ OD	444.33 FT.	MFG.	SEC
	RMR BODY OD	FT.	TYPE	MUDI
	STB BODY OD	FT.	NOZ. NO.	3
	SUBS OD	FT.	NOZ. SIZE	3/4
	BIT OR C.B.	FT.	SER. NO	79042
		FT.	DEPTH OUT	
	KELLY DOWN	FT.	CUMULATIVE HOURS RUN	12
	TOTAL	FT.	COND. OF BIT	RUN
WT. OF STRING	LBS.		REAMER CUTTER NO.	
			TYPE	

DRILLER: L McGrath

HRS. DRLD.	CORE NO.	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT. ON BIT 1000#	PUMP PRESS.	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN
5½		3508	3536	28	140	10M	1050	5½	65			

DEVIATION RECORD:

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

REMARKS

1200	315	DRILL
315	545	PULL UP REPACK SWIVEL
545	800	DRILL

MUD RECORD

TIME	1200	400	600
WEIGHT	10	10	10
VISC	115	115	125
W.L.-C.C.		5.8	
FLTR. CK.		2/32	
PH		9.5	
SD. CONT.			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
GEL	2000		
CAUST.	160		
Sup Lig	160		

DAY TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD	
50	STANDS DP	3084.88 FT.	RUN NO.	22
	SNGLS. DP	FT.	SIZE	12¼
15	D.C. 10-4½ ID 4 6½ OD	444.33 FT.	MFG.	SEC
	RMR BODY OD	135 FT.	TYPE	MUN
	STB BODY OD	3.20 FT.	NOZ. NO.	3
	SUBS OD	FT.	NOZ. SIZE	3/4
	BIT OR C.B.	FT.	SER. NO.	79042
		FT.	DEPTH OUT	3574
	KELLY DOWN	34. FT.	CUMULATIVE HOURS RUN	18½
	TOTAL	3567.76 FT.	COND. OF BIT	Rual
WT. OF STRING	52M LBS.		REAMER CUTTER NO.	
			TYPE	

DRILLER: L Moran

HRS. DRLD.	CORE NO.	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT. ON BIT 1000#	PUMP PRESS.	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN
7½		3536	3567	31								

DEVIATION RECORD:

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION
3543								

REMARKS

800	930	DRILL
930	1000	RIG SERVICE JET CELLER AN RUN SURVEY
1000	400	DRILL

MUD RECORD

TIME			
WEIGHT			
VISC			
W.L.-C.C.			
FLTR. CK.			
PH			
SD. CONT.			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

EVENING TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD		
50	STANDS DP	FT.	RUN NO	22	23
1	SNGLS. DP	3105.84 FT.	SIZE	12¼	12¼
15	D.C. 10-4½ ID 4 6½ OD	444.33 FT.	MFG.	SEC	SEC
	RMR BODY OD	326 FT.	TYPE	RR44	RR44
	STB BODY OD	135 FT.	NOZ. NO.	3	3
	SUBS OD	FT.	NOZ. SIZE	3/4	3/4
	BIT OR C.B.	FT.	SER NO	79042	79596
		FT.	DEPTH OUT	3574	
	KELLY DOWN	1400 FT.	CUMULATIVE HOURS RUN	22	3/4
	TOTAL	3577.72 FT.	COND. OF BIT	421	Rual
WT OF STRING	52 LBS.		REAMER CUTTER NO.		
			TYPE		

DRILLER

HRS. DRLD.	CORE NO.	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT. ON BIT 1000#	PUMP PRESS	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN
3½		3567	3577	10	140	6-8	1075	5½	65			

DEVIATION RECORD:

DEPTH	DEV.	DIRECTION	DEPTH	DEV	DIRECTION	DEPTH	DEV	DIRECTION

REMARKS

1200	630	DRILL
630	700	SURVEY (LAST TOTCO)
700	845	HOIST TO RECOVER TOTCO AND OVERSHOT
845	915	RIG SERVICE CHECK BOPS RECOVER TOTCO
915	1115	RUN IN CLEAN TO BOTTOM
1115	1200	DRILL

MUD RECORD

TIME	400	1200	
WEIGHT	10	10	
VISC	115	120	
W.L.-C.C.			
FLTR CK.			
PH			
SD. CONT			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

C.P. 31 (10/63) **DAILY DRILLING REPORT** 33 **REPORT NO.** 32 **DATE** April 3 /65

OPERATOR	LOCATION LSD.	SEC.	TWP.	RGE.	W.	WELL NAME	No.	PROVINCE
SHELL CANADA LIMITED						Shell Clover Leaf	140	NWT

CONTRACTOR	RIG No.	DRILL PIPE STRING NO.	SIZE	TOOL JOINT	OD
REGENT	21	2	3½	TYPE THD.	IF

OPERATOR'S REPRESENTATIVE: W B Cumble

CONTRACTOR'S TOOL PUSHER: L. R. Hansen

PUMPS

NO.	MANUFACTURER	TYPE	STROKE LENGTH
1.	Emsco	D300	14
2.			
3.			

CASING & LINER RECORD

SIZE	WT. & GR.	DEPTH SET FROM	DEPTH SET TO	PERFORATIONS FROM	PERFORATIONS TO	CEMENT USED	OTHER

TIME DISTRIBUTION—HOURS

	MORN	DAY	EVE
DRILLING ACTUAL	5½		6¾
REAMING			
CIRCULATING	½		
TRIPS	1½	7¼	1¼
DEVIATION SURVEY	¾		
TEST B.O.P		½	
CUT OFF DRILL LINE			
REPAIR RIG		6¼	
CORING			
WIRE LINE LOGGING			
OTHER			¼
FISHING			
COMPLETING (A) PERFORATING			
(B) RUNNING TUBING			
(C) SWABBING			
(D) TESTING			
(E) ACIDIZING			
(F) ADDITIONAL			
TOTALS	8	13	3

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. or TRIPS SINCE LAST CUT

CUMULATIVE TON MI. or TRIPS

NO. OF DAYS FROM SPUD

CUMULATIVE ROTATING HRS.

MORNING TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD	
48	STANDS DP	2981.46 FT.	RUN NO.	21
	SNGLS. DP	FT.	SIZE	12¼
15	D.C. ID 6" OD 8" 7⅝	444.33 FT.	MFG.	SEC
	RMR BODY OD	320 FT.	TYPE	DAWN
	STB BODY OD	135 FT.	NOZ. NO.	3
	SUBS OD	FT.	SIZE	3/4
	BIT OR C.B.	FT.	SER. NO	79341
		FT.	DEPTH OUT	
	KELLY DOWN	3800 FT.	CUMULATIVE HOURS RUN	25 3/4
	TOTAL	3478.34 FT.	COND. OF BIT	LOCKED
WT. OF STRING	52M LBS.		REAMER CUTTER NO.	
			TYPE	

DRILLER: L McIntosh

HRS. DRLD.	CORE NO.	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT. ON BIT 1000#	PUMP PRESS.	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN
5½		3450	3478	28	140	10M	1000	5½	66			

DEVIATION RECORD:

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION
3440	2½							

REMARKS

1200 5½ DRILL
5½ 6¼ CIR FOR TRIP AND SURVEY.
6¼ 630 SURVEY
630 8⁰⁰ HOIST FOR BIT

MUD RECORD

TIME	1200	2⁰⁰	8⁰⁰
WEIGHT	101	101	101
VISC	110	115	
W.L.-C.C.			
FLTR. CK.			
PH			
SD. CONT.			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
Gel	3700		
Caustic	50		
Soda Ash	250		
WATER	3½in	STREAM	

DAY TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD	
	STANDS DP	FT.	RUN NO.	22
	SNGLS. DP	FT.	SIZE	12¼
	D.C. ID OD	FT.	MFG.	SEC
	RMR BODY OD	FT.	TYPE	M4N
	STB BODY OD	FT.	NOZ. NO.	3
	SUBS OD	FT.	SIZE	3/4
	BIT OR C.B.	FT.	SER. NO.	79 11402
		FT.	DEPTH OUT	
	KELLY DOWN	FT.	CUMULATIVE HOURS RUN	
	TOTAL	FT.	COND. OF BIT	
WT. OF STRING		LBS.	REAMER CUTTER NO.	
			TYPE	

DRILLER: A Morrow

HRS. DRLD.	CORE NO.	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT. ON BIT 1000#	PUMP PRESS.	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN

DEVIATION RECORD:

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

REMARKS

8¹⁰ 8³⁰ RIG SERVICE AND BOP CHECH
8³⁰ 9¹⁵ RUN IN O.C
9¹⁵ 10⁰⁰ REPACKING SWIVEL
10⁰⁰ 4⁰⁰ CHANG TRANSFER CASE

MUD RECORD

TIME			
WEIGHT			
VISC			
W.L.-C.C.			
FLTR. CK.			
PH			
SD. CONT.			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

EVENING TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD	
49	STANDS DP	3012.48 FT.	RUN NO	22
	SNGLS. DP	FT.	SIZE	12¼
15	D.C. ID 6" OD 8" 7⅝	444.33 FT.	MFG.	SEC
	RMR BODY OD	320 FT.	TYPE	M4N
	STB BODY OD	135 FT.	NOZ. NO.	3
	SUBS OD	FT.	SIZE	3/4
	BIT OR C.B.	FT	SER NO	79 10402
		FT.	DEPTH OUT	
	KELLY DOWN	3700 FT.	CUMULATIVE HOURS RUN	6½
	TOTAL	3508.28 FT.	COND. OF BIT	
WT OF STRING	52M LBS.		REAMER CUTTER NO.	
			TYPE	

DRILLER

HRS. DRLD.	CORE NO.	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT. ON BIT 1000#	PUMP PRESS	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN
6½		3478	3508	30	140	10M	1000	5½	66			

DEVIATION RECORD:

DEPTH	DEV.	DIRECTION	DEPTH	DEV	DIRECTION	DEPTH	DEV	DIRECTION

REMARKS

400 415 RIG SERVICE
415 530 RUN IN CLEAN TO BOTTOM 15' FILL
530 1200 DRILL

MUD RECORD

TIME	600	800	1060
WEIGHT	101	101	101
VISC	155	125	120
W.L.-C.C.		5.8	
FLTR. CK.		2/32	
PH		9.5	
SD. CONT			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

C.P. 311 (10/63)

DAILY DRILLING REPORT

REPORT NO. 5 DATE April 2

OPERATOR	LOCATION LSD. SEC. TWP. RGE. W.	WELL NAME	No.	PROVINCE
SHELL CANADA LIMITED		SHELL CLOVER LEAF	1-46	NWT

CONTRACTOR	RIG No.	DRILL PIPE STRING NO. SIZE	TOOL JOINT 4 1/2 OD	TYPE THD. IF
REGENT		2 3 1/2		

OPERATOR'S REPRESENTATIVE: W S Cousins

CONTRACTOR'S TOOL PUSHER: L B Hansen

PUMPS

NO.	MANUFACTURER	TYPE	STROKE LENGTH
1.	EMSCO	D360	14
2.			
3.			

CASING & LINER RECORD	SIZE	WT. & GR.	DEPTH SET FROM	DEPTH SET TO	PERFORATIONS FROM	PERFORATIONS TO	CEMENT USED	OTHER
	13 3/8	61 55#	0	716				

TIME DISTRIBUTION—HOURS

	MORN	DAY	EVE
DRILLING ACTUAL	7 3/4	7 1/4	5 3/4
REAMING			
CIRCULATING	1/4		
TRIPS		1/2	1/2
DEVIATION SURVEY	1/2		1/2
TEST B.O.P.			
CUT OFF DRILL LINE			
REPAIR RIG			1
CORING			
WIRE LINE LOGGING			
OTHER		1/4	1/4
FISHING			
COMPLETING (A) PERFORATING			
(B) RUNNING TUBING			
(C) SWABBING			
(D) TESTING			
(E) ACIDIZING			
(F) ADDITIONAL			
TOTALS	8	9	

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. or TRIPS SINCE LAST CUT

CUMULATIVE TON MI. or TRIPS

NO. OF DAYS FROM SPUD

CUMULATIVE ROTATING HRS.

MORNING TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD	
46	STANDS DP	FT.	RUN NO.	21
1	SNGLS. DP	2897.39 FT.	SIZE	12 1/4
14	D.C. ID / OD	444.33 FT.	MFG.	SEC
	RMR BODY OD	3.20 FT.	TYPE	MWN
	STB BODY OD	1.35 FT.	NOZ. NO.	3
	SUBS OD	FT.	NOZ. SIZE	3 1/4
	BIT OR C.B.	FT.	SER. NO	790341
		FT.	DEPTH OUT	
	KELLY DOWN	3400 FT.	CUMULATIVE HOURS RUN	8 3/4
	TOTAL	3380.27 FT.	COND. OF BIT	
WT. OF STRING	52M LBS.		REAMER CUTTER NO.	
			TYPE	

DRILLER: G McIntosh

HRS. DRLD.	CORE NO.	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT. ON BIT 1000#	PUMP PRESS.	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN
7 1/4		3333	3380	47	140	4-6	1000	5 1/2	66			

DEVIATION RECORD:	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION
	3315	2 1/2							

REMARKS

1200	315	DRILL
315	400	CIR FOR SURVEY Rig SERVICE AND SURVEY
400	EOD	DRILL

MUD RECORD			
TIME	1200	700	600
WEIGHT	9.9	10	10
VISC	115	110	110
W.L.-C.C.			
FLTR. CK.			
PH			
SD. CONT.			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
GEL	1000		
CAUSTIC	50		
Sup Lig	100		

DAY TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD	
47	STANDS DP	FT.	RUN NO.	21
1	SNGLS. DP	29604 FT.	SIZE	12 1/4
13	D.C. 4-6 1/2 ID / 1-7 5/8 OD	444.33 FT.	MFG.	SEC
	RMR BODY OD	3.20 FT.	TYPE	M4N
	STB BODY OD	1.35 FT.	NOZ. NO.	3
	SUBS OD	FT.	NOZ. SIZE	3 1/4
	BIT OR C.B.	FT.	SER. NO.	790341
		FT.	DEPTH OUT	
	KELLY DOWN	11.00 FT.	CUMULATIVE HOURS RUN	15 1/2
	TOTAL	3420.36 FT.	COND. OF BIT	RUN
WT. OF STRING	52M LBS.		REAMER CUTTER NO.	
			TYPE	

DRILLER: Amyrow

HRS. DRLD.	CORE NO.	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT. ON BIT 1000#	PUMP PRESS.	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN
1 1/4		3360	3420	40	140	10M	1000	5 1/2	66			

DEVIATION RECORD:	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

REMARKS

800	815	Rig SERVICE
815	330	DRILL
330	400	Pulling out 15 STANDS TO PACK SWIVEL

MUD RECORD			
TIME	800	1200	400
WEIGHT	10.1	10.1	10.1
VISC	100	115	120
W.L.-C.C.		6.8	
FLTR. CK.		2/32	
PH		9.5	
SD. CONT.			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
GEL	3200		
CAUSTIC	100		
SUDLIG	300		

EVENING TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD	
47	STANDS DP	FT.	RUN NO.	21
1	SNGLS. DP	2950.49 FT.	SIZE	12 1/4
15	D.C. ID / OD	444.33 FT.	MFG.	SEC
	RMR BODY OD	3.20 FT.	TYPE	M4N
	STB BODY OD	1.35 FT.	NOZ. NO.	3
	SUBS OD	FT.	NOZ. SIZE	3 1/4
	BIT OR C.B.	FT.	SER. NO	790341
		FT.	DEPTH OUT	
	KELLY DOWN	41.00 FT.	CUMULATIVE HOURS RUN	20 1/2
	TOTAL	3451.36 FT.	COND. OF BIT	
WT. OF STRING	52M LBS.		REAMER CUTTER NO.	
			TYPE	

DRILLER

HRS. DRLD.	CORE NO.	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT. ON BIT 1000#	PUMP PRESS	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN
5 1/2		3420	3450	30	140	10M	1000	5 1/2	66			

DEVIATION RECORD:	DEPTH	DEV.	DIRECTION	DEPTH	DEV	DIRECTION	DEPTH	DEV	DIRECTION
	3418	2 1/4							

REMARKS

400	415	Rig SERVICE
415	515	REPACK SWIVEL
515	545	RUN IN CLEAN TO BOTTOM
545	700	DRILL
700	730	SURVEY
730	1200	DRILL

MUD RECORD			
TIME	600	800	1200
WEIGHT	10.1	10.1	10.1
VISC	135	120	120
W.L.-C.C.		5.4	
FLTR CK.		2/32	
PH		9.5	
SD. CONT			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

C.P.—3B (10/63) **DAILY DRILLING REPORT** REPORT NO. 30 DATE APRIL 17/65

OPERATOR	LOCATION LSD.	SEC.	TWP.	RGE.	W.	WELL NAME	No.	PROVINCE
SHELL CANADA LIMITED						SHELL CLOVERLEAF	1-46	NWT

CONTRACTOR	RIG No.	DRILL PIPE STRING NO. SIZE	TOOL JOINT	
REGENT	#21	2 5½	4¾ OD	TYPE THD. IF

OPERATOR'S REPRESENTATIVE: B Canada

CONTRACTOR'S TOOL PUSHER: C.P. Mayfield

PUMPS

NO.	MANUFACTURER	TYPE	STROKE LENGTH
1.	EMSCO	D200	16
2.			
3.			

CASING & LINER RECORD

SIZE	WT. & GR.	DEPTH SET FROM	DEPTH SET TO	PERFORATIONS FROM	PERFORATIONS TO	CEMENT USED	OTHER

TIME DISTRIBUTION—HOURS

	MORN	DAY	EVE
DRILLING ACTUAL	2½	4¾	9¼
REAMING			
CIRCULATING	¼	¾	¼
TRIPS		1½	
DEVIATION SURVEY	½	½	½
TEST B.O.P			
CUT OFF DRILL LINE			
REPAIR RIG			
CORING			
WIRE LINE LOGGING			
OTHER		½	
FISHING			
COMPLETING (A) PERFORATING			
(B) RUNNING TUBING			
(C) SWABBING			
(D) TESTING			
(E) ACIDIZING			
(F) ADDITIONAL			
TOTALS	8	8	

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. or TRIPS SINCE LAST CUT

CUMULATIVE TON MI. or TRIPS

NO. OF DAYS FROM SPUD

CUMULATIVE ROTATING HRS.

MORNING TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD	
45	STANDS DP	2805.70 FT.	RUN NO.	20
	SNGLS. DP	FT.	SIZE	12¼
	4-6½ ID		MFG.	SEC
	9⅝-4½ OD	444.33 FT.	TYPE	M4N
	RMR BODY OD	3.20 FT.	NOZ. NO.	3
	STB BODY OD	1.36 FT.	SIZE	3/4
	SUBS OD	FT.	SER. NO	774595
	BIT OR C.B.	FT.	DEPTH OUT	
		FT.	CUMULATIVE HOURS RUN	24¼
	KELLY DOWN	40.00 FT.	COND. OF BIT	RUN
	TOTAL	3294.58 FT.	REAMER CUTTER NO.	
WT. OF STRING	48M LBS.		TYPE	

DRILLER: L McIntosh

HRS. DRLD.	CORE NO.	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT. ON BIT 1000#	PUMP PRESS.	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN
7¼		3155	3294	39	140	4-6	1050	5½				

DEVIATION RECORD:	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION
	3223	3							

REMARKS

1200 1445 DRILL 4-6 ON BIT
1445 2130 CIRC CLEAN HOLE FOR SURVEY AND SURVEY
2130 400 DRILL

MUD RECORD

TIME	1200	400	600
WEIGHT	99	99	99
VISC	100	104	105
W.L.-C.C.			
FLTR. CK.			
PH			
SD. CONT.			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

DAY TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD	
	STANDS DP	FT.	RUN NO.	20
	SNGLS. DP	FT.	SIZE	12¼
	D.C. ID		MFG.	SEC
	OD	FT.	TYPE	M4N
	RMR BODY OD	FT.	NOZ. NO	3
	STB BODY OD	FT.	SIZE	3/4
	SUBS OD	FT.	SER. NO.	774595
	BIT OR C.B.	FT.	DEPTH OUT	3325
		FT.	CUMULATIVE HOURS RUN	19
	KELLY DOWN	FT.	COND. OF BIT	
	TOTAL	FT.	REAMER CUTTER NO.	
WT. OF STRING	LBS.		TYPE	

DRILLER: J. Hubbard

HRS. DRLD.	CORE NO.	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT. ON BIT 1000#	PUMP PRESS.	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN
4¾		3094	3325		140	5	1000	5½	66			

DEVIATION RECORD:	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION
	~~3094~~	~~2¼~~	~~3054~~	3254	2¾				

REMARKS

7⁰⁰ 8¹² RIG SERVICE
8¹² 8⁴² CIRC ½ hr & SURVEY
8⁴² 10⁰⁰ DRILL
10⁰⁰ 11⁰⁰ CIRC ½ hr. and PULL 15 STDS.
11¹² 12⁰⁰ PICK UP 3 stds. COLLARS IN DERRICK AND LAY DOWN
12⁰⁰ 12³⁰ RUN IN & CLEAN TO BTM.
12³⁰ 4⁰⁰ DRILL

MUD RECORD

TIME	1000	1200	800
WEIGHT	9.9	9.9	9.9
VISC	105	105	100
W.L.-C.C.	6.4		
FLTR. CK.	2/32		
PH	9.5		
SD. CONT.			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
GEL		18	
CAUSTIC		7	
SUPERMUL		10	

EVENING TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD	
46	STANDS DP	2866.64 FT.	RUN NO	21
	SNGLS. DP	FT.	SIZE	12¼
15	D.C. ID		MFG.	SEC
	OD	444.33 FT.	TYPE	M4N
	RMR BODY OD	1.35 FT.	NOZ. NO.	3
	STB BODY OD	3.20 FT.	SIZE	3/4
	SUBS OD	FT.	SER NO	790341
	BIT OR C.B.	FT.	DEPTH OUT	
		FT.	CUMULATIVE HOURS RUN	1
	KELLY DOWN	17.00 FT.	COND. OF BIT	
	TOTAL	3333.52 FT.	REAMER CUTTER NO.	
WT OF STRING	52M LBS.		TYPE	

DRILLER:

HRS. DRLD.	CORE NO.	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT. ON BIT 1000#	PUMP PRESS	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN
1¼		3325	3333	8	140	4-6	1000	5½	66			

DEVIATION RECORD:	DEPTH	DEV.	DIRECTION	DEPTH	DEV	DIRECTION	DEPTH	DEV	DIRECTION
	3284	2 1/2							

REMARKS

4⁰⁰ 4¹⁵ DRILL
4¹⁵ 5⁰⁰ CIRC & WORK PIPE FOR SURVEY & TRIP
5⁰⁰ ~~5³⁰~~ 5³⁰ SURVEY
~~5³⁰~~ 7⁴⁵ RIG SERVICE BOP CHECK
7⁴⁵ 9⁰⁰ SLIP AND CUT 39 FT OF LINE
9⁰⁰ 11⁰⁰ RUN IN CLEAN TO BOTTOM
11⁰⁰ 12⁰⁰ DRILL

MUD RECORD

TIME	400	600	
WEIGHT	99	99	
VISC	120	160	
W.L.-C.C.	6.6		
FLTR. CK.	2/32		
PH	9.5		
SD. CONT			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

C-31 (10/65) **DAILY DRILLING REPORT** REPORT NO. 29 DATE MARCH 31

OPERATOR	LOCATION LSD.	SEC.	TWP.	RGE.	W.	WELL NAME	No.	PROVINCE
SHELL CANADA LIMITED						SHELL CLOVER LEAF	1-46	NWT

CONTRACTOR	RIG No.	DRILL PIPE STRING NO. SIZE	TOOL JOINT	OD
REGENT	21	2 5½	TYPE THD	

OPERATOR'S REPRESENTATIVE: W B Lamb

CONTRACTOR'S TOOL PUSHER: R. Mayfield

PUMPS

NO.	MANUFACTURER	TYPE	STROKE LENGTH
1.	EMSCO	D300	14
2.			
3.			

CASING & LINER RECORD

SIZE	WT. & GR.	DEPTH SET FROM	DEPTH SET TO	PERFORATIONS FROM	PERFORATIONS TO	CEMENT USED	OTHER
13⅜	54.5	0	716				

TIME DISTRIBUTION—HOURS

	MORN	DAY	EVE
DRILLING ACTUAL	3	6½	7½
REAMING			
CIRCULATING		½	
TRIPS	2		
DEVIATION SURVEY		½	½
TEST B.O.P			
CUT OFF DRILL LINE			
REPAIR RIG	3		
CORING			
WIRE LINE LOGGING			
OTHER		½	
FISHING			
COMPLETING (A) PERFORATING			
(B) RUNNING TUBING			
(C) SWABBING			
(D) TESTING			
(E) ACIDIZING			
(F) ADDITIONAL			
TOTALS	8	8	

TIME SUMMARY (OFFICE USE ONLY)

CONTRACTOR'S TIME HRS:

OPERATOR'S TIME:

HRS. W/D.P:

HRS W/O D.P:

HRS STANDBY

WIRE LINE RECORD

REEL NO

NO OF LINES SIZE

FEET SLIPPED

FEET CUT OFF

PRESENT LENGTH

TON MI. or TRIPS SINCE LAST CUT

CUMULATIVE TON MI. or TRIPS

NO. OF DAYS FROM SPUD

CUMULATIVE ROTATING HRS.

MORNING TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD	
43	STANDS DP	FT.	RUN NO.	20
1	SNGLS. DP	2681.81 FT.	SIZE	12¼
14	D.C. ID		MFG.	SEC
	D.C. OD	444.33 FT.	TYPE	M44N
	RMR BODY OD	320 FT.	NOZ. NO.	3
	STB BODY OD	136 FT.	NOZ. SIZE	3/4
	SUBS OD	FT.	SER. NO.	774595
	BIT OR C.B.	FT.	DEPTH OUT	Run
		FT.	CUMULATIVE HOURS RUN	3
	KELLY DOWN	3600 FT.	COND. OF BIT	RUN
	TOTAL	3166.77 FT.	REAMER CUTTER NO.	
	WT. OF STRING	48M LBS.	TYPE	

DRILLER: L McIntosh

HRS. DRLD.	CORE NO.	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT. ON BIT 1000#	PUMP PRESS.	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN
3		3146	3166	20	140	6-8	900	5½	66			

DEVIATION RECORD: DEPTH | DEV. | DIRECTION | DEPTH | DEV. | DIRECTION | DEPTH | DEV. | DIRECTION

REMARKS

12⁰⁰	1⁰⁰	FINISH OUT - RUN IN DC
1⁰⁰	4⁰⁰	CHANGE HEADS LINERS REPACK SWIVEL
4⁰⁰	5⁰⁰	FINISH IN CLEAN TO BOTTOM
5⁰⁰	6⁰⁰	DRILL

MUD RECORD

TIME	600			
WEIGHT	98			
VISC	100			
W.L.-C.C.				
FLTR. CK.				
PH				
SD. CONT.				

