Shell Arctic
Red West
G-35

Drilling Authority No. 494

Date Issued 21 January 1971

WELL NAME Shell Arctic Red West G-55

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

LOCATION: Unit G Section 55 Grid 66-50-133-00

Latitude 66-44-~~35.317~~ 28.139 Longitude 133-09-~~52.417~~ 58.203

U.W.L.R. ~~66°31'11"~~ --- ~~133°16'56"~~ 66.7415 — 133.16617

U.W.I. 300/556650133000

G

Rig Release Date: .....

Status .....

Information Release Date ....

CHANGE OF NAME:

DATE RECEIVED	INDEX
21-1-71	Application for a Drilling Authority.
27-8-71	Well Completion Data.
	Well History Report.
22-2-71	Application to Amend a Drilling Authority.
	Application to change a Well Name.
	Application to Abandon a Well or Suspend Drilling.
	Application to Alter Condition of a Well.
	Well History Supplement.
	Well Completion Data.
	Work-over Report No. .....
	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.
	Well Inspection Report.
	Rig Inspection Report.
	Battery Inspection Report.
	Equipment Report.
	Well Card.
	New Service Well Report.
	Monthly Water Flood Operations Report
	Monthly Water Receipts and Disposal of Fluids Report
	Logs. Large scale..... Small scale.....

IAND 52-90 (3-69)

CANADA

Drilling Authority No. 494

Date Issued Jan. 21, 1971

DEPARTMENT OF INDIAN AFFAIRS AND NORTHERN DEVELOPMENT
OIL AND MINERAL 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 ARCTIC RED WEST G-55

Permit No. 6479 Lease No. NTR - 735

Shell Canada Ltd. & Shell Explorer Ltd. (Permittee, Licensee, Lessee) Exploratory Licence No. 108 & 116

Shell Canada Ltd. (Operator) Exploratory Licence No. 108

Location: Unit G Section 55 Grid 66°50'N, 133°00'W

Latitude 66°44'28.139" Longitude 133°09'58.203"

From Established Reference Marker Geodetic Station "Thunder"

Universal Well Location Reference Lat. 66.74115°N, Long. 133.16617°W

	DATE	DEPTH
Spudded	Mar. 31/71	-
Suspended		
Resumed Operations		
Finished Drilling	May 18/71	10,900 Driller
Deepened		10,901' Logger
Complete (gas/oil)		
Abandoned	May 22/71	10,900
Rig released	May 22/71	10,900

Pool(s)

Interval(s) open to production

Elevation: Gr. 129.1 K.B. 146.35

Rig No. 11

Drilling Contractor Gustavson Drilling (1964) Ltd.

Contractor's Business Licence No. 0832

CASING RECORD

Casing Size (Inches)	Grade	Weight	Amount	Set at –	Sacks of Cement and Additives
1. 20"	-	53#	52'	52'	85 Sxs Permafrost Cement
2. 9 5/8"	K-55	36#	38JTS.	1201'	267 Sxs Permafrost Cement +
3.					619 Sxs Construction cement
4.					886 Sxs total.
5.					
6.					

* GEOLOGICAL TOPS	ELEVATION Depths	ELEVATION Sub-Sea
Imperial	Spud	+ 129
Canol	3580	-3434
Hume	3826	-3680
Bear Rock	4166	-4020
Dolorme	5746	-5600
Mount Kindle	6735	-6589
O-€ Dolomite	8214	-8068
€-P€	10778	-10632
* All tops taken from logs.		

CORE RECORD

From	To	Rec.	From	To	Rec.
8706	8736	28			

LOG RECORD

Run No.	Type of Log	From	To
1	DILL	1200	10897
1	BHCS-GR-C	1200	10899
1	FDC-GR-C	1200	10900
1	SNP	3600	10900
1	MLC	3600	10898
1	SRS	1200	10899

IAND 52-90 (2) (2-69)

CEMENTING RECORD

CEMENTING RECORD (Plug, Squeeze, etc.)

Date	From	To	Remarks
May 71	10700	10900	110 Sxs Cement + .04% HR4
May 71	8150	8280	110 Sxs Cement + .04% HR4 Felt at 8127'
May 71	6670	6800	90 Sxs Cement Felt at 6613'
May 71	5680	5810	90 Sxs Cement + 2% $CaCl_2$ Felt at 5655'

~~PERFORATING~~ RECORD

Date	From	To	Remarks
May 71	4100	4230	90 Sxs Cement Felt at 4089'
May 71	1140	1260	110 Sxs Cement Felt at 1048'
May 71	Surface		10 Sxs Cement Permanent marker Installed

SERVICING RECORD (Acidizing, Fracing, etc.)

Date	From	To	Remarks

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	May 10/71	0-€ Dolomite	8671	8819	5/90	60	90	4077	4077	418	1441	4152	4127	Rec. 3270' fluid, including Field Readings. 550' water cushion.
1	May 20/71	Bear Rock	5420	5568	5/90	60	90	2555	2503	694	1618	2764	2712	Field Readings. Rec. 200' drillingmud and 2880' salt water.

ANALYSIS

Lab. No.	Sample	From	To	Source	Remarks
	Core #1	8706	8736	0-€ Dolomite	Recovered 28'
D.S.T. #1					
147	Water	8671	8819	845' above tool	Routine salinity
148	Water	8671	8819	285' above tool	Complete analysis
149	Water	8671	8819	100' above tool	Routine salinity
D.S.T. #2					
168	Water	5420	5568	757' above tool	Routine salinity
169	Water	5420	5568	292' above tool	Complete analysis

PRESENT STATUS OF WELL

Oil ..... (Interval.)

Gas ..... (Interval.)

Dry ..Plugged..& Abandoned.....

Susp. .....

Company SHELL CANADA LIMITED

Signed by *

Title MANAGER, FRONTIER DIVISION PRODUCTION

Date

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

File No.

Drilling Authority No. 494

CANADA

DEPARTMENT OF INDIAN AFFAIRS AND NORTHERN DEVELOPMENT
OIL AND MINERAL DIVISION

DEPT. OF INDIAN AFFAIRS & NORTHERN DEVELOPMENT OIL & MINERAL DIVISION
MAY 27 1971
ALBERTA
OIL CONSERVATION ENGINEER
Northwest Territories & Yukon Territory

Application to Abandon a Well [redacted]

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

Name and number of well SHELL ARCTIC RED WEST G-55 Grid 66°50'N, 133°00'W

Location: Unit G Section 55 Longitude 133°09'58.203"

Latitude 66°44'23.139"

From Established Reference Marker Geodetic Station "Thunder"

Universal Well Location Reference Lat. 66.74115°N, Long. 133.16617° W

Permit No 6479 Lease No. NTR -735

SHELL CANADA LIMITED & SHELL EXPLORER LTD. (Permittee, Licensee, Lessee)

Date of commencement of proposed program

OIL, GAS, AND WATER ENCOUNTERED
(Depths)

Oil at

Gas at

Water at 8671-8819' (DST #1); 5420-5568' (DST #2)

Total Depth 10,909 K.B. Date of last operations May, 1971

Present condition of well Plugged and Abandoned

CASING RECORD

	Casing Size O.D. Inches	Weight	Amount	Set At—	Sacks of Cement and Additives	Amount Pulled
1.	20"	53#	52'	52'	85 Sxs Permafrost Cement	
2.						
3.	9 5/8"	36#	38 Jts.	1201'	267 Sxs. Permafrost + 619 Sxs Construction Cement	
4.						
5.						

PROPOSED ABANDONMENT PROGRAM

Plug No.	Plug Position	Geological Formation	Number of Sacks of Cement	Remarks
1	10700-10900	O-Є / Є - PЄ	110	20% Excess
2	8150 - 8280	Mount Kindle/O-Є	110	20% Excess Feel
3	6670 - 6800	Delorme/Mount Kindle	90	20% Excess Feel
4	5680 - 5810	Bear Rock/Delorme	90	20% Excess Feel
5	4100 - 4230	Hume/Bear Rock	110	20% Excess Feel
6	1140 - 1260	Imperial	115	20% Excess Feel
7	Surface		10	Permanently marked Pipe

The following logs have been run DILL, BHCS - GR - C, FDC - GR - C, SNP, MLC, SRS

Other operations proposed

Operations to be carried out by GUSTAVSON Contractor Licence No. 0832

Address 9825 - 60 Ave., Edmonton, Alta. Address Box 880, Calgary, Alta.

Responsible Agent in field D. Brown & R. Schaffrick

Dated at Calgary, Alta., this 26 Day of May 1971

Signed by [signature] Company SHELL CANADA LIMITED

Title Manager, Frontier Div. Prod. Operator's Exploratory Licence No. 108 & 119

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

(For OIL AND MINERAL DIVISION use only)

APPROVAL

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

Confirming oral approval given by Mr. A. C. Anderson on the 22nd May 1971.

Dated May 27, 1971 [signature] Oil Conservation Engineer

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

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

File No.....

Drilling Authority No. 494

CANADA

DEPARTMENT OF INDIAN AFFAIRS AND NORTHERN DEVELOPMENT

RESOURCE MANAGEMENT DIVISION

Application to Amend a Drilling Authority

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

In compliance with the "Canada Oil and Gas Land Regulations", application is hereby made to amend Drilling Authority No. 494, concerning SHELL ARCTIC RED WEST G-55

(Name and Number of Well)

The following amendments are required: ESTIMATED ELEVATION CHANGES:

FROM G.L. 150' To G.L. 129.1'

K.B. 165' K.B. 146.35'

TOTAL DEPTH CHANGE: FROM 8,000 to 11,500'

Reasons for the amendments:

FINAL SURVEY COMPLETED

INCREASED STRATIGRAPHIC CONTROL

Dated at CALGARY, this 6 day of APRIL, 1971

Signed by W. B. Hackman for J.E. Gaja

Title MANAGER, FRONTIER DIV. PROD.

Company SHELL CANADA LIMITED

(For Resource Management Division use only)

APPROVED

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

1. Run 1200 feet of 9 5/8-inch surface casing.
2. All other conditions of approval for Drilling Authority No. 494 apply.

Date April 20, 19 71

Oil Conservation Engineer

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

IAND 52-90-3 (3-67)

WELL PROGNOSIS

TIGHT HOLE

EXPLORATION PROGRAM-WEST GLACIER BLOCK N.W.T., WINTER 1971

WELL:	Shell Arctic Red West G-55
LOCATION:	Lat. 66° 44' 28.139" N. Long. 133° 09' 56.203" W.
ELEVATION:	G.L. + 129 (Est.) K.B. + 145 (Est.)
TOTAL DEPTH:	11,500'

A. Summary of Drilling Program

(Refer to Drilling Operations Program for details)

(i) Hole and Casing Program

(a) Auger drill 24" conductor hole to 55'

(b) Set 55' of 20" 53# conductor pipe

(c) Install 12" casing Flange and 12" Series 900 Hydril

(d) Drill 12 1/4" hole to 1200'

(e) Set 9 5/8" 36# K-55 casing

(f) Install 10" Series 900 casing bowl and 10" Series 900 BOP stack (Series 900 BOP Equipment restricts total depth to 12,000' under new drilling regulations).

(g) Drill 8 3/4" hole to T.D.

(ii) Deviation:

(a) Target area for all objective zones (see attachment)

(b) Surveys must be taken at least every 500'

(iii) Mud Properties:

Ensure that mud properties are such that the following criteria are satisfied.

(a) Mud is capable of forming good quality mud cake for definition of permeable zones.

(b) Representative and good quality samples are obtained.

(c) Hole conditions are maintained such that there is negligible fill to accomodate " behind the bit" evaluation procedures (i.e. coring, testing and logging)

(d) Below 3000' maintain a maximum 8.0 cc water loss to elimiate excessive invasion which is detrimental to good reservoir evaluation by electric logs.

(e) Report Salinity of mud system daily with morning report.

B. Evaluation Program

(i)

Formation Tops	Symbol	Lithology	Depth
Imperial	Dim	Shale, silt and sand	Probably spud in Imperial
Canol	Dca	Chert and shale	3700'
Hume	Dh	Limestone and shale	3900'
Bear Rock	Dbr	Upper limestone-, and basal dolomite interval	4240'
Delorme	D/S	Upper-, and basal shale sand member Middle dolomite member	5900'
Mount Kindle	S-OK	Dolomite and chert	6850'
Dolomite	O-€	Dolomite and Chert	8200'
Cambro-Precambrian	€-PE	Undifferentiated	10900'
T.D.			11500'

(ii) Samples:

(a) One large (8" x 12") unwashed, Plastic Lined bag every 10' from surface to T.D.

(b) One small (4" x 6") semi-washed, Non Lined bag every 10' from surface to T.D.

(c) Two washed and dried plastic vial cuts every 10' from surfact to T.D.

(d) One semi-washed canned sample every 30' from surface to T.D. for the Geological Survey of Canada.

(iii) Cores:

(a) Cut one 30' core whenever reservoir quality rock is encountered.

(b) Be prepared to cut approximately 100' of core at unspecified intervals for paleontological and/or lithological purposes. Instructions will be obtained from Frontier Division Production General or Petrophysical Section.

(iv) Drill Stem Tests:

(a) After encountering reservoir quality rock in any of the above objectives, a conventional off-bottom drill stem test may be run before drilling ahead. (Contact Frontier Division Office)

(b) Additional tests will be carried out where warranted after reaching final total depth and logs have been run.

NOTE:

Lynes United will provide testing tools and personnel from their base at Kaps Transport's camp in Inuvik.

(v) Logs:

Tool	Interval	Remarks
DILL	T.D. to surface casing	2" and 5" scales
BHCS-GR-C (integrated)	T.D. to surface casing	2" and 5" scales 40-70-100 sensitivity
FDC-GR	T.D. to surface casing	2" and 5" scales
SNP	T.D. to surface casing	2" and 5" scales
MLC	T.D. to surface casing	2" and 5" scales

A seismic reference survey will be shot at T.D. after the above logs have been run.

NOTE:
1. An intermediate logging run may be required approximately 30 days after spud.
2. Obtain 5 field prints fo each log and have them flown to Calgary as soon as possible.

W.R.C.
K.R.M.
HF

RECOMMENDED _____ APPROVED _____

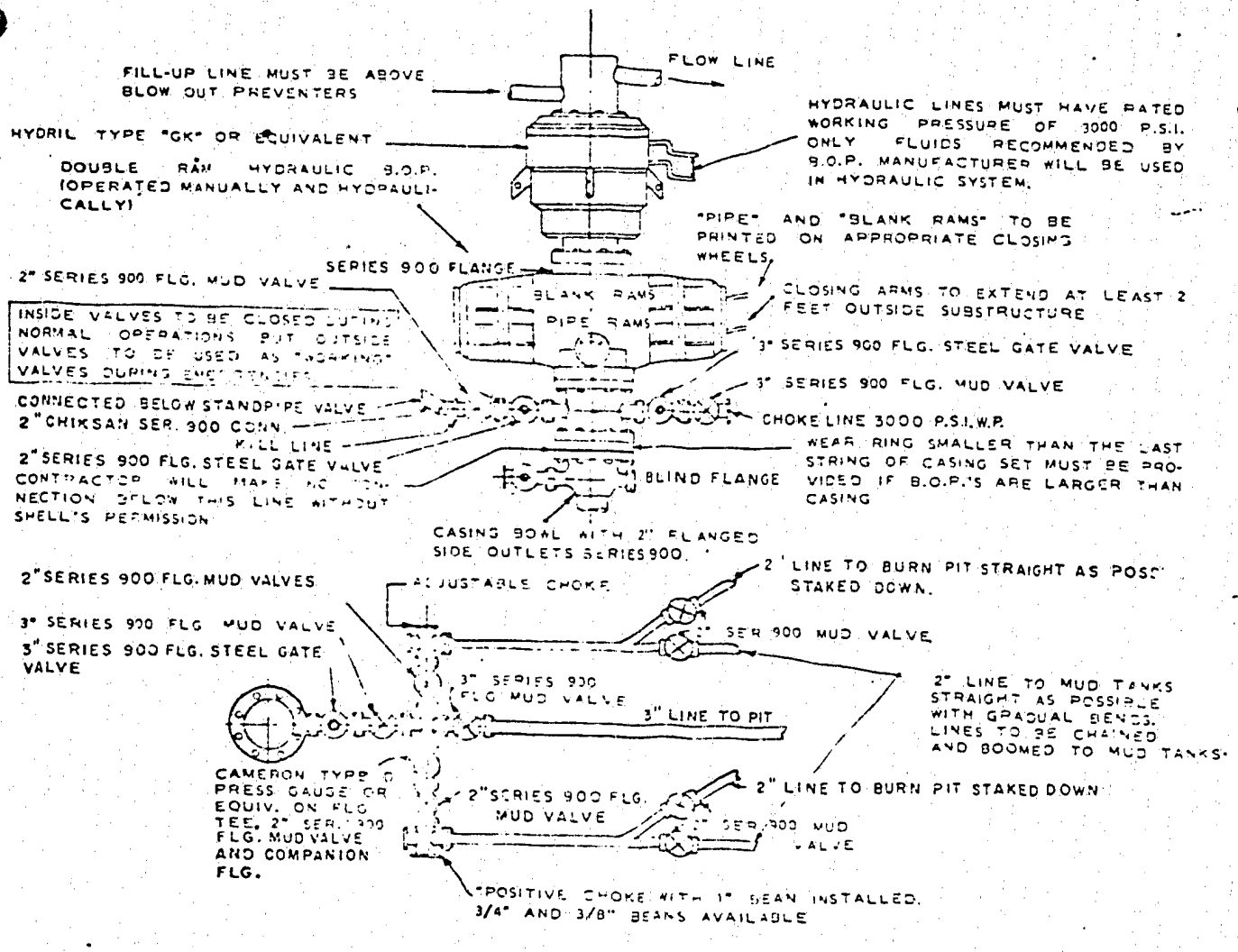
RECOMMENDED _____ DATE _____

RECOMMENDED _____ APPROVED _____

RECOMMENDED _____ DATE _____

SHELL ARCTIC

WELL RED WEST G-55 DATE _____ CONTRACTOR GUSTAVSON



. THESE CHOKE DETAILS ARE INTENDED TO OUTLINE THE BASIC CHOKE MANIFOLD REQUIREMENTS. NOT THE EXACT MANNER OF HOOK-UP

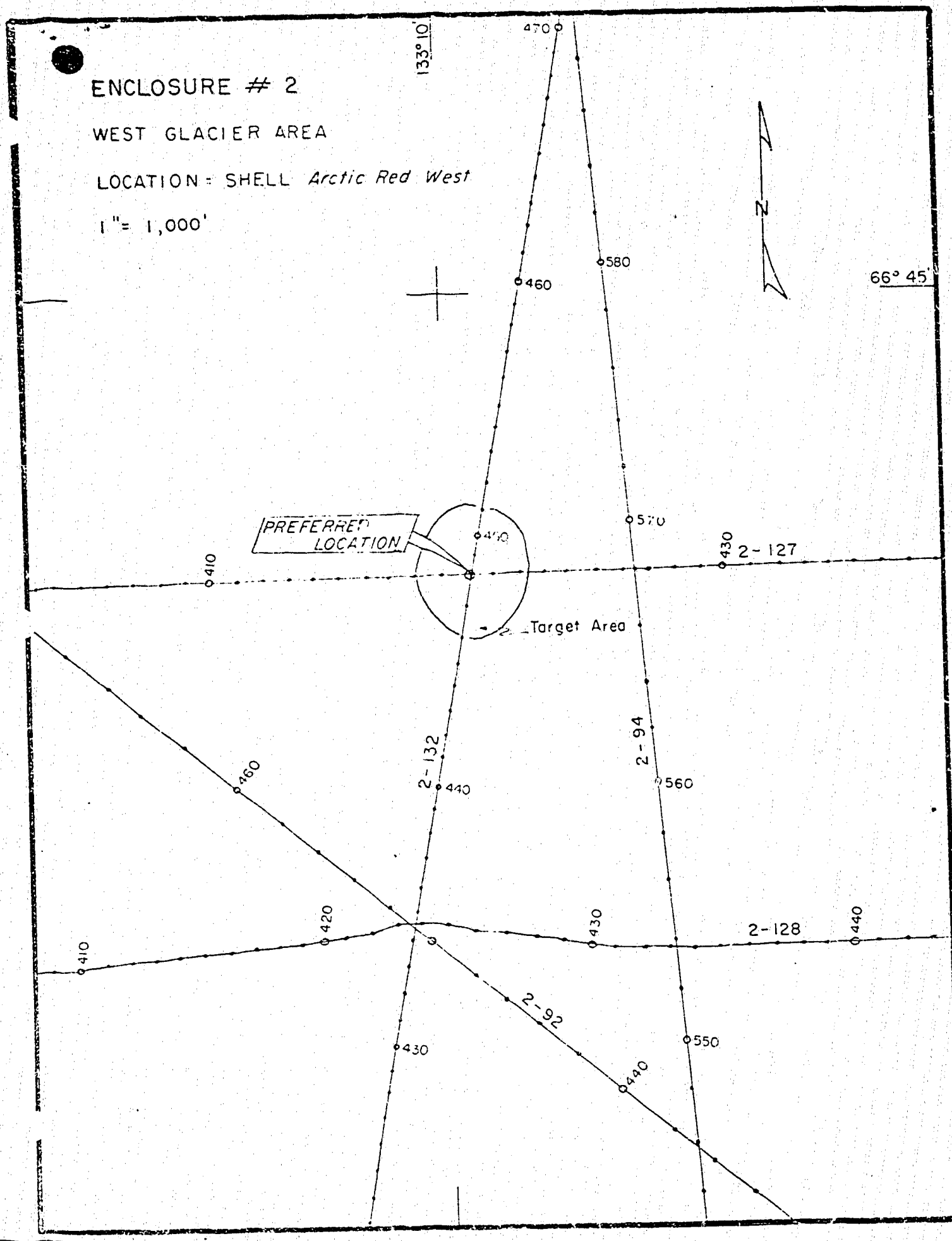
NOTES:

1. KELLY COCK MUST BE USED - MIN. W.P. 3000 PSI.
2. SELF SEALING RING GASKETS MUST BE USED.
3. IF BOP HAS FLANGED SIDE OUTLET IT MUST BE EQUIPPED WITH A SERIES 900 STEEL GATE VALVE OR COMPANION BLIND FLANGE. BOP'S WITH SCREWED SIDE OUTLETS NOT ACCEPTABLE.
4. PRESSURE ACCUMULATOR UNIT AND TWO NITROGEN CYLINDERS FOR EMERGENCY TO BE LOCATED 100 FEET FROM WELL IN HEATED HOUSE. PRESSURE IN NITROGEN CYLINDERS SHALL BE MAINTAINED AT 1500 PSI OR MORE.
5. BOP CONTROLS MUST BE PROVIDED ON THE FLOOR AND AT THE ACCUMULATOR.
6. CHOKE MANIFOLD VALVES MUST BE EASILY ACCESSIBLE.
7. NO THREADED OR BELOED CONNECTIONS TO BE USED FROM DRILLING SPOOL OUT TO CHOKES.
8. A SINGLE CHOKE MANIFOLD IS ACCEPTABLE FOR COMPLETION WORK.
9. BOP'S AND ASSOCIATED EQUIPMENT MUST BE TESTED IN ACCORDANCE WITH THE FOLLOWING PROCEDURES PRIOR TO DRILLING OUT CASING - PRESSURE TEST ALL BLOWOUT CONTROL EQUIPMENT INCLUDING KELLY COCK WITH WATER TO 70% OF RATED BURST RESISTANCE OF CASING STRING 2400 PSI MAX.
DAILY TESTS - CHECK CLOSING AND OPENING OF BOP'S WITH ACCUMULATOR AND WORK KELLY COCK.
15 DAY TESTS - PRESSURE TEST KELLY COCK FROM BELOW WITH WATER TO 2400 PSI.
- CLOSE HYDRIL WITHOUT PIPE IN HOLE.
- RETIGHTEN ALL FLANGES IN BOP STACK AND CHOKE MANIFOLD.
SUBSEQUENT TESTS - APPROXIMATELY EVERY 45 DAYS, AND AS DIRECTED BY SHELL, PRESSURE TEST CASING AND ALL BLOWOUT EQUIPMENT WITH WATER TO 67 PER CENT OF RATED BURST RESISTANCE OF CASING STRING (MAX. 2400 PSI) FOR A MINIMUM OF 15 MINUTES USING A DEMCO TESTER OR OTHER PACKER ABOVE THE SHOE.

SHELL CANADA LIMITED
CALGARY E. & P.
PRODUCTION DEPT - MECHANICAL ENG SECT.

B.O.P. CLASSIFICATION NO.3 SERIES 90
DRILLING TO 15,000 FT.
COMPLETION TO 12,000 FT.

DESIGNED -		SCALE - N.T.S
DRAWN	CHKD -	DATE -
APPR		A-XX-D15-3642


ENCLOSURE # 2
WEST GLACIER AREA
LOCATION = SHELL Arctic Red West
1" = 1,000'
133° 10'
66° 45'
N
PREFERRED LOCATION
Target Area
2-127
2-128
2-132
2-94
2-92
410
420
430
440
460
470
550
560
570
580

POOR COPY

File No.....
Drilling Authority No. 494

CANADA

DEPARTMENT OF INDIAN AFFAIRS AND NORTHERN DEVELOPMENT
RESOURCE MANAGEMENT DIVISION

Application to Amend a Drilling Authority

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

In compliance with the "Canada Oil and Gas Land Regulations", application is hereby made to amend Drilling Authority No. 494, concerning Shell Arctic Red West J-55

(Name and Number of Well)

The following amendments are required:

Change of location from: Lat. 66° 44' 35.317" N.
Long. 133° 09' 52.417" W.
to: Lat. 66° 44' 28.139" N.
Long. 133° 09' 58.203" W.

Change of universal well location reference. From: Lat. 66.74314°N Long. 133.16456° W. to Lat. 66.74115° N., Long. 133.16617° W.

Reasons for the amendments:

Final survey for this well has been completed.

Dated at Edmonton, Alberta, this ..... day of February, 1971.

Signed by P.F. Blum (P.F. Bens) for

Title Manager, Edmonton Division Production

Company Shell Canada Limited

(For Resource Management Division use only)

APPROVED

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

CHANGE OF UNIT: From Unit 'J' to Unit 'G'

CHANGE OF UNIQUE WELL IDENTIFIER: From 300J556650133000 to 300G556650133000

CHANGE OF WELL NUMBER: From J-55 to G-55.

Date 22nd February, 19 71

Oil Conservation Engineer

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

IAND 52-90-3 (3-67)

SHELL CANADA LIMITED

PLAN SHOWING SURVEY

OF

SHELL *Arctic Red West G-55*

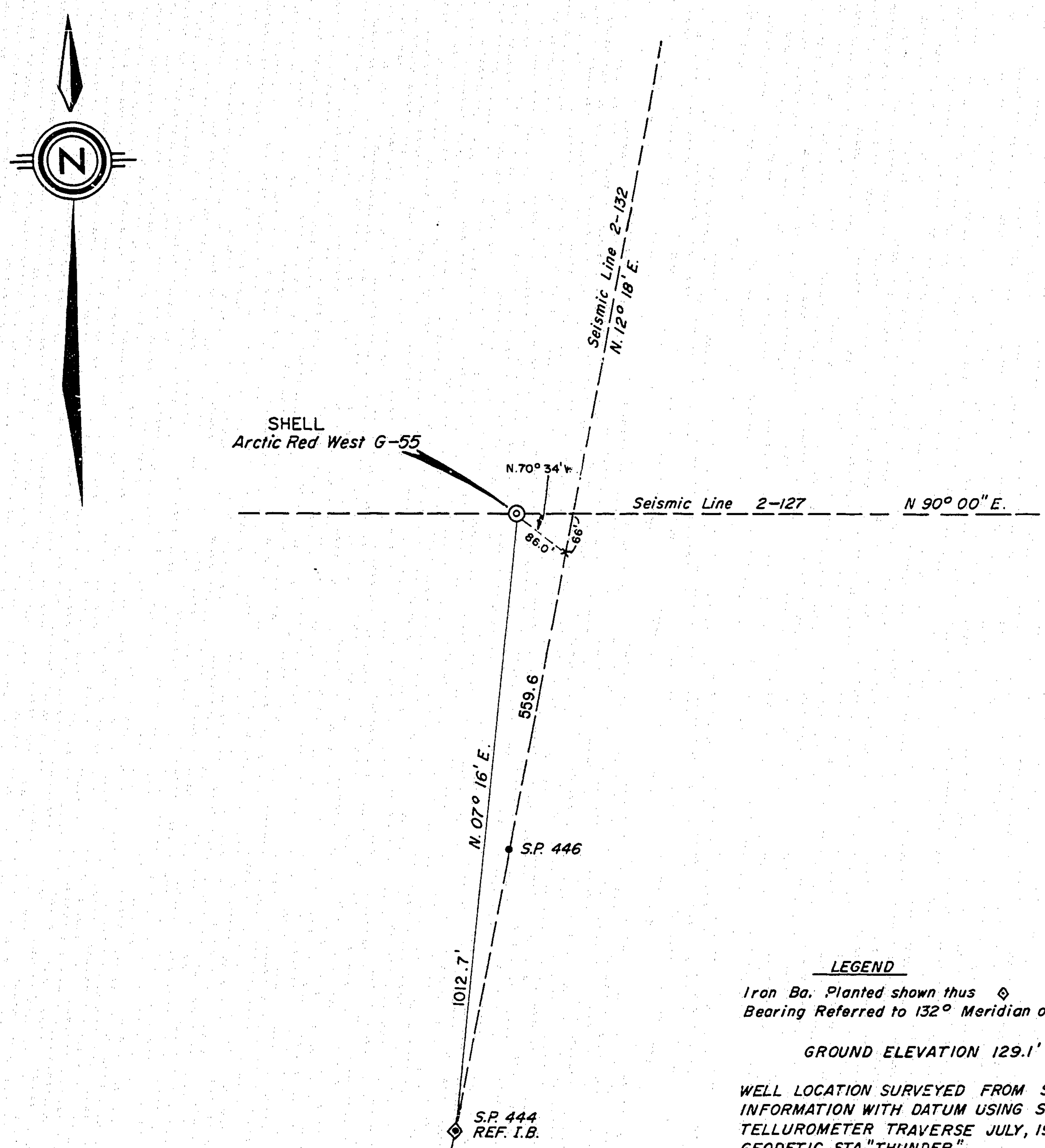
IN

UNIT G SECTION 55 GRID AREA 66°50', 133°00'