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
Gel	1000		

DAY TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD	
44	STANDS DP	2743.74 FT.	RUN NO.	20
	SNGLS. DP	FT.	SIZE	12¼
15	D.C. ID	4-6½ 10-4½ 1-7⅝	MFG.	SEC
	D.C. OD	FT.	TYPE	M44N
	RMR BODY OD	444.33 FT.	NOZ. NO	3
	STB BODY OD	3.90 FT.	NOZ. SIZE	3/4
	SUBS OD	1.35 FT.	SER. NO.	774595
	BIT OR C.B.	FT.	DEPTH OUT	Run
		FT.	CUMULATIVE HOURS RUN	9½
	KELLY DOWN	20 FT.	COND. OF BIT	Rdg
	TOTAL	FT.	REAMER CUTTER NO.	
	WT. OF STRING	3812.67 LBS.	TYPE	

DRILLER: J. Dickson 48,000

HRS. DRLD.	CORE NO.	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT. ON BIT 1000#	PUMP PRESS.	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN
6½		3166	3212	46	140	6	900	5½	66			

DEVIATION RECORD: DEPTH 3160 | DEV. 2¾° | DIRECTION | DEPTH | DEV. | DIRECTION | DEPTH | DEV. | DIRECTION

REMARKS

7⁰⁰	8¹⁵	Rig Service
8¹⁵	9⁰⁰	Drill
9⁰⁰	9⁴⁵	Circ & condition mud
9⁴⁵	2¹⁵	Drill working pipe @ 5' intervals
2¹⁵	3⁰⁰	Circ ¼ hr & survey
3⁰⁰	4⁰⁰	Drill

MUD RECORD

TIME	800	1200	200
WEIGHT	9.7	9.9	9.9
VISC	60	90	90
W.L.-C.C.		6.8	
FLTR. CK.		8/32	
PH		9.5	
SD. CONT.			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
WATER	—		
GEL	— 5300#		
CAUSTIC	— 100#		
SUPER LIG	— 500#		

EVENING TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD	
44	STANDS DP	FT.	RUN NO	20
1	SNGLS. DP	2774.76 FT.	SIZE	12¼
15	4-6½ ID D.C.'D - 4⅝ 1-7⅝ OD	444.33 FT.	MFG.	SEC
			TYPE	M44N
	RMR BODY OD	320 FT.	NOZ. NO.	3
	STB BODY OD	135 FT.	NOZ. SIZE	3/4
	SUBS OD	FT.	SER NO	774595
	BIT OR C.B.	FT	DEPTH OUT	Run
		FT.	CUMULATIVE HOURS RUN	17
	KELLY DOWN	3200 FT.	COND. OF BIT	
	TOTAL	3254.14 FT.	REAMER CUTTER NO.	
	WT OF STRING	46M LBS.	TYPE	

DRILLER

HRS. DRLD.	CORE NO.	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT. ON BIT 1000#	PUMP PRESS	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN
		3212	3255	43	140	4-6	1050	6½	66			

DEVIATION RECORD: DEPTH 3193 | DEV. 3° | DIRECTION | DEPTH | DEV | DIRECTION | DEPTH | DEV | DIRECTION

REMARKS

NC	7³⁰	Drlg (working pipe every 10')
7³⁰	7⁴⁵	Circ ¼ hr. & survey
7⁴⁵	1200	Drill

MUD RECORD

TIME	600	800	1200
WEIGHT	9.9	9.9	9.9
VISC	120	120	120
W.L.-C.C.			
FLTR CK.			
PH			
SD. CONT			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

C.P.-38 (10/63) **DAILY DRILLING REPORT** REPORT NO. 28 DATE MARCH 30/65

OPERATOR	LOCATION LSD. SEC. TWP. RGE. W.	WELL NAME	No.	PROVINCE
SHELL CANADA LIMITED		SHELL CROWN LENE	1-46	ALTA

CONTRACTOR	RIG No.	DRILL PIPE STRING NO. / SIZE	TOOL JOINT	OD
REGENT	21	2 / 3½	TYPE THD.	15

OPERATOR'S REPRESENTATIVE: [illegible]

CONTRACTOR'S TOOL PUSHER: R. Whitford

PUMPS

NO.	MANUFACTURER	TYPE	STROKE LENGTH
1.	EMSCO	D300	14
2.			
3.			

CASING & LINER RECORD

SIZE	WT. & GR.	DEPTH SET FROM	DEPTH SET TO	PERFORATIONS FROM	PERFORATIONS TO	CEMENT USED	OTHER

TIME DISTRIBUTION — HOURS

	MORN	DAY	EVE
DRILLING ACTUAL	7	7	6½
REAMING			
CIRCULATING	¼		½
TRIPS			¼
DEVIATION SURVEY	¾	¾	
TEST B.O.P			
CUT OFF DRILL LINE			
REPAIR RIG			
CORING			
WIRE LINE LOGGING			
[illegible]		½	
FISHING			
COMPLETING (A) PERFORATING			
(B) RUNNING TUBING			
(C) SWABBING			
(D) TESTING			
(E) ACIDIZING			
(F) ADDITIONAL			
TOTALS	8	8	8

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. or TRIPS SINCE LAST CUT

CUMULATIVE TON MI. or TRIPS

NO. OF DAYS FROM SPUD

CUMULATIVE ROTATING HRS.

MORNING TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD	
42	STANDS DP	FT.	RUN NO.	18
	SNGLS. DP	25.79 FT.	SIZE	12¼
15	D.C. ID		MFG.	SEC
	D.C. OD	444.33 FT.	TYPE	M44J
	RMR BODY OD	320 FT.	NOZ. NO.	3
	STB BODY OD	135 FT.	NOZ. SIZE	3/4
	SUBS OD	FT.	SER. NO	790365
	BIT OR C.B.	FT.	DEPTH OUT	
		FT.	CUMULATIVE HOURS RUN	18½
	KELLY DOWN	41.00 FT.	COND. OF BIT	RUN
	TOTAL	3079.67 FT.	REAMER CUTTER NO.	
	WT. OF STRING	48 M LBS.	TYPE	

DRILLER: A McIntosh

HRS. DRLD.	CORE NO.	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT. ON BIT 1000#	PUMP PRESS.	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN
7		3048	3079	31	140	6-8	1100	6½	56			

DEVIATION RECORD: DEPTH 3007 DEV. 2¾ DIRECTION —; DEPTH 3038 DEV. 3 DIRECTION —

REMARKS

1200	1215 CIR FOR SURVEY
1215	1245 RIG SERVICE AND SURVEY
1245	745 DRILL
745	800 CIR FOR SURVEY

MUD RECORD

TIME	12	400	600
WEIGHT	97	98	98
VISC	75	75	75
W.L.-C.C.			
FLTR. CK.			
PH			
SD. CONT.			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
GEL	2000		

DAY TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD	
42	STANDS DP	2650.36 FT.	RUN NO.	19
	SNGLS. DP	FT.	SIZE	12¼
15	D.C. ID		MFG.	SEC
	D.C. OD	444.33 FT.	TYPE	M44J
	RMR BODY OD	FT.	NOZ. NO.	3
	STB BODY OD	FT.	NOZ. SIZE	3/4
	SUBS OD	FT.	SER. NO.	790360
	BIT OR C.B.	FT.	DEPTH OUT	
		FT.	CUMULATIVE HOURS RUN	25-¼
	KELLY DOWN	FT.	COND. OF BIT	DRL
	TOTAL	17 FT.	REAMER CUTTER NO.	
	WT. OF STRING	3116.26 LBS.	TYPE	

DRILLER: J. Dillard

HRS. DRLD.	CORE NO.	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT. ON BIT 1000#	PUMP PRESS.	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN
7		3079	3116		140	6000	1100	6½	56			

DEVIATION RECORD: DEPTH 3069 DEV. 2¾ DIRECTION —; DEPTH — DEV. — DIRECTION —; DEPTH — DEV. — DIRECTION —

REMARKS

800	815 RIG SERVICE
815	200 DRILL
200	300 CIRC ¼ hr. + SURVEY
300	400 DRILL

MUD RECORD

TIME	800	1200	200
WEIGHT	9.8	9.9	9.9
VISC	78	88	78
W.L.-C.C.		6.8	
FLTR. CK.		2/32	
PH		9.5	
SD. CONT.			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
WATER			76
GEL		4000	76
CAUSTIC		75	76
SUPERMIX		400	76

EVENING TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD	
42	STANDS DP	FT.	RUN NO	19
7	SNGLS. DP	268.67 FT.	SIZE	12¼
15	D.C ID		MFG.	SEC
	D.C OD	444.33 FT.	TYPE	M44J
	RMR BODY OD	320 FT.	NOZ. NO.	3
	STB BODY OD	135 FT.	NOZ. SIZE	3/4
	SUBS OD	FT.	SER NO	790360
	BIT OR C.B.	FT	DEPTH OUT	3146
		FT.	CUMULATIVE HOURS RUN	31¾
	KELLY DOWN	1600 FT.	COND. OF BIT	
	TOTAL	3146.77 FT.	REAMER CUTTER NO.	
	WT OF STRING	48 LBS.	TYPE	

DRILLER

HRS. DRLD.	CORE NO.	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT. ON BIT 1000#	PUMP PRESS	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN
6¼		3126	3146	30	140	6-8	1100	6½	56			

DEVIATION RECORD: DEPTH 3099 DEV. 2¾ DIRECTION —; DEPTH — DEV — DIRECTION —; DEPTH — DEV — DIRECTION —

REMARKS

45	900 DRILL
900	930 RIG SERVICE SURVEY
930	1045 DRILL
1045	1115 CIR BEFORE TRIP
1115	1200 HOISTING

MUD RECORD

TIME	600	800	100
WEIGHT	9.8	9.8	9.8
VISC	85	87	100
W.L.-C.C.	6.6		
FLTR CK.	2/32		
PH	9.5		
SD. CONT			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

C.P.—38 (10/63) **DAILY DRILLING REPORT** REPORT NO. 27 DATE MARCH 29

OPERATOR: SHELL CANADA LIMITED | LOCATION LSD. SEC. TWP. RGE. W. | WELL NAME: SHELL CLOVER LEAF No. 1-46 | PROVINCE: NWT

CONTRACTOR: REGENT | RIG No. 2 | DRILL PIPE STRING NO. SIZE | TOOL JOINT 4½" OD | TYPE THD. IF

OPERATOR'S REPRESENTATIVE: B Clark | CONTRACTOR'S TOOL PUSHER: P. McKenzie

PUMPS

NO.	MANUFACTURER	TYPE	STROKE LENGTH
1.	EMSCO	D300	14
2.			
3.			

CASING & LINER RECORD

SIZE	WT. & GR.	DEPTH SET FROM	DEPTH SET TO	PERFORATIONS FROM	PERFORATIONS TO	CEMENT USED	OTHER

TIME DISTRIBUTION—HOURS

	MORN	DAY	EVE
DRILLING ACTUAL	5½	4	7½
REAMING			
CIRCULATING	½	3¼	
TRIPS	1½	1¼	
DEVIATION SURVEY	½		½
TEST B.O.P			
CUT OFF DRILL LINE			
REPAIR RIG		1¾	
CORING			
WIRE LINE LOGGING			
OTHER		½	
FISHING			
COMPLETING (A) PERFORATING			
(B) RUNNING TUBING			
(C) SWABBING			
(D) TESTING			
(E) ACIDIZING			
(F) ADDITIONAL			
TOTALS	8	8	8

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. or TRIPS SINCE LAST CUT

CUMULATIVE TON MI. or TRIPS

NO. OF DAYS FROM SPUD

CUMULATIVE ROTATING HRS.

MORNING TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD	
90	STANDS DP	FT.	RUN NO.	18
1	SNGLS. DP	2x 97.90 FT.	SIZE	12¼
15	D.C. ID		MFG.	SEC
	D.C. OD	444.33 FT.	TYPE	M4N
	RMR BODY OD	3.20 FT.	NOZ. NO.	3
	STB BODY OD	1.35 FT.	NOZ. SIZE	3/4
	SUBS OD	FT.	SER. NO	RR 170228
	BIT OR C.B.	FT.	DEPTH OUT	2987
		FT.	CUMULATIVE HOURS RUN	29
	KELLY DOWN	41.00 FT.	COND. OF BIT	1-2-I
	TOTAL	2987.78 FT.	REAMER CUTTER NO.	
WT. OF STRING	48m LBS.		TYPE	

DRILLER: L McIntosh

HRS. DRLD.	CORE NO.	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT. ON BIT 1000#	PUMP PRESS.	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN
5½		2962	2987	25	140	6-8	1050	6½	60			

DEVIATION RECORD:

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION
2956	2.							

REMARKS

1200 530 6-8 M ON BIT
530 600 CIRC FOR TRIP
600 630 SURVEY
630 80 PULL OUT

MUD RECORD

TIME	1200	200	500
WEIGHT	98	98	98
VISC	70	72	100
W.L.-C.C.			
FLTR. CK.			
PH			
SD. CONT.			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
GEL	1500		
CAUSTIC	50		
SUP LIG	100		

DAY TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD	
41	STANDS DP	2527.80 FT.	RUN NO.	19
	SNGLS. DP	FT.	SIZE	12¼
15	D.C. ID		MFG.	SEC
	D.C. OD	444.33 FT.	TYPE	M4N
	RMR BODY OD	3.25 FT.	NOZ. NO	3
	STB BODY OD	1.35 FT.	NOZ. SIZE	3/4
	SUBS OD	FT.	SER. NO.	79036
	BIT OR C.B.	FT.	DEPTH OUT	
		FT.	CUMULATIVE HOURS RUN	4
	KELLY DOWN	36 FT.	COND. OF BIT	1
	TOTAL	3012.78 FT.	REAMER CUTTER NO.	
WT. OF STRING	45,000 LBS.		TYPE	

DRILLER: J. Hibbard

HRS. DRLD.	CORE NO.	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT. ON BIT 1000#	PUMP PRESS.	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN
4½		2987	3012		140	8	1100	6½	56			

DEVIATION RECORD:

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

REMARKS

8:00 8:30 RIG SERVICE & BOP CHECK
8:30 9:45 SET UP BREAKS & RUN IN
9:45 10:00 BREAK CIRC.
10:00 10:30 WORK ON PUMP
10:30 11:00 CIRC. & WORK TITE HOLE
11:00 12:00 WORK ON PUMP
12:00 4:00 DRILL @ 8000# ON BIT

MUD RECORD

TIME	12:00	2:00	
WEIGHT	9.9	9.9	
VISC.	110	90	
W.L.-C.C.	5.7		
FLTR. CK.	2/32		
PH	9.5		
SD. CONT.			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
WATER	—		
CAUSTIC	—	75#	
SUPER LIG	—	400#	
BEL	—	1500#	

EVENING TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD	
41	STANDS DP	FT.	RUN NO	19
1	SNGLS. DP	25.58.81 FT.	SIZE	12¼
15	D.C. ID		MFG.	SEC
	D.C. OD	444.33 FT.	TYPE	M4N
	RMR BODY OD	3.26 FT.	NOZ. NO.	3
	STB BODY OD	1.35 FT.	NOZ. SIZE	3/4
	SUBS OD	FT.	SER NO	79036
	BIT OR C.B.	FT	DEPTH OUT	RUN
		FT.	CUMULATIVE HOURS RUN	11½
	KELLY DOWN	41.00 FT.	COND. OF BIT	
	TOTAL	3048.05 FT.	REAMER CUTTER NO.	
WT OF STRING	48 LBS.		TYPE	

DRILLER

HRS. DRLD.	CORE NO.	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT. ON BIT 1000#	PUMP PRESS	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN
7½		3012	3048	36	140	5m	1400	6½	56			

DEVIATION RECORD:

DEPTH	DEV.	DIRECTION	DEPTH	DEV	DIRECTION	DEPTH	DEV	DIRECTION
2973	2½°							

REMARKS

4:00 5:00 DRILL @ 8000# ON BIT
5:00 5:30 CIRC ¼ hr & RUN SURVEY
5:30 12:00 DRILL @ 5600# ON BIT

MUD RECORD

TIME	6:00	600	1200
WEIGHT	9.9	99	99
VISC	87	85	80
W.L.-C.C.	CV		
FLTR CK.	4/32		
PH	95		
SD. CONT			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
WATER			
GEL	—	600	

C.P.—38 (10/63) **DAILY DRILLING REPORT** REPORT NO. 26 DATE March 28/65

OPERATOR: SHELL CANADA LIMITED
LOCATION LSD. 1 SEC. 46 TWP. RGE. W.
WELL NAME: SHELL CLOVERLOAF No. 1-46
PROVINCE: N.W.T.
CONTRACTOR: REGENT DRLG. RIG No. 21
DRILL PIPE STRING NO. 3 SIZE 5 1/2 TOOL JOINT 4 3/4 OD TYPE THD.
OPERATOR'S REPRESENTATIVE: AB Quinn
CONTRACTOR'S TOOL PUSHER: R. McSmith

PUMPS

NO.	MANUFACTURER	TYPE	STROKE LENGTH
1.	EMSCO	D-300	14"
2.			
3.			

CASING & LINER RECORD

SIZE	WT. & GR.	DEPTH SET FROM	DEPTH SET TO	PERFORATIONS FROM	PERFORATIONS TO	CEMENT USED	OTHER
13 3/8	J-55	0	716				

TIME DISTRIBUTION—HOURS

	MORN	DAY	EVE
DRILLING ACTUAL	6	7 1/4	7
REAMING			
CIRCULATING			1/2
TRIPS			
DEVIATION SURVEY	1/4		1/4
TEST B.O.P			
CUT OFF DRILL LINE			
REPAIR RIG		1/4	
CORING			
WIRE LINE LOGGING			
OTHER	1/2	1/4	
FISHING			
COMPLETING (A) PERFORATING			
(B) RUNNING TUBING			
(C) SWABBING			
(D) TESTING			
(E) ACIDIZING			
(F) ADDITIONAL			
TOTALS	8	8	8

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. or TRIPS SINCE LAST CUT
CUMULATIVE TON MI. or TRIPS
NO. OF DAYS FROM SPUD
CUMULATIVE ROTATING HRS.

MORNING TOUR

DRILLING ASSEMBLY

NO.			FT.
36	STANDS	DP	
1	SNGLS.	DP	3374.69
15	D.C.	ID	
		OD	444.37 FT.
	RMR BODY	OD	3.20 FT.
	STB BODY	OD	1.35 FT.
	SUBS	OD	FT.
	BIT OR C.B.		FT.
			FT.
	KELLY DOWN		41.00 FT.
	TOTAL		7864.5 FT.
WT. OF STRING			96 M LBS.

DRILLER: J. Hubbard

BIT RECORD

RUN NO.	18
SIZE	12 1/4
MFG.	SEC
TYPE	M4W
NOZ. NO.	3
NOZ. SIZE	3/4
SER. NO	R-12 770223
DEPTH OUT	RUN
CUMULATIVE HOURS RUN	9 3/4
COND. OF BIT	
REAMER CUTTER NO.	
TYPE	

HRS. DRLD.	CORE NO.	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT. ON BIT 1000#	PUMP PRESS.	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN
6		2853	2864		60-80	6-8	1050	6 1/4	60			

DEVIATION RECORD: DEPTH 2846 DEV. 13/4 DIRECTION

REMARKS
12 00 12 30 DRILL
12 30 2 15 WORK TIGHT HOLE RAIS MIS
2 15 7 45 DRILL FRACTURED FORMATIONS
7 45 8 00 SURVEY

MUD RECORD

TIME	12 00	4 00	6 00
WEIGHT	9.8	9.8	9.8
VISC	65	75	80
W.L.-C.C.	6.4		
FLTR. CK.	2/32		
PH	9.5		
SD. CONT.			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
GEL	2 000 #		
CAUSTIC	50 #		
SUPERMIC	100 #		

DAY TOUR

DRILLING ASSEMBLY

NO.			FT.
37	STANDS	DP	
1	SNGLS.	DP	3436.83
15	D.C.	ID	
		OD	444.33 FT.
	RMR BODY	OD	3.20
	STB BODY	OD	1.35
	SUBS	OD	FT.
	BIT OR C.B.		FT.
			FT.
	KELLY DOWN		37 FT.
	TOTAL		3922.25
WT. OF STRING			48 000 LBS.

DRILLER: J. Hubbard

BIT RECORD

RUN NO.	18
SIZE	12 1/4
MFG.	SEC
TYPE	M4W
NOZ. NO.	3
NOZ. SIZE	3/4
SER. NO.	R-12 770223
DEPTH OUT	DRLG
CUMULATIVE HOURS RUN	16 1/2
COND. OF BIT	
REAMER CUTTER NO.	
TYPE	

HRS. DRLD.	CORE NO.	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT. ON BIT 1000#	PUMP PRESS.	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN
7 1/4		2864	2922		140	10-14	1050	6 1/4	60			

DEVIATION RECORD: DEPTH DEV. DIRECTION

REMARKS
8 00 8 15 RIG SERVICE - SET CELLAR
8 15 12 00 DRILL (WORKING PIPE EVERY 5'
12 00 1 00 DRILL
1 00 1 30 REPAIR STAND PIPE
1 30 4 00 DRILL

MUD RECORD

TIME	8 00	12 00	2 00
WEIGHT	9.8	9.8	9.8
VISC	80	85	80
W.L.-C.C.		6.4	
FLTR. CK.		2/32	
PH		9.5	
SD. CONT.			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
GEL	2 700 #		
SUPERMIC	400 #		

EVENING TOUR

DRILLING ASSEMBLY

NO.			FT.
40	STANDS	DP	
1	SNGLS.	DP	2497.98 FT.
15	D.C.	ID	
		OD	444.33 FT.
	RMR BODY	OD	3.20 FT.
	STB BODY	OD	1.35 FT.
	SUBS	OD	FT.
	BIT OR C.B.		FT
			FT.
	KELLY DOWN		1600 FT.
	TOTAL		2962.78 FT.
WT OF STRING			48 M LBS.

DRILLER

BIT RECORD

RUN NO	18
SIZE	12 1/4
MFG.	SEC
TYPE	M4W
NOZ. NO.	3
NOZ. SIZE	3/4
SER NO	R-12 770223
DEPTH OUT	
CUMULATIVE HOURS RUN	23 1/2
COND. OF BIT	
REAMER CUTTER NO.	
TYPE	

HRS. DRLD.	CORE NO.	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT. ON BIT 1000#	PUMP PRESS	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN
7		2922	2962	40	140	6-14	1050	6 1/4	60			

DEVIATION RECORD: DEPTH 2926 DEV. 2 1/2 DIRECTION

REMARKS
4 00 9 30 DRILL 10-14 M ON BIT
9 30 10 00 C.I.R FOR SURVEY SET CELLAR
10 00 10 30 RIG SERVICE SURVEY
10 30 12 00 DRILL 6-8M ON BIT

MUD RECORD

TIME	4 00	8 00	12 00
WEIGHT	9.8	9.8	9.8
VISC	88	85	88
W.L.-C.C.	6.4		
FLTR CK.	2/32		
PH	9.5		
SD. CONT			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
GEL	1000		
CAUSTIC	75		
SUPERMIC	100		

C.P.—38 (10/63) **DAILY DRILLING REPORT** REPORT NO. 25 DATE MARCH 27 / 65

OPERATOR: SHELL CANADA LIMITED | LOCATION I.SD. SEC. TWP. RGE. W. | WELL NAME: CLOVER LEAF No. 1-46 | PROVINCE: N.W.T.

CONTRACTOR: REGENT DRILLING RIG No. 21 | DRILL PIPE STRING NO. SIZE | TOOL JOINT OD | TYPE THD.

OPERATOR'S REPRESENTATIVE: [illegible] | CONTRACTOR'S TOOL PUSHER: R. Hubbard

PUMPS

NO.	MANUFACTURER	TYPE	STROKE LENGTH
1.	EMSCO	D300	14
2.			
3.			

CASING & LINER RECORD

SIZE	WT. & GR.	DEPTH SET FROM	DEPTH SET TO	PERFORATIONS FROM	PERFORATIONS TO	CEMENT USED	OTHER

MORNING TOUR

TIME DISTRIBUTION—HOURS

	MORN	DAY	EVE
DRILLING ACTUAL			3¼
REAMING			1½
CIRCULATING	4¼		
TRIPS	1½	3	1½
DEVIATION SURVEY			
TEST B.O.P	½		
CUT OFF DRILL LINE			
REPAIR RIG			
CORING			
WIRE LINE LOGGING			
OTHER	¼	½	
FISHING			
COMPLETING (A) PERFORATING			
(B) RUNNING TUBING			
(C) SWABBING			
(D) TESTING	1½	4+	2¼
(E) ACIDIZING			
(F) ADDITIONAL			
TOTALS	8	8	8

TIME SUMMARY (OFFICE USE ONLY)

CONTRACTOR'S TIME HRS:

OPERATOR'S TIME:

HRS. W/D.P:

HRS W0/D.P:

HRS STANDBY

WIRE LINE RECORD

REEL NO

NO OF LINES SIZE

FEET SLIPPED

FEET CUT OFF

PRESENT LENGTH

TON MI. or TRIPS SINCE LAST CUT

CUMULATIVE TON MI. or TRIPS

NO. OF DAYS FROM SPUD

CUMULATIVE ROTATING HRS.

DRILLING ASSEMBLY

NO.			
	STANDS DP		FT.
	SNGLS. DP		FT.
	D.C. ID / OD		FT.
	RMR BODY OD		FT.
	STB BODY OD		FT.
	SUBS OD		FT.
	BIT OR C.B.		FT.
			FT.
	KELLY DOWN		FT.
	TOTAL		FT.
	WT. OF STRING		LBS.

BIT RECORD

RUN NO.	
SIZE	
MFG.	
TYPE	
NOZ. NO.	
NOZ. SIZE	
SER. NO	
DEPTH OUT	
CUMULATIVE HOURS RUN	
COND. OF BIT	
REAMER CUTTER NO.	
TYPE	

DRILLER: [illegible]

HRS. DRLD.	CORE NO.	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT. ON BIT 1000#	PUMP PRESS.	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN
							800	6¼	55			

DEVIATION RECORD:

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

REMARKS

12¹⁰	12¹⁵	Rig Serv
12¹⁵	4³⁰	Going to Test 120 FT OFF B.T.M.
4³⁰	6⁰⁰	Pulling out
6¹⁰	6³⁰	Check B.O.P
6³⁰	8⁰⁰	Making up PACKER

MUD RECORD

TIME	12⁰⁰	2⁰⁰	4⁰⁰
WEIGHT	9.9	9.9	9.9
VISC	800	85	64
W.L.-C.C.			7.0
FLTR. CK.			2/32
PH			9.5
SD. CONT.			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

DAY TOUR

DRILLING ASSEMBLY

NO.			
	STANDS DP		FT.
	SNGLS. DP		FT.
	D.C. ID / OD		FT.
	RMR BODY OD		FT.
	STB BODY OD		FT.
	SUBS OD		FT.
	BIT OR C.B.		FT.
			FT.
	KELLY DOWN		FT.
	TOTAL		FT.
	WT. OF STRING		LBS.