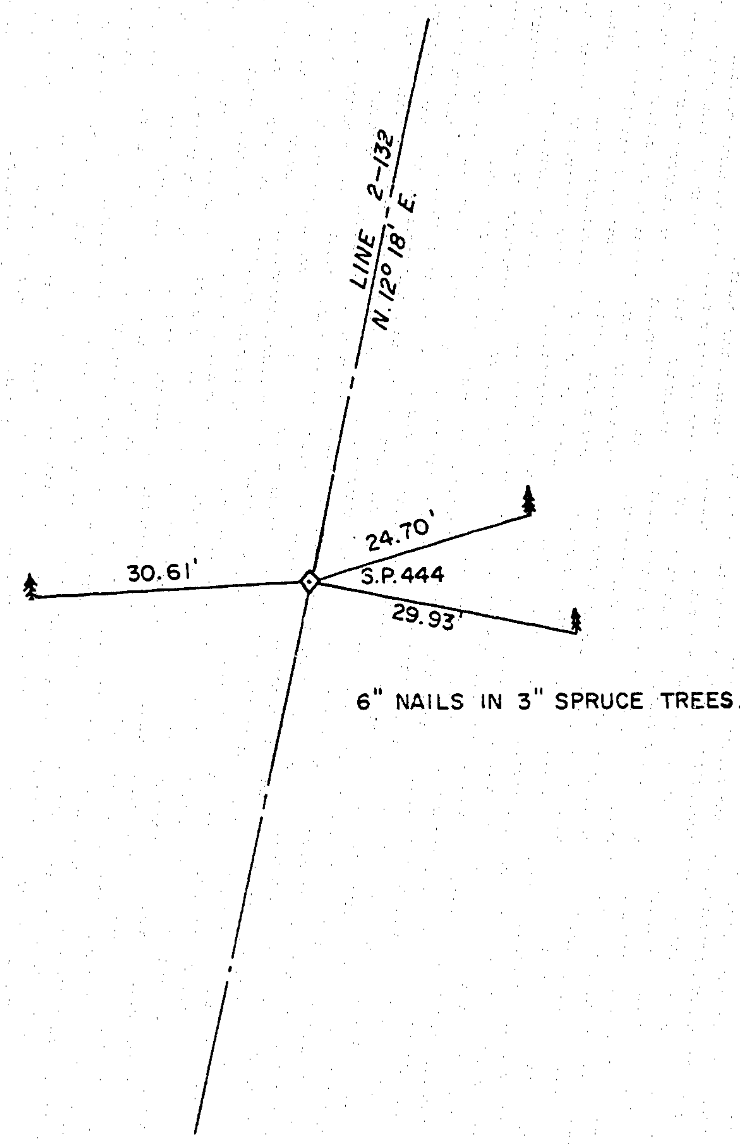
LATITUDE 66° 44' 28.139" LONGITUDE 133°09' 58.203"

FEB. 1971.

Scale : 1" = 200'



REF. I.B. Scale: 1" = 20'



LEGEND

Iron Ba. Planted shown thus ◇

Bearing Referred to 132° Meridian of Longitude.

GROUND ELEVATION 129.1'

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

I certify that the survey represented by this plan is correct and true to the best of my knowledge and was completed on the 23rd day of January, 1971.

[signature] A.L.S.

Drilling Authority No. 496

Project No.

File No.

CANADA

DEPARTMENT OF INDIAN AFFAIRS AND NORTHERN DEVELOPMENT
OIL AND MINERAL DIVISION

DEPARTMENT OF INDIAN AFFAIRS & NORTHERN DEVELOPMENT OIL & MINERAL DIVISION — JAN 21 1971 — CALGARY 21, ALBERTA — OIL CONSERVATION ENGINEER — Northwest Territories & Yukon Territory

Application for a Drilling Authority

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

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

Name and number of well: Shell Arctic Red West J-55

Location: Unit: J Section: 55 Grid: (66°50'N. 133°00'W)

Latitude: 66°44' 35.317"N. Longitude: 133°09' 52.417"W.

Unique Well Identifier: 300J55C50133000

Universal Well Location Reference: Lat. 66.74314°N. Long. 133.16456°W.

Elevation: Ground: 150' (Est.) K.B.: 165' (Est.) feet above sea-level.

Well is expected to produce from: Bear Rock formation at a depth of about: 5150' feet. Expected total final depth: 8,000

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

Permit No.: 6479 Lease No.: Acreage: 50,604

Permittee, licensee, or lessee: Shell Canada Limited & Shell Explorer Ltd.

Exploratory Licence No.: 108 116

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

Petroleum and natural-gas rights owned by: Crown

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

Casing Size O.D. (Inches)	Weight (Lb./Ft.)	Grade	New or Used	Estimated Depth	Sacks of Cement
20" Cond. Pipe	53#			40'	Cement to Surface.
1. 9 5/8"	36#	K-55	New	900'	Cement to Surface (approx. 600 sacks)
2.					
3.					
4.					
5.					

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

10" Hydril, Double Ram (10") BOP's

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

Responsible agent of applicant:— Contractor's Business Licence No. 0832

At well: D. Brown At registered office: D.S. Fleming

Address: Box 186, Edmonton, Alta. Address: Box 186, Edmonton, Alberta

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

Dated at Edmonton, Alberta, this 19th day of January 19 71

Signed by: P.D. Blum (P.J. Benn) for Company: Shell Canada Limited

Title: Manager, Edmonton Div. Prod. Operator's Licence No. 108

(For Oil and Mineral Division use only)

APPROVED

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

1. Copies of this Drilling Authority shall be exhibited at the Drilling Rig in both the Doghouse and the Drilling Foreman's Office between spud and rig release dates.
2. The Company will submit to this office, on Tuesday of each week, the latest reports

Please see over page

Dated 21st January 19 71 Oil Conservation Engineer

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

IAND 52-90-1 (3-69)

received by radio on the progress of the well.

3. During well drilling and testing operations, every effort shall be made to ensure that drilling fluids, chemicals and wastes shall be disposed of or contained in a manner that will prevent the contamination of adjacent vegetation and surface or sub-surface waters.

4. We draw your attention to Sections 95 and 96 of the Canada Oil and Gas Land Regulations.

5. Additional strings of casing are to receive the approval of the Oil Conservation Engineer prior to running.

B.H.J. Thoms, Oil Conservation Engineer

WELL PROGNOSIS

TIGHT HOLE

EXPLORATION PROGRAM - WEST GLACIER BLOCK N.W.T., WINTER 1971

WELL: Shell Arctic Red West J-55

LOCATION: Lat. 66° 44' 35.317" N.
Long. 133° 09' 52.417" W.

ELEVATION: G.L. + 150(Est.)
K.B. + 165(Est.)

TOTAL DEPTH: 8,000'

A. Summary of Drilling Program

(Refer to Drilling Operations Program for details)

(i) Hole and Casing Program:

(a) Auger drill 24" conductor hole to 40'

(b) Set 40' of 20" 53# conductor pipe

(c) Install 10" casing bowl and 10" Series 900 Hydril

(d) Drill 8 3/4" hole to 900', ream to 13 3/4"

(e) Set 9 5/8" 36# K-55 casing

(f) Install 10" Series 900 casing bowl and 10" Series 900 BOP stack

(g) Drill 8 3/4" hole to T.D.

(ii) Deviation:

(a) Target area for all objective zones (see attachment)

(b) Surveys must be taken at least every 250'

(iii) Mud Properties:

Ensure that mud properties are such that the following criteria are satisfied.

(a) Mud is capable of forming good quality mud cake for definition of permeable zones.

(b) Representative and good quality samples are obtained.

(c) Hole conditions are maintained such that there is negligible fill to accomodate "behind the bit" evaluation procedures (i.e. coring, testing and logging)

(d) Below 3000' maintain a maximum 8.0 cc water loss to eliminate excessive invasion which is detrimental to good reservoir evaluation by electric logs.

B. Evaluation Program

(i)

Formation Tops	Symbol	Lithology	Depth
Imperial	Dim	Shale, silt and sand	Probably spud in Imperial
Canol	Dca	Chert and shale	3600'
Hume	Dh	Limestone and shale	3900'
Bear Rock	Dbr	Upper Limestone-, and basal dolomite interval	4240'
Delorme	D/S	Upper-, and basal shale sand member Middle dolomite member	5900'
Mount Kindle	S-Ok	Dolomite and chert	6900'
T.D.			8000'

(ii) Samples:

(a) One large (3" x 12") unwashed, Plastic Lined bag every 10' from surface to T.D.

(b) One small (4" x 6") semi-washed, Non Lined bag every 10' from surface to T.D.

(c) Two washed and dried plastic vial cuts every 10' from surface to T.D.

(d) One semi-washed canned sample every 30' from surface to T.D. for the Geological Survey of Canada.

(iii) Cores:

(a) A 30' core will be cut whenever reservoir quality rock is encountered.

(b) Be prepared to cut approximately 100' of core at unspecified intervals for paleontological and/or lithological purposes. Instructions will be obtained from General Section.

(iv) Drill Stem Tests:

(a) After obtaining a core containing reservoir quality rock a conventional off-bottom drill stem test will be run before drilling ahead.

(b) Additional tests will be carried out where warranted after reaching final total depth and logs have been run.

NOTE:

Lynes United will provide testing tools and personnel from their base at Kaps Transport's camp in Inuvik.

(v) Logs:

Tool	Interval	Remarks
DILL	T.D. to surface casing	2" and 5" scales
BHCS-GR-C (integrated)	T.D. to surface casing	2" and 5" scales 40-70-100 sensitivity
FDC-GR	T.D. to surface casing	2" and 5" scales
SNP	T.D. to surface casing	2" and 5" scales
MLC	T.D. to surface casing	2" and 5" scales

A seismic reference survey will be shot at T.D. after the above logs have been run.

NOTE:

Obtain 6 field prints of each log and have them flown to Edmonton as soon as possible.

RECOMMENDED _____ APPROVED _____

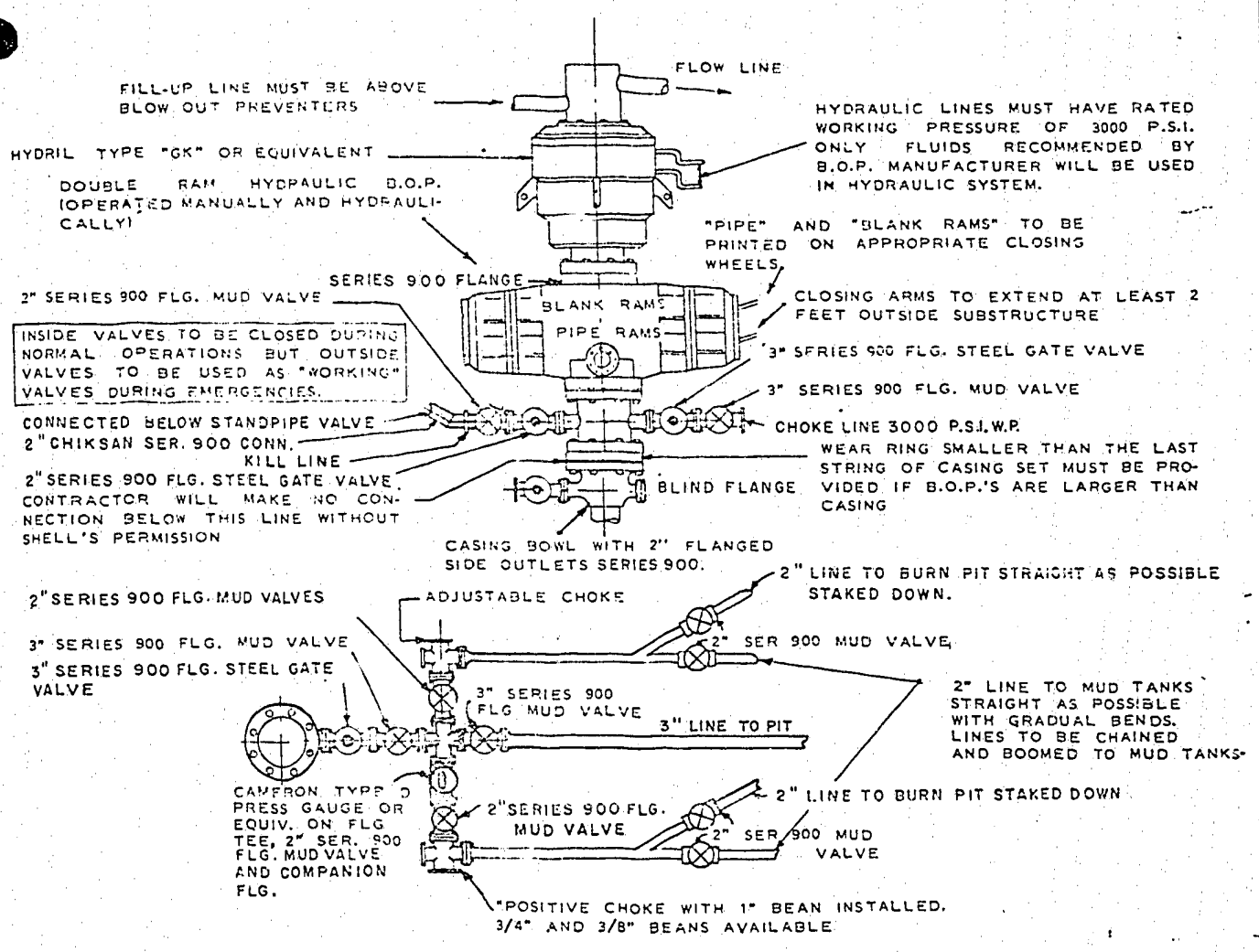
RECOMMENDED _____ DATE _____

RECOMMENDED _____ APPROVED _____

RECOMMENDED _____ DATE _____

SHELL ARCTIC

WELL RED WEST J-55 DATE JAN. 19/71 CONTRACTOR GUSTAVSON



. THESE CHOKE DETAILS ARE INTENDED TO OUTLINE THE BASIC CHOKE MANIFOLD REQUIREMENTS. NOT THE EXACT MANNER OF HOOK-UP

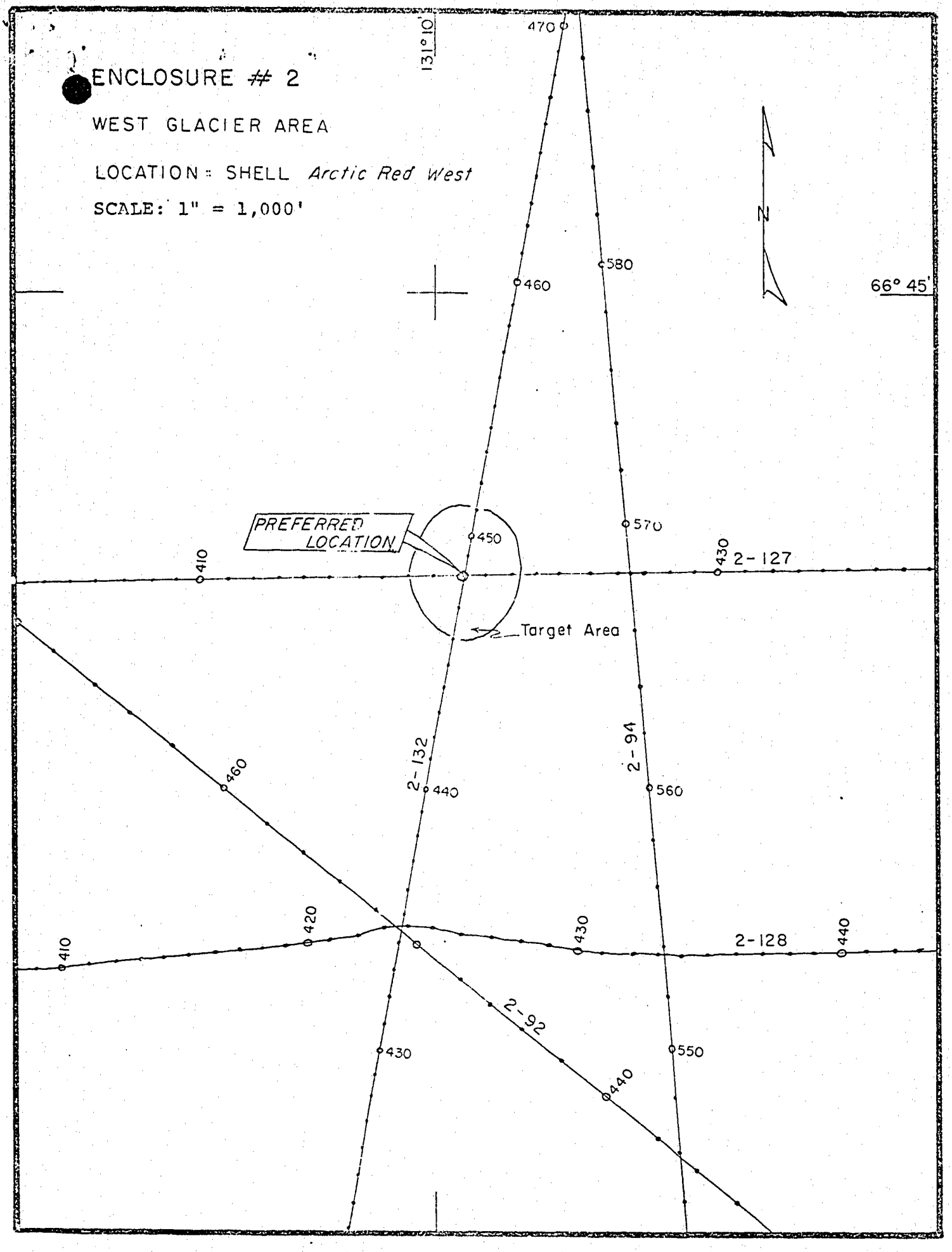
NOTES:

1. KELLY COCK MUST BE USED . MIN. W.P. 3000 PSI.
2. SELF SEALING RING GASKETS MUST BE USED.
3. IF BOP HAS FLANGED SIDE OUTLET, IT MUST BE EQUIPPED WITH A SERIES 900 STEEL GATE VALVE OR COMPANION BLIND FLANGE. BOP'S WITH SCREWED SIDE OUTLETS NOT ACCEPTABLE.
4. PRESSURE ACCUMULATOR UNIT AND TWO NITROGEN CYLINDERS FOR EMERGENCY TO BE LOCATED 100 FEET FROM WELL IN CLEARED HOUSE. PRESSURE IN NITROGEN CYLINDERS SHALL BE MAINTAINED AT 1500 PSI OR MORE.
5. BOP CONTROLS MUST BE PROVIDED ON THE FLOOR AND AT THE ACCUMULATOR.
6. CHOKE MANIFOLD VALVES MUST BE EASILY ACCESSIBLE.
7. NO THREADED OR SCREWED CONNECTIONS TO BE USED FROM DRILLING SPOOL TO CHOKES.
8. A SINGLE CHOKE MANIFOLD IS ACCEPTABLE FOR COMPLETION WORK.
9. BOP'S AND ASSOCIATED EQUIPMENT MUST BE TESTED IN ACCORDANCE WITH THE FOLLOWING PROCEDURES:
   PRIOR TO DRILLING OUT CASING - PRESSURE TEST ALL BLOWOUT CONTROL EQUIPMENT (INCLUDING KELLY COCK) WITH WATER TO 75% OF RATED BURST RESISTANCE OF CASING STRING (2400 PSI MAX.).
   DAILY TESTS - CHECK CLOSING AND OPENING OF BOP'S WITH ACCUMULATOR AND WORK KELLY COCK.
   15 DAY TESTS - PRESSURE TEST KELLY COCK FROM BELOW WITH WATER TO 2400 PSI.
   . CLOSE HYDRIL WITHOUT PIPE IN HOLE.
   . RETIGHTEN ALL FLANGES IN BOP STACK AND CHOKE MANIFOLD.
   SUBSEQUENT TESTS - APPROXIMATELY EVERY 45 DAYS, AND AS DIRECTED BY SHELL, PRESSURE TEST CASING AND ALL BLOWOUT EQUIPMENT WITH WATER TO 67 PER CENT OF RATED BURST RESISTANCE OF CASING STRING (MAX. 2400 PSI) FOR A MINIMUM OF 15 MINUTES USING A DEMCO TESTER OR OTHER PACKER ABOVE THE SHOE.

SHELL CANADA LIMITED
CALGARY E. & P.
PRODUCTION DEPT - MECHANICAL ENG. SECTION

B.O.P. CLASSIFICATION NO.3. SERIES 900
DRILLING TO 15,000 FT.
COMPLETION TO 12,000 FT.

DESIGNED -		SCALE - N.T.S.
DRAWN	CHKD. - WBS -	DATE - 10/63
APPR		A-XX-D15-3642


ENCLOSURE # 2
WEST GLACIER AREA
LOCATION: SHELL Arctic Red West
SCALE: 1" = 1,000'
131° 10'
66° 45'
N
470
460
580
570
450
410
430
2-127
PREFERRED LOCATION
Target Area
2-132
2-94
440
560
460
420
410
430
2-128
440
2-92
430
550
440

CANADA

File No. .....
Drilling Authority No. ...494.....

DEPARTMENT OF INDIAN AFFAIRS AND NORTHERN DEVELOPMENT

OIL AND MINERAL DIVISION

WELL-SITE INSPECTION REPORT

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

TO: The Oil Conservation Engineer:

RE: SHELL ARCTIC RED WEST G-55 66-50-137-00

Location: 66.74115°N., 133.16617°W. Status: D&A 1971

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

The location is in satisfactory/unsatisfactory condition. TD 10,900'

The following items require attention:

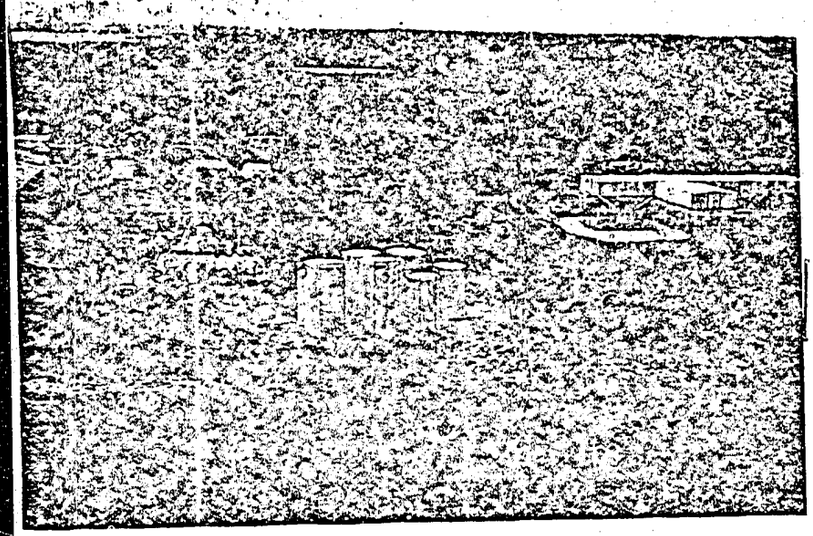
1. Remove timbers from around cellar and backfill.
2. Identifier plate must be minimum of 4' above ground level.
3. Backfill sump
4. Bury all steel drums, scrap iron, plastic sheeting and other junk.
5. Use welded bead for identifier not paint.
6. Paint identifier pipe and plate fluorescent orange.

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

No cleanup done

Rig and equipment still on lease.

Cat on lease.



Inspected by M. D. Thomas
District 2

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

16

WELL HISTORY REPORT
SHELL ARCTIC RED WEST G-55

SHELL CANADA LIMITED

WELL HISTORY REPORT

SHELL ARCTIC RED WEST G-55

TABLE OF CONTENTS

SECTION I - SUMMARY OF WELL DATA

(a) Well Name and Number

Shell Arctic Red West G-55

(b) Permittee

Shell Canada Limited
P.O. Box 880
Calgary, Alberta
and
Shell Explorer Limited

(c) Name Of Operator

Shell Canada Limited
P.O. Box 880
Calgary, Alberta

(d) Location

Unit G, Section 55, Grid 66°50'N, 133°00'W
Latitude: 66°44'28.139"N
Longitude: 133°09'58.203"W
Universal Well Location Reference:
Lat. 66.74115°N
Long. 133.16617°W
Unique Well Identifier: 300G556650133000

(e) Permit Number

6479

(f) Drilling Contractor

Gustavson Drilling (1964) Ltd. Rig No. 11-Rotary

(g) Drilling Authority Number

Drilling Authority No. 494
Date Issued: Jan. 21, 1971

(h) Classification

Wildcat

(i) Elevation

Ground Level: 129.1'
Kelly Bushing: 146.35'

(j) Date Spudded

10:00 P.M. March 31, 1971

(k) Date Completed Drilling

1:15 A.M. May 18, 1971

(l) Total Depth

10,900' K.B. - Driller
10,901' K.B. - Logger

(m) Well Status

Dry & Abandoned

(n) Rig Released

12:00 (Midnight) May 22, 1971

(o) Hole Sizes

24" to 52' G.L.
12 1/4" to 1201' K.B.
8 3/4" to 10,900' K.B.

(p) Casing

20" 53# Conductor pipe run to 52' G.L.
Cemented with 85 sacks of permafrost cement.

9 5/8", New K-55, 36#
Surface casing landed at 1201' K.B.
Cement with 267 sacks of permafrost
cement and 619 sacks of construction cement.

SECTION II - GEOLOGICAL SUMMARY

a) Formation Tops

Formation	Sample Tops	Log Tops
Imperial	Surface	Surface
Canol	3640	3580
Hume	3870	3826
Bear Rock	4260	4166
Delorme	5810	5746
Mount Kindle	6730	6735
O - Є Dolomite	8200	8214
Є - P Є	10785	10778

b) Cored Intervals

Core #1:
8706'-8736' (O - Є Dolomite Fm.) Rec. 28'

c) Core Description

Core #1: Dolomite, light to medium Grey, coarse grained, microfractures infilled with Calcite, good porosity.

Coring Times

Depth	Min./Ft.
8706	3
07	3
08	6
09	6
10	7
11	6
12	6
13	5
14	7
15	6
16	6
17	7
18	8
19	8
20	8
21	7
22	8
23	6
24	7
25	

Coring Times ... con't.

Depth	Min./Ft.
8726	6
27	6
28	7
29	7
30	7
31	8
32	7
33	7
34	8
35	7
36	9

(d) Sample Description

0 - 570	Shale - Siltstone	Interbeds of siliceous sandstone and traces of pyrite and glauconite.
570 - 780	Sandstone	Silty, argillaceous, siliceous to calcareous, unconsolidated to hard, pyritic. Minor shale and siltstone interbeds.
780 - 1620	Shale - Siltstone	Pyritic in part. Rare interbeds of silty sandstone.
1620 - 3570	Shale - Sandstone	Interbedded silty shale and siliceous to calcareous, silty sandstone.
3570 - 3870	Shale	Silty, pyritic, trace of black chert. Minor dolomite in basal 100 feet.
3870 - 4280	Shale - Limestone	Interbedded silty shale and argillaceous, microcrystalline to chalky limestone. Traces of pyrite and calcite.
4280 - 4980	Limestone	Medium to dark brown, microcrystalline, slightly argillaceous. Minor calcite interbeds of microcrystalline to sucrosic dolomite.
4980 - 5140	Limestone - Dolomite	Interbeds of limestone and dolomite as above. Traces of calcite and pyrite.
5140 - 5450	Limestone	Buff to black, microcrystalline, slightly argillaceous. Trace of calcite.
5350 - 5450	Limestone	Microcrystalline and microcrystalline to chalky, buff to black, slightly argillaceous.
5450 - 5820	Limestone	Buff to dark brown microcrystalline and buff microcrystalline to sucrosic. Clean to moderately argillaceous, pyritic in part.