BIT RECORD

RUN NO.	
SIZE	
MFG.	
TYPE	
NOZ. NO.	
NOZ. SIZE	
SER. NO	
DEPTH OUT	
CUMULATIVE HOURS RUN	
COND. OF BIT	
REAMER CUTTER NO.	
TYPE	

DRILLER: R. Hubbard

HRS. DRLD.	CORE NO.	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT. ON BIT 1000#	PUMP PRESS.	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN
				TESTING								

DEVIATION RECORD:

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

REMARKS

8⁰⁰	8¹⁵	RIG SERVICE
8¹⁵	10⁰⁰	MAKE UP TESTER
10⁰⁰	11¹⁵	RUN IN (SLOWLY)
11¹⁵	1¹⁵	RIG UP TO TEST
1¹⁵	2¹⁵	TESTING
2¹⁵	HOO	PULL OUT

DST #1 2759-2802 (Basal formation)
To 60 min. Shut-in
WAB. Recovered 132' watery mud, 22000 ppm Nacl
HMP 1574.10 FP 536/804
SIP 1072/995 POSITIVE TEST

15/16" ini

MUD RECORD

TIME			
WEIGHT			
VISC			
W.L.-C.C.			
FLTR. CK.			
PH			
SD. CONT.			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

EVENING TOUR

DRILLING ASSEMBLY

NO.			
36	STANDS DP	2343.74	FT.
	SNGLS. DP		FT.
15	D.C. ID / OD	444.33	FT.
	RMR BODY OD	320	FT.
	STB BODY OD	135'	FT.
	SUBS OD		FT.
	BIT OR C.B.		FT.
			FT.
	KELLY DOWN	41.00	FT.
	TOTAL	2833.62	FT.
	WT. OF STRING	42M	LBS.

BIT RECORD

RUN NO.	18
SIZE	12¼
MFG.	SEC
TYPE	M44J
NOZ. NO.	4
NOZ. SIZE	3/4
SER. NO	RR 2 W 6 17
DEPTH OUT	RUN
CUMULATIVE HOURS RUN	3½
COND. OF BIT	
REAMER CUTTER NO.	
TYPE	

DRILLER: L. M. Hubbard

HRS. DRLD.	CORE NO.	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT. ON BIT 1000#	PUMP PRESS	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN
3½		2802	2833	31	80-90	6-8	1000	6½	60			

DEVIATION RECORD:

DEPTH	DEV.	DIRECTION	DEPTH	DEV	DIRECTION	DEPTH	DEV	DIRECTION

REMARKS

4⁰⁰	6¹⁵	LAY DOWN TESTER & CHECK BOPs
6¹⁵	7³⁰	RUN IN WITH BIT
7³⁰	8⁴⁵	BREAK CIRC & CLEAN TO BTM.
8⁴⁵	12⁰⁰	DRILL 12¼ HOLE (FRACTURED FORMATION)

MUD RECORD

TIME	9⁰⁰	10⁰⁰	12⁰⁰
WEIGHT	9.9	9.6	9.6
VISC	90	70	70
W.L.-C.C.			
FLTR CK.			
PH			
SD. CONT			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
SAWDUST	20 SKS		
GEL	600		
SAND	50		

C.P.—30 (10/63) **DAILY DRILLING REPORT** REPORT NO. DATE MARCH 26/65

OPERATOR: SHELL CANADA LIMITED
LOCATION LSD. SEC. TWP. RGE. W.
WELL NAME: CLOVER LEAF 1-46 No.
PROVINCE: N.W.T.
CONTRACTOR: REGENT Drilling RIG No. 21
DRILL PIPE STRING NO. SIZE | TOOL JOINT OD | TYPE THD.
OPERATOR'S REPRESENTATIVE: [illegible] CONTRACTOR'S TOOL PUSHER: A. Hufnagel

PUMPS

NO.	MANUFACTURER	TYPE	STROKE LENGTH
1.	EMSCO	D300	14
2.			
3.			

CASING & LINER RECORD

SIZE	WT. & GR.	DEPTH SET FROM	DEPTH SET TO	PERFORATIONS FROM	PERFORATIONS TO	CEMENT USED	OTHER

TIME DISTRIBUTION—HOURS

	MORN	DAY	NIGHT
DRILLING ACTUAL	1½		
REAMING			
CIRCULATING	2½	16¼	7½
TRIPS	3		13½
DEVIATION SURVEY	½		
TEST B.O.P	½	½	
CUT OFF DRILL LINE			
REPAIR RIG		1¾	
CORING			
WIRE LINE LOGGING			
OTHER			
FISHING			
COMPLETING (A) PERFORATING			
(B) RUNNING TUBING			
(C) SWABBING			
(D) TESTING			
(E) ACIDIZING			
(F) ADDITIONAL			
TOTALS	8		16

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. or TRIPS SINCE LAST CUT
CUMULATIVE TON MI. or TRIPS
NO. OF DAYS FROM SPUD
CUMULATIVE ROTATING HRS.

MORNING TOUR

NO.	DRILLING ASSEMBLY	FT.
37	STANDS DP	
1	SNGLS. DP	2313.07
15	D.C. 10-4½ ID 2½ A-C 1-7"	444.33
	RMR BODY OD	3.20
	STB BODY OD	1.35
	SUBS OD	
	BIT OR C.R.	
	KELLY DOWN	37.00
	TOTAL	2798.95
WT. OF STRING	110000 LBS.	

DRILLER: Smorow

BIT RECORD	
RUN NO.	17
SIZE	12¼
MFG.	SEC
TYPE	M4N
NOZ. NO.	3
NOZ. SIZE	3/4
SER. NO	770228
DEPTH OUT	
CUMULATIVE HOURS RUN	1½
COND. OF BIT	
REAMER CUTTER NO.	
TYPE	

HRS. DRLD.	CORE NO.	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT. ON BIT 1000#	PUMP PRESS.	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN
1½		2779	2798	20'	150	4000	1000	6½	60			

DEVIATION RECORD:	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION
	2773	2°							

REMARKS

12⁰⁰ 1³⁰ Pulling Out — 7⁰⁰-7³⁰ Drill
1³⁰ 1⁴⁵ Rig Serv. Air BOP Check — 7³⁰-7⁴⁵ Circ
1⁴⁵ 3¹⁵ Run In — 7⁴⁵-8⁰⁰ Drill
3¹⁵ 3⁴⁵ Clean Out To B.T.M.
3⁴⁵ 4³⁰ Drill
4³⁰ 5³⁰ Circ And Working Tight Hole
5³⁰ 6⁰⁰ Survey
6⁰⁰ 7⁰⁰ Circ

MUD RECORD

TIME	T	11	6
WEIGHT	R	9.8	9.9
VISC	I	78	100
W.L.-C.C.	7	4	~~9.0~~ ~~10.0~~
FLTR. CK.	2	2/32	
PH	9.5		
SD. CONT.			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
CAUSTIC	150 LBS		
SUPERLIG	2 1/2	150 LBS	
BEL			

DAY TOUR

NO.	DRILLING ASSEMBLY	FT.
37	STANDS DP	
1	SNGLS. DP	3313.87
15	D.C. 10-4½ ID 2½ 1-7¾ OD 4-6½ OD	444.33
	RMR BODY OD	3.20
	STB BODY OD	1.35
	SUBS OD	
	BIT OR C.B.	
	KELLY DOWN	41
	TOTAL	2802-95
WT. OF STRING	50000 LBS.	

DRILLER: J. Hibbard

BIT RECORD	
RUN NO.	17
SIZE	12¼
MFG.	SEC
TYPE	M4N
NOZ. NO.	3
NOZ. SIZE	3/4
SER. NO.	770228
DEPTH OUT	
CUMULATIVE HOURS RUN	1¾
COND. OF BIT	Run
REAMER CUTTER NO.	
TYPE	

HRS. DRLD.	CORE NO.	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT. ON BIT 1000#	PUMP PRESS.	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN
1¼		2798	2802		150	5000	1000	6¼				

DEVIATION RECORD:	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

REMARKS

8⁰⁰ 8¹⁵ Drill
8¹⁵ 9⁰⁰ Circulate Sample
9⁰⁰ 10³⁰ Pull Up 3 Stds. & Repack Swivel
10³⁰ 4⁰⁰ Condition Mud To Test

MUD RECORD

TIME	8⁰⁰	12⁰⁰	2⁰⁰
WEIGHT	9.9	9.7	9.8
VISC	100	80	75
W.L.-C.C.	#	6.7	
FLTR. CK.		2/32	
PH		9.5	
SD. CONT.			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
BEL	1000#		
SUPERLIG	100#		
CAUSTIC	100#		
WATER			

EVENING TOUR

NO.	DRILLING ASSEMBLY	FT.
	STANDS DP	
	SNGLS. DP	
	D.C ID / OD	
	RMR BODY OD	
	STB BODY OD	
	SUBS OD	
	BIT OR C.B.	
	KELLY DOWN	
	TOTAL	
WT OF STRING	LBS.	

DRILLER: J. Marrow

BIT RECORD	
RUN NO	17
SIZE	12¼
MFG.	SEC
TYPE	M4N
NOZ. NO.	3
NOZ. SIZE	3/4
SER NO	770228
DEPTH OUT	
CUMULATIVE HOURS RUN	
COND. OF BIT	
REAMER CUTTER NO.	
TYPE	

HRS. DRLD.	CORE NO.	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT. ON BIT 1000#	PUMP PRESS	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN
							500	6¼	55			

DEVIATION RECORD:	DEPTH	DEV.	DIRECTION	DEPTH	DEV	DIRECTION	DEPTH	DEV	DIRECTION

REMARKS

4⁰⁰ 6³⁰ Circulate & Condition MUD
6³⁰ 6⁴⁵ Run In To B.T.M. an Circ
6⁴⁵ 7³⁰ Pulling out To casing
7³⁰ 8³⁰ Run In
8³⁰ 12⁰⁰ Circ To Test 120 FT OFF BTM.

MUD RECORD

TIME			10⁰⁰
WEIGHT			9.9
VISC			90
W.L.-C.C.			7.0
FLTR CK.			2/32
PH			9.5
SD. CONT			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

C.P.—38 (10/63) **DAILY DRILLING REPORT** REPORT NO. DATE MARCH 25 / 65

OPERATOR: SHELL CANADA LIMITED
CONTRACTOR: Regent Drilling RIG No. 21
OPERATOR'S REPRESENTATIVE: W B Cunningham
CONTRACTOR'S TOOL PUSHER:
LOCATION LSD. SEC. TWP. RGE. W.
WELL NAME: Cover Leaf I-46 No. PROVINCE N W T
DRILL PIPE STRING NO. SIZE | TOOL JOINT OD | TYPE THD.

PUMPS

NO.	MANUFACTURER	TYPE	STROKE LENGTH
1.	EMSCO	D300	44
2.			
3.			

CASING & LINER RECORD

SIZE	WT. & GR.	DEPTH SET FROM	DEPTH SET TO	PERFORATIONS FROM	PERFORATIONS TO	CEMENT USED	OTHER

TIME DISTRIBUTION—HOURS

	MORN	DAY	EVE
DRILLING ACTUAL	6½	7½	1¼
REAMING			
CIRCULATING			3¼
TRIPS	3	3¼	1
DEVIATION SURVEY	¼		
TEST B.O.P			
CUT OFF DRILL LINE			
REPAIR RIG	¾	7	2¼
CORING			
WIRE LINE LOGGING			
OTHER		¼	¼
FISHING			
COMPLETING (A) PERFORATING			
(B) RUNNING TUBING			
(C) SWABBING			
(D) TESTING			
(E) ACIDIZING			
(F) ADDITIONAL			
TOTALS	8		8

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. or TRIPS SINCE LAST CUT
CUMULATIVE TON MI. or TRIPS
NO. OF DAYS FROM SPUD
CUMULATIVE ROTATING HRS.

MORNING TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD	
37	STANDS DP	2283.78 FT.	RUN NO.	16
	SNGLS. DP	FT.	SIZE	12¼
15	10-4½ ID D.C. 4-6¾ 1 2" SQ OD	444.33 FT.	MFG.	SEC
			TYPE	M44J
	RMR BODY OD	1.35 FT.	NOZ. NO.	3
	STB BODY OD	3.20 FT.	SIZE	7/8
	SUBS OD	FT.	SER. NO	774619
	BIT OR C.B.	FT.	DEPTH OUT	
		FT.	CUMULATIVE HOURS RUN	11
	KELLY DOWN	29.00 FT.	COND. OF BIT	
	TOTAL	2761.66 FT.	REAMER CUTTER NO.	
	WT. OF STRING	49000 LBS.	TYPE	

DRILLER: A Morrow

HRS. DRLD.	CORE NO.	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT. ON BIT 1000#	PUMP PRESS.	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN
6½		2717	2761	44	130	12000	1050	6¼	60			

DEVIATION RECORD:

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION
2743	2°							

REMARKS

12⁰⁰ 4⁰⁰ DRILL
4⁰⁰ 4¹⁵ RIG SERV AND SURVEY
4¹⁵ 6⁴⁵ DRILL
6⁴⁵ 7¹⁵ PULLING OUT FIVE STANDS TO WORK ON PUMP
7¹⁵ 8⁰⁰ TAKING PUMP APART TO WELD ON IT

MUD RECORD

TIME	1 00	3 00	7 00
WEIGHT	9.8	9.8	9.8
VISC	60	57	60
W.L.-C.C.			
FLTR. CK.			
PH			
SD. CONT.			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

DAY TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD	
37	STANDS DP	2283.78 FT.	RUN NO.	16
	SNGLS. DP	FT.	SIZE	12¼
15	ID D.C. OD	444.33 FT.	MFG.	SEC
			TYPE	M44J
1	RMR BODY OD	3.20 FT.	NOZ. NO	3
	STB BODY OD	1.35 FT.	SIZE	7/8
	SUBS OD	FT.	SER. NO	774619
	BIT OR C.B.	FT.	DEPTH OUT	
		FT.	CUMULATIVE HOURS RUN	11
	KELLY DOWN	29 FT.	COND. OF BIT	Rund
	TOTAL	2761.66 FT.	REAMER CUTTER NO.	
	WT. OF STRING	49.000 LBS.	TYPE	

DRILLER: J. Gilbert

HRS. DRLD.	CORE NO.	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT. ON BIT 1000#	PUMP PRESS.	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN

DEVIATION RECORD:

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

REMARKS

8⁰⁰ 8⁴⁵ PULL OUT TO CASING
8⁴⁵ 9⁰⁰ RIG SERVICE
9⁰⁰ 4⁰⁰ WORK ON PUMP (CHANGE MUD END)

MUD RECORD

TIME			
WEIGHT			
VISC			
W.L.-C.C.			
FLTR. CK.			
PH			
SD. CONT.			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

EVENING TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD	
37	STANDS DP	FT.	RUN NO	16
1	SNGLS. DP	23130 FT.	SIZE	12¼
15	10-4½ ID D.C 4-6¾ 1 2" SQ OD	444.33 FT.	MFG.	SEC
			TYPE	M44J
	RMR BODY OD	3.20 FT.	NOZ. NO.	3
	STB BODY OD	1.35 FT.	SIZE	7/8
	SUBS OD	FT.	SER NO	774619
	BIT OR C.B.	FT	DEPTH OUT	
		FT.	CUMULATIVE HOURS RUN	1
	KELLY DOWN	17.00 FT.	COND. OF BIT	
	TOTAL	2778 FT.	REAMER CUTTER NO.	
	WT OF STRING	49 LBS.	TYPE	

DRILLER: A Morrow

HRS. DRLD.	CORE NO.	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT. ON BIT 1000#	PUMP PRESS	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN
15½		2761	2778	17	140	4000	1050	6¼	60			

DEVIATION RECORD:

DEPTH	DEV.	DIRECTION	DEPTH	DEV	DIRECTION	DEPTH	DEV	DIRECTION

REMARKS

4⁰⁰ 6¹⁵ WORK ON PUMP
6¹⁵ 7¹⁵ RUN IN & REAM TO BTM
7¹⁵ 8⁴⁰ DRILL
8⁴⁰ 8¹⁵ RIG SERV
8¹⁵ 8⁴³ DRILL
8⁴³ 12 CONDITION MUD PREPARE MUD FOR TRIP TO PULL OUT AND RUN NEW BIT.

Drillstem torquing up when drilling. Pull up and repm. every 2¹

MUD RECORD

TIME		8	10
WEIGHT		9.8	9.8
VISC		57	60
W.L.-C.C.			7.4
FLTR CK.			7.2
PH			9.5
SD. CONT			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
GEL	100	LBS.	
LIGNITE	100	LBS.	
CAUSTIC	50	LBS	

C.P.—38 (10/63) **DAILY DRILLING REPORT** REPORT NO. DATE MARCH 24 / 65

OPERATOR	LOCATION LSD. SEC. TWP. RGE. W.	WELL NAME	No.	PROVINCE
SHELL CANADA LIMITED		CLOVER LEAF	1-46	N W T

CONTRACTOR	RIG No.	DRILL PIPE STRING NO. SIZE	TOOL JOINT OD / TYPE THD.
Regent Drilling	21		1F

OPERATOR'S REPRESENTATIVE: B Cunah — CONTRACTOR'S TOOL PUSHER: R. Warfield

PUMPS

NO.	MANUFACTURER	TYPE	STROKE LENGTH
1.	EMSCO	D300	14
2.			
3.			

CASING & LINER RECORD

SIZE	WT. & GR.	DEPTH SET FROM	DEPTH SET TO	PERFORATIONS FROM	PERFORATIONS TO	CEMENT USED	OTHER

TIME DISTRIBUTION—HOURS

	MORN	DAY	EVE
DRILLING ACTUAL	7½	5½	11
REAMING			
CIRCULATING			1
TRIPS		2	1
DEVIATION SURVEY	¼	½	
TEST B.O.P			
CUT OFF DRILL LINE			
REPAIR RIG		1½	½
CORING			
WIRE LINE LOGGING			
OTHER	½	½	
FISHING			
COMPLETING (A) PERFORATING			
(B) RUNNING TUBING			
(C) SWABBING			
(D) TESTING			
(E) ACIDIZING			
(F) ADDITIONAL			
TOTALS	8	8	8

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. or TRIPS SINCE LAST CUT

CUMULATIVE TON MI. or TRIPS

NO. OF DAYS FROM SPUD

CUMULATIVE ROTATING HRS.

MORNING TOUR

NO.	DRILLING ASSEMBLY	FT.
35	STANDS DP	
1	SNGLS. DP	29.02 FT.
16	D.C. 10-4½ ID, 1-7 1/2" SD	444.33 FT.
	RMR BODY OD	1.35 FT.
	STB BODY OD	3.20 FT.
	SUBS OD	FT.
	BIT OR C.B.	FT.
		FT.
	KELLY DOWN	29.80 FT.
	TOTAL	2655.94 FT.
	WT. OF STRING	48000 LBS.

DRILLER: Symonow

BIT RECORD	
RUN NO.	16
SIZE	12¼
MFG.	SEC
TYPE	M4N
NOZ. NO.	3
NOZ. SIZE	3/4
SER. NO	774612
DEPTH OUT	
CUMULATIVE HOURS RUN	21½
COND. OF BIT	
REAMER CUTTER NO.	
TYPE	

HRS. DRLD.	CORE NO.	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT. ON BIT 1000#	PUMP PRESS.	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN
7½		2624	2668	44	150	10000	1000	6¼	60			

DEVIATION RECORD:	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION
	2650	3°							

REMARKS

18[illegible]	12[illegible]	Rig Serv
12[illegible]	3[illegible]	DRLD.
3[illegible]	4[illegible]	Survey AM Check-Cock
4[illegible]	8[illegible]	DRLD.

MUD RECORD

TIME	12	2	4
WEIGHT	9.7	9.8	9.8
VISC	60	55	55
W.L.-C.C.			
FLTR. CK.	14/32		
PH	9.5		
SD. CONT.			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
GEL	12 SKS		
SUPER HIG	100 LBS		

DAY TOUR

NO.	DRILLING ASSEMBLY	FT.
36	STANDS DP	
	SNGLS. DP	FT.
17	D.C. ID / OD	444.33 FT.
	RMR BODY OD	3.20 FT.
	STB BODY OD	1.35 FT.
	SUBS OD	FT.
	BIT OR C.B.	FT.
		FT.
	KELLY DOWN	29 FT.
	TOTAL	2690.49 FT.
	WT. OF STRING	48000 LBS.

DRILLER: J. Hibbard

BIT RECORD		
RUN NO.	15	16
SIZE	18¼	12¼
MFG.	SEC	SEC
TYPE	M4N	M4N
NOZ. NO.	3	3
NOZ. SIZE	3/4	3/4
SER. NO.	774613	774619
DEPTH OUT	2690	
CUMULATIVE HOURS RUN	35	
COND. OF BIT	121	
REAMER CUTTER NO.		
TYPE		

HRS. DRLD.	CORE NO.	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT. ON BIT 1000#	PUMP PRESS.	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN
3½		2668	2690		150	10	1050	6¼	60			

DEVIATION RECORD:	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION
	2681	2°							

REMARKS

8[illegible]	9[illegible]	
9[illegible]	10[illegible]	DRLG
10[illegible]	12[illegible]	Survey
12[illegible]	1[illegible]	DRLG
1[illegible]	2[illegible]	Pull Out (measure)
2[illegible]	2[illegible]	Rig Service & BOP Check
		Rig in Collars
		Work on Scotree

MUD RECORD

TIME	8[illegible]	10[illegible]	12[illegible]
WEIGHT	9.8	9.8	9.8
VISC	57	70	90
W.L.-C.C.			6.5
FLTR. CK.			2/32
PH			9.5
SD. CONT.			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
WATER			
GEL	2500 #		
CAUSTIC	100 #		
SUPER LIG	300 #		

EVENING TOUR

NO.	DRILLING ASSEMBLY	FT.
36	STANDS DP	
1	SNGLS. DP	22.53.99 FT.
15	D.C. 10-4½ ID, 1-7 1/2" SD	444.33 FT.
	RMR BODY OD	3.20 FT.
	STB BODY OD	1.35 FT.
	SUBS OD	FT.
	BIT OR C.B.	FT.
		FT.
	KELLY DOWN	15.00 FT.
	TOTAL	2712.46 FT.
	WT OF STRING	48000 LBS.

DRILLER: S Morrow

BIT RECORD	
RUN NO.	16
SIZE	12¼
MFG.	SEC
TYPE	M4N
NOZ. NO.	3
NOZ. SIZE	3/4
SER NO	774619
DEPTH OUT	
CUMULATIVE HOURS RUN	4½
COND. OF BIT	
REAMER CUTTER NO.	
TYPE	

HRS. DRLD.	CORE NO.	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT. ON BIT 1000#	PUMP PRESS	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN
4½		2690	2717	27	150	11000	1050	6¼	60			

DEVIATION RECORD:	DEPTH	DEV.	DIRECTION	DEPTH	DEV	DIRECTION	DEPTH	DEV	DIRECTION
	2681	2°							

REMARKS

4[illegible]	5[illegible]	Repair Wilford Matic & Work on Brakes
5[illegible]	6[illegible]	Run In
6[illegible]	7[illegible]	Break Circ & Ream To Btm.
7[illegible]	10 30	Drill 12¼" Hole
10 30	10 45	Rig Serv AM Check Kelly-Cock
10 45	12[illegible]	Drill

MUD RECORD

TIME	8[illegible]	18[illegible]
WEIGHT	9.9	9.9
VISC	90	83
W.L.-C.C.		
FLTR. CK.		
PH		
SD. CONT		

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

C.P.—38 (10/63) **DAILY DRILLING REPORT** REPORT NO. DATE MARCH 23 '65

OPERATOR: SHELL CANADA LIMITED | LOCATION LSD. SEC. TWP. RGE. W. | WELL NAME: CLOVER LEAF No. | PROVINCE: N W T

CONTRACTOR: Regent Drilling | RIG No.: 21 | DRILL PIPE STRING NO. SIZE | TOOL JOINT OD | TYPE THD.

OPERATOR'S REPRESENTATIVE: W S Lunde | CONTRACTOR'S TOOL PUSHER: P. Albrecht

PUMPS

NO.	MANUFACTURER	TYPE	STROKE LENGTH
1.	EMSCO	D 300	14
2.			
3.			

CASING & LINER RECORD

SIZE	WT. & GR.	DEPTH SET FROM	DEPTH SET TO	PERFORATIONS FROM	PERFORATIONS TO	CEMENT USED	OTHER

TIME DISTRIBUTION—HOURS

	MORN	DAY	EVE
DRILLING ACTUAL	3½	6¼	7½
REAMING			
CIRCULATING			
TRIPS	3½		
DEVIATION SURVEY	¼	¼	¼
TEST B.O.P	½		
CUT OFF DRILL LINE			
REPAIR RIG		1¼	
CORING			
WIRE LINE LOGGING			
OTHER	¼	¼	
FISHING			
COMPLETING (A) PERFORATING			
(B) RUNNING TUBING			
(C) SWABBING			
(D) TESTING			
(E) ACIDIZING			
(F) ADDITIONAL			
TOTALS	8	8	8

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. or TRIPS SINCE LAST CUT

CUMULATIVE TON MI. or TRIPS

NO. OF DAYS FROM SPUD

CUMULATIVE ROTATING HRS.

MORNING TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD		
31	STANDS DP	1912.68 FT.	RUN NO.	14	15
	SNGLS. DP	FT.	SIZE	12¼	12¼
20	D.C. 16-4½ ID 4-6½ OD	596.07 FT.	MFG.	SEC	SEC
	RMR BODY OD	1.35 FT.	TYPE	M4N	M4N
	STB BODY OD	3.20 FT.	NOZ. NO.	3	3
	SUBS OD	FT.	NOZ. SIZE	¾	¾
	BIT OR C.B.	FT.	SER. NO	77308H	77461 NEW
		FT.	DEPTH OUT	2533	
	KELLY DOWN	22.00 FT.	CUMULATIVE HOURS RUN	28	
	TOTAL	2535.25 FT.	COND. OF BIT		
	WT. OF STRING	48000 LBS.	REAMER CUTTER NO.		
DRILLER	J Morrow		TYPE		

HRS. DRLD.	CORE NO.	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT. ON BIT 1000#	PUMP PRESS.	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN
3½		2520	2535	15'								

DEVIATION RECORD: 2520 — 2¼ | DIRECTION 120°

REMARKS

1200	1230	DRILL
1230	1245	Rig Serv
1245	100	SURVEY
100	430	DRILL
430	530	Pulling out
530	600	Picking up D.C AN Check B.O.P.
600	800	Run IN AN Picking up Five Singles

MUD RECORD

	12	2	4
TIME			
WEIGHT	9.8	9.9	9.9
VISC	74	120	120
W.L.-C.C.			
FLTR. CK.			
PH			
SD. CONT.			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
GEL	11	SAXS.	
QUICK VIS.	1 GALLON		

DAY TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD	
34	STANDS DP	2098.22 FT.	RUN NO.	15
	SNGLS. DP	FT.	SIZE	12¼
15	10-4½ ID D.C. 4-6¼ 10" OD	444.33	MFG.	SEC
1	Rmr Body OD	3.80	TYPE	M4N
1	Stb Body OD	1.35	NOZ. NO	3
	SUBS OD	FT.	NOZ. SIZE	¾
	BIT OR C.B.	FT.	SER. NO.	77461Z
		FT.	DEPTH OUT	
	KELLY DOWN	28 FT.	CUMULATIVE HOURS RUN	6¼
	TOTAL	2575.10 FT.	COND. OF BIT	Drlg.
	WT. OF STRING	48,000 LBS.	REAMER CUTTER NO.	
DRILLER	J. Hebbard		TYPE	

HRS. DRLD.	CORE NO.	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT. ON BIT 1000#	PUMP PRESS.	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN
6¼		2535	2575		120	10	1050	6½	60			

DEVIATION RECORD: 2547 — 1¾

REMARKS

800	8	RIG SERVICE - JET CELLAR
8	10	DRILL
10	11	REPACK SWIVEL
11	1	DRILL
1	1½	SURVEY
1½	4	DRILL @ 10,000 LBS ON BIT

MUD RECORD

	8	10	7
TIME			
WEIGHT	9.9	9.9	9.8
VISC	70	70	68
W.L.-C.C.	7.0		
FLTR. CK.	2/32		
PH	9.5		
SD. CONT.			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
CAUSTIC	160 LBS		
SUPER VIS	500 LBS		
GEL	2000 LBS		
WATER			

EVENING TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD	
35	STANDS DP	2160.67 FT.	RUN NO	15
	SNGLS. DP	FT.	SIZE	12¼
15	10-4½ ID D.C. 6½ 10" OD	444.33 FT.	MFG.	SEC
	RMR BODY OD	3.20 FT.	TYPE	M4N
	STB BODY OD	1.35 FT.	NOZ. NO.	3
	SUBS OD	FT.	NOZ. SIZE	¾
	BIT OR C.B.	FT	SER NO	77461Z
		FT.	DEPTH OUT	
	KELLY DOWN	15.00 FT.	CUMULATIVE HOURS RUN	14
	TOTAL	2624.55	COND. OF BIT	
	WT OF STRING	48000 LBS.	REAMER CUTTER NO.	
DRILLER	J Morrow		TYPE	

HRS. DRLD.	CORE NO.	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT. ON BIT 1000#	PUMP PRESS	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN
7¾		2575	2624	49	130	10000	1000	6½	60			

DEVIATION RECORD: 2578 — 1¾ | DIRECTION

REMARKS

400	500	DRILL
500	530	SURVEY
530	1200	DRILL

MUD RECORD

	5	9	11
TIME			
WEIGHT	9.7	9.8	9.8
VISC	58	70	65
W.L.-C.C.			7.2
FLTR CK.			2/32
PH			9.5
SD. CONT			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

C.P.—38 (10/63) **DAILY DRILLING REPORT** REPORT NO. 21 DATE MARCH 22/65

OPERATOR: SHELL CANADA LIMITED
LOCATION LSD. SEC. TWP. RGE. W.
WELL NAME: Clover Leaf No.
PROVINCE: NWT
CONTRACTOR: Regent Drilling RIG No. 21
DRILL PIPE STRING NO. SIZE | TOOL JOINT OD | TYPE THD.
OPERATOR'S REPRESENTATIVE: R B Cunningham
CONTRACTOR'S TOOL PUSHER: R. Moffitch

PUMPS

NO.	MANUFACTURER	TYPE	STROKE LENGTH
1.	EMSCO	D300	14
2.			
3.			

CASING & LINER RECORD

SIZE	WT. & GR.	DEPTH SET FROM	DEPTH SET TO	PERFORATIONS FROM	PERFORATIONS TO	CEMENT USED	OTHER

TIME DISTRIBUTION—HOURS

	MORN	DAY	EVE
DRILLING ACTUAL	7¾	~~7¾~~ 2	7½
REAMING			
CIRCULATING			
TRIPS		1¼	
DEVIATION SURVEY	¼		¼
TEST B.O.P			
CUT OFF DRILL LINE			
REPAIR RIG			
CORING			
WIRE LINE LOGGING		¼	
OTHER			
FISHING			
COMPLETING (A) PERFORATING			
(B) RUNNING TUBING			
(C) SWABBING			
(D) TESTING			
(E) ACIDIZING			
(F) ADDITIONAL		8	
TOTALS	8	8	8

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. or TRIPS SINCE LAST CUT
CUMULATIVE TON MI. or TRIPS
NO. OF DAYS FROM SPUD
CUMULATIVE ROTATING HRS.

MORNING TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD	
29	STANDS DP	FT.	RUN NO.	1H
1	SNGLS. DP	18 19.92 FT.	SIZE	12¼
20	16-4½ ID D.C. 4-6½ OD	596.02 FT.	MFG.	SEC
			TYPE	M4N
	RMR BODY OD	1.35 FT.	NOZ. NO.	3
	STB BODY OD	3.20 FT.	SIZE	3/4
	SUBS OD	FT.	SER. NO	775084
	BIT OR C.B.	FT.	DEPTH OUT	
		FT.	CUMULATIVE HOURS RUN	
	KELLY DOWN	22.00 FT.	COND. OF BIT	
	TOTAL	~~2442.39~~ FT.	REAMER CUTTER NO.	
	WT. OF STRING	48000 LBS.	TYPE	

DRILLER: S Morrow

HRS. DRLD.	CORE NO.	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT. ON BIT 1000#	PUMP PRESS.	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN
7¾		2405	2442	37	130	8000	1000	6¼	60			

DEVIATION RECORD: DEPTH 2431 DEV. 2¾

DEPTH	DEV.	DIRECTION

DEPTH	DEV.	DIRECTION

DEPTH	DEV.	DIRECTION

REMARKS

12⁰⁰ 5⁰⁰ DRILL
5⁰⁰ 5¹⁵ SURVEY
5¹⁵ 8⁰⁰ DRILL

MUD RECORD

	2	4	6
TIME			
WEIGHT	9.7	9.7	9.7
VISC	55	55	60
W.L.-C.C.	6.8		
FLTR. CK.	2/32		
PH	9.5		
SD. CONT.			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
GEL	10 SKS		
CAUSTIC	100 LBS.		
SUPER HG	200 LBS.		

DAY TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD	
30	STANDS DP	1850.76	RUN NO.	1A
	SNGLS. DP	FT.	SIZE	12¼
	ID D.C. 4-6½	FT.	MFG.	SEC
20	RMR BODY 4½ OD	596.02	TYPE	M4N
1	STB BODY OD	3.20 FT.	NOZ. NO	3
1	SUBS OD	1.35 FT.	SIZE	3/4
	BIT OR C.B.	FT.	SER. NO.	775084
		FT.	DEPTH OUT	
	KELLY DOWN	29 FT.	CUMULATIVE HOURS RUN	16¾
	TOTAL	2480.35 FT.	COND. OF BIT	Dull
	WT. OF STRING	48000 LBS.	REAMER CUTTER NO.	
			TYPE	

DRILLER: J. Hubford

HRS. DRLD.	CORE NO.	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT. ON BIT 1000#	PUMP PRESS.	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN
7½		2442	2480		130	6-10	1000	6¼	60			

DEVIATION RECORD: DEPTH 2451 DEV. 2¼

DEPTH	DEV.	DIRECTION

DEPTH	DEV.	DIRECTION

DEPTH	DEV.	DIRECTION

REMARKS

8⁰⁰ 8⁰⁰ Rig Service
8⁰⁰ 12⁰⁰ Drill with 6000# on bit
12¹⁵ 12³⁰ Survey
12³⁰ Drill with 8000# on bit

MUD RECORD

	8⁰⁰	12⁰⁰	2⁰⁰
TIME			
WEIGHT	9.7	9.7	9.7
VISC	45	55	51
W.L.-C.C.		6.8	
FLTR. CK.		2/32	
PH		9.5	
SD. CONT.			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
GEL	2600 #		
SUPER LIG	200 #		
CAUSTIC	100 #		
WATER			

EVENING TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD	
30	STANDS DP	FT.	RUN NO	1A
1	SNGLS. DP	1881.68 FT.	SIZE	12¼
20	16-4½ ID D.C 4 6½ OD	596.02 FT.	MFG.	SEC
			TYPE	M4N
	RMR BODY OD	3.20 FT.	NOZ. NO.	3
	STB BODY OD	1.35 FT.	SIZE	3/4
	SUBS OD	FT.	SER NO	775084
	BIT OR C.B.	FT	DEPTH OUT	2520
		FT.	CUMULATIVE HOURS RUN	24½
	KELLY DOWN	38.00 FT.	COND. OF BIT	
	TOTAL	2520.25 FT.	REAMER CUTTER NO.	
	WT OF STRING	48000 LBS.	TYPE	

DRILLER: S Morrow

HRS. DRLD.	CORE NO.	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT. ON BIT 1000#	PUMP PRESS	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN
11¾		2480	2520	40	130	10000	1000	6¼	60			

DEVIATION RECORD: DEPTH 2482 DEV. 2⁰

DEPTH	DEV.	DIRECTION

DEPTH	DEV	DIRECTION

DEPTH	DEV	DIRECTION

REMARKS

4⁰⁰ 6¹⁵ Drill
6¹⁵ 6³⁰ Survey
6³⁰ 12⁰⁰ Drill

MUD RECORD

	4⁰⁰	6⁰⁰	10⁰⁰
TIME			
WEIGHT	9.7	9.7	9.7
VISC	58	60	65
W.L.-C.C.			
FLTR CK.			
PH			
SD. CONT			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
WATER	#1		
GEL	1700 #		
SUPER LIG	200 #		

C.P.—38 (10/63) **DAILY DRILLING REPORT** REPORT NO. DATE MARCH 21 /65

OPERATOR: SHELL CANADA LIMITED | LOCATION LSD. SEC. TWP. RGE. W. | WELL NAME: CLOVER LEAF No. | PROVINCE: NWT

CONTRACTOR: REGENT DRILLING RIG No. 21 | DRILL PIPE STRING NO. SIZE | TOOL JOINT OD | TYPE THD.

OPERATOR'S REPRESENTATIVE: B Lumley | CONTRACTOR'S TOOL PUSHER: R. Mulfinish

PUMPS

NO.	MANUFACTURER	TYPE	STROKE LENGTH
1.	EMSCO	D300	14
2.			
3.			

CASING & LINER RECORD

SIZE	WT. & GR.	DEPTH SET FROM	DEPTH SET TO	PERFORATIONS FROM	PERFORATIONS TO	CEMENT USED	OTHER

TIME DISTRIBUTION—HOURS

	MORN	DAY	EVE
DRILLING ACTUAL	7 3/4	16 3/4	3 1/4
REAMING			
CIRCULATING			2 1/2
TRIPS			4 1/2
DEVIATION SURVEY	1/4	1/4	
TEST B.O.P			
CUT OFF DRILL LINE			
REPAIR RIG		3/4	
CORING			
WIRE LINE LOGGING			1/4
OTHER		1/4	
FISHING			
COMPLETING (A) PERFORATING			
(B) RUNNING TUBING			
(C) SWABBING			
(D) TESTING			
(E) ACIDIZING			
(F) ADDITIONAL			
TOTALS	8	8	8

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. or TRIPS SINCE LAST CUT

CUMULATIVE TON MI. or TRIPS

NO. OF DAYS FROM SPUD

CUMULATIVE ROTATING HRS.

MORNING TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD	
28	STANDS DP	1727.55 FT.	RUN NO.	13
	SNGLS. DP	FT.	SIZE	12 1/4
20	D.C. 16-4 1/2 4-6 1/2 OD	596.02 FT.	MFG.	SPC
	RMR BODY OD	3.20 FT.	TYPE	S6
	STB BODY OD	1.35 FT.	NOZ. NO.	3
	SUBS OD	FT.	SIZE	3/4
	BIT OR C.B.	FT.	SER. NO	774958
		FT.	DEPTH OUT	
	KELLY DOWN	20.00 FT.	CUMULATIVE HOURS RUN	
	TOTAL	2348.12 FT.	COND. OF BIT	
WT. OF STRING	78000 LBS.		REAMER CUTTER NO.	
DRILLER			TYPE	

HRS. DRLD.	CORE NO.	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT. ON BIT 1000#	PUMP PRESS.	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN
7 3/4		2309	2348	39'	130	10000	800	6 1/4	62			

DEVIATION RECORD:

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION
2338	2 1/2							

REMARKS

12 00 – 6 00 DRILL
6 00 – 6 15 SURVEY
6 15 – 8 00 DRILL

MUD RECORD

TIME	12 00	2	4
WEIGHT	9.5	9.5	9.6
VISC	60	58	53
W.L.-C.C.			
FLTR. CK.			
PH			
SD. CONT.			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
GEL	10 SAXS		
SUPER X	216	200 LBS.	
CAUSTIC	100 LBS.		

DAY TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD	
20	STANDS DP	1158.47 FT.	RUN NO.	13
1	SNGLS. DP		SIZE	12 1/4
2	D.C. 16-4 1/2 4-6 1/2 OD	596.02 FT.	MFG.	SEC
	RMR BODY OD	3.20 FT.	TYPE	S6
	STB BODY OD	1.35 FT.	NOZ. NO	3
	SUBS OD	FT.	SIZE	3/4
	BIT OR C.B.	FT.	SER. NO.	774958
		FT.	DEPTH OUT	
	KELLY DOWN	25 FT.	CUMULATIVE HOURS RUN	15 1/4
	TOTAL	2383.94 FT.	COND. OF BIT	DRL
WT. OF STRING	48000 LBS.		REAMER CUTTER NO.	1
DRILLER	J. Gifford		TYPE	

HRS. DRLD.	CORE NO.	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT. ON BIT 1000#	PUMP PRESS.	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN
6 3/4		2348	2383		150	8-10	950	6 1/4	64			

DEVIATION RECORD:

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION
2358	1 1/2							

REMARKS

8 00 – 8 30 RIG SERV
8 30 – 9 30 DRILL WITH 10 000 on BIT
9 30 – 10 00 WORK ON PUMP
10 00 – 12 00 DRILL WITH 10 000# ON BIT
12 00 – 12 15 SURVEY JET TELLER
12 15 – 2 00 Drill with 8000# on BIT
2 00 – 2 45 WORK ON Pump MOTOR
2 45 – 4 00 DRILL

MUD RECORD

TIME	8 00	12 00	2 00
WEIGHT	9.6	9.6	9.5
VISC	49	54	60
W.L.-C.C.	8.2		
FLTR. CK.	2/32		
PH	9.5		
SD. CONT.			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
GEL	3600 #		
CAUSTIC	50 #		
SUPERLIG	300 #		

EVENING TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD		
29	STANDS DP	1799.95 FT.	RUN NO	13	14
	SNGLS. DP	FT.	SIZE	12 1/4	12 1/4
20	NC 4 1/2 D.C 4-6 1/2 OD	596.02 FT.	MFG.	SEC	SEC
	RMR BODY OD	3.20 FT.	TYPE	S3	M4N
1	STB BODY OD	1.35 FT.	NOZ. NO.	3	3
	SUBS OD	FT.	SIZE	3/4	3/4
	BIT OR C.B.	FT.	SER NO	774958	775084
		FT.	DEPTH OUT	2390	
	KELLY DOWN	15.80 FT.	CUMULATIVE HOURS RUN	18 1/2	
	TOTAL	2465.52 FT.	COND. OF BIT		
WT OF STRING	48000 LBS.		REAMER CUTTER NO.		
DRILLER	J. Morrow		TYPE		

HRS. DRLD.	CORE NO.	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT. ON BIT 1000#	PUMP PRESS	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN
4 3/4		2383	2405	22	130	6000	1000	6 1/4	64			

DEVIATION RECORD:

DEPTH	DEV.	DIRECTION	DEPTH	DEV	DIRECTION	DEPTH	DEV	DIRECTION
2390	0 1/2°							

REMARKS

4 00 – 7 15 DRILL
7 15 – 7 45 SURVEY
7 45 – 10 15 TRIPING for NEW BIT
10 15 – 10 30 Rig SERV
10 30 – 12 00 DRILL

MUD RECORD

TIME	4 00	6 00	
WEIGHT	9.5	9.5	
VISC	64	66	
W.L.-C.C.			
FLTR CK.			
PH			
SD. CONT			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

C.P.—38 (10/63) **DAILY DRILLING REPORT** REPORT NO. 18 DATE MARCH 20 1965

OPERATOR: SHELL CANADA LIMITED
LOCATION LSD. SEC. TWP. RGE. W.
WELL NAME: CLOVER LEAF No. PROVINCE: NWT
CONTRACTOR: Regent Drilling RIG No. 21
DRILL PIPE STRING NO. SIZE | TOOL JOINT OD | TYPE THD.
OPERATOR'S REPRESENTATIVE: W B Cumber CONTRACTOR'S TOOL PUSHER: A. Heffernan

PUMPS

NO.	MANUFACTURER	TYPE	STROKE LENGTH
1.	EMSCO	D300	14
2.			
3.			

CASING & LINER RECORD

SIZE	WT. & GR.	DEPTH SET FROM	DEPTH SET TO	PERFORATIONS FROM	PERFORATIONS TO	CEMENT USED	OTHER

TIME DISTRIBUTION—HOURS

	MORN	DAY	EVE
DRILLING ACTUAL	7½		2¼
REAMING		7½	1
CIRCULATING			
TRIPS			2½
DEVIATION SURVEY	¼		½
TEST B.O.P		¼	
CUT OFF DRILL LINE			1½
REPAIR RIG			
CORING			
WIRE LINE LOGGING			
OTHER	¼		¼
FISHING		¼	
COMPLETING (A) PERFORATING			
(B) RUNNING TUBING			
(C) SWABBING			
(D) TESTING			
(E) ACIDIZING			
(F) ADDITIONAL			
TOTALS	8		8

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. or TRIPS SINCE LAST CUT
CUMULATIVE TON MI. or TRIPS
NO. OF DAYS FROM SPUD
CUMULATIVE ROTATING HRS:

MORNING TOUR

NO.	DRILLING ASSEMBLY		FT.
26	STANDS DP		
1	SNGLS. DP		1635.34 FT.
20	D.C. 4-6½ ID 16-4½ OD		596.02 FT.
	RMR BODY OD		3.20 FT.
	STB BODY OD		1.35 FT.
	SUBS OD		FT.
	BIT OR C.B.		FT.
			FT.
	KELLY DOWN		22.00 FT.
	TOTAL		2257.91 FT.
WT. OF STRING		42000 LBS.	

DRILLER: S Morrow

BIT RECORD

RUN NO.	12
SIZE	12¼
MFG.	SEC
TYPE	S6
NOZ. NO.	3
NOZ. SIZE	3/4
SER. NO	645439
DEPTH OUT	running
CUMULATIVE HOURS RUN	
COND. OF BIT	
REAMER CUTTER NO.	
TYPE	

HRS. DRLD.	CORE NO.	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT. ON BIT 1000#	PUMP PRESS.	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN
7½		2218	2258	40'	130	4000	900	6¼	54			

DEVIATION RECORD:	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION
	2246	30							

REMARKS

12 00	12 15	Rig Serv
12 15	4 30	Drill
4 30	4 45	Survey
4 45	4 00	Drill

MUD RECORD

TIME	12	2	4
WEIGHT	9.4	9.5	9.6
VISC	65	58	58
W.L.-C.C.			
FLTR. CK.	2/32		
PH	9.5		
SD. CONT.			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
CAUSTIC	100 LBS.		
SUPER A	216 100 LBS.		
GEL	900 LBS		

DAY TOUR

NO.	DRILLING ASSEMBLY		FT.
27	STANDS DP		
1	SNGLS. DP		1666.34 FT.
20	D.C. 4-6½ ID 16-4½ OD		596.02 FT.
1	RMR BODY OD		3.20 FT.
1	STB BODY OD		1.35 FT.
	SUBS OD		FT.
	BIT OR C.B.		FT.
			FT.
	KELLY DOWN		FT.
	TOTAL		34 FT.
WT. OF STRING		2300.00 LBS.	

DRILLER: J. Hebbard

BIT RECORD

RUN NO.	12
SIZE	12¼
MFG.	SEC
TYPE	S6
NOZ. NO.	3
NOZ. SIZE	3/4
SER. NO.	645439
DEPTH OUT	run
CUMULATIVE HOURS RUN	
COND. OF BIT	
REAMER CUTTER NO.	
TYPE	

HRS. DRLD.	CORE NO.	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT. ON BIT 1000#	PUMP PRESS.	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN
7½		2258	2300		130-8		950	6¾	54			

DEVIATION RECORD:	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION
	2866	2¾							

REMARKS

8 30	8 12	Drill
8 30	8 30	Rig Service Jet Tank
8 30	12 00	Drill with 6000# on bit
10 00	12 00	Survey & Clean Tank
12 00	4 00	Drill with 8000# on bit

MUD RECORD

TIME	8 00	12 00	7 00
WEIGHT	9.9	9.7	9.6
VISC	47	51	55
W.L.-C.C.	7.0		
FLTR. CK.	2/32		
PH	9.5		
SD. CONT.			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
GEL	3800 #		
CAUSTIC	50 #		
SUPERLIG	100 #		
Divinil Vis	190		

EVENING TOUR

NO.	DRILLING ASSEMBLY		FT.
27	STANDS DP		
1	SNGLS. DP		1692.29 FT.
20	D.C. 4-6½ ID 16-4½ OD		596.02 FT.
	RMR BODY OD		3.20 FT.
	STB BODY OD		1.35 FT.
	SUBS OD		FT.
	BIT OR C.B.		FT.
			FT.
	KELLY DOWN		12.00 FT.
	TOTAL		2309.86 FT.
WT OF STRING		46000 LBS.	

DRILLER: S Morrow

BIT RECORD

RUN NO	12	13
SIZE	12¼	12¼
MFG.	SEC	SEC
TYPE	S6	S6
NOZ. NO.	3	3
NOZ. SIZE	3/4	3/4
SER NO	645434	711958
DEPTH OUT	2307	
CUMULATIVE HOURS RUN		
COND. OF BIT		
REAMER CUTTER NO.		
TYPE		

HRS. DRLD.	CORE NO.	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT. ON BIT 1000#	PUMP PRESS	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN
2¼		2300	2309	9	130	4000	800	6¼	62			

DEVIATION RECORD:	DEPTH	DEV.	DIRECTION	DEPTH	DEV	DIRECTION	DEPTH	DEV	DIRECTION
	2897	2½							

REMARKS

4 00	5 30	Drill with 8000# on bit
5 30	6 00	Survey
6 00	7 30	Pull Out
7 30	8 00	Run in D.C.
8 00	9 30	Slip and Cut Line and Change heads and Liner
9 30	10 00	Run in
10 00	11 00	Reaming to Bottom
11 00	12 00	Drill

MUD RECORD

TIME		10	
WEIGHT		9.5	
VISC		60	
W.L.-C.C.			
FLTR CK.			
PH			
SD. CONT			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

C.P.—38 (10/63) **DAILY DRILLING REPORT** REPORT NO. 17 DATE MARCH 19/65

OPERATOR	LOCATION LSD. SEC. TWP. RGE. W.	WELL NAME	No.	PROVINCE
SHELL CANADA LIMITED		SHELL CLARKE LAKE	1-76	N.W.T

CONTRACTOR	RIG No.	DRILL PIPE STRING NO. SIZE	TOOL JOINT OD	TYPE THD.
REGENT	21	23	4 3/4	IF

OPERATOR'S REPRESENTATIVE: W B Curran

CONTRACTOR'S TOOL PUSHER: R. Whitcombe

PUMPS

NO.	MANUFACTURER	TYPE	STROKE LENGTH
1.	EMSCO	D300	14
2.			
3.			

CASING & LINER RECORD

SIZE	WT. & GR.	DEPTH SET FROM	DEPTH SET TO	PERFORATIONS FROM	PERFORATIONS TO	CEMENT USED	OTHER
13 3/4		0	716				

TIME DISTRIBUTION—HOURS

	MORN	DAY	EVE
DRILLING ACTUAL	7 1/2	5 3/4	4 1/2
REAMING			1/2
CIRCULATING			
TRIPS			2 1/2
DEVIATION SURVEY	1/2	3/4	1/2
TEST B.O.P			
CUT OFF DRILL LINE			
REPAIR RIG		1 1/2	
CORING			
WIRE LINE LOGGING			
OTHER	1/2		1/2
FISHING			
COMPLETING (A) PERFORATING			
(B) RUNNING TUBING			
(C) SWABBING			
(D) TESTING			
(E) ACIDIZING			
(F) ADDITIONAL			
TOTALS	8	8	8

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. or TRIPS SINCE LAST CUT

CUMULATIVE TON MI. or TRIPS

NO. OF DAYS FROM SPUD

CUMULATIVE ROTATING HRS.