5820 - 6050	Limestone - Dolomite	White to dark brown microcrystalline to sucrosic, and microcrystalline to chalky, slightly argillaceous limestone. Light grey microcrystalline dolomite. Trace of pale geen shale.
6050 - 6850	Dolomite	Microcrystalline, clean to slightly argillaceous dolomite with thin limestone interbeds throughout last 500 feet of the interval. Trace of calcite over entire interval.
6850 - 7900	Dolomite	Light grey to black, microcrystalline, moderately argillaceous, very hard. Traces of calcite and chert with calcite content increasing toward basel portion of the interval.
7900 - 8250	Dolomite - Limestone	Microcrystalline dolomite with interbeds of microcrystalline to chalky limestone. Moderately argillaceous grading to clean in basal 100 feet. Traces of calcite and chert.
8250 - 10770	Dolomite	Microcrystalline, slightly argillaceous. Vuggy porosity throughout interval.
10770 - 10900	Shale - Siltstone	Pale green, grey, and brick red shales, brick red siltstone. Bands of pale green and clear to pink quartizite. Trace siliceous, brick red sandstone. Trace mascovite.

Total Depth = 10,900'

(e) Paleontological Determinations

Nil

SECTION III

ENGINEERING SUMMARY

NOMENCLATURE (Definition of Symbols)

Q	=	average production rate during test, bbls./day
Q_g	=	measured gas production rate during test, MCF/day
k	=	permeability, md
h	=	net pay thickness, ft. (when unknown, test interval is chosen)
μ	=	fluid viscosity, centipoise
Z	=	compressibility factor
T_f	=	reservoir temperature, ° Rankine
m	=	slope of final SIP buildup plot, psig/cycle ($psig^2$/cycle for gas)
b	=	approximate radius of investigation, feet
r_w	=	wellbore radius, feet
t_o	=	total flowing time, minutes
P_o	=	Extrapolated maximum reservoir pressure, psig
P_f	=	final flowing pressure, psig
P.I.	=	productivity index, bbls./day/psi
$P.I._t$	=	theoretical productivity index with damage removed, bbl./day/psi
D.R.	=	damage ratio
E.D.R.	=	estimated damage ratio
AOF	=	absolute open flow potential, MCF/D
AOF_t	=	theoretical absolute open flow if damage were removed
$\bar{Z}$	=	subsea depth
W	=	water gradient based on salinity
H_w	=	potentiometric surface

In making any interpretation, our employees will give Customer the benefit of their best judgment as to the correct interpretation. Nevertheless, since all interpretations are opinions based on inferences from electrical, mechanical or other measurements, we cannot, and do not, guarantee the accuracy or correctness of any interpretations, and we shall not be liable or responsible, except in the case of gross or wilful negligence on our part, for any loss, costs, damages or expenses incurred or sustained by Customer resulting from any interpretation made by any of our agents or employees.

DEFINITION OF SYMBOLS

Recorder Depth 8681 ft. Subsea depth ..... ft. Ticket No. 2934 Hour Recorder No. 5811

t_o = 5 Mins. Initial Shut-In Pressure				Second Flow Pressure		t_o = 95 Mins. Final Shut-In Pressure			
Time, Min. Ø	$\frac{t_o + Ø}{Ø}$	PSIG	PSIG² ÷10⁶ (Gas)	Time Defl. .000"	PSIG	Time, Min. Ø	$\frac{t_o + Ø}{Ø}$	PSIG	PSIG² ÷10⁶ (Gas)
0	-----	642				0	-----[1]	1464	
5	2.000	3611				9	11.556	3538	
10	1.500	3919				18	6.278	3838	
15	1.333	4003				27	4.518	3932	
20	1.250	4035				36	3.638	3977	
25	1.200	4051				45	3.111	4008	
30	1.167	4061				54	2.759	4025	
35	1.143	4068				63	2.508	4033	
40	1.125	4071				72	2.319	4045	
45	1.111	4073				81	2.172	4056	
50	1.100	4076				90	2.056	4058	
55	1.091	4078							
60	1.083	4081							

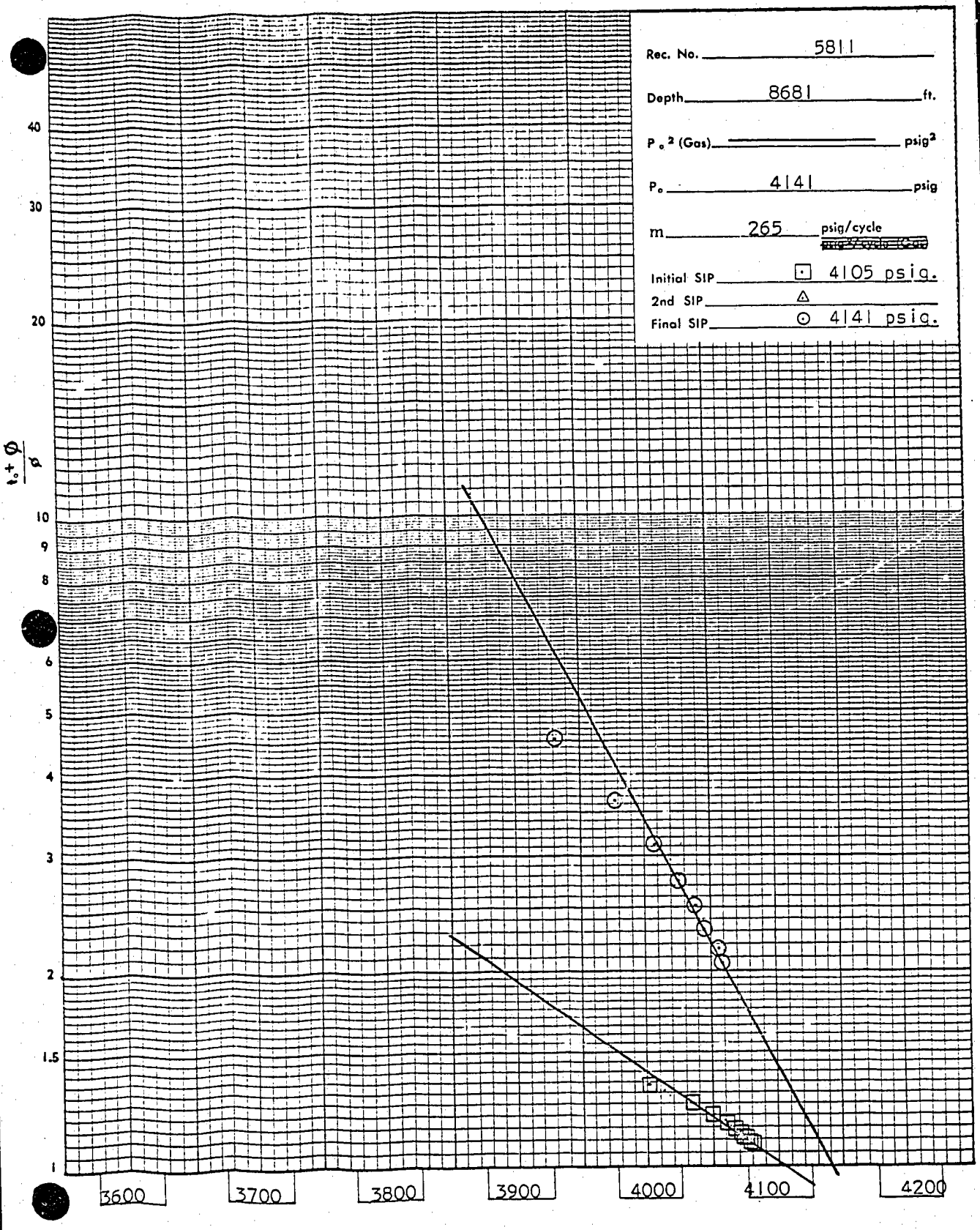
Recorder Depth ..... ft. Subsea depth ..... ft. Ticket No. ..... Hour Recorder No. .....

t_o = Mins. Initial Shut-In Pressure				Second Flow Pressure		t_o = Mins. Final Shut-In Pressure			
Time, Min. Ø	$\frac{t_o + Ø}{Ø}$	PSIG	PSIG² ÷10⁶ (Gas)	Time Defl. .000"	PSIG	Time, Min. Ø	$\frac{t_o + Ø}{Ø}$	PSIG	PSIG² ÷10⁶ (Gas)

Interval of Pressure Readings (Mins.) ISIP 5 2nd Flow Press. FSIP 9

Remarks: DST # 1

PRESSURE DATA



PRESSURE EXTRAPOLATION PLOT

DST # 1

LYNES UNITED SERVICES LTD.

TEST DATA					
Test No.	1	Lynes Test	1		
Formation		T.D.		Ft.	
Interval Tested	8671	Ft. to	8819	Ft.	
Net of Net Pay Tested	148			Ft.	
Type of Test	Inflatable Straddle				
Cushion	water	Amount	550	Ft.	
Started in Hole at	4:00	Hrs.	Tool Open at	8:49	Hrs.
Pre-Flow	5	Mins.	Initial Shut-in	60	Mins.
2nd Flow		Mins.	Second Shut-in		Mins.
Final Flow	90	Mins.	Final Shut-in	90	Mins.

Remarks:

Blow: Preflow - fair blow.
Final flow - fair steady throughout the test.

GENERAL INFORMATION	
Company	Shell Canada Limited
Address	639 - Fifth Avenue S.W.
	Calgary, Alberta
Well Name	Shell Arctic: Red West G-55
Well Number	66° 44' 28.13 133° 09' 58.20
K.B. Elevation	146.35 Sub-Sea Elevation
Area	West Glacier Province N.W.T.
Company Rep.	F. Budda
Tester	D. Baillie
Contractor	Gustavson Rig No. 11
Ticket No.	2934 Date May 10/71
Service Reports To:	6 - above address

GAS BLOW MEASUREMENTS

Measured with

Time	Surface Choke	Reading Inches	Cubic Feet/Day

MUD AND HOLE DATA			
Mud Type	Gel Chem		
Weight	9.2 Viscosity	45 Water Loss	8.2
Filter Cake	2/32 Bottom Hole Temperature		158°
Drill Pipe Size	4" FH Weight		
Drill Collars	6 3/4" I.D.	2 7/8" Feet Run	277.0
Main Hole or Casing Size	8 3/4"		
Rathole or Liner Size	No. of Feet		
Bottom Hole Choke Size	1"		
Surface Choke Size	none		
Packer Rubber Size	7 7/8" elements.		

REMARKS: Shut-in pressures suggest relatively high permeability within the interval tested.

RECOVERY

TOTAL FLUID RECOVERED 3270 Ft. Consisting of:

3270 Ft. of formation fluid including water cushion. (550' w.c. used)
Ft. of
Ft. of
Ft. of

Test was/was not Reverse Circulated

Oil Recovery A.P.I. Water Specific Gravity

Salinity

PRESSURE READINGS

	Inside ___ Outside X	Inside ___ Outside X	Inside ___ Outside X	Inside X Outside ___
Recorder No.	5118	5811	6482	5812
Capacity	6000	6000	70- 2750	8200
Depth	8681	8681	8681	8626

NUMBER KEY:				
1 - INITIAL HYDROSTATIC	4190	4205		1492
2 - PRE-FLOW	645	642	158°	
3 - INITIAL SHUT-IN	4102	4081		This recorder was run to check hydro-static above tool
4a - 2nd INITIAL FLOW				
4b - 2nd FINAL FLOW				
4c - 2nd SHUT-IN				
5 - 3rd INITIAL FLOW	473	462		
6 - FINAL FLOW	1470	1464		
7 - FINAL SHUT-IN	4070	4058		
8 - FINAL HYDROSTATIC	4190	4205		1492

Shell Oil Canada Limited — Company

Shell Arctic Red West G-55 66° 44' 1330 09' — Well Name and Description

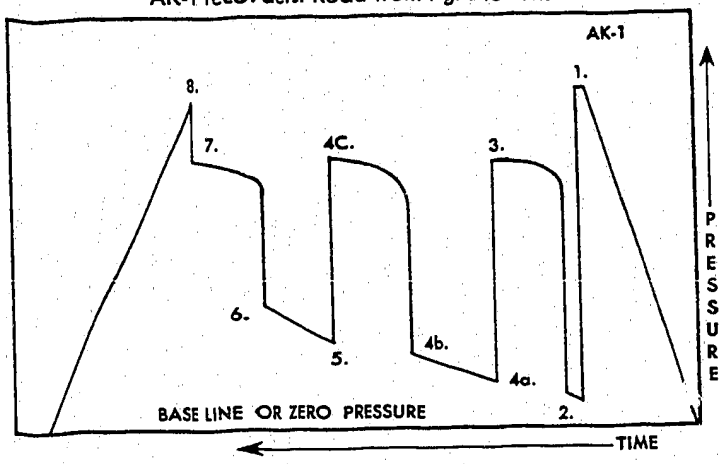
#1 — Test No.

May 10/71 — Date of Test

LYNES

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

AK-1 recorders. Read from right to left.

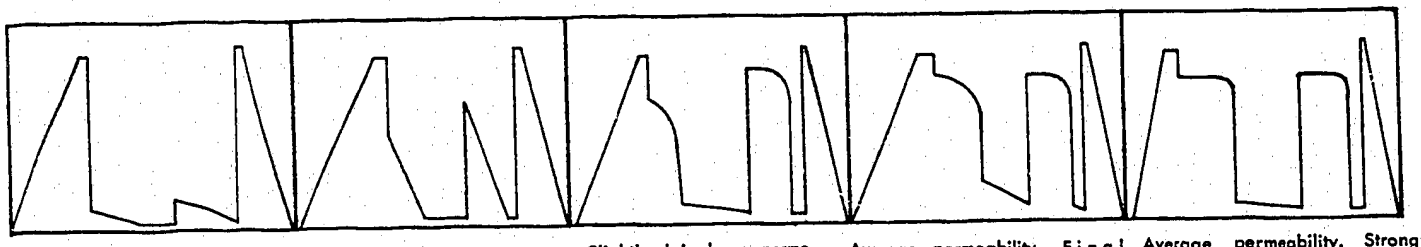


K-3 recorders. Read from left to right.