MORNING TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD	
24	STANDS DP	FT.	RUN NO.	11
1	SNGLS. DP	1512.19 FT.	SIZE	12 1/4
20	D.C. 4-6 1/2 ID / 6 1/2 OD	596.02 FT.	MFG.	REED
	RMR BODY OD	3.20 FT.	TYPE	YT3
	STB BODY OD	1.35 FT.	NOZ. NO.	3
	SUBS OD	FT.	NOZ. SIZE	3/4
	BIT OR C.B.	FT.	SER. NO	E84562
		FT.	DEPTH OUT	NOW
	KELLY DOWN	FT.	CUMULATIVE HOURS RUN	12 3/4
	TOTAL	2145.16 FT.	COND. OF BIT	
WT. OF STRING	40M LBS.		REAMER CUTTER NO.	
			TYPE	

DRILLER: L McIntosh

HRS. DRLD.	CORE NO.	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT. ON BIT 1000#	PUMP PRESS.	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN
7 1/2		2100	2145	45	160	Y.6	950	6 1/4	54			

DEVIATION RECORD:

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION
2051	3							

REMARKS

1200	1215	RIG SERVICE
1215	330	DRILL
330	400	SURVEY
400	800	DRILL

MUD RECORD

TIME	200	400	700
WEIGHT	95	96	96
VISC	61	60	60
W.L.-C.C.	7.6		
FLTR. CK.	2/32		
PH	9.5		
SD. CONT.			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
GEL	600		
SUPER L.G	100		
CAUSTIC	50		

DAY TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD	
24	STANDS DP	FT.	RUN NO.	11
1	SNGLS. DP	1573.96 FT.	SIZE	12 1/4
20	D.C. 4-6 1/2 ID / 6 1/2 OD	596.02 FT.	MFG.	REED
	RMR BODY OD	5.28 FT.	TYPE	YT3
	STB BODY OD	1.35 FT.	NOZ. NO.	3
	SUBS OD	FT.	NOZ. SIZE	3/4
	BIT OR C.B.	FT.	SER. NO.	E84562
		FT.	DEPTH OUT	2143
	KELLY DOWN	25 FT.	CUMULATIVE HOURS RUN	18 1/2
	TOTAL	2190.55 FT.	COND. OF BIT	
WT. OF STRING	46,000 LBS.		REAMER CUTTER NO.	
			TYPE	

DRILLER: J. Hibbard

HRS. DRLD.	CORE NO.	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT. ON BIT 1000#	PUMP PRESS.	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN
5 3/4		2145	2190		160	8,000	900	6 1/4	54			

DEVIATION RECORD:

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION
2143	2 1/4		2143	2 1/4°				

REMARKS

800	900	DRILL WITH 8000 ON BIT
900	930	RIG SERVICE - SURVEY / JET CELLAR
930	1045	DRILL
1041	1110	REPLACE ROTARY CHAIN DRILL - 3° 4°
1115	200	DRILL
200	215	SURVEY
215	345	DRILL
345		WORK ON PUMP

MUD RECORD

TIME	800	1000	2000
WEIGHT	9.9	9.7	9.5
VISC	55	58	63
W.L.-C.C.	7.8		
FLTR. CK.	2/32		
PH	9.0		
SD. CONT.			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
GEL	2000 #		
CAUSTIC	100 #		
SUPER LIG	250 #		
WATER	LOTS		

EVENING TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD		
26	STANDS DP	1604.39 FT.	RUN NO	11	12
	SNGLS. DP	FT.	SIZE	12 1/4	12 1/4
20	D.C. 4 6 1/2 ID / 6 1/2 OD	596.02 FT.	MFG.	REED	SEC
	RMR BODY OD	3.02 FT.	TYPE	YT3	5.6
	STB BODY OD	1.35 FT.	NOZ. NO.	3	3
	SUBS OD	FT.	NOZ. SIZE	3/4	3/4
	BIT OR C.B.	FT.	SER NO	E84562	6454894
		FT.	DEPTH OUT	2214	
	KELLY DOWN	14.00 FT.	CUMULATIVE HOURS RUN	21 3/4	
	TOTAL	2216.78 FT.	COND. OF BIT	pull	
WT OF STRING	46000 LBS.		REAMER CUTTER NO.		
			TYPE		

DRILLER: J Morrow

HRS. DRLD.	CORE NO.	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT. ON BIT 1000#	PUMP PRESS	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN
24		2190	2214	24	160	8000	900	6 3/4	54			

DEVIATION RECORD:

DEPTH	DEV.	DIRECTION	DEPTH	DEV	DIRECTION	DEPTH	DEV	DIRECTION
2204	3°							

REMARKS

1400	715	DRILL
715	730	SURVEY
730	900	PULL OUT
900	915	RIG SERV
915	1030	RUN IN
1030	1100	REAM TO BOTTOM
1100	1200	DRILL

MUD RECORD

TIME	1400	1800	2400
WEIGHT	9.6	9.6	9.6
VISC	55	62	75
W.L.-C.C.			
FLTR. CK.			
PH			
SD. CONT			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

Quick Vis — 150 Now

C.P.-30 (10/63) **DAILY DRILLING REPORT** REPORT NO. 16 DATE MARCH 18/65

OPERATOR: SHELL CANADA LIMITED | LOCATION LSD. SEC. TWP. RGE. W. | WELL NAME: SHELL CLOVER LEAF No. 1-46 | PROVINCE: NWT

CONTRACTOR: REGENT | RIG No. 21 | DRILL PIPE STRING NO. 2 SIZE 3½ | TOOL JOINT 4½ OD | TYPE THD. IF

OPERATOR'S REPRESENTATIVE: L.E. Hooper | CONTRACTOR'S TOOL PUSHER

PUMPS

NO.	MANUFACTURER	TYPE	STROKE LENGTH
1.	EMSCO	D200	14
2.			
3.			

CASING & LINER RECORD

SIZE	WT. & GR.	DEPTH SET FROM	DEPTH SET TO	PERFORATIONS FROM	PERFORATIONS TO	CEMENT USED	OTHER
13⅜		0	716				

TIME DISTRIBUTION — HOURS

	MORN	DAY	EVE
DRILLING ACTUAL	6	4½	5½
REAMING			¾
CIRCULATING			
TRIPS		1½	1½
DEVIATION SURVEY	½	1½	½
TEST B.O.P			
CUT OFF DRILL LINE	½		
REPAIR RIG	1½		
CORING			
WIRE LINE LOGGING			
OTHER	½	½	
FISHING			
COMPLETING (A) PERFORATING			
(B) RUNNING TUBING			
(C) SWABBING			
(D) TESTING			
(E) ACIDIZING			
(F) ADDITIONAL			
TOTALS	8	8	8

TIME SUMMARY (OFFICE USE ONLY)

CONTRACTOR'S TIME HRS:

OPERATOR'S TIME: 22¾ hrs

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. or TRIPS SINCE LAST CUT

CUMULATIVE TON MI. or TRIPS

NO. OF DAYS FROM SPUD

CUMULATIVE ROTATING HRS.

MORNING TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD	
23	STANDS DP	1420.26 FT.	RUN NO.	10
	SNGLS. DP	FT.	SIZE	12¼
20	D.C. 4-6½ ID 16½ OD	596.02 FT.	MFG.	SEC
	RMR BODY 6½ OD	320 FT.	TYPE	S3
	STB BODY 6½ OD	135 FT.	NOZ. NO.	3
	SUBS OD	FT.	NOZ. SIZE	3/4
	BIT OR C.B.	FT.	SER. NO	RR 775103
		FT.	DEPTH OUT	Rual
	KELLY DOWN	1500 FT.	CUMULATIVE HOURS RUN	7½
	TOTAL	2035.85 FT.	COND. OF BIT	
WT. OF STRING	46000 LBS.		REAMER CUTTER NO.	
			TYPE	

DRILLER: L McIntosh

HRS. DRLD.	CORE NO.	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT. ON BIT 1000#	PUMP PRESS.	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN
6		1978	2035	57	160	12M	950	6¾				

DEVIATION RECORD: DEPTH 2020 DEV. 2½ DIRECTION

REMARKS

1200	1215	SERVICE RIG
1215	200	DRILL
200	315	REPACK SWIVEL
315	600	DRILL 12-14 M ON BIT
600	630	SURVEY
630	800	DRILL 6-8M ON BIT

MUD RECORD

TIME	1200	400	600
WEIGHT	9.5	9.5	9.6
VISC	84	80	73
W.L.-C.C.		6.2	
FLTR. CK.		2/32	
PH	9.4	9.5	9.5
SD. CONT.			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
CAUSTIC	50		
SUPER LIG	100		
GEL	600		

DAY TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD	
23	STANDS DP	FT.	RUN NO.	10
1	SNGLS. DP	14.17 FT.	SIZE	12¼
20	D.C. 4-6½ ID 16-4½ OD	596.02 FT.	MFG.	SEC
	RMR BODY OD	3 FT.	TYPE	S-3
	STB BODY OD	1.35 FT.	NOZ. NO.	3
	SUBS OD	FT.	NOZ. SIZE	3/4
	BIT OR C.B.	FT.	SER. NO.	RR 775103
		FT.	DEPTH OUT	2065
	KELLY DOWN	14 FT.	CUMULATIVE HOURS RUN	11¾
	TOTAL	2065.76 FT.	COND. OF BIT	221
WT. OF STRING	46,000 LBS.		REAMER CUTTER NO.	
			TYPE	

DRILLER: J. Nibbard

HRS. DRLD.	CORE NO.	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT. ON BIT 1000#	PUMP PRESS.	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN
4½		2035	2065	30	160	3-8	900	6¾	57			

DEVIATION RECORD: DEPTH 2050 DEV. 2¾ DIRECTION

REMARKS

800	830	DRILL WITH 6-8000# ON BIT
830	900	RIG SERVICE & CLEAN TANK
900	1130	DRILL WITH 6-8000# ON BIT
1130	1200	SURVEY & JET CELLAR
1200	100	DRILL WITH 3-4000# ON BIT
100	200	PULL OUT
200	400	PICK UP 9" COLLARS BREAK & LAY DOWN

MUD RECORD

TIME	400	1000	1700
WEIGHT	9.7	9.6	9.5
VISC	60	55	55
W.L.-C.C.		6.5	
FLTR. CK.		2/32	
PH		9.5	
SD. CONT.			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
SUPER LIG	200#		
CAUSTIC	50#		
GEL	1000		
Quebracho	1 gallon		

EVENING TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD	
24	STANDS DP	1481.24 FT.	RUN NO	11
	SNGLS. DP	FT.	SIZE	12¼
20	D.C. 4-6½ ID 16½ OD	596.02 FT.	MFG.	REED
	RMR BODY OD	3.20 FT.	TYPE	J-33
	STB BODY OD	1.35 FT.	NOZ. NO.	3
	SUBS OD	FT.	NOZ. SIZE	3/4
	BIT OR C.B.	FT.	SER NO	
		FT.	DEPTH OUT	2100
	KELLY DOWN	1900 FT.	CUMULATIVE HOURS RUN	5½
	TOTAL	2100 81 FT.	COND. OF BIT	
WT OF STRING	LBS.		REAMER CUTTER NO.	
			TYPE	

DRILLER

HRS. DRLD.	CORE NO.	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT. ON BIT 1000#	PUMP PRESS	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN
5½		2065	2100	35	160	4-8	950	6¾	54			

DEVIATION RECORD: DEPTH 2081 DEV. 3 DIRECTION

REMARKS

400	500	ROW IW
500	600	REAM TO BTM 75'
600	1000	DRILL WITH 5000# ON BIT
1000	1030	SURVEY
1030	1200	DRILL

MUD RECORD

TIME	600	800	1200
WEIGHT	94	96	95
VISC	70	65	80
W.L.-C.C.		6.5	
FLTR CK.		2/32	
PH		9.5	
SD. CONT			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

C.P.—38 (10/63) **DAILY DRILLING REPORT** REPORT NO. 15 DATE MARCH 17/65

OPERATOR	LOCATION LSD. SEC. TWP. RGE. W.	WELL NAME	No.	PROVINCE
SHELL CANADA LIMITED		SHELL CLOVER LEAF	1-46	N.W.T.

CONTRACTOR	RIG No.	DRILL PIPE STRING NO. SIZE	TOOL JOINT	TYPE THD.
REGENT	21	2 3½	4¾ OD	11"

OPERATOR'S REPRESENTATIVE: B Ettinger

CONTRACTOR'S TOOL PUSHER:

PUMPS

NO.	MANUFACTURER	TYPE	STROKE LENGTH
1.	EMSCO	D	14
2.			
3.			

CASING & LINER RECORD	SIZE	WT. & GR.	DEPTH SET FROM	DEPTH SET TO	PERFORATIONS FROM	PERFORATIONS TO	CEMENT USED	OTHER
	13⅜			716				

TIME DISTRIBUTION—HOURS

	MORN	DAY	EVE
DRILLING ACTUAL	6	6¾	2
REAMING			1¾
CIRCULATING			
TRIPS			3
DEVIATION SURVEY	½	1	¼
TEST B.O.P			¼
CUT OFF DRILL LINE			
REPAIR RIG	1¼		
CORING			¾
WIRE LINE LOGGING			
OTHER	¼	¼	
FISHING			
COMPLETING (A) PERFORATING			
(B) RUNNING TUBING			
(C) SWABBING			
(D) TESTING			
(E) ACIDIZING			
(F) ADDITIONAL			
TOTALS	9	8	7

TIME SUMMARY (OFFICE USE ONLY)

CONTRACTOR'S TIME HRS:

OPERATOR'S TIME:

HRS. W/D.P: 22¾

HRS WO/D.P:

HRS STANDBY

WIRE LINE RECORD

REEL NO

NO OF LINES SIZE

FEET SLIPPED

FEET CUT OFF

PRESENT LENGTH

TON MI. or TRIPS SINCE LAST CUT

CUMULATIVE TON MI. or TRIPS

NO. OF DAYS FROM SPUD

CUMULATIVE ROTATING HRS.

MORNING TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD	
23	STANDS DP	FT.	RUN NO.	9
	SNGLS. DP	1266.19 FT.	SIZE	12¼
20	D.C. 4-6½ ID 6¼ OD	596.02 FT.	MFG.	REED
	RMR BODY OD	320 FT.	TYPE	VT3
	STB BODY OD	135 FT.	NOZ. NO.	3
	SUBS OD	FT.	SIZE	¾
	BIT OR C.B.	FT.	SER. NO	E64565
		FT.	DEPTH OUT	RUN
	KELLY DOWN	3700 FT.	CUMULATIVE HOURS RUN	25¼
	TOTAL	1903.74 FT.	COND. OF BIT	Rrrd
	WT. OF STRING	46M LBS.	REAMER CUTTER NO.	
			TYPE	

DRILLER: L McIntosh

HRS. DRLD.	CORE NO.	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT. ON BIT 1000#	PUMP PRESS.	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN
6		1850	1903	53	160	4-Fa	950	6¾	54			

DEVIATION RECORD: DEPTH 1866 DEV. 2 DIRECTION

REMARKS

1200	1215	Rig Service
1215	315	Drill 6-8M on Bit
315	345	Survey
345	445	Drill
445	600	Repack Swivel Replace Wash Pipe
600	800	Drill 6-8M on Bit

MUD RECORD

	1200	400	600
TIME			
WEIGHT	94	93	92
VISC	73	78	80
W.L.-C.C.			
FLTR. CK.	2/32		
PH	9.5		
SD. CONT.			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
Gel	600 LBS		
Lig	100 LBS		
Caustic	100 LBS		

DAY TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD	
21	STANDS DP	FT.	RUN NO.	9
1	SNGLS. DP	1327.54	SIZE	12¼
20	D.C. 4-6½ 16 4¾ OD	596.02 FT.	MFG.	REED
1	RMR BODY OD	3.20 FT.	TYPE	VT3
1	STB BODY OD	1.35 FT.	NOZ. NO.	3
	SUBS OD	FT.	SIZE	¾
	BIT OR C.B.	FT.	SER. NO.	DRU565
		FT.	DEPTH OUT	
	KELLY DOWN	37 FT.	CUMULATIVE HOURS RUN	32½
	TOTAL	1965.19 FT.	COND. OF BIT	Dull
	WT. OF STRING	46000 LBS.	REAMER CUTTER NO.	
			TYPE	

DRILLER: J. Hibbard

HRS. DRLD.	CORE NO.	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT. ON BIT 1000#	PUMP PRESS.	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN
6¾		1903	1965		160	10	950	6¾	54			

DEVIATION RECORD: DEPTH 1895 DEV. 2° DIRECTION | DEPTH 1930 DEV. 2° DIRECTION

REMARKS

8	8:30	Drill -6-8000 W Bit	✓	50
8:30	9	Rig Service & Survey	✓	50
9	12:15	Drill with 10,000# on Bit	✓	325
12:15	1	Survey & Tot Cellar		75
1	4	Drill with 10,000# on Bit	✓	300

MUD RECORD

	8	12	2
TIME			
WEIGHT	9.4	9.4	95
VISC	67	66	65
W.L.-C.C.	7.6		
FLTR. CK.	2/32		
PH	9.5		
SD. CONT.			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
WATER		SOAP	16-100
CAUSTIC	50		
Quik Vis	1 gallon		
GEL	1800 LBS		

EVENING TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD		
22	STANDS DP	FT.	RUN NO	9	10
	SNGLS. DP	1359.69 FT.	SIZE	12¼	12¼
20	D.C 4-6½ 16 4¾ OD	596.02 FT.	MFG.	REED	SEC
	RMR BODY OD	320 FT.	TYPE	VT3	S-3
	STB BODY OD	135 FT.	NOZ. NO.	3	3
	SUBS OD	FT.	SIZE	¾	¾
	BIT OR C.B.	FT.	SER NO	RR4567	RR4567
		FT.	DEPTH OUT	1968	RUN
	KELLY DOWN	FT.	CUMULATIVE HOURS RUN	33	1½
	TOTAL	FT.	COND. OF BIT	1-1-I	
	WT OF STRING	LBS.	REAMER CUTTER NO.		
			TYPE		

DRILLER

HRS. DRLD.	CORE NO.	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT. ON BIT 1000#	PUMP PRESS	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN
2		1965	~~1968~~		160	10-12	950	6¾				
			1972	13								

DEVIATION RECORD: DEPTH 1959 DEV. 1¾° DIRECTION | DEPTH DEV DIRECTION | DEPTH DEV DIRECTION

REMARKS

4	4:30	Drill		
4:30	4:45	Survey	✓	50
4:45	7	Pull out (tight)	✓	225'
7	7:30	Pick up and break bits of 2 pilot reamers		
7:30	8	Check Bops & Kelly Cock	✓	
8	8:45	Run in	✓	75'
8:45	10:30	Reaming to bottom and tight hole at 1630		
10:30	12:00	Drilling		

MUD RECORD

	400		1100
TIME			
WEIGHT	94	T	95
VISC	70	R	93
W.L.-C.C.	8.2	I	
FLTR. CK.	2/32	P	
PH	9.5		
SD. CONT			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

C.P.—38 (10/63) **DAILY DRILLING REPORT** REPORT NO. 14 DATE MARCH 16/65

OPERATOR	LOCATION LSD.	SEC.	TWP.	RGE.	W.	WELL NAME	No.	PROVINCE
SHELL CANADA LIMITED						SHELL CLOVER LEAF	1-46	N.W.T.

CONTRACTOR	RIG No.	DRILL PIPE STRING NO. SIZE	TOOL JOINT	CASING & LINER RECORD	SIZE	WT. & GR.	DEPTH SET FROM	DEPTH SET TO	PERFORATIONS FROM	PERFORATIONS TO	CEMENT USED	OTHER
REGENT	21	2 3½	TYPE THD. IF		13⅜		0	716				

OPERATOR'S REPRESENTATIVE	CONTRACTOR'S TOOL PUSHER
L.E. Hinger	R. Moffitch

PUMPS

NO.	MANUFACTURER	TYPE	STROKE LENGTH
1.	EMSCO	D300	14
2.			
3.			

TIME DISTRIBUTION—HOURS

	MIDN	DAY	EVE
DRILLING ACTUAL	6½	7¾	
REAMING			
CIRCULATING	¾		
TRIPS			
DEVIATION SURVEY	¼	½	
TEST B.O.P			
CUT OFF DRILL LINE			
REPAIR RIG			
CORING			
WIRE LINE LOGGING			
OTHER	¼	¼	
FISHING			
COMPLETING (A) PERFORATING			
(B) RUNNING TUBING			
(C) SWABBING			
(D) TESTING			
(E) ACIDIZING			
(F) ADDITIONAL			
TOTALS	8		

TIME SUMMARY (OFFICE USE ONLY)

CONTRACTOR'S TIME HRS:

OPERATOR'S TIME:

HRS. W/D.P: 23 hrs.

HRS WO/D.P:

HRS STANDBY

WIRE LINE RECORD

REEL NO

NO OF LINES SIZE

FEET SLIPPED

FEET CUT OFF

PRESENT LENGTH

TON MI. or TRIPS SINCE LAST CUT

CUMULATIVE TON MI. or TRIPS

NO. OF DAYS FROM SPUD

CUMULATIVE ROTATING HRS.

MORNING TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD	
18	STANDS DP	FT.	RUN NO.	9
	SNGLS. DP	113960 FT.	SIZE	12¼
20	D.C. 4-6½ ID 16 4½ OD	596.02 FT.	MFG.	REED
	RMR BODY OD	320 FT.	TYPE	XT3
	STB BODY OD	FT.	NOZ. NO.	3
	SUBS 10 OD	135 FT.	SIZE	3/4
	BIT OR C.B.	FT.	SER. NO	E84565
		FT.	DEPTH OUT	
	KELLY DOWN	40 FT.	CUMULATIVE HOURS RUN	6½
	TOTAL	1760.16 FT.	COND. OF BIT	R.W
WT. OF STRING	42M LBS.		REAMER CUTTER NO.	
DRILLER	L McIntosh		TYPE	

HRS. DRLD.	CORE NO.	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT. ON BIT 1000#	PUMP PRESS.	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN
6½		1687	1760	73	150	5M	950	6¾	63			

DEVIATION RECORD:	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION
	1720	3°							

REMARKS

1200	1215	RIG SERVICE
1215	100	CLEANING TO BOTTOM
100	245	DRILL
245	315	SURVEY
315	800	DRILL

MUD RECORD

TIME	200	600	800
WEIGHT	9.2	92	92
VISC	73	73	66
W.L.-C.C.	8.2		
FLTR. CK.	2/32		
PH	8.5		
SD. CONT.			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
CAUSTIC	50		
GEL	600		
LIGNITE	200		

DAY TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD	
19	STANDS DP	1170.57 FT.	RUN NO.	9
	SNGLS. DP	FT.	SIZE	12¼
20	D.C. 4-6½ ID 16 4½ OD	596.02 FT.	MFG.	REED
	RMR BODY OD	3.20 FT.	TYPE	XT3
	STB BODY OD	1.35 FT.	NO. NO	3
	SUBS OD	FT.	SIZE	3/4
	BIT OR C.B.	FT.	SER. NO.	E84565
		FT.	DEPTH OUT	
	KELLY DOWN	39 FT.	CUMULATIVE HOURS RUN	13¾
	TOTAL	1810.14 FT.	COND. OF BIT	Dly
WT. OF STRING	48,000 LBS.		REAMER CUTTER NO.	
DRILLER	J. Hubbard		TYPE	

HRS. DRLD.	CORE NO.	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT. ON BIT 1000#	PUMP PRESS.	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN
7¼		1760	1810	50	165	5/2	950	6¾	64			

DEVIATION RECORD:	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION
	1750	3¼°							

REMARKS

800	815	RIG SERVICE ✓
815	1000	DRILL WITH 3-5000# ON BIT ✓
1000	1030	SURVEY ✓
1039	400	DRILL WITH 2000# ON BIT ✓

MUD RECORD

TIME	800	1200	200
WEIGHT	9.4	9.4	9.3
VISC	58	70	60
W.L.-C.C.		8.2	
FLTR. CK.		2/32	
PH		9.5	
SD. CONT.			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
CAUSTIC	50#		
GEL	1500#		
SUPER LIG	200#		
WATER			

EVENING TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD	
20	STANDS DP	1234.62 FT.	RUN NO	9
	SNGLS. DP	FT.	SIZE	12¼
20	D.C 4-6½ ID 16 4½ OD	596.02 FT.	MFG.	REED
	RMR BODY OD	3.20 FT.	TYPE	XT3
	STB BODY OD	1.35 FT.	NOZ. NO.	3
	SUBS OD	FT.	SIZE	3/4
	BIT OR C.B.	FT.	SER NO	E84565
		FT.	DEPTH OUT	
	KELLY DOWN	1500 FT.	CUMULATIVE HOURS RUN	19¾
	TOTAL	1850.19 FT.	COND. OF BIT	
WT OF STRING	46M LBS.		REAMER CUTTER NO.	
DRILLER			TYPE	

HRS. DRLD.	CORE NO.	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT. ON BIT 1000#	PUMP PRESS	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN
6		1810	1850	40	165	3-4M	950	6¾	54			

DEVIATION RECORD:	DEPTH	DEV.	DIRECTION	DEPTH	DEV	DIRECTION	DEPTH	DEV	DIRECTION
	1810	3		1835	2½				

REMARKS

400	430	SURVEY ✓
430	445	DRILL ✓
445	549	WORK ON PUMP ✓
549	1030	DRILL WITH 3-5000# ON BIT ✓
1030	1100	SURVEY ✓
1100	1200	DRILL 6-EM ON BIT ✓

MUD RECORD

TIME	800	600	1000
WEIGHT	93	93	93
VISC	65	63	60
W.L.-C.C.	8.6		
FLTR CK.	2/32		
PH	9.5		
SD. CONT			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
GEL	700		

C.P.—38 (10/63) **DAILY DRILLING REPORT** REPORT NO. 13 DATE MARCH 15/65

OPERATOR: SHELL CANADA LIMITED
LOCATION LSD. SEC. TWP. RGE. W.
WELL NAME: SHELL CLOUD LEAF No. 1-46
PROVINCE: N.W.T
CONTRACTOR: REGENT RIG No. 21
DRILL PIPE STRING NO. SIZE: 3½
TOOL JOINT 4½ OD TYPE THD. IF
OPERATOR'S REPRESENTATIVE: E. Hannah
CONTRACTOR'S TOOL PUSHER: A. Mostrick

PUMPS

NO.	MANUFACTURER	TYPE	STROKE LENGTH
1.	EMSCO	D 300	14
2.			
3.			

CASING & LINER RECORD

SIZE	WT. & GR.	DEPTH SET FROM	DEPTH SET TO	PERFORATIONS FROM	PERFORATIONS TO	CEMENT USED	OTHER
13⅜		0	716				

TIME DISTRIBUTION—HOURS

	MORN	DAY	EVE
DRILLING ACTUAL			
REAMING			
CIRCULATING			
TRIPS			
DEVIATION SURVEY			
TEST B.O.P			
CUT OFF DRILL LINE			
REPAIR RIG			
CORING			
WIRE LINE LOGGING			
OTHER			
FISHING			
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: 23 hrs
HRS WO/D.P:
HRS STANDBY

WIRE LINE RECORD
REEL NO
NO OF LINES SIZE
FEET SLIPPED
FEET CUT OFF
PRESENT LENGTH
TON MI. or TRIPS SINCE LAST CUT
CUMULATIVE TON MI. or TRIPS
NO. OF DAYS FROM SPUD
CUMULATIVE ROTATING HRS.

MORNING TOUR

DRILLING ASSEMBLY

NO.			
13	STANDS DP		FT.
	SNGLS. DP	92174	FT.
20	D.C. ID 16 4½ OD 4½	59602	FT.
	RMR BODY OD	320	FT.
	STB BODY OD	135	FT.
	SUBS OD		FT.
	BIT OR C.B.		FT.
			FT.
	KELLY DOWN	41 00	FT.
	TOTAL	1563 31	FT.
	WT. OF STRING	42 M	LBS.

BIT RECORD

RUN NO.	8 RR NO 7
SIZE	12¼"
MFG.	SEC
TYPE	S3
NOZ. NO.	3
NOZ. SIZE	7/4
SER. NO	748467
DEPTH OUT	
CUMULATIVE HOURS RUN	27
COND. OF BIT	RUN
REAMER CUTTER NO.	
TYPE	

DRILLER: G. McIntosh

HRS. DRLD.	CORE NO.	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT. ON BIT 1000#	PUMP PRESS.	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN
5¼		1492	1563	71	120	8-10	900	7¼	64			

DEVIATION RECORD:	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION
	1500	1¼°							

REMARKS

1200	1215	Rig Service
1215	1245	Ream to Bottom
1245	330	Drill working tight hole on corner ✓
330	400	Circ work pipe to run survey (to tight)
400	445	Drill
445	515	Circ work pipe run survey
515	530	Survey Miss Run
530	545	Circ
545	600	Survey
600	800	Drill

MUD RECORD

	200	400	600
TIME			
WEIGHT	91	90	90
VISC	55	55	60
W.L.-C.C.	8.6		
FLTR. CK.	2/32		
PH	9.5	9.5	9.5
SD. CONT.			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

DAY TOUR

DRILLING ASSEMBLY

NO.			
17	STANDS DP	104559	FT.
	SNGLS. DP		FT.
20	D.C. ID OD	59602	FT.
	RMR BODY BIT OD	320	FT.
	STB BODY OD	135	FT.
	SUBS OD		FT.
	BIT OR C.B.		FT.
			FT.
	KELLY DOWN	2400	FT.
	TOTAL	167016	FT.
	WT. OF STRING	42 M	LBS.

BIT RECORD

RUN NO.	8 RR NO 7
SIZE	12¼
MFG.	SEC
TYPE	S3
NOZ. NO	3
NOZ. SIZE	3/4
SER. NO	RR 748467
DEPTH OUT	
CUMULATIVE HOURS RUN	10¼
COND. OF BIT	
REAMER CUTTER NO.	
TYPE	

DRILLER: J. Hubbard

HRS. DRLD.	CORE NO.	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT. ON BIT 1000#	PUMP PRESS.	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN
3		1563	1670	107	140	8-10	900	7¼				

DEVIATION RECORD:	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION
	1630	2⅛°							

REMARKS

800	815	Rig Service
815	100	Drill working pipe on corner ✓ 4¾
100	130	Circ & work pipe to run survey
130	200	Survey 30' off Btm
200	300	Repair rotary chain ✓
300	400	Drill

MUD RECORD

	800	1800	200
TIME			
WEIGHT	9.1	92	93
VISC	60	65	70
W.L.-C.C.	8.4		
FLTR. CK.	2/32		
PH	95	95	95
SD. CONT.			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
GEL	1560		
LEQUITE	400		

EVENING TOUR

DRILLING ASSEMBLY

NO.			
17	STANDS DP	104559	FT.
	SNGLS. DP		FT.
20	D.C. ID 16 4-6½ OD	59602	FT.
	RMR BODY BIT OD	320	FT.
	STB BODY 6½ OD	135	FT.
	SUBS OD		FT.
	BIT OR C.B.		FT.
			FT.
	KELLY DOWN	4100	FT.
	TOTAL	168716	FT.
	WT OF STRING	42 M	LBS.

BIT RECORD

RUN NO	8 RR NO 7
SIZE	12¼
MFG.	SEC
TYPE	S3
NOZ. NO.	2
NOZ. SIZE	3/4
SER	RR 748467
DEPTH OUT	1687
CUMULATIVE HOURS RUN	13¼
COND. OF BIT	121
REAMER CUTTER NO.	
TYPE	

DRILLER

HRS. DRLD.	CORE NO.	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT. ON BIT 1000#	PUMP PRESS	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN
2		1630	1687	11	150	5M	1000	7¼	53			

DEVIATION RECORD:	DEPTH	DEV.	DIRECTION	DEPTH	DEV	DIRECTION	DEPTH	DEV	DIRECTION
	1620	2"°							

REMARKS

400	600	Drill w/ 5000 on bit
600	615	Circ to pull out ✓
615	845	Pull out 1st 10 stands tight
845	845	Change Bit Run in D.C.
845	1115	Change heads and liners from 7¼ to 6¾
1115	1145	Run in
1145	1200	Cleaning to Bottom

MUD RECORD

	400	600	
TIME			
WEIGHT	92	91	
VISC	75	80	
W.L.-C.C.	9.2		
FLTR CK.	2/32		
PH	95		
SD. CONT			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

C.P.—38 (10/63)

DAILY DRILLING REPORT

REPORT NO. 12 DATE MARCH 14/65

OPERATOR	LOCATION LSD. SEC. TWP. RGE. W.	WELL NAME	No.	PROVINCE
SHELL CANADA LIMITED		SHELL CLOVER LEAF	1-46	NWT

CONTRACTOR	RIG No.	DRILL PIPE STRING NO. SIZE	TOOL JOINT 4 1/2 OD	TYPE THD. IF
REFORT	21	2 3 1/2		

OPERATOR'S REPRESENTATIVE: E. Lettinga

CONTRACTOR'S TOOL PUSHER: A. Johnson

PUMPS

NO.	MANUFACTURER	TYPE	STROKE LENGTH
1.	EMSCO	D 300	14
2.			
3.			

CASING & LINER RECORD	SIZE	WT. & GR.	DEPTH SET FROM	DEPTH SET TO	PERFORATIONS FROM	PERFORATIONS TO	CEMENT USED	OTHER
	13 3/8		0	716				

TIME DISTRIBUTION—HOURS

	MORN	DAY	EVE
DRILLING ACTUAL		5	
REAMING			
CIRCULATING		1 1/4	
TRIPS		1 3/4	
DEVIATION SURVEY			
TEST B.O.P			
CUT OFF DRILL LINE			
REPAIR RIG			
CORING			
WIRE LINE LOGGING			
OTHER		2	
FISHING			
COMPLETING (A) PERFORATING			
(B) RUNNING TUBING			
(C) SWABBING			
(D) TESTING			
(E) ACIDIZING			
(F) ADDITIONAL			
TOTALS		8	

TIME SUMMARY (OFFICE USE ONLY)

CONTRACTOR'S TIME HRS:

OPERATOR'S TIME:

HRS. W/D.P: 24

HRS WO/D.P:

HRS STANDBY

WIRE LINE RECORD

REEL NO

NO OF LINES SIZE

FEET SLIPPED

FEET CUT OFF

PRESENT LENGTH

TON MI. or TRIPS SINCE LAST CUT

CUMULATIVE TON MI. or TRIPS

NO. OF DAYS FROM SPUD

CUMULATIVE ROTATING HRS.

MORNING TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD	
11	STANDS DP	FT.	RUN NO.	12
1	SNGLS. DP	890.83 FT.	SIZE	12 1/4
	D.C. ID		MFG.	SEC
16	10 x 4 1/2 OD	474.92 FT.	TYPE	S3
	RMR BODY OD	2.58 FT.	NOZ. NO.	9
	STB BODY OD	4.58 FT.	SIZE	3/4
	SUBS OD	1.35 FT.	SER. NO	748467
	BIT OR C.B.	FT.	DEPTH OUT	
		FT.	CUMULATIVE HOURS RUN	18 3/4
	KELLY DOWN	41.00 FT.	COND. OF BIT	Rpd
	TOTAL	416.28 FT.	REAMER CUTTER NO.	
	WT. OF STRING	50M LBS.	TYPE	

DRILLER: L. McIntosh

MRS. DRLD.	CORE NO.	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT. ON BIT 1000#	PUMP PRESS.	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN
6 3/4		1323	1416	93	80-110	8-10	650	7"	64			

DEVIATION RECORD:

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION
	-							

REMARKS

1200	1215	RIG SERVICE
1215	1245	REPAIR CAMERON VALVE ON STAND PIPE
1245	730	DRILL 12 1/4 HOLE (WORKING PIPE EVERY 15 FEET)
730	745	CIRC TO MAKE DUMMY TRIP TO CHECK HOLE
745	800	PULL UP 90 FT FROM BOTTOM (HOLE TIGHT)

MUD RECORD

TIME	1200	400	800
WEIGHT	86	86	87
VISC	28	28	28
W.L.-C.C.			
FLTR. CK.			
PH	9.5	10	10
SD. CONT.			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
SUPERLIG	100		
WATER			

DAY TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD	
16	STANDS DP	993.68 FT.	RUN NO.	1
	SNGLS. DP	FT.	SIZE	12 1/4
	D.C. ID		MFG.	SEC
16	OD	474.92 FT.	TYPE	S3
	RMR BODY OD	2.58 FT.	NOZ. NO	3
	STB BODY OD	4.58 FT.	SIZE	3/4
	SUBS OD	1.35 FT.	SER. NO.	748467
	BIT OR C.B.	FT.	DEPTH OUT	1492
		FT.	CUMULATIVE HOURS RUN	21 3/4
	KELLY DOWN	25 FT.	COND. OF BIT	
	TOTAL	1492.11 FT.	REAMER CUTTER NO.	
	WT. OF STRING	150,000 LBS.	TYPE	

DRILLER: J. Hibbard

MRS. DRLD.	CORE NO.	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT. ON BIT 1000#	PUMP PRESS.	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN
3		1416	1492 DH 1566		120	18	900	7 1/4	61			

DEVIATION RECORD:

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION
	-							

REMARKS

800	815	RIG SERVICE
815	1615	DRILL WORKING PIPE EVERY 15'
1615	1632	COND & WORK PIPE
1632	1715	DRILL WORKING PIPE EVERY 15'
1715	1730	COND & WORK PIPE
1730	1745	DRILL
1745	1800	CIRC TO PULL OUT
1800	400	PULL OUT (TITE)

MUD RECORD

TIME	800	1000	1700
WEIGHT	9.0	9.0	9.0
VISC	28	30	33
W.L.-C.C.			
FLTR. CK.			
PH			
SD. CONT.			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
Gel		8000	
Super Lig		350 lb	

EVENING TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD	
	STANDS DP	FT.	RUN NO	RR
	SNGLS. DP	FT.	SIZE	12 1/4
	D.C. ID		MFG.	SEC
	OD	FT.	TYPE	S3
	RMR BODY OD	FT.	NOZ. NO.	3/3
	STB BODY OD	FT.	SIZE	
	SUBS OD	FT.	SER NO	748467
	BIT OR C.B.	FT	DEPTH OUT	1492 IN
		FT.	CUMULATIVE HOURS RUN	
	KELLY DOWN	FT.	COND. OF BIT	Good
	TOTAL	FT.	REAMER CUTTER NO.	
	WT OF STRING	LBS.	TYPE	

DRILLER

MRS. DRLD.	CORE NO.	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT. ON BIT 1000#	PUMP PRESS	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN

DEVIATION RECORD:

DEPTH	DEV.	DIRECTION	DEPTH	DEV	DIRECTION	DEPTH	DEV	DIRECTION

REMARKS

400	930	PULL OUT (TITE)
930	1015	BREAK STAND BACK 9 IN DC
1015	1130	RUN IN DC MEASURE PICK UP 6 4 9/16 DC
1130	1200	RUN IN

MUD RECORD

TIME			
WEIGHT			
VISC			
W.L.-C.C.			
FLTR. CK.			
PH			
SP. CONT			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

C.P.—3B (10/63) **DAILY DRILLING REPORT** REPORT NO. 11 DATE MARCH 13 / 65

OPERATOR	LOCATION LSD. SEC. TWP. RGE. W.	WELL NAME	No.	PROVINCE
SHELL CANADA LIMITED		SHELL CLOVER LEAF	1-46	N.W.T.

CONTRACTOR	RIG No.	DRILL PIPE STRING NO. SIZE	TOOL JOINT OD	TYPE THD.
REGENT	24	2 3½	4 ½	IF

OPERATOR'S REPRESENTATIVE: C.B. Tingley — CONTRACTOR'S TOOL PUSHER: R. Thaxter

PUMPS

NO.	MANUFACTURER	TYPE	STROKE LENGTH
1.	EMSCO	D300	14
2.			
3.			

CASING & LINER RECORD	SIZE	WT. & GR.	DEPTH SET FROM	DEPTH SET TO	PERFORATIONS FROM	PERFORATIONS TO	CEMENT USED	OTHER
	13⅜		0	716				

TIME DISTRIBUTION—HOURS

	MORN	DAY	EVE
DRILLING ACTUAL			
REAMING			
CIRCULATING			
TRIPS			
DEVIATION SURVEY			
TEST B.O.P			
CUT OFF DRILL LINE			
REPAIR RIG			
CORING			
WIRE LINE LOGGING			
OTHER			
FISHING			
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: 24
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. or TRIPS SINCE LAST CUT
CUMULATIVE TON MI. or TRIPS
NO. OF DAYS FROM SPUD
CUMULATIVE ROTATING HRS. 58

MORNING TOUR

NO. 12

DRILLING ASSEMBLY		BIT RECORD	
STANDS DP	64009 FT.	RUN NO.	5
SNGLS. DP	FT.	SIZE	12¼
D.C. ID 10 4½ OD 6	474.92 FT.	MFG.	SEC
RMR BODY OD	2.58 FT.	TYPE	S3
STB BODY OD	4.58 FT.	NOZ. NO.	3
SUBS OD	1.37 FT.	SIZE	3/4
BIT OR C.B.	FT.	SER. NO	748467
	4400 FT.	DEPTH OUT	3
KELLY DOWN	FT.	CUMULATIVE HOURS RUN	RUN
TOTAL	1170.54 FT.	COND. OF BIT	
WT. OF STRING	3209 LBS.	REAMER CUTTER NO.	
		TYPE	

DRILLER: L. McIntosh

HRS. DRLD.	CORE NO.	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT. ON BIT 1000#	PUMP PRESS.	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN
3		1129	1170	41	110	10-15	650	7¼	64			

DEVIATION RECORD:

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

REMARKS

1200 1215 Rig Service
1215 1248 Replace Bushings on Kelly Hook up Kelly Hose
1248 2330 Run in Drill Clean To Bottom
530 800 Condition Mud

MUD RECORD		
TIME	400	700
WEIGHT	9.2	92
VISC	35	38
W.L.-C.C.		
FLTR. CK.		
PH	11	
SD. CONT.		

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
Caustic	150		
Super Lig	500		
CMC			

DAY TOUR

NO. 12

DRILLING ASSEMBLY		BIT RECORD	
STANDS DP	FT.	RUN NO.	5
SNGLS. DP	768.96 FT.	SIZE	12¼
D.C. ID 9-6¼ OD 6	474.92 FT.	MFG.	SEC
RMR BODY OD	2.58 FT.	TYPE	S-3
STB BODY OD	4.58 FT.	NOZ. NO	3
SUBS OD	1.37 FT.	SIZE	3/4
BIT OR C.B.	FT.	SER. NO.	748467
	FT.	DEPTH OUT	
KELLY DOWN	20 — FT.	CUMULATIVE HOURS RUN	39
TOTAL	FT.	COND. OF BIT	1/1/1
WT. OF STRING	1272.3 LBS.	REAMER CUTTER NO.	
		TYPE	

DRILLER: J. Hibbard

HRS. DRLD.	CORE NO.	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT. ON BIT 1000#	PUMP PRESS.	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN
6		1170	1272		120	20	900	7¼	64			

DEVIATION RECORD:

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

REMARKS

Drill working pipe every 10' — 8 pts — 2 pts
Pull out to casing (tight) 2 pts — 4 pts

MUD RECORD			
TIME	8 pm	12 pm	2 am
WEIGHT	9.0	9.0	9.3
VISC	45	50	67
W.L.-C.C.		10.0	
FLTR. CK.		2/32	
PH		12.0	
SD. CONT.			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
CMC —	3000 #		
Super Lig —	150 #		

EVENING TOUR

NO. 13

DRILLING ASSEMBLY		BIT RECORD	
STANDS DP	79893 FT.	RUN NO	5
SNGLS. DP	FT.	SIZE	12¼
D.C. ID 10 4½ OD 6	474.92 FT.	MFG.	SEC
RMR BODY OD	2.58 FT.	TYPE	S3
STB BODY OD	4.58 FT.	NOZ. NO.	3
SUBS OD	1.37 FT.	SIZE	3/4
BIT OR C.B.	FT	SER NO	748467
	FT.	DEPTH OUT	Running
KELLY DOWN	41.00 FT.	CUMULATIVE HOURS RUN	12
TOTAL	1323.38 FT.	COND. OF BIT	Run
WT OF STRING	34M LBS.	REAMER CUTTER NO.	
		TYPE	

DRILLER: L. McIntosh

HRS. DRLD.	CORE NO.	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT. ON BIT 1000#	PUMP PRESS	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN
3		1272	1323	51	120	8-10	650	7¼	64			

DEVIATION RECORD:

DEPTH	DEV.	DIRECTION	DEPTH	DEV	DIRECTION	DEPTH	DEV	DIRECTION

REMARKS

4 pm — 5 pm Clean Tanks & Fill with Water Rig Serv
5 — 630 Condition Mud
630 — 730 Run in Displace Hole
730 — 900 Ream To Bottom
900 — 1200 Drill

Cleaned all mud tanks
Displaced with water.

MUD RECORD			
TIME	8 pm	10 pm	
WEIGHT	84	85	
VISC	28	28	
W.L.-C.C.			
FLTR CK.			
PH	11	9.5	
SD. CONT			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
Super Lig —	1000		
Caustic —	275		

C.P.—38 (10/63) **DAILY DRILLING REPORT** REPORT NO. 10 DATE MARCH 12

OPERATOR	LOCATION LSD. SEC. TWP. RGE. W.	WELL NAME	No.	PROVINCE
SHELL CANADA LIMITED		SHELL CLOVER LEAF	1-40	N.W.T.

CONTRACTOR	RIG No.	DRILL PIPE STRING NO. SIZE	TOOL JOINT OD / TYPE THD.
REGENT	24		

OPERATOR'S REPRESENTATIVE: L. Ettinger

CONTRACTOR'S TOOL PUSHER: R. Tchaffi

PUMPS

NO.	MANUFACTURER	TYPE	STROKE LENGTH
1.	EMSCO	D300	14
2.			
3.			

CASING & LINER RECORD

SIZE	WT. & GR.	DEPTH SET FROM	DEPTH SET TO	PERFORATIONS FROM	PERFORATIONS TO	CEMENT USED	OTHER

TIME DISTRIBUTION—HOURS

	MORN	DAY	EVE
DRILLING ACTUAL			
REAMING			
CIRCULATING			
TRIPS			
DEVIATION SURVEY			
TEST B.O.P			
CUT OFF DRILL LINE			
REPAIR RIG	4		
CORING			
WIRE LINE LOGGING			
OTHER Stuck pipe	12½		
FISHING			
COMPLETING (A) PERFORATING			
(B) RUNNING TUBING			
(C) SWABBING			
(D) TESTING			
(E) ACIDIZING			
(F) ADDITIONAL			
TOTALS	8		

TIME SUMMARY (OFFICE USE ONLY)

CONTRACTOR'S TIME HRS:

OPERATOR'S TIME:

HRS. W/D.P: 24 Hrs.

HRS WO/D.P:

HRS STANDBY

WIRE LINE RECORD

REEL NO

NO OF LINES SIZE

FEET SLIPPED

FEET CUT OFF

PRESENT LENGTH

TON MI. or TRIPS SINCE LAST CUT

CUMULATIVE TON MI. or TRIPS

NO. OF DAYS FROM SPUD

CUMULATIVE ROTATING HRS

MORNING TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD	
	STANDS DP	FT.	RUN NO.	
	SNGLS. DP	FT.	SIZE	
	D.C. ID / OD	FT.	MFG. / TYPE	
	RMR BODY OD	FT.	NOZ. NO. / SIZE	
	STB BODY OD	FT.		
	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: L McIntosh

HRS. DRLD.	CORE NO.	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT. ON BIT 1000#	PUMP PRESS.	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN
							500	7¼	63			

DEVIATION RECORD:	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

REMARKS

1200	1215	Rig Service
1215	1230	Try to free Stuck pipe
1230	215	Rig up Jar's on Kelly
215	230	Jar loose
230		Try to pull out work pipe

MUD RECORD

TIME				
WEIGHT				
VISC				
W.L.-C.C.				
FLTR. CK.				
PH				
SD. CONT.				

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

DAY TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD	
	STANDS DP	FT.	RUN NO.	
	SNGLS. DP	FT.	SIZE	
	D.C. ID / OD	FT.	MFG. / TYPE	
	RMR BODY OD	FT.	NOZ. NO / SIZE	
	STB BODY OD	FT.		
	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)	ROTARY R.P.M.	WT. ON BIT 1000#	PUMP PRESS.	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN

DEVIATION RECORD:	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

REMARKS

8⁰⁰ 8¹⁵ Rig Service
8¹⁵ 12⁰⁰ Work Stuck pipe

MUD RECORD

TIME				
WEIGHT				
VISC				
W.L.-C.C.				
FLTR. CK.				
PH				
SD. CONT.				

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

EVENING TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD	
	STANDS DP	FT.	RUN NO	
	SNGLS. DP	FT.	SIZE	
	D.C ID / OD	FT.	MFG. / TYPE	
	RMR BODY OD	FT.	NOZ. NO. / SIZE	
	STB BODY OD	FT.		
	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: L McIntosh

HRS. DRLD.	CORE NO.	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT. ON BIT 1000#	PUMP PRESS	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN

DEVIATION RECORD:	DEPTH	DEV.	DIRECTION	DEPTH	DEV	DIRECTION	DEPTH	DEV	DIRECTION

REMARKS

8⁰⁰	4¹⁵	Rig Service
4¹⁵	9³⁰	Free pipe at 889 and pull up to 779 work tight hole 779
9³⁰	9⁰⁰	Pull out
~~9⁰⁰~~	~~11⁰⁰~~	~~Rig Service~~
9⁰⁰	11⁰⁰	Service BC. change Bits
11⁰⁰	11³⁰	Measure Caliper 4 9/10 DC
11³⁰	12⁰⁰	Pick up 10 4½ DC.

MUD RECORD

TIME				
WEIGHT				
VISC				
W.L.-C.C.				
FLTR CK.				
PH				
SD. CONT				

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

C.P.—38 (10/63) **DAILY DRILLING REPORT** REPORT NO. DATE MARCH 11 1965

OPERATOR	LOCATION LSD.	SEC.	TWP.	RGE.	W.	WELL NAME	No.	PROVINCE
SHELL CANADA LIMITED						SHELL CHURCHILL	[redacted] I-46	NWT

CONTRACTOR	RIG No.	DRILL PIPE STRING NO.	SIZE	TOOL JOINT	OD	TYPE THD.
REGENT	21	2	3½	5"		11"

OPERATOR'S REPRESENTATIVE: E L Hungle — CONTRACTOR'S TOOL PUSHER: J Tomayaki

PUMPS

NO.	MANUFACTURER	TYPE	STROKE LENGTH
1.	EMSCO	D300	14
2.			
3.			

CASING & LINER RECORD

SIZE	WT. & GR.	DEPTH SET FROM	DEPTH SET TO	PERFORATIONS FROM	PERFORATIONS TO	CEMENT USED	OTHER
13⅜		6	716				

TIME DISTRIBUTION—HOURS

	MORN	DAY	EVE
DRILLING ACTUAL			
REAMING			
CIRCULATING			
TRIPS			
DEVIATION SURVEY			
TEST B.O.P			
CUT OFF DRILL LINE			
REPAIR RIG			
CORING			
WIRE LINE LOGGING			
OTHER			
FISHING			
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: 24 hrs.

HRS WO/D.P:

HRS STANDBY

WIRE LINE RECORD

REEL NO

NO OF LINES SIZE

FEET SLIPPED

FEET CUT OFF

PRESENT LENGTH

TON MI. or TRIPS SINCE LAST CUT

CUMULATIVE TON MI. or TRIPS

NO. OF DAYS FROM SPUD

CUMULATIVE ROTATING HRS.