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

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

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



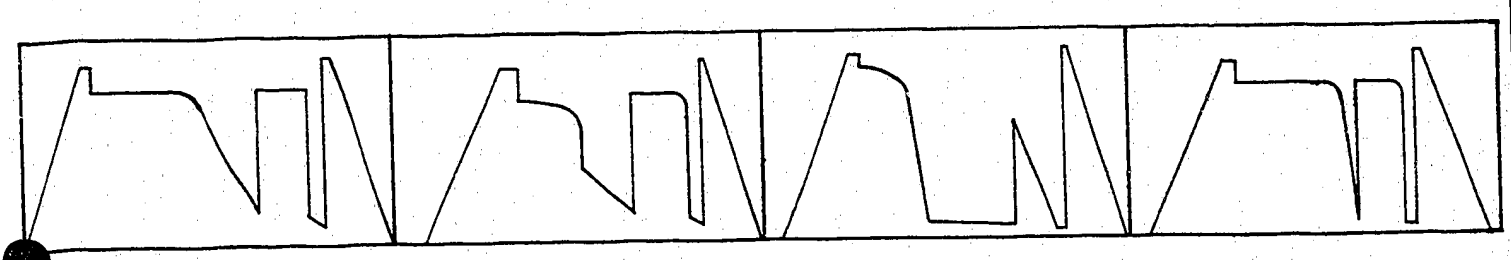
Very low permeability. Usually only mud recovered from interval tested. Virtually no permeability.

Slightly higher permeability. Again usually mud recovered.

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

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

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



Excellent permeability where final flow final shut-in pressure.

High permeability where ISIP and FSIP are within 10 psi.

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

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

Shell Canada Ltd.
Shell Arctic Red West G-55 DST # 2

NOMENCLATURE (Definition of Symbols)

Q	=	average production rate during test, bbls./day
Q_g	=	measured gas production rate during test, MCF/day
k	=	permeability, md
h	=	net pay thickness, ft. (when unknown, test interval is chosen)
μ	=	fluid viscosity, centipoise
Z	=	compressibility factor
T_f	=	reservoir temperature, ° Rankine
m	=	slope of final SIP buildup plot, psig/cycle ($psig^2$/cycle for gas)
b	=	approximate radius of investigation, feet
r_w	=	wellbore radius, feet
t_o	=	total flowing time, minutes
P_o	=	Extrapolated maximum reservoir pressure, psig
P_f	=	final flowing pressure, psig
P.I.	=	productivity index, bbls./day/psi
$P.I._t$	=	theoretical productivity index with damage removed, bbl./day/psi
D.R.	=	damage ratio
E.D.R.	=	estimated damage ratio
AOF	=	absolute open flow potential, MCF/D
AOF_t	=	theoretical absolute open flow if damage were removed
$\bar{Z}$	=	subsea depth
W	=	water gradient based on salinity
H_w	=	potentiometric surface

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DEFINITION OF SYMBOLS

Recorder Depth 5425 ft. Subsea depth ..... ft. Ticket No. 2938 Hour Recorder No. 8306

t_o = 5 Mins. Initial Shut-In Pressure				Second Flow Pressure		t_o = 95 Mins. Final Shut-In Pressure			
Time, Min. Ø	$\frac{t_o + Ø}{Ø}$	PSIG	PSIG² ÷10⁶ (Gas)	Time Defl. .000"	PSIG	Time, Min. Ø	$\frac{t_o + Ø}{Ø}$	PSIG	PSIG² ÷10⁶ (Gas)
0	-----	625				0	----	1616	
5	2.000	2534				9	11.556	2423	
10	1.500	2549				18	6.278	2448	
15	1.333	2555				27	4.518	2464	
20	1.250	2557				36	3.638	2475	
25	1.200	2560				45	3.111	2486	
30	1.167	2561				54	2.759	2493	
35	1.143	2563				63	2.508	2499	
40	1.125	2564				72	2.319	2504	
45	1.111	2565				81	2.172	2509	
50	1.100	2565				90	2.056	2512	
55	1.091	2566						2511	
60	1.083	2568							

Recorder Depth ..... ft. Subsea depth ..... ft. Ticket No. ..... Hour Recorder No. .....

t_o = Mins. Initial Shut-In Pressure				Second Flow Pressure		t_o = Mins. Final Shut-In Pressure			
Time, Min. Ø	$\frac{t_o + Ø}{Ø}$	PSIG	PSIG² ÷10⁶ Ø	Time Defl. .000"	PSIG	Time, Min. Ø	$\frac{t_o + Ø}{Ø}$	PSIG	PSIG² ÷10⁶ (Gas)

Interval of Pressure Readings (Mins.) ISIP 5 2nd Flow Press. FSIP 9

Remarks: DST # 2

PRESSURE DATA

Rec. No. 8306

Depth 5425 ft.

P_o^2 (Gas) _____ $psig^2$

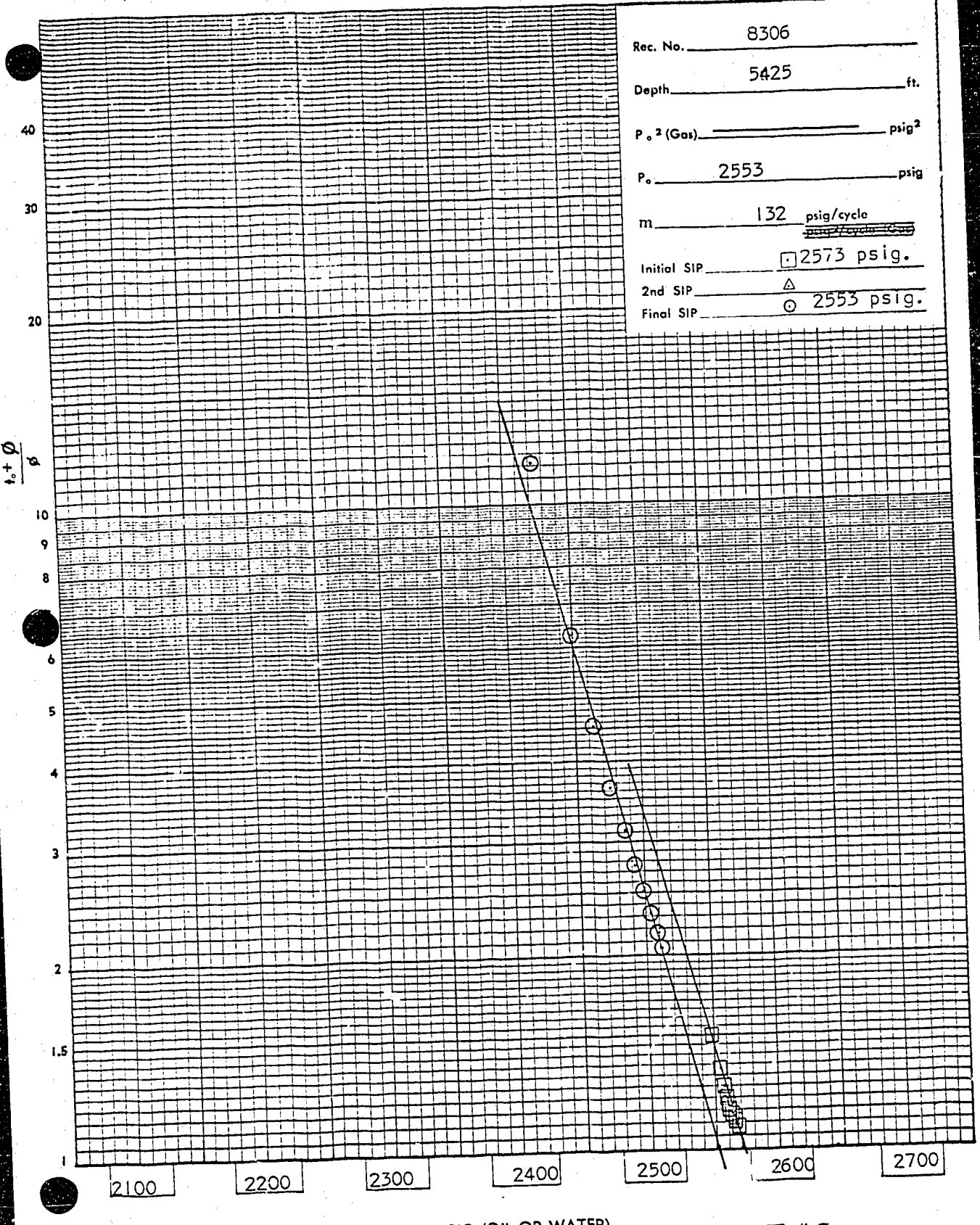
P_o 2553 psig

m 132 psig/cycle ~~psig²/cycle (Gas)~~

Initial SIP □ 2573 psig.

2nd SIP △

Final SIP ⊙ 2553 psig.



PSIG (OIL OR WATER)

DST # 2

PRESSURE EXTRAPOLATION PLOT

LYNES UNITED SERVICES LTD.

TEST DATA					GENERAL INFORMATION	
Test No.	2	Lynes Test	2			
Formation	Bear Rock	T.D.	10,900	Ft.	Company	Shell Canada Ltd.
Interval Tested	5420	Ft. to	5568	Ft.	Address	639 - Fifth Avenue S.W.
Ft. of Net Pay Tested	148			Ft.		Calgary, Alberta
Type of Test	Inflatable Straddle					
Cushion		Amount		Ft.	Well Name	Shell Arctic Red West
Started in Hole at	11:45 Hrs.	Tool Open at	2:34 Hrs.		Well Number	G-55
Pre-Flow	5 Mins.	Initial Shut-in	60 Mins.		K.B. Elevation	Sub-Sea Elevation
2nd Flow	Mins.	Second Shut-in	Mins.		Area	Glacier Province N.W.T.
Final Flow	90 Mins.	Final Shut-in	90 Mins.		Company Rep.	K. Dow
Remarks:					Tester	D. Baillie
					Contractor	Gustavson Rig No. 11
	Preflow - fair to good.				Ticket No.	2938 Date May 20/71
Blow:	Final flow - fair blow throughout the test.				Service Reports To:	6 - above address

GAS BLOW MEASUREMENTS			
Measured with			
No gas to surface.			
Time	Surface Choke	Reading Inches	Cubic Feet/Day

MUD AND HOLE DATA					
Mud Type	Gel Chem				
Weight	9.3	Viscosity	50	Water Loss	8.6
Filter Cake	2/32"	Bottom Hole Temperature			152o
Drill Pipe Size	4"			Weight	
Drill Collars	6 3/4"	I.D.	2 7/8"	Feet Run	279.84
Main Hole or Casing Size	8 3/4"				
Rathole or Liner Size				No. of Feet	
Bottom Hole Choke Size	1"				
Surface Choke Size	adjustable				
Packer Rubber Size	7 5/8 x Elements.				

REMARKS
Shut-in pressures suggest high permeability within the interval tested.
Recorder 8193
capacity 3000
depth 5380
1) 1472 psi - used to check
8) 1472 psi hydrostatic head above the tool.

RECOVERY	
TOTAL FLUID RECOVERED	3080 Ft. Consisting of:
200 Ft. of	drilling mud
2880 Ft. of	salt water.
Ft. of	
Ft. of	
Test was/was not Reverse Circulated	
Oil Recovery A.P.I.	Water Specific Gravity
Salinity	

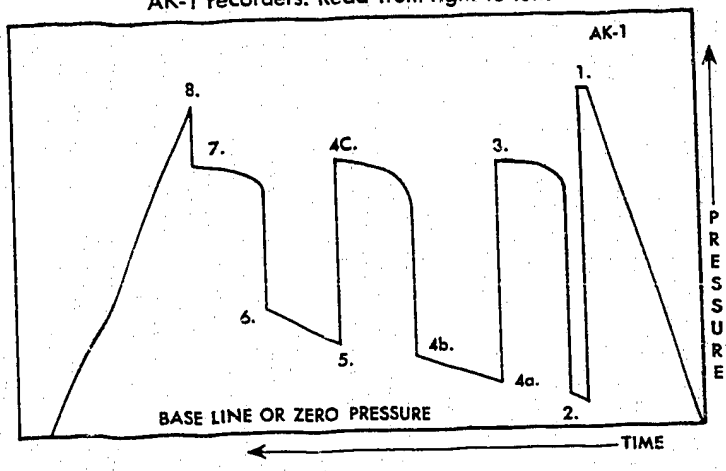
PRESSURE READINGS				
	Inside ____ Outside ____	Inside ____ Outside X	Inside ____ Outside X	Inside ____ Outside X
	Recorder No. 8307	Recorder No. 8306	Recorder No. 6482	Recorder No. 8191
	Capacity 3100	Capacity 3100	Capacity 70 - 2750	Capacity 3000
	Depth 5425	Depth 5425	Depth 5425	Depth 5578
NUMBER KEY:				
1 - INITIAL HYDROSTATIC	2744	2734		2827
2 - PRE-FLOW	605	625	1520	
3 - INITIAL SHUT-IN	2542	2568		below straddle
4a - 2nd INITIAL FLOW				
4b - 2nd FINAL FLOW				
4c - 2nd SHUT-IN				
5 - 3rd INITIAL FLOW	clock	680		
6 - FINAL FLOW	stopped	1616		
7 - FINAL SHUT-IN		2512		
8 - FINAL HYDROSTATIC	2744	2764		2827

Shell Canada Ltd. Company — Shell Arctic Red West G-55 Well Name and Description — #2 Test No. — May 20/71 Date of Test

LYNES

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

AK-1 recorders. Read from right to left.

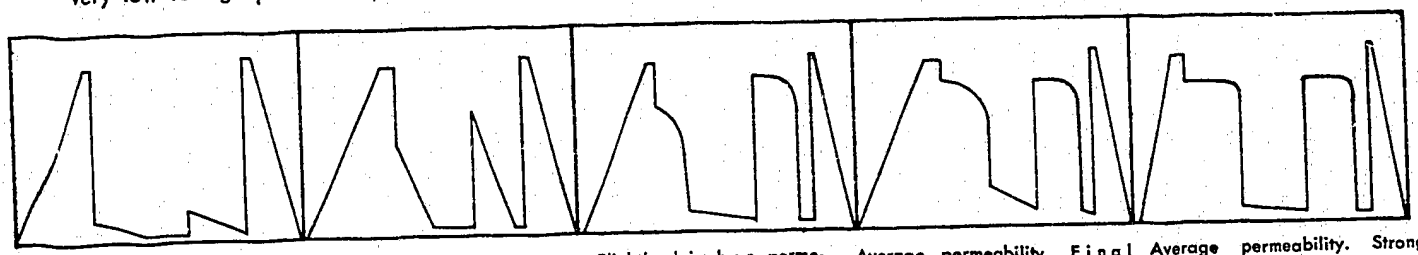


K-3 recorders. Read from left to right.