MORNING TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD	
	STANDS DP	FT.	RUN NO.	8 RRN4
	SNGLS. DP	FT.	SIZE	12¼
	ID		MFG.	SEC
6	D.C. 2-9 OD 11½	1715.2 FT.	TYPE	S3
	RMR BODY OD	25.8 FT.	NOZ. NO.	3
	STB BODY OD	45.8 FT.	NOZ. SIZE	3/4
	SUBS OD	35 FT.	SER. NO.	RR 147902
	BIT OR C.B.	FT.	DEPTH OUT	
		FT.	CUMULATIVE HOURS RUN	8¼ + ¼
	KELLY DOWN	28.00 FT.	COND. OF BIT	RUN
	TOTAL	978.04 FT.	REAMER CUTTER NO.	
WT. OF STRING	28M LBS.		TYPE	

DRILLER: L McIntosh

HRS. DRLD.	CORE NO.	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT. ON BIT 1000#	PUMP PRESS.	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN
6¾		807	978	171	120	18M	500	7¼	103			

DEVIATION RECORD: DEPTH / DEV. / DIRECTION

1200	1215	RIG SERVICE
1215	415	DRILL 12 HOLE TIGHT
4PM	515	MIX MUD WORK TIGHT HOLE
515	EOD	DRILL 12¼ HOLE

REMARKS

MUD RECORD

TIME			
WEIGHT	83	85	87
VISC	28	38	47
W.L.-C.C.			
FLTR. CK.			
PH			
SD. CONT.			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
Bycarb	200		
Gel	5400		
Caustic	200		

DAY TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD	
15	STANDS DP	923.68 FT.	RUN NO.	8 RRN4
	SNGLS. DP	FT.	SIZE	1 12¼
	ID		MFG.	SEC
6	D.C. OD	1715.2 FT.	TYPE	S3
	RMR BODY OD	25.8 FT.	NOZ. NO	3
	STB BODY OD	45.8 FT.	NOZ. SIZE	3/4
	SUBS OD	FT.	SER. NO.	RR 147902
	BIT OR C.B.	FT.	DEPTH OUT	1129
		135 FT.	CUMULATIVE HOURS RUN	13¾
	KELLY DOWN	26.00 FT.	COND. OF BIT	
	TOTAL	1129.71 FT.	REAMER CUTTER NO.	
WT. OF STRING	25 LBS.		TYPE	

DRILLER

HRS. DRLD.	CORE NO.	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT. ON BIT 1000#	PUMP PRESS.	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN
6¾		978	1129	151	120	12-18	500	7¼	63			

DEVIATION RECORD: DEPTH / DEV. / DIRECTION

800	815	RIG SERVICE
815	845	DRILL 12¼ HOLE
845	900	CIRC WORK TIGHT HOLE
900	915	SURVEY
915	345	DRILLING
345	400	CIRC CLEAN HOLE

REMARKS

MUD RECORD

TIME			
WEIGHT			
VISC			
W.L.-C.C.			
FLTR. CK.			
PH			
SD. CONT.			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

EVENING TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD	
	STANDS DP	FT.	RUN NO	
	SNGLS. DP	FT.	SIZE	
	ID		MFG.	
	D.C. OD	FT.	TYPE	
	RMR BODY OD	FT.	NOZ. NO.	
	STB BODY OD	FT.	NOZ. SIZE	
	SUBS OD	FT.	SER NO	
	BIT OR C.B.	FT	DEPTH OUT	1129
		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)	ROTARY R.P.M.	WT. ON BIT 1000#	PUMP PRESS	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN

DEVIATION RECORD: DEPTH / DEV / DIRECTION

400	715	TRIP OUT CIRC TIGHT SPOTS
715	815	PICK KELLY UP MAKE UP JOFFIN DERRICK CIRC TRY TO GET LOOSE
815	1015	RIG UP SAR WITH 9⅝ CASING
1015	1115	SAR LOOSE
1115	1200	TRY TO PULL OUT WORK TIGHT HOLE 1 PT = STUCK AT 1200

REMARKS

MUD RECORD

TIME			
WEIGHT			
VISC			
W.L.-C.C.			
FLTR CK.			
PH			
SD. CONT			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

C.P.—38 (10/63) **DAILY DRILLING REPORT** REPORT NO. 8 DATE MARCH 10/65

OPERATOR	LOCATION LSD.	SEC.	TWP.	RGE.	W.	WELL NAME	No.	PROVINCE
SHELL CANADA LIMITED						SHELL CLOVERLEAF	~~F-16~~ I-46	ALTA

CONTRACTOR	RIG No.	DRILL PIPE STRING NO. SIZE	TOOL JOINT OD / TYPE THD.
REGENT	21		

OPERATOR'S REPRESENTATIVE	CONTRACTOR'S TOOL PUSHER
Edwin D. Klinger	J. Tomaszeski

PUMPS

NO.	MANUFACTURER	TYPE	STROKE LENGTH
1.			
2.			
3.			

CASING & LINER RECORD

SIZE	WT. & GR.	DEPTH SET FROM	DEPTH SET TO	PERFORATIONS FROM	PERFORATIONS TO	CEMENT USED	OTHER

TIME DISTRIBUTION—HOURS

	MORN	DAY	EVE
DRILLING ACTUAL			
REAMING			
CIRCULATING			
TRIPS			
DEVIATION SURVEY			
TEST B.O.P			
CUT OFF DRILL LINE			
REPAIR RIG			
CORING			
WIRE LINE LOGGING			
OTHER			
FISHING			
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:	23¼
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. or TRIPS SINCE LAST CUT	
CUMULATIVE TON MI. or TRIPS	
NO. OF DAYS FROM SPUD	
CUMULATIVE ROTATING HRS.	

MORNING TOUR

NO.	DRILLING ASSEMBLY	FT.	BIT RECORD	
	STANDS DP	FT.	RUN NO.	
	SNGLS. DP	FT.	SIZE	
	D.C. ID / OD	FT.	MFG.	
	RMR BODY OD	FT.	TYPE	
	STB BODY OD	FT.	NOZ. NO. / 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: L. McIntosh

HRS. DRLD.	CORE NO.	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT. ON BIT 1000#	PUMP PRESS.	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN

DEVIATION RECORD: DEPTH / DEV. / DIRECTION | DEPTH / DEV. / DIRECTION | DEPTH / DEV. / DIRECTION

REMARKS

1200	1215	RIG SERVICE
1215	115	HEAD UP
115	515	CHANGE RAMS IN BOPS
515	545	REPAIR MUD GUAGE ON PUMP
545	615	PRESSURE TEST BLIND RAMS TO 1200 FOR 15 MINS OK
615	EOD	WAIT ON RIG WORK ON LEASE
		Spread Laundry & polythene & planks prepare to jack rig level.

MUD RECORD

TIME	
WEIGHT	
VISC	
W.L.-C.C.	
FLTR. CK.	
PH	
SD. CONT.	

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

DAY TOUR

NO.	DRILLING ASSEMBLY	FT.	BIT RECORD	
	STANDS DP	FT.	RUN NO.	
	SNGLS. DP	FT.	SIZE	
	D.C. ID / OD	FT.	MFG.	
	RMR BODY OD	FT.	TYPE	
	STB BODY OD	FT.	NOZ. NO. / 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)	ROTARY R.P.M.	WT. ON BIT 1000#	PUMP PRESS.	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN

DEVIATION RECORD: DEPTH / DEV. / DIRECTION | DEPTH / DEV. / DIRECTION | DEPTH / DEV. / DIRECTION

REMARKS

800	815	RIG SERVICE
815	915	~~WAIT ON BIT~~ JACK RIG
915	1000	RUN IN - Pressure Test Pipe Rams Hydrill ✓
1000	1200	JACKING RIG Casing Te 1200 PSI OK ✓
1200	400	DRILLING OUT W/8¾ BIT AND DRILL 30FT.

MUD RECORD

TIME	
WEIGHT	
VISC	
W.L.-C.C.	
FLTR. CK.	
PH	
SD. CONT.	

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

EVENING TOUR

NO.	DRILLING ASSEMBLY	FT.	BIT RECORD	
9	STANDS DP	FT.	RUN NO	8 & 3 RRNo4
1	SNGLS. DP	586.16 FT.	SIZE	12¼
	D.C. 2¼ ID / 4½ OD	FT.	MFG.	SEC
6		171.56 FT.	TYPE	S3
	RMR BODY OD	FT.	NOZ. NO.	3
	STB BODY OD	2.58 FT.	SIZE	3/4
	SUBS OD	4.58 FT.	SER NO	747902
	BIT OR C.B.	FT	DEPTH OUT	
1	X O	1.37 FT.	CUMULATIVE HOURS RUN	434
	KELLY DOWN	41.00 FT.	COND. OF BIT	RUN
	TOTAL	50.125 FT.	REAMER CUTTER NO.	
	WT OF STRING	28M LBS.	TYPE	

DRILLER: L. McIntosh

HRS. DRLD.	CORE NO.	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT. ON BIT 1000#	PUMP PRESS	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN
4¼		716	807	91	120	189	256	7¼	60			

DEVIATION RECORD: DEPTH / DEV. / DIRECTION | DEPTH / DEV / DIRECTION | DEPTH / DEV / DIRECTION

REMARKS

400	415	RIG SERVICE
415	500	HOLE OUT 8¾ BIT ✓
500	545	RUNNIN 12¼ BIT ✓
545	900	REAM 8¾ TO 12¼ ✓
900	1030	DRILL 12¼ HOLE ✓
1030	1045	PULL UP INTO CASING (HOLE TIGHT) ✓
1045	1100	WORK ON PUMP
1100	1145	CLEAN TANKS
1145	1200	RUN BACK TO BOTTOM

MUD RECORD

TIME	
WEIGHT	
VISC	
W.L.-C.C.	
FLTR CK.	
PH	
SD. CONT	

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

C.P.—38 (10/63) **DAILY DRILLING REPORT** REPORT NO. 4 DATE MARCH 9/65

OPERATOR: SHELL CANADA LIMITED | LOCATION LSD. SEC. TWP. RGE. W. | WELL NAME: SHELL CADOR LEAF No. [redacted] | PROVINCE: ALTA

CONTRACTOR: REGENT | RIG No.: 21 | DRILL PIPE STRING NO. SIZE | TOOL JOINT OD | TYPE THD.

OPERATOR'S REPRESENTATIVE: E E Mangus | CONTRACTOR'S TOOL PUSHER: J Tomaszeski

PUMPS

NO.	MANUFACTURER	TYPE	STROKE LENGTH
1.	EMSCO	D300	14
2.			
3.			

CASING & LINER RECORD

	SIZE	WT. & GR.	DEPTH SET FROM	DEPTH SET TO	PERFORATIONS FROM	PERFORATIONS TO	CEMENT USED	OTHER
	13⅜		0	716				

TIME DISTRIBUTION—HOURS

	HOURS	DAY	EVE
DRILLING ACTUAL			
REAMING			
CIRCULATING			
TRIPS			
DEVIATION SURVEY			
TEST B.O.P			
CUT OFF DRILL LINE			
REPAIR RIG			
CORING			
WIRE LINE LOGGING			
OTHER		6	
FISHING			
COMPLETING (A) PERFORATING			
(B) RUNNING TUBING			
(C) SWABBING			
(D) TESTING			
(E) ACIDIZING			
(F) ADDITIONAL			
TOTALS		6	

TIME SUMMARY (OFFICE USE ONLY)

CONTRACTOR'S TIME HRS:

OPERATOR'S TIME:

HRS. W/D.P: 1 2 1/2

HRS WO/D.P:

HRS STANDBY

WIRE LINE RECORD

REEL NO

NO OF LINES SIZE

FEET SLIPPED

FEET CUT OFF

PRESENT LENGTH

TON MI. ∞ TRIPS SINCE LAST CUT

CUMULATIVE TON MI. ∞ TRIPS

NO. OF DAYS FROM SPUD

CUMULATIVE ROTATING HRS.

MORNING TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD	
	STANDS DP	FT.	RUN NO.	
	SNGLS. DP	FT.	SIZE	
	D.C. ID / OD	FT.	MFG.	
	RMR BODY OD	FT.	TYPE	
	STB BODY OD	FT.	NOZ. NO. / 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: L McIntosh

HRS. DRLD.	CORE NO.	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT. ON BIT 1000#	PUMP PRESS.	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN

DEVIATION RECORD: | DEPTH | DEV. | DIRECTION | DEPTH | DEV. | DIRECTION | DEPTH | DEV. | DIRECTION

REMARKS

1200	1215	RIG SERVICE
1215	115	CUT OFF CONDUCTOR PIPE CLEAN CELLER
115	200	RAN 10 SAX CEMENT AROUND CASING
200	630	CUTOFF CASING WELD ON BOWEL
630	800	HEAD UP BOPS

MUD RECORD

TIME				
WEIGHT				
VISC				
W.L.-C.C.				
FLTR. CK.				
PH				
SD. CONT.				

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

DAY TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD	
	STANDS DP	FT.	RUN NO.	
	SNGLS. DP	FT.	SIZE	
	D.C. ID / OD	FT.	MFG.	
	RMR BODY OD	FT.	TYPE	
	STB BODY OD	FT.	NOZ. NO / 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: L Morrow

HRS. DRLD.	CORE NO.	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT. ON BIT 1000#	PUMP PRESS.	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN

DEVIATION RECORD: | DEPTH | DEV. | DIRECTION | DEPTH | DEV. | DIRECTION | DEPTH | DEV. | DIRECTION

REMARKS

600	615	RIG SERV
615	400	HEAD UP B.O.P

MUD RECORD

TIME				
WEIGHT				
VISC				
W.L.-C.C.				
FLTR. CK.				
ou				
SD. CONT.				

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

EVENING TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD	
	STANDS DP	FT.	RUN NO	
	SNGLS. DP	FT.	SIZE	
	D.C ID / OD	FT.	MFG.	
	RMR BODY OD	FT.	TYPE	
	STB BODY OD	FT.	NOZ. NO. / 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)	ROTARY R.P.M.	WT. ON BIT 1000#	PUMP PRESS	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN

DEVIATION RECORD: | DEPTH | DEV. | DIRECTION | DEPTH | DEV | DIRECTION | DEPTH | DEV | DIRECTION

REMARKS

400	413	RIG SERV
413		HEAD UP B.O.P

MUD RECORD

TIME				
WEIGHT				
VISC				
W.L.-C.C.				
FLTR. CK.				
PH				
SD. CONT				

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

C.P.—38 (10/63) **DAILY DRILLING REPORT** REPORT NO. 16. DATE March 8./65

OPERATOR: SHELL CANADA LIMITED	LOCATION LSD. SEC. TWP. RGE. W.	WELL NAME: SHELL CLOVER LEAF	No. 1-46	PROVINCE: NWT
CONTRACTOR: REGENT	RIG No. 21	DRILL PIPE STRING NO. SIZE	TOOL JOINT OD / TYPE THD.				
OPERATOR'S REPRESENTATIVE: L Lattimer	CONTRACTOR'S TOOL PUSHER: J Tomaszeski						

PUMPS

NO.	MANUFACTURER	TYPE	STROKE LENGTH
1.	EMSCO	D300	14
2.			
3.			

CASING & LINER RECORD

SIZE	WT. & GR.	DEPTH SET FROM	DEPTH SET TO	PERFORATIONS FROM	PERFORATIONS TO	CEMENT USED	OTHER
13 3/8		0	716				

TIME DISTRIBUTION — HOURS

	MORN.	DAY	EVE.
DRILLING ACTUAL	6		
REAMING	1½		
CIRCULATING			
TRIPS			
DEVIATION SURVEY MENT	1		
TEST B.O.P			
CUT OFF DRILL LINE	¼		
REPAIR RIG Service	½		
CORING	1		
WIRE LINE LOGGING			
OTHER	¼	4¼	
FISHING			
COMPLETING (A) PERFORATING			
(B) RUNNING TUBING			
(C) SWABBING			
(D) TESTING			
(E) ACIDIZING			
(F) ADDITIONAL			
TOTALS		4	

TIME SUMMARY (OFFICE USE ONLY)

CONTRACTOR'S TIME HRS:

OPERATOR'S TIME:

HRS. W/D.P: 24

HRS WO/D.P:

HRS STANDBY

WIRE LINE RECORD

REEL NO

NO OF LINES SIZE

FEET SLIPPED

FEET CUT OFF

PRESENT LENGTH

TON MI. or TRIPS SINCE LAST CUT

CUMULATIVE TON MI. or TRIPS

NO. OF DAYS FROM SPUD

CUMULATIVE ROTATING HRS.

MORNING TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD	
	STANDS DP	FT.	RUN NO.	
	SNGLS. DP	FT.	SIZE	
	D.C. ID / OD	FT.	MFG.	
	RMR BODY OD	FT.	TYPE	
	STB BODY OD	FT.	NOZ. NO. / 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: L McIntosh

HRS. DRLD.	CORE NO.	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT. ON BIT 1000#	PUMP PRESS.	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN

DEVIATION RECORD:

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

REMARKS

12 00	12 15	Rig Service
12 15	3 15	Run 13 3/8 Casing
3 15	3 45	Repair Low Chain in Dwks
3 45	5 30	Run 13 3/8 Casing
5 30	7 00	Head up circ Casing
7 00	8 00	Cementing

Ran 13 3/8" 2.55, 54.5# Csg. Cemented at 717' w/ 700 sx Portland + 2% CaCl2

MUD RECORD

TIME				
WEIGHT				
VISC				
W.L.-C.C.				
FLTR. CK.				
PH				
SD. CONT.				

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

DAY TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD	
	STANDS DP	FT.	RUN NO.	
	SNGLS. DP	FT.	SIZE	
	D.C. ID / OD	FT.	MFG.	
	RMR BODY OD	FT.	TYPE	
	STB BODY OD	FT.	NOZ. NO. / 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: S Morrow

HRS. DRLD.	CORE NO.	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT. ON BIT 1000#	PUMP PRESS.	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN

DEVIATION RECORD:

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

REMARKS

8 00	8 15	Rig Serv
8 15	4 00	W.O.C

MUD RECORD

TIME				
WEIGHT				
VISC				
W.L.-C.C.				
FLTR. CK.				
PH				
SD. CONT.				

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

EVENING TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD	
	STANDS DP	FT.	RUN NO	
	SNGLS. DP	FT.	SIZE	
	D.C ID / OD	FT.	MFG.	
	RMR BODY OD	FT.	TYPE	
	STB BODY OD	FT.	NOZ. NO. / 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)	ROTARY R.P.M.	WT. ON BIT 1000#	PUMP PRESS	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN

DEVIATION RECORD:

DEPTH	DEV.	DIRECTION	DEPTH	DEV	DIRECTION	DEPTH	DEV	DIRECTION

REMARKS

4 00 12 00 WOC

MUD RECORD

TIME				
WEIGHT				
VISC				
W.L.-C.C.				
FLTR CK.				
PH				
SD. CONT				

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

C.P.—38 (10/63)

DAILY DRILLING REPORT

REPORT NO. 5 DATE MARCH 7/65

OPERATOR	LOCATION LSD. SEC. TWP. RGE. W.	WELL NAME	No.	PROVINCE
SHELL CANADA LIMITED		SHELL CLOVER LEAF	~~F-24~~ I-46	N.W.T.

CONTRACTOR	RIG No.	DRILL PIPE STRING NO. SIZE	TOOL JOINT OD / TYPE THD.
DEFEAT	21		

OPERATOR'S REPRESENTATIVE	CONTRACTOR'S TOOL PUSHER
E Bittinger	L Tomaszeski

PUMPS

NO.	MANUFACTURER	TYPE	STROKE LENGTH
1.	EMSCO	D300	14
2.			
3.			

CASING & LINER RECORD

SIZE	WT. & GR.	DEPTH SET FROM	DEPTH SET TO	PERFORATIONS FROM	PERFORATIONS TO	CEMENT USED	OTHER

TIME DISTRIBUTION—HOURS

	MORN	DAY	EVE
DRILLING ACTUAL			
REAMING			
CIRCULATING			
TRIPS			
DEVIATION SURVEY			
TEST B.O.P			
CUT OFF DRILL LINE			
REPAIR RIG			
CORING			
WIRE LINE LOGGING			
OTHER			
FISHING			
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: 24 hrs.

HRS WO/D.P:

HRS STANDBY

WIRE LINE RECORD

REEL NO

NO OF LINES SIZE

FEET SLIPPED

FEET CUT OFF

PRESENT LENGTH

TON MI. or TRIPS SINCE LAST CUT

CUMULATIVE TON MI. or TRIPS

NO. OF DAYS FROM SPUD

CUMULATIVE ROTATING HRS.

MORNING TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD	
8	STANDS DP	495.62 FT.	RUN NO.	2A
	SNGLS. DP	FT.	SIZE	12¼
6	D.C. 2 2 ID / 2-9 OD	171.56 FT.	MFG.	SEC
	RMR BODY 7 3/4 OD	3.90 FT.	TYPE	S3
	STB BODY OD	4.58 FT.	NOZ. NO.	3
	SUBS OD	2.58 FT.	NOZ. SIZE	7/4
	BIT OR C.B.	1.97 FT.	SER. NO	A.R.
		2.53 FT.	DEPTH OUT	
	KELLY DOWN	34.00 FT.	CUMULATIVE HOURS RUN	
	TOTAL	716.74 FT.	COND. OF BIT	
	WT. OF STRING	264 LBS.	REAMER CUTTER NO.	2A
			TYPE	PILOT

DRILLER L McIntosh

HRS. DRLD.	CORE NO.	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT. ON BIT 1000#	PUMP PRESS.	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN
REAM		672	716	44	160	8-10	250	7¾	60			

DEVIATION RECORD:

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

REMARKS

1200	1215	Rig Service
1215	330	Ream
330	400	Circ
400	630	Hoist work out of tight hole Circ Lay Down 5" pipe
630	730	Haul and pick up 3½ pipe Run in
730	800	Circ To Run Casing

MUD RECORD

TIME	700	406
WEIGHT	105	10.5
VISC		
W.L.-C.C.		
FLTR. CK.		
PH		
SD. CONT.		

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

DAY TOUR

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

DRILLER S MORROW

HRS. DRLD.	CORE NO.	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT. ON BIT 1000#	PUMP PRESS.	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN

DEVIATION RECORD:

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

REMARKS

700	815	Rig Serv
815	1100	Circ To Run Casing and Racking Rig
1100	1200	Pulling out
1200	1400	Rigging up To Run Casing and Running Casing

MUD RECORD

TIME		
WEIGHT		
VISC		
W.L.-C.C.		
FLTR. CK.		
PH		
SD. CONT.		

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

EVENING TOUR

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

DRILLER

HRS. DRLD.	CORE NO.	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT. ON BIT 1000#	PUMP PRESS	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN

DEVIATION RECORD:

DEPTH	DEV.	DIRECTION	DEPTH	DEV	DIRECTION	DEPTH	DEV	DIRECTION

REMARKS

400	415	Rig Serv
415	1200	Running Casing

MUD RECORD

TIME		
WEIGHT		
VISC		
W.L.-C.C.		
FLTR CK.		
PH		
SD. CONT		

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

C.P.—38 (10/63) **DAILY DRILLING REPORT** REPORT NO. 4 DATE MARCH 6/65 I-46

OPERATOR: SHELL CANADA LIMITED | LOCATION LSD. SEC. TWP. RGE. W. | WELL NAME: SHELL CLOVER LEAF No. [redacted] | PROVINCE: N.W.T

CONTRACTOR: REGENT | RIG No. 21 | DRILL PIPE STRING NO. SIZE 2 5 | TOOL JOINT 6 OD | TYPE THD. IF

OPERATOR'S REPRESENTATIVE: B. Ellinger | CONTRACTOR'S TOOL PUSHER

PUMPS

NO.	MANUFACTURER	TYPE	STROKE LENGTH
1.	EMSCO	D300	14
2.			
3.			

CASING & LINER RECORD

	SIZE	WT. & GR.	DEPTH SET FROM	DEPTH SET TO	PERFORATIONS FROM	PERFORATIONS TO	CEMENT USED	OTHER

TIME DISTRIBUTION — HOURS

	MORN	DAY	EVE
DRILLING ACTUAL			2
REAMING	7¼	6½	2½
CIRCULATING			
TRIPS		12	3
DEVIATION SURVEY			¼
TEST B.O.P			
CUT OFF DRILL LINE			
REPAIR RIG			
CORING			
WIRE LINE LOGGING			
OTHER	1¼	¼	¼
FISHING			
COMPLETING (A) PERFORATING			
(B) RUNNING TUBING			
(C) SWABBING			
(D) TESTING			
(E) ACIDIZING			
(F) ADDITIONAL			
TOTALS	8	0	8

TIME SUMMARY (OFFICE USE ONLY)

CONTRACTOR'S TIME HRS:

OPERATOR'S TIME:

HRS. W/D.P: 22½

HRS WO/D.P:

HRS STANDBY

WIRE LINE RECORD

REEL NO

NO OF LINES SIZE

FEET SLIPPED

FEET CUT OFF

PRESENT LENGTH

TON MI. OR TRIPS SINCE LAST CUT

CUMULATIVE TON MI. OR TRIPS

NO. OF DAYS FROM SPUD

CUMULATIVE ROTATING HRS.

MORNING TOUR

DRILLING ASSEMBLY

NO.			
6	STANDS DP	2724	FT.
	SNGLS. DP		FT.
6	D.C. 2 7/8 ID, 2-9 4 6 OD	171.56	FT.
	RMR BODY OD	3.90	FT.
	STB BODY OD	4.58	FT.
	SUBS OD	2.58	FT.
	BIT OR C.B.	1.97	FT.
		2.53	FT.
	KELLY DOWN	31.00	FT.
	TOTAL	590.55	FT.
WT. OF STRING		24M	LBS.

DRILLER: L McIntosh

BIT RECORD

RUN NO.	3A
SIZE	12¼
MFG.	HW
TYPE	OSC3
NOZ. NO.	3
NOZ. SIZE	24
SER. NO	58602
DEPTH OUT	590
CUMULATIVE HOURS RUN	2½
COND. OF BIT	RUN
REAMER CUTTER NO.	1A
TYPE	PILOT

(This Bit Ran in 12¼ Reamer)

HRS. DRLD.	CORE NO.	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT. ON BIT 1000#	PUMP PRESS.	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN
		457	590	133	160	8M	250	7¼	60			

DEVIATION RECORD:

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

REMARKS

1200 1215 Rig Service

1215 800 DRLG

41

MUD RECORD

TIME	200	400	600
WEIGHT	10.4	10.4	10.4
VISC	57	60	60
W.L.-C.C.			
FLTR. CK.			
PH			
SD. CONT.			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

DAY TOUR

DRILLING ASSEMBLY

NO.			
7	STANDS DP	434.31	FT.
	SNGLS. DP		FT.
6	D.C. 2-9" ID 4 6½ OD	171.56	FT.
	RMR BODY OD	3.90	FT.
	STB BODY OD	4.06	FT.
	SUBS OD	2.58	FT.
	BIT OR C.B.	1.97	FT.
		2.53	FT.
	KELLY DOWN	26.00	FT.
	TOTAL	647.43	FT.
WT. OF STRING			LBS.

DRILLER: A Marrow

BIT RECORD

RUN NO.	3A
SIZE	12¼
MFG.	HW
TYPE	OSC3
NOZ. NO	3
NOZ. SIZE	24
SER. NO.	58602
DEPTH OUT	647.43
CUMULATIVE HOURS RUN	31½
COND. OF BIT	
REAMER CUTTER NO.	1A
TYPE	PILOT

(This Bit Ran in 12¼ Reamer)

HRS. DRLD.	CORE NO.	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT. ON BIT 1000#	PUMP PRESS.	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN
		590	647	57	160	4M	300	7¼	60			

DEVIATION RECORD:

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

REMARKS

8:00 8:15 Rig Serv

8:15 2:30 REAMING

2:30 4:00 Pulling out and Braking tight D.C

1½ hrs. Repair 6½

MUD RECORD

TIME	9	12	2
WEIGHT	10.4	10.2	10.3
VISC	62	74	80
W.L.C.C.			
FLTR. CK.			
PH			
SD. CONT.			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
Gel	100#		

EVENING TOUR

DRILLING ASSEMBLY

NO.			
7	STANDS DP		FT.
1	SNGLS. DP	46.78	FT.
6	D.C. 2 7/8 ID, 2-9 4½ OD	171.56	FT.
	RMR BODY OD	3.90	FT.
	STB BODY OD	4.58	FT.
	SUBS OD	2.58	FT.
	BIT OR C.B.	1.97	FT.
		2.53	FT.
	KELLY DOWN	20.00	FT.
	TOTAL	252.90	FT.
WT OF STRING		2[illegible]	LBS.