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

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

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



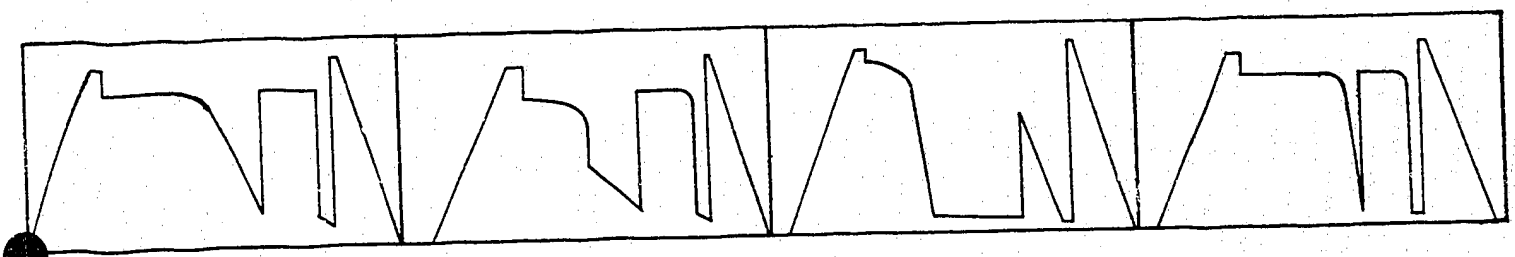
Very low permeability. Usually only mud recovered from interval tested. Virtually no permeability.

Slightly higher permeability. Again usually mud recovered.

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

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

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



Excellent permeability where final flow final shut-in pressure.

High permeability where ISIP and FSIP are within 10 psi.

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

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

SECTION IV - LOGS

Type	Interval	Date
DILL	1200-10897	May 18, 1971
BHCS-GR-C	1200-10899	May 18, 1971
FDC-GR-C	1200-10900	May 18, 1971
MLC	3600-10898	May 18, 1971
SNP	3600-10900	May 18, 1971
Seismic Reference Survey		

SECTION V - ANALYSIS

a) Core Analysis

See Appendix "A"

b) Water Analysis

See Appendix "B"

c) Gas Analysis

Nil

d) Oil Analysis

Nil

SECTION VI - COMPLETION SUMMARY

a) Tubing Record

Nil

b) Perforation Record

Nil

c) Cementation

Plug No.	Date	Plug Interval	Porous Interval	Sxs CMT	Depth Felt
1		10700-10900	-	110	-
2		8150-8280	8214 - 10500	110	8127'
3		6670-6800	6750 - 6770 7705 - 7730	90	6613'
4		5680-5810	5830 - 6200	90	5655'
5		4100-4230	4850 - 5746	110	4089'
6		1140-1260	-	115	1048'
7		Surface	-	10	-

(Permanent riser and well identification installed)

d) Acidization And Fracturing

Nil

e) Back Pressure and Production

Nil

J. E. Czaja
Manager
Frontier Division Production

APPENDIX "A"
Core Analysis

SHELL CANADA LIMITED - PRODUCTION LABORATORY
CORE ANALYSIS REPORT

Date: May 1971

WELL Shell Arctic Red West G-55 KB 146 FIELD Wildcat CORED INTERVAL 8706.0-8736.0 RECOVERY 28' FORMATION Dolomite Zone

Lab. No. SMALL CORE SAMPLES 'S' Suffix	SECTION REPRESENTED Interval	Ft.	Lithological Description	ORIENTATION	Whole Core Samples - G.D. calc. Small Core Samples - G.D. measured Poro %	Kmax md	K90 md	Kvert md	G.D. gm/cc	Oil Sat'n % P.V.	Water Sat'n % P.V.	Fluor Cuts	Remarks
Core #1	8706.0-8736.0	Rec.	28'										
E-1	8706.0-8706.5	0.5	DO, CL, I, III, F-M, B		4.1	0.3	0.3		2.821			N	
E-2	8706.5-8707.2	0.7	DO, AN, I/III, F-M, B,C		7.1	0.4 *	0.3		2.830			N	
E-3	8707.2-8707.8	0.6	DO, AN, I/III, F-M, B,D		2.6	0.6	0.3 *		2.809			N	
E-4	8707.8-8708.4	0.6	DO, AN, I/III, F-M, B,D		8.7	0.3	0.3		2.835			N	
E-5	8708.4-8708.9	0.5	DO, AN, I, F-M, B, D		9.4	6.0	1.5 *		2.858			N	
E-6	8708.9-8709.6	0.6	DO, AN, I, F-M, B, D		3.9	0.2	0.2		2.845			N	
E-7	8709.6-8710.4	0.8	DO, AN, I, F-M, B-D		7.6	0.3 *	0.2		2.851			N	
E-8	8710.4-8710.9	0.5	DO, AN, I, F-M, B-D		5.0	0.2	0.2		2.836			N	
E-9	8710.9-8711.3	0.4	DO, AN, I, F-M, B-D		9.1	0.4	0.4		2.845			N	
E-10	8711.3-8711.7	0.4	DO, AN, I, F-M, B-D		13.7	63.0 *	4.3		2.868			N	
E-11	8711.7-8712.5	0.8	DO, AN, I, F-M, B-D		10.5	5.4 *	0.5		2.845			N	
E-12	8712.5-8712.9	0.4	DO, AN, I, F-M, B-D		9.7	7.5 *	0.5		2.840			N	
E-13	8712.9-8713.6	0.7	DO, AN, I, F-M, B-D		2.9	1.4 *	0.2		2.838			N	
E-14	8713.6-8714.6	1.0	DO, AN, I, F-M, B-D		5.1	9.8 *	2.3		2.856			N	
E-15	8714.6-8715.5	0.9	DO, AN, I, F-M, B-D		11.6	3544.0 *	22.0		2.842			N	
E-16	8715.5-8716.0	0.5	DO, AN, I, F-M, B-D		7.3	35.2	34.1 *		2.845			N	
E-17	8716.0-8717.0	1.0	DO, AN, I, F-M, B-D		2.8	0.2 *	0.1		2.833			N	
E-18	8717.0-8717.4	0.4	DO, AN, I, F-M, B-D		3.8	0.3	0.3		2.845			N	
E-19	8717.4-8718.8	0.4	DO, AN, I, F-M, B		0.7	0.1	0.1		2.828			N	
E-20	8717.8-8718.4	0.6	DO, AN, I, F-M, B		0.6	0.1	0.2 *		2.823			N	
E-21	8718.4-8719.0	0.6	DO, AN, I, F-M, B		0.9	0.1	0.1		2.834			N	
E-22	8719.0-8719.6	0.6	DO, AN, I, F-M, B		2.0	0.3	0.3		2.820			N	
E-23	8719.6-8720.3	0.7	DO, AN, I, F-M, B		2.3	1.2	0.2		2.839			N	
E-24	8720.3-8720.7	0.4	DO, AN, I, F-M, B		1.8	1.2 *	0.9		2.866			N	
X-6697	8720.7-8720.9	0.2	DO, AN, I, F-M, B		2.2	1.1			2.799			N	
X-6698	8720.9-8721.1	0.2	DO, AN, I, F-M, B		2.0	2.0			2.847			N	
X-6699	8721.1-8721.5	0.4	DO, AN, I, F-M, B		2.5	1.1			2.840			N	
X-6700	8721.5-8722.1	0.6	DO, AN, I, F-M, B		1.4	1.0			2.813			N	
X-6701	8722.1-8722.3	0.2	DO, AN, I, F-M, B		1.8	1.1			2.835			N	
E-25	8722.3-8722.9	0.6	DO, AN, I, F-M, B-D		5.6	0.3 *	0.2		2.865			N	
E-26	8722.9-8723.5	0.6	DO, AN, I, F-M, B-D		5.9	0.6	0.6		2.845			N	

SHELL CANADA LIMITED - PRODUCTION LABORATORY
CORE ANALYSIS REPORT

Date: May 1971

WELL Shell Arctic Red West G-55 KB 146 FIELD Wildcat CORED INTERVAL 8706.0-8736.0 RECOVERY 28' FORMATION Dolomite Zone

Lab. No. SMALL CORE SAMPLES 'S' Suffix	SECTION REPRESENTED Interval	Ft.	Lithological Description	ORIENTATION	Whole Core Samples - G.D. calc. Small Core Samples - G.D. measured Poro %	Kmax md	K90 md	Kvert md	G.D. gm/cc	Oil Sat'n % P.V.	Water Sat'n % P.V.	Fluor Cuts	Remarks
E-27	8723.5-8723.8	0.3	DO, AN, I, F-M, B-D		5.6	3.1 *	0.9		2.855			N	
E-28	8723.8-8724.3	0.5	DO, AN, I, F-M, B-D		4.7	14.4 *	3.3		2.859			N	
E-29	8724.3-8725.5	1.2	DO, AN, I, F-M, B-D		5.6	1.3	3.2 *		2.845			N	
E-30	8725.5-8726.3	0.8	DO, AN, I, F-M, B-D		5.1	0.3 *	0.2		2.835			N	
E-31	8726.3-8726.8	0.5	DO, AN, I, F-M, B		1.6	0.3 *	0.2		2.833			N	
E-32	8726.8-8727.8	1.0	DO, AN, I, F-M, B		1.1	0.2	0.2		2.831			N	
E-33	8727.8-8728.5	0.7	DO, AN, I, F-M, B		0.5	2.3	0.3 *		2.812			N	
E-34	8728.5-8728.8	0.3	DO, AN, I, F-M, B		1.3	0.2	0.2		2.828			N	
E-35	8728.8-8729.2	0.4	DO, AN, I, F-M, B		1.4	0.2	0.2		2.820			N	
E-36	8729.2-8730.0	0.8	DO, AN, I, F-M, B, C		1.9	0.2	0.2		2.834			N	
E-37	8730.0-8730.7	0.7	DO, AN, I, F-M, B, C		2.1	0.2	0.1 *		2.822			N	
E-38	8730.7-8731.4	0.7	DO, AN, I, F-M, B, C		1.3	0.1	0.1		2.817			N	
E-39	8731.4-8732.3	0.9	DO, AN, I, F-M, B, C,		2.5	1.0	1.0		2.831			N	
E-40	8732.2-8733.1	0.9	DO, AN, I, F-M, B-D		0.8	0.1	0.1		2.808			N	
E-41	8733.1-8734.1	1.0	DO, AN, I, F-M, B-D		1.9	0.2 *	0.1		2.820			N	
	8734.1-8736.0	1.9											Missing

APPENDIX "B"
Water Analysis

C.P.80 (REV.3/67)

SHELL CANADA LIMITED

PRODUCTION LABORATORY ANALYSIS REPORT

CALGARY, ALBERTA

Laboratory Number 147 & 149
WATER

Sample Received MAY 14, 1971
Sample Analyzed MAY 17, 1971
Results Reported MAY 17, 1971

Well SHELL ARCTIC RED WEST G-55 WEST GLACIER WILDCAT
Lsd ____ Sec ____ Twp ____ Rge ____ W ____ Formation O-E DOLOMITE
Well K.B. 146.35' G.L. 129.1' T.D. ____ P.B.T.D. ____ Perfs. or O.H. ____
Method of production DST #1 8671-8819'
DST Recovery USED & RECOVERED 550' WATER CUSHION, REC. 2720' SLI MUD CUT SALT WATER
Sample obtained from SEE BELOW
Sampled by F. BUDDA Date MAY 11, 1971 Time ____

LAB. No.	FIELD No.	SOURCE	SALINITY mg Cl⁻/l	mg NaCl/l
147	6	845' ABOVE TOOL	93828	154816
149	8	100' " "	87126	143758

COMPLETE ANALYSIS SAMPLE '285' ABOVE TOOL, FIELD #7', [LAB. No. 148], TO FOLLOW.

File Code No. 15-1300
Production Department, Calgary Area 1
Division Office FRONT. PET. 5
Production Laboratory, Calgary Area 2

B. H. Scott
Analyst N. L. Johnson

R-160

SHELL (OIL) LIMITED

PRODUCTION LABORATORY ANALYSIS REPORT

CALGARY, ALBERTA

Laboratory Number 148 WATER

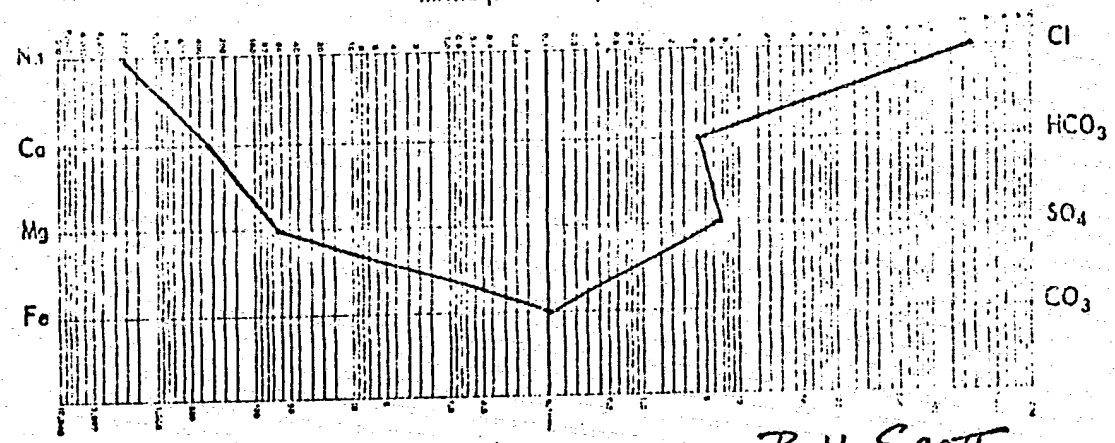
Sample Received MAY 14, 1971
Sample Analyzed MAY 17, 1971
Results Reported MAY 18, 1971

Well SHELL ARCTIC RED WEST G-55 WEST GLACIER WILDCAT Well K.B. 146.35' G.L. 129.1'
Lsd ____ Sec ____ Twp ____ Rge ____ W ____ Formation O-E DOLOMITE T.D. ____ P.B.T.D. ____
Method of production DST #1 8671 - 8819' Perfs. or O.H. ____
DST Recovery USED & RECOVERED 550 WATER CUSHION; REC. 2720' SLI MUD CUT SALT WATER Sampled by F. BUDOA
Sample obtained from 285' ABOVE TOOL [FIELD #7] Date MAY 11, 1971 Time ____

Specific Gravity at 60°F 1.1130 pH 5.8 Resistivity 0.074 ohm-m at 60°F H_2S NONE Calculated Total Solids 161230 Mg/L

	Calc. Na + K	Ca	Mg	Fe				CO_3	HCO_3	SO_4	Cl	
Mg./L	55284	6306	780	Much				0	250	314	98296	
MEQ./L	2403.77	314.67	64.15					0	4.10	6.54	2771.95	
MEQ. %	43.20	5.65	1.15					0	0.07	0.12	49.81	

Milliequivalents per Litre



Remarks: ____

File Code No. 15-11.00
Production Department, Calgary Area 1
Division Office FRONT PET. 5
Production Laboratory, Calgary Area 2

B. H. Scott
Chemist N. L. Johnson

C.P.80 (REV.3/67)

SHELL CANADA LIMITED

PRODUCTION LABORATORY ANALYSIS REPORT

CALGARY, ALBERTA

Laboratory Number 168
WATER

Sample Received MAY 26 1971
Sample Analyzed MAY 28, 1971
Results Reported MAY 28, 1971

Well SHELL ARCTIC REO WEST G-55 WEST GLACIER WILDCAT
Lsd ___ Sec ___ Twp ___ Rge ___ W ___ Formation BEAR ROCK
Well K.B. 146.35 G.L. 129.1' T.D. 10,900' P.B.T.D. SURFACE Perfs. or O.H. ___
Method of production DST #2 5420-5568'
DST Recovery 3081' SALT WATER
Sample obtained from 757' ABOVE TOOL ⌙ FIELD #6
Sampled by K. DOW Date MAY 20, 1971 Time ___

SALINITY 85,450 mg Cl⁻/l [140,993 mg NaCl/l]

COMPLETE ANALYSIS SAMPLE #7, 292' ABOVE TOOL. [LAB. No. 169], TO FOLLOW.

File Code No. 15-1300
Production Department, Calgary Area 1
Division Office FRONT. PET. 5
Production Laboratory, Calgary Area 2

Analyst N. L. Johnson

R-160

SHELL C[illegible] LIMITED

PRODUCTION LABORATORY ANALYSIS REPORT

CALGARY, ALBERTA

Laboratory Number 169
WATER

Sample Received MAY 26, 1971
Sample Analyzed MAY 28, 1971
Results Reported MAY 31, 1971

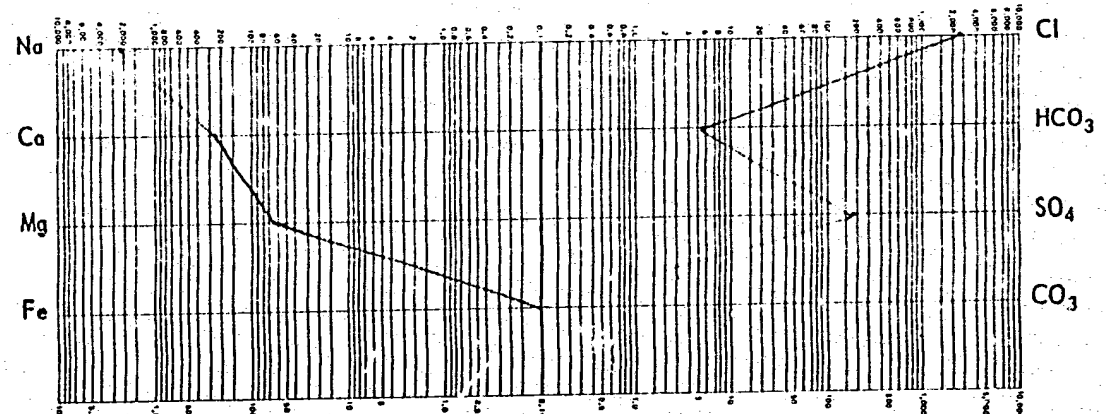
Well SHELL ARCTIC RED WEST G-55 WEST GLACIER WILDCAT
Lsd ____ Sec ____ Twp ____ Rge ____ W ____ Formation BEAR ROCK
Method of production DST #2 5420 - 5568'
DST Recovery 3081' SALT WATER
Sample obtained from 292' ABOVE TOOL FIELD #1

Well K.B. 146.35' G.L. 129.1'
T.D. 10,900' P.B.T.D. SURFACE
Perfs. or O.H. ____
Sampled by K. DOW
Date MAY 20, 1971 Time ____

Specific Gravity at 60°F 1.1020 pH 6.1 Resistivity 0.087 ohm-m at 60°F H_2S NONE Calculated Total Solids 157563 Mg/L

	Calc. Na + K	Ca	Mg	Fe				CO_3	HCO_3	SO_4	Cl	
Mg./L	53711	5608	797	NONE				0	336	9598	88,523	
MEQ./L	2335.36	279.84	65.55					0	5.51	199.87	2497.32	
MEQ. %	43.56	5.22	1.22					0	0.10	3.34	46.56	

Milliequivalents per Litre



Remarks: ____

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

Chemist B.L. Smith
N.L. Johnson

CP-38 (10/69)

DAILY DRILLING REPORT

WELL NAME: Shell Arctic Red West G-55

LOCATION: G-55 | PROVINCE: N. W. T.

OPERATOR: Shell Canada Limited | SIGNATURE OF OPERATOR'S REPRESENTATIVE: L. Brown

CONTRACTOR: Gustavson Drilling (1964) Ltd. | SIGNATURE OF CONTRACTOR'S TOOL PUSHER: Jack McLeod | RIG NO.: 11

DEPTH AT START OF MORNING TOUR	DEPTH AT END OF EVENING TOUR	DAILY PROGRESS	CUMULATIVE ROTATING HOURS	DAYS FROM SPUD	DATE MONTH	DAY	YEAR
				52	5	22	1971

DP / DC SIZE	WT / FT	GRADE	MIN I.D.	TOOL JT O.D.	TYPE THREAD	PUMP NO.	PUMP MANUFACTURER	TYPE	STROKE LENGTH
	14#	E+F	2 7/8	5 1/4	NFH	1	National	8P80	8½"
						2	National	8P80	8½"

LAST CASING TUBING OR LINER	SIZE	WT. AND GR.	NO. OF JOINTS	FEET	KB. TO CSG. HEAD	SET AT	CEMENT USED (SACKS)	REMARKS
	9 5/8	36# K55	38	1204	1625	1201	886	

TIME DISTRIBUTION — HOURS

CODE NO.	OPERATION	MORN.	DAY	EVE.	TOTAL
1	RIG UP TEAR DOWN				
2	DRILLING ACTUAL				
3	REAMING				
4	CORING				
5	CLEAN TO BOTTOM AND CIRCULATING				
6	TRIPS				
7	RIG SERVICE				
8	RIG REPAIR				
9	CUT AND/OR SLIP LINE				
10	DEVIATION SURVEY				
11	[illegible] LOG				
12	RUN CASING AND CEMENT				
13	WAIT ON CEMENT				
14	NIPPLE UP B.O.P.				
15	TEST B.O.P.				
16	DRILL STEM TEST				
17	PLUG BACK	8	8	8	24
18	SQUEEZE CEMENT				
19	STUCK OR FISHING				
20	HANDLE TOOLS				
21	CONDITION MUD				
22	[illegible] CIRCULATION				
23					
24					
COMPLETION 40	PERFORATE				
COMPLETION 41	TUBING TRIPS				
COMPLETION 42	TREATING				
COMPLETION 43	SWABBING				
COMPLETION 44	TESTING				
COMPLETION 45					
60	ABANDON				
70	STANDBY				
	TOTALS	8	8	8	
	HOURS FOR SHELL ACCOUNT				24
CONTRACTOR EQUIPMENTAL	BOILER #2	8	8	8	24

Code 267

HOLE CONDITION

1	HOLE DRAG (1000#)	
2	TORQUE ON BOTTOM (DP TURNS)	
3	FILL ON BOTTOM (FEET)	

DRILLING ASSEMBLY AT END OF TOUR

NO.	CODE		ID	OD	FT
		BIT			FT.
			ID X	OD	FT.
			ID X	OD	FT.
			ID X	OD	FT.
			ID X	OD	FT.
			ID X	OD	FT.
			ID X	OD	FT.
		DP STANDS			FT
		DP SINGLES			FT
		KELLY DOWN			FT
		TOTAL			FT.
		WT. OF DC IN AIR			LBS.
		WT. OF STRING			LBS

BIT RECORD

BIT NO.	
SIZE	
MFG.	
TYPE	
JETS 1/32"	
SERIAL NO.	
DEPTH OUT	
DEPTH IN	
TOTAL FTG.	
TOTAL HRS. RUN	
BIT CONDITION 1/8" T/B/GAGE	
REAMER CUTTER NO.	
REAMER TYPE	

MUD RECORD

TIME			
WEIGHT	Plug ± 5		
VIS-SEC.	4480 – 4230		
PV/YP	90 SXS CEMENT		
GELS	PLUS 2% CAL. CHLOR.		
W.L.-C.C.			
PH			
% SOLIDS			
% SAND			
MUD MATERIALS ADDED			
TYPE	AMOUNT	TYPE	AMOUNT
Plug #6			
1140 – 1260			
110 SXS CEMENT			
PLUS 2% CALCIUM CHLOR.			

MORNING TOUR

FOOTAGE

FROM	TO	ROT HOURS	DR-D RM-R CORE-C	CORE NO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT. ON BIT (1000#)	PUMP (AIR) PRESS	AIR VOL (CFM)	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN

DEVIATION RECORD

DEPTH	DEVIATION°	DIRECTION	DEPTH	DEVIATION°	DIRECTION	DEPTH	DEVIATION°	DIRECTION

TIME LOG

FROM	TO	ELAPSED TIME	CODE	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
12:00	4:00	4		W.O.C. Lay down pipe
4:00	5:00	1		Feel Plug #3 @ 6613'
5:00	5:30	½		Ran Plug #4 90sx Cement @ 5680' To 5810'
5:30	8:00	2½		W.O.C. (2% Calcium Chloride)

DRILLER: G. Johnson

DAY TOUR

FOOTAGE

FROM	TO	ROT HOURS	DR-D RM-R CORE-C	CORE NO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT. ON BIT (1000#)	PUMP (AIR) PRESS	AIR VOL (CFM)	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN

DEVIATION RECORD

DEPTH	DEVIATION°	DIRECTION	DEPTH	DEVIATION°	DIRECTION	DEPTH	DEVIATION°	DIRECTION

TIME LOG

FROM	TO	ELAPSED TIME	CODE	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
8:00	8:30	½		W.O.C.
8:30	9:30	1		Feel Plug #4 90sx cement @ 3633'
9:30	10:00	½		Ran Plug #5 - 90sx Cement @ 4100' To 4230'
10:00	1:30	3½		W.O.C. Lay Down Pipe.
1:30	2:00	½		Ran in Feel Plug 5 @ 4089'
2:00	2:30	½		Ran Plug #6 110sx Cement 1140' To 1260'
2:30	4:00	1½		W.O.C. Clean Mud Tanks

DRILLER: D. Lindall

EVENING TOUR

FOOTAGE

FROM	TO	ROT HOURS	DR-D RM-R CORE-C	CORE NO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT. ON BIT (1000#)	PUMP (AIR) PRESS	AIR VOL (CFM)	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN
					Rig Released @ May 22-71	12:00	Midnight							

DEVIATION RECORD

DEPTH	DEVIATION°	DIRECTION	DEPTH	DEVIATION°	DIRECTION	DEPTH	DEVIATION°	DIRECTION

TIME LOG

FROM	TO	ELAPSED TIME	CODE	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
4.00	6.00	2.		W.O.C. LAY DOWN PIPE
6.00	6.30	½		FEEL PLUG #6. @ 1048
6.30	12.00	5½		LAY DOWN BOP'S CUT OFF CASING BOWL.
		8		10 SKS CEMENT PLUG. WELD ON PLATE.
				WELD ON WELL IDENTITY PLATE
				ON 3' RISER.

DRILLER: A. Swanson

CP-38 (10/69)

DAILY DRILLING REPORT

WELL NAME: SHELL ARCTIC RED WEST

LOCATION: G-55 | PROVINCE: N. W. T.

OPERATOR: Shell Canada Limited | CONTRACTOR: GUSTAVSON | RIG NO.

SIGNATURE OF OPERATOR'S REPRESENTATIVE: K. Brown | SIGNATURE OF CONTRACTOR'S TOOL PUSHER: Jack McDonald

DEPTH AT START OF MORNING TOUR	DEPTH AT END OF EVENING TOUR	DAILY PROGRESS	CUMULATIVE ROTATING HOURS	DAYS FROM SPUD	DATE MONTH	DAY	YEAR
10900				51	5	21	71

DP. / DC. SIZE	WT. / FT.	GRADE	MIN. I.D.	TOOL JT O.D.	TYPE THREAD	PUMP NO.	PUMP MANUFACTURER	TYPE	STROKE LENGTH
4	14	E	2 7/8	5 1/4	4FH	1	NATIONAL	8P80	8 1/2
6 1/4	101		2 7/8	6 3/4	5 H90	2	NATIONAL	8P80	8 1/2

LAST CASING TUBING OR LINER

SIZE	WT. AND GR.	NO. OF JOINTS	FEET	KB. TO CSG. HEAD	SET AT	CEMENT USED (SACKS)	REMARKS
9 5/8	36# K55	38	1204	16.25	1201	886	

TIME DISTRIBUTION — HOURS

CODE NO.	OPERATION	MORN.	DAY	EVE.	TOTAL
1	RIG UP TEAR DOWN				
2	DRILLING ACTUAL				
3	REAMING				
4	CORING				
5	CLEAN TO BOTTOM AND CIRCULATING				
6	TRIPS	3 3/4			
7	RIG SERVICE		1/4		
8	RIG REPAIR				
9	CUT AND/OR SLIP LINE				
10	DEVIATION SURVEY				
11	[illegible] E LOG				
12	RUN CASING AND CEMENT				
13	WAIT ON CEMENT		7		
14	NIPPLE UP B.O.P.				
15	TEST B.O.P.				
16	DRILL STEM TEST				
17	PLUG BACK	1 3/4	3/4	8	
18	SQUEEZE CEMENT				
19	STUCK OR FISHING				
20	HANDLE TOOLS	1 1/2			
21	CONDITION MUD				
22	[illegible]ST CULATION				
23	LAY DOWN D.C	1			
24					
COMPLETION 40	PERFORATE				
COMPLETION 41	TUBING TRIPS				
COMPLETION 42	TREATING				
COMPLETION 43	SWABBING				
COMPLETION 44	TESTING				
COMPLETION 45					
60	ABANDON				
70	STANDBY				
	TOTALS				
	HOURS FOR SHELL ACCOUNT	8	8	8	24

CONTRACTOR EQUIP. RENTAL: BOILER — Code 267

HOLE CONDITION

1	HOLE DRAG (1000#)	
2	TORQUE ON BOTTOM (DP TURNS)	
3	FILL ON BOTTOM (FEET)	

DRILLING ASSEMBLY NO