DRILLER: [illegible]

BIT RECORD

RUN NO	4A	5A
SIZE	12¼	12¼
MFG.	SEC	SEC
TYPE	S3	S3 RR NOZ.
NOZ. NO.	3	3
NOZ. SIZE	32	32
SER NO	714902	RR
DEPTH OUT	719	[illegible]
CUMULATIVE HOURS RUN	2	2½
COND. OF BIT		
REAMER CUTTER NO.	2A	
TYPE	PILOT	

HRS. DRLD.	CORE NO.	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT. ON BIT 1000#	PUMP PRESS	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN
2		691	719	28	60	1200	300	7¼	60			
REAM		647	672	25 REAMED								

DEVIATION RECORD:

DEPTH	DEV.	DIRECTION	DEPTH	DEV	DIRECTION	DEPTH	DEV	DIRECTION
719	¼							

REMARKS

4:00 4:15 Rig Serv

4:15 5:00 Run In

5:00 7:00 Drill

7:00 7:15 Survey

7:15 8:00 Pull out

8:00 9:30 Make up Reamer Weld on Bit Run in

9:30 12:00 Ream 12¼ - 17½

Non Reamer 17½ in 12¼ Hole.

8

MUD RECORD

TIME	600	800	10[illegible]
WEIGHT	10.5	10.[illegible]	10.[illegible]
VISC	68	78	80
W.L.-C.C.			
FLTR. CK.			
PH			
SD. CONT			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

C.P.—38 (10/63) **DAILY DRILLING REPORT** REPORT NO. 3. DATE MARCH 5/65 I-46

OPERATOR: SHELL CANADA LIMITED | LOCATION LSD. SEC. TWP. RGE. W. | WELL NAME: SHELL CLOVER LEAF | No. [redacted] | PROVINCE: N.W.T

CONTRACTOR: REGENT | RIG No. 21 | DRILL PIPE STRING NO. SIZE 4 5" | TOOL JOINT OD 6 TYPE THD. IF

OPERATOR'S REPRESENTATIVE: R Ettinger | CONTRACTOR'S TOOL PUSHER: L Domaszeski

PUMPS

NO.	MANUFACTURER	TYPE	STROKE LENGTH
1.	EMSCO	D300	14
2.			
3.			

CASING & LINER RECORD

SIZE	WT. & GR.	DEPTH SET FROM	DEPTH SET TO	PERFORATIONS FROM	PERFORATIONS TO	CEMENT USED	OTHER

TIME DISTRIBUTION—HOURS

	MORN	DAY	EVE
DRILLING ACTUAL			
REAMING	3½	7¾	6
CIRCULATING			
TRIPS	1¼		1½
DEVIATION SURVEY			
TEST B.O.P.			
CUT OFF DRILL LINE			
REPAIR RIG			
CORING			
WIRE LINE LOGGING			
OTHER Service	¼	¼	¼
FISHING			
COMPLETING (A) PERFORATING			
(B) RUNNING TUBING			
(C) SWABBING			
(D) TESTING			
(E) ACIDIZING			
(F) ADDITIONAL			
TOTALS	8	8	8

TIME SUMMARY (OFFICE USE ONLY)

CONTRACTOR'S TIME HRS:

OPERATOR'S TIME:

HRS. W/D.P: 24 hrs.

HRS WO/D.P:

HRS STANDBY

WIRE LINE RECORD

REEL NO

NO OF LINES SIZE

FEET SLIPPED

FEET CUT OFF

PRESENT LENGTH

TON MI. or TRIPS SINCE LAST CUT

CUMULATIVE TON MI. or TRIPS

NO. OF DAYS FROM SPUD

CUMULATIVE ROTATING HRS.

MORNING TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD	
	STANDS DP	FT.	RUN NO.	2A
	SNGLS. DP	FT.	SIZE	12¼
4	D.C. ID / OD	115.67 FT.	MFG.	HW
	RMR BODY OD	FT.	TYPE	OSC3
	STB BODY/ OD	4.58 FT.	NOZ. NO.	3
	SUBS OD	2.58 FT.	SIZE	3/4
	BIT OR C.B.	FT.	SER. NO	58602
	Lsub / KELLY DOWN	2.00 FT. / 41.00 FT.	DEPTH OUT	
	TOTAL	166 FT.	CUMULATIVE HOURS RUN	3½
	WT. OF STRING	20 LBS.	COND. OF BIT	
			REAMER CUTTER NO.	
			TYPE	

DRILLER: L McIntosh

THIS BIT 0 to 4. 17½ Reamed

Reamer No1

HRS. DRLD.	CORE NO.	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT. ON BIT 1000#	PUMP PRESS.	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN
2½		0	166	Ream 166	160	6M	150	7"	60			

DEVIATION RECORD: DEPTH / DEV. / DIRECTION

REMARKS

1200	1215	Rig Service
1215	200	Finish out Lay down D.C.
200	300	Make up Reamer Weld on Bit
300	430	Break Service 9in DCS
430	800	Ream

MUD RECORD

TIME			
WEIGHT			
VISC			
W.L.-C.C.			
FLTR. CK.			
PH			
SD. CONT.			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

DAY TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD	
2	STANDS DP	177.13 FT.	RUN NO.	3A
1	SNGLS. DP	FT.	SIZE	12¼
6	D.C. 2-9" ID / 6½ OD	171.56 FT.	MFG.	Hughes
	RMR BODY OD	3.90 FT.	TYPE	OSC3
	STB BODY OD	4.58 FT.	NOZ. NO	3
	SUBS OD	2.58 FT.	SIZE	3/4
	BIT OR C.B.	1.93 FT.	SER. NO.	58602
		2.53 FT.	DEPTH OUT	
	KELLY DOWN	41.00 FT.	CUMULATIVE HOURS RUN	7¾
	TOTAL	385.75 FT.	COND. OF BIT	
	WT. OF STRING	22000 LBS.	REAMER CUTTER NO.	
			TYPE	

DRILLER: Simonow

Reamer No1 — Ran 13.5 on 4 17½ Ran 15.5 on 4 17½

HRS. DRLD.	CORE NO.	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT. ON BIT 1000#	PUMP PRESS.	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN
7¾		166	385	Ream 219 ft.	160		200	1½	60			

DEVIATION RECORD: DEPTH / DEV. / DIRECTION

REMARKS

8 00	8 15	Rig Serv
8 15	4 00	Reaming

8

MUD RECORD

TIME	9	12	2 00
WEIGHT	10.3	10.3	10.3
VISC	92	125	128
W.L.-C.C.			
FLTR. CK.			
PH			
SD. CONT.			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
GEL	1500		

EVENING TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD	
4	STANDS DP	349.41 FT.	RUN NO	3A
	SNGLS. DP	FT.	SIZE	12¼
6	D.C 2-9" ID / 9" OD	171.56 FT.	MFG.	HW
	RMR BODY OD	3.90 FT.	TYPE	OSC3
	STB BODY OD	4.58 FT.	NOZ. NO.	3
	SUBS OD	2.58 FT.	SIZE	3/4
	BIT OR C.B.	1.97 FT.	SER NO	58602
	Sub	2.53 FT.	DEPTH OUT	
	KELLY DOWN	41.00 FT.	CUMULATIVE HOURS RUN	17¼
	TOTAL	457.53 FT.	COND. OF BIT	Rr1
	WT OF STRING	240 LBS.	REAMER CUTTER NO.	1A
			TYPE	

DRILLER: L McIntosh

Ran 13.5 on 4 17½ Worn

HRS. DRLD.	CORE NO.	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT. ON BIT 1000#	PUMP PRESS	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN
Ream 17¼		385	457	72	160	2M	200	7¼				

DEVIATION RECORD: DEPTH / DEV. / DIRECTION

REMARKS

400	415	Rig Service
415	500	Pulled out / Hole tight
500	530	Cleaned up Reamer
530	600	Round
600	1200	Ream

MUD RECORD

TIME	600	800	1200
WEIGHT	103	102	101
VISC	125	90	65
W.L.-C.C.			
FLTR. CK.			
PH			
SD. CONT			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

C.P.—38 (10/63) **DAILY DRILLING REPORT** REPORT NO. 2 DATE MARCH 4/65

OPERATOR	LOCATION LSD. SEC. TWP. RGE. W.	WELL NAME	No.	PROVINCE
SHELL CANADA LIMITED		SHELL CLOVER LEAF	1-46	NWT

CONTRACTOR	RIG No.	DRILL PIPE STRING NO. SIZE	TOOL JOINT OD / TYPE THD.
REGENT	21		

OPERATOR'S REPRESENTATIVE — CONTRACTOR'S TOOL PUSHER: R. Mackintosh

PUMPS

NO.	MANUFACTURER	TYPE	STROKE LENGTH
1.			
2.			
3.			

CASING & LINER RECORD	SIZE	WT. & GR.	DEPTH SET FROM	DEPTH SET TO	PERFORATIONS FROM	PERFORATIONS TO	CEMENT USED	OTHER

TIME DISTRIBUTION—HOURS

	MORN	DAY	EVE
DRILLING ACTUAL			
REAMING			
CIRCULATING			
TRIPS			
DEVIATION SURVEY			
TEST B.O.P			
CUT OFF DRILL LINE			
REPAIR RIG			
CORING			
WIRE LINE LOGGING			
OTHER		8	
FISHING			
COMPLETING (A) PERFORATING			
(B) RUNNING TUBING			
(C) SWABBING			
(D) TESTING			
(E) ACIDIZING			
(F) ADDITIONAL			
TOTALS		8	

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. or TRIPS SINCE LAST CUT

CUMULATIVE TON MI. or TRIPS

NO. OF DAYS FROM SPUD

CUMULATIVE ROTATING HRS.

MORNING TOUR

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

HRS. DRLD.	CORE NO.	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT. ON BIT 1000#	PUMP PRESS.	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN
		691	—									

DEVIATION RECORD:

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

REMARKS

1200 1330 Rigged Bumper Sub
1330 330 Bumped Stock pipe down 9.5'
330 400 Tore out Bumper Sub
400 800 Cry pipe mix mud work tight hole
Cry to pull out set to 470

MUD RECORD

TIME				
WEIGHT				
VISC				
W.L.-C.C.				
FLTR. CK.				
PH				
SD. CONT.				

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

DAY TOUR

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

HRS. DRLD.	CORE NO.	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT. ON BIT 1000#	PUMP PRESS.	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN
		691	—									

DEVIATION RECORD:

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

REMARKS

800 815 Rig Serv
815 1400 Working Stuck pipe

MUD RECORD

TIME				
WEIGHT				
VISC				
W.L.-C.C.				
FLTR. CK.				
PH				
SD. CONT.				

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

EVENING TOUR

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

HRS. DRLD.	CORE NO.	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT. ON BIT 1000#	PUMP PRESS	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN
		691	—									

DEVIATION RECORD:

DEPTH	DEV.	DIRECTION	DEPTH	DEV	DIRECTION	DEPTH	DEV	DIRECTION

REMARKS

1400 1615 Rig Serv
1615 2330 Working stuck pipe
930 1000 Pump Down DEISEL AND PIPE FREE
1000 1100 Let DEISEL AND PIPE FREE WORK
1100 1200 Work Pipe through tight spot.

Spot 10 bbls Diesel + 20 gal-
of free Pipe. Bit @ 335

MUD RECORD

TIME				
WEIGHT				
VISC				
W.L.-C.C.				
FLTR CK.				
PH				
SD. CONT				

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

C.P.—38 (10/63) **DAILY DRILLING REPORT** REPORT NO. 3 DATE MARCH 3/65

OPERATOR: SHELL CANADA LIMITED | LOCATION LSD. SEC. TWP. RGE. W. | WELL NAME: SHELL CLOVER LEAF | No. 1-46 | PROVINCE: N.W.T.

CONTRACTOR: REGENT | RIG No. 2 | DRILL PIPE STRING NO. SIZE 3 5" | TOOL JOINT OD, TYPE THD.

OPERATOR'S REPRESENTATIVE | CONTRACTOR'S TOOL PUSHER: A. Mcintosh

PUMPS

NO.	MANUFACTURER	TYPE	STROKE LENGTH
1.			
2.			
3.			

CASING & LINER RECORD

SIZE	WT. & GR.	DEPTH SET FROM	DEPTH SET TO	PERFORATIONS FROM	PERFORATIONS TO	CEMENT USED	OTHER

TIME DISTRIBUTION—HOURS

	MORN	DAY	EVE
DRILLING ACTUAL		7	
REAMING			
CIRCULATING			
TRIPS			
DEVIATION SURVEY		½	
TEST B.O.P			
CUT OFF DRILL LINE			
REPAIR RIG		¼	
CORING			
WIRE LINE LOGGING			
OTHER		¼	
FISHING			
COMPLETING (A) PERFORATING			
(B) RUNNING TUBING			
(C) SWABBING			
(D) TESTING			
(E) ACIDIZING			
(F) ADDITIONAL			
TOTALS		8	

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. or TRIPS SINCE LAST CUT

CUMULATIVE TON MI. or TRIPS

NO. OF DAYS FROM SPUD

CUMULATIVE ROTATING HRS.

MORNING TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD		
4	STANDS DP	FT.	RUN NO.	1A	2A
1	SNGLS. DP	281.69 FT.	SIZE	13½	12¼
6	D.C. ID 3-9 OD 4-6½	171.56 FT.	MFG.	SEC	SEC
	RMR BODY OD	4.58 FT.	TYPE	S3	S3
	STB BODY OD	2.58 FT.	NOZ. NO.	3	3
	SUBS OD	1.97 FT.	NOZ. SIZE	3/4	3/4
	BIT OR C.B.	2.53 FT.	SER. NO	RERUN	775103
		FT.	DEPTH OUT	316	
	KELLY DOWN	36.00 FT.	CUMULATIVE HOURS RUN	12½	5¼
	TOTAL	500.95 FT.	COND. OF BIT		
WT. OF STRING	25M LBS.		REAMER CUTTER NO.		
DRILLER	A. McIntosh		TYPE		

HRS. DRLD.	CORE NO.	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT. ON BIT 1000#	PUMP PRESS.	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN
6¼		286	500	214	120	20	250					

DEVIATION RECORD:	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION
	316	½		411	¼				

REMARKS

1200	1215	Rig Service
1215	115	Drill
115	230	Survey Trip for Bit
230	530	Drill
530	545	Survey
545	800	Drill

MUD RECORD

TIME	200	400	700
WEIGHT			
VISC	54	52	47
W.L.-C.C.			
FLTR. CK.			
PH			
SD. CONT.			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
Gell	500		

DAY TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD	
7	STANDS DP	467.61 FT.	RUN NO.	2A
1	SNGLS. DP	7 FT.	SIZE	12¼
6	D.C. ID 2.9" OD 4 6½"	171.56 FT.	MFG.	See
	RMR BODY OD	4.58 FT.	TYPE	S3
	STB BODY OD	2.58 FT.	NOZ. NO.	3
	SUBS OD	1.97 FT.	NOZ. SIZE	3/4
	BIT OR C.B.	2.53 FT.	SER. NO	775103
		FT.	DEPTH OUT	691
	KELLY DOWN	41.00 FT.	CUMULATIVE HOURS RUN	12 1/4
	TOTAL	691.53 FT.	COND. OF BIT	
WT. OF STRING	2600 LBS.		REAMER CUTTER NO.	
DRILLER	S Morrow		TYPE	

HRS. DRLD.	CORE NO.	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT. ON BIT 1000#	PUMP PRESS.	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN
7		500	691		120	2100	300	7¼	68			

DEVIATION RECORD:	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION
	536	½	[illegible]	630	½				

REMARKS

800	815	Rig Serv
815	930	Drill
930	945	Survey
945	1000	Working on pump
1000	145	Drill
145	200	Survey
200	400	Drill

MUD RECORD

TIME	10	100	300
WEIGHT			
VISC	46	40	55
W.L.-C.C.			
FLTR. CK.			
PH			
SD. CONT.			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
Gel	100 lb		

EVENING TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD	
	STANDS DP	FT.	RUN NO	2A
	SNGLS. DP	FT.	SIZE	12¼
	D.C ID OD	FT.	MFG.	SEC
	RMR BODY OD	FT.	TYPE	S3
	STB BODY OD	FT.	NOZ. NO.	3
	SUBS OD	FT.	NOZ. SIZE	3/4
	BIT OR C.B.	FT.	SER NO	775103
		FT.	DEPTH OUT	691
	KELLY DOWN	FT.	CUMULATIVE HOURS RUN	12¼
	TOTAL	FT.	COND. OF BIT	
WT OF STRING	LBS.		REAMER CUTTER NO.	
DRILLER			TYPE	

HRS. DRLD.	CORE NO.	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT. ON BIT 1000#	PUMP PRESS	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN

DEVIATION RECORD:	DEPTH	DEV.	DIRECTION	DEPTH	DEV	DIRECTION	DEPTH	DEV	DIRECTION

REMARKS

400	415	Rig Serv
415	500	Pulling out
500	1200	Work stuck pipe

MUD RECORD

TIME			
WEIGHT			
VISC			
W.L.-C.C.			
FLTR CK.			
PH			
SD. CONT			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

C.P.—38 (10/63) **DAILY DRILLING REPORT** REPORT NO. DATE March 2/1965

OPERATOR: SHELL CANADA LIMITED | LOCATION LSD. SEC. TWP. RGE. W. | WELL NAME: Shell Clover Leaf No. 1-46 | PROVINCE: NWT

CONTRACTOR: Regent | RIG No. 21 | DRILL PIPE STRING NO. SIZE | TOOL JOINT OD | TYPE THD.

OPERATOR'S REPRESENTATIVE | CONTRACTOR'S TOOL PUSHER: R. Thibeault

PUMPS

NO.	MANUFACTURER	TYPE	STROKE LENGTH
1.			
2.			
3.			

CASING & LINER RECORD

SIZE	WT. & GR.	DEPTH SET FROM	DEPTH SET TO	PERFORATIONS FROM	PERFORATIONS TO	CEMENT USED	OTHER

TIME DISTRIBUTION—HOURS

	WORK	DAY	EVE
DRILLING ACTUAL		6¼	
REAMING			
CIRCULATING			
TRIPS			
DEVIATION SURVEY		¼	
TEST B.O.P			
CUT OFF DRILL LINE			
REPAIR RIG			
CORING			
WIRE LINE LOGGING			
OTHER		1¼	
FISHING			
COMPLETING (A) PERFORATING			
(B) RUNNING TUBING			
(C) SWABBING			
(D) TESTING			
(E) ACIDIZING			
(F) ADDITIONAL			
TOTALS		8	

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. or TRIPS SINCE LAST CUT

CUMULATIVE TON MI. or TRIPS

NO. OF DAYS FROM SPUD

CUMULATIVE ROTATING HRS.

MORNING TOUR

DRILLING ASSEMBLY

NO.			FT.
	STANDS DP		FT.
	SNGLS. DP		FT.
	D.C. ID / OD		FT.
	RMR BODY OD		FT.
	STB BODY OD		FT.
	SUBS OD		FT.
	BIT OR C.B.		FT.
			FT.
	KELLY DOWN		FT.
	TOTAL		FT.
	WT. OF STRING		LBS.

BIT RECORD

RUN NO.	1
SIZE	13¼
MFG.	SEC
TYPE	S3P
NOZ. NO.	3
NOZ. SIZE	3/4
SER. NO	RERUN
DEPTH OUT	
CUMULATIVE HOURS RUN	
COND. OF BIT	
REAMER CUTTER NO.	
TYPE	

DRILLER: L McIntosh

HRS. DRLD.	CORE NO.	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT. ON BIT 1000#	PUMP PRESS.	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN
		0										

DEVIATION RECORD: DEPTH | DEV. | DIRECTION | DEPTH | DEV. | DIRECTION | DEPTH | DEV. | DIRECTION

REMARKS

1200 800 Rig up to Spud
Weld conductor pipe Mix mud

MUD RECORD

TIME	200	400	600
WEIGHT	8.6	8.7	8.8
VISC	28	38	45
W.L.-C.C.			
FLTR.-CK.			
PH			
SD. CONT.			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
GEL	6000		
CAUSTIC	200		

DAY TOUR

DRILLING ASSEMBLY

NO.			FT.
	STANDS DP		FT.
	SNGLS. DP		FT.
3	D.C. 9" ID / 6½" OD	87.46	FT.
	RMR BODY OD		FT.
	STB BODY OD		FT.
	SUBS OD	5.58	FT.
	BIT OR C.B.	2.58	FT.
	Sub	2.60	FT.
	KELLY DOWN	41	FT.
	TOTAL	138.22	FT.
	WT. OF STRING		LBS.

BIT RECORD

RUN NO:	1A
SIZE	13¼
MFG.	
TYPE	S3P
NOZ. NO	3
NOZ. SIZE	3/4
SER. NO.	Rerun
DEPTH OUT	
CUMULATIVE HOURS RUN	
COND. OF BIT	
REAMER CUTTER NO.	
TYPE	

DRILLER: L Morrow

HRS. DRLD.	CORE NO.	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT. ON BIT 1000#	PUMP PRESS.	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN

DEVIATION RECORD: DEPTH | DEV. | DIRECTION | DEPTH | DEV. | DIRECTION | DEPTH | DEV. | DIRECTION

REMARKS

730	815	Rig Serv
815	930	Rigging up to Drill
930	230	Drilling — (SPUD IN)
230	245	Survey
245	400	Drilling

6¼

Spud 9 30 AM Mar 2 1965

MUD RECORD

TIME	10	12	2
WEIGHT			
VISC	49	50	47
W.L.-C.C.			
FLTR. CK.			
PH			
SD. CONT.			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

EVENING TOUR

DRILLING ASSEMBLY

NO.			FT.
1	STANDS DP	6216	FT.
	SNGLS. DP		FT.
6	D.C. 3-9 ID / 6½ OD	171.56	FT.
	RMR BODY OD	4.58	FT.
	STB BODY OD	2.58	FT.
	SUBS OD	1.97	FT.
	BIT OR C.B.	2.53	FT.
			FT.
	KELLY DOWN	41.00	FT.
	TOTAL	286.38	FT.
	WT OF STRING		LBS.

BIT RECORD

RUN NO	1A
SIZE	13¼
MFG.	SEC
TYPE	S3
NOZ. NO.	3
NOZ. SIZE	3/4
SER NO	RERUN
DEPTH OUT	286
CUMULATIVE HOURS RUN	12½ 11¾
COND. OF BIT	Rund
REAMER CUTTER NO.	
TYPE	

DRILLER: L McIntosh

HRS. DRLD.	CORE NO.	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT. ON BIT 1000#	PUMP PRESS	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN
		138	286		120	15	150					

DEVIATION RECORD: DEPTH | DEV. | DIRECTION | DEPTH | DEV | DIRECTION | DEPTH | DEV | DIRECTION

REMARKS

400	415	Rig Service
415	530	Drilling
530	545	Survey
545	900	Drill
900	915	Survey
915	1200	Drill

6

MUD RECORD

TIME			
WEIGHT			
VISC			
W.L.-C.C.			
FLTR CK.			
PH			
SD. CONT			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

C.P.—38 (10/63)

DAILY DRILLING REPORT

REPORT NO. DATE MARCH 1 1965

OPERATOR: SHELL CANADA LIMITED

LOCATION LSD. SEC. TWP. RGE. W.

WELL NAME: SHELL CLOVER LEAF No. 1-46

PROVINCE: N.W.T.

CONTRACTOR: REGENT RIG No. 21

DRILL PIPE STRING NO. SIZE: 2 3½ TOOL JOINT 4½ OD TYPE THD. F.H

OPERATOR'S REPRESENTATIVE

CONTRACTOR'S TOOL PUSHER: R. Shepherd

PUMPS

NO.	MANUFACTURER	TYPE	STROKE LENGTH
1.			
2.			
3.			

CASING & LINER RECORD

SIZE	WT. & GR.	DEPTH SET FROM	DEPTH SET TO	PERFORATIONS FROM	PERFORATIONS TO	CEMENT USED	OTHER

TIME DISTRIBUTION—HOURS

	MORN	DAY	EVE
DRILLING ACTUAL			
REAMING			
CIRCULATING			
TRIPS			
DEVIATION SURVEY			
TEST B.O.P			
CUT OFF DRILL LINE			
REPAIR RIG			
CORING			
WIRE LINE LOGGING			
[illegible]	4	8	8
FISHING			
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

WIRE LINE RECORD

REEL NO

NO OF LINES SIZE

FEET SLIPPED

FEET CUT OFF

PRESENT LENGTH

TON MI. or TRIPS SINCE LAST CUT

CUMULATIVE TON MI. or TRIPS

NO. OF DAYS FROM SPUD

CUMULATIVE ROTATING HRS.

MORNING TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD	
	STANDS DP	FT.	RUN NO.	
	SNGLS. DP	FT.	SIZE	
	D.C. ID / OD	FT.	MFG.	
	RMR BODY OD	FT.	TYPE	
	STB BODY OD	FT.	NOZ. NO. / 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: S McIntosh

HRS. DRLD.	CORE NO.	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT. ON BIT 1000#	PUMP PRESS.	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN

DEVIATION RECORD:	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

REMARKS

1200 1215 Rig Service
1215 630 Drilling conductor pipe hole
530 700 Lay down kelly set back table
700 800 Cut 2½ feet off conductor pipe Rig to cement
KB To Ground 13.70

MUD RECORD

TIME				
WEIGHT				
VISC				
W.L.-C.C.				
FLTR. CK.				
PH				
SD. CONT.				

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

DAY TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD	
	STANDS DP	FT.	RUN NO.	
	SNGLS. DP	FT.	SIZE	
	D.C. ID / OD	FT.	MFG.	
	RMR BODY OD	FT.	TYPE	
	STB BODY OD	FT.	NOZ. NO. / 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)	ROTARY R.P.M.	WT. ON BIT 1000#	PUMP PRESS.	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN

DEVIATION RECORD:	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

REMARKS

800 815 Rig Service
815 100 Cement conductor pipe
100 400 WOC

MUD RECORD

TIME				
WEIGHT				
VISC				
W.L.-C.C.				
FLTR. CK.				
PH				
SD. CONT.				

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

EVENING TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD	
	STANDS DP	FT.	RUN NO	
	SNGLS. DP	FT.	SIZE	
	D.C ID / OD	FT.	MFG.	
	RMR BODY OD	FT.	TYPE	
	STB BODY OD	FT.	NOZ. NO. / 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)	ROTARY R.P.M.	WT. ON BIT 1000#	PUMP PRESS	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN

DEVIATION RECORD:	DEPTH	DEV.	DIRECTION	DEPTH	DEV	DIRECTION	DEPTH	DEV	DIRECTION

REMARKS

400 1200 WOC DRILL RAT HOLE

MUD RECORD

TIME				
WEIGHT				
VISC				
W.L.-C.C.				
FLTR CK.				
PH				
SD. CONT				

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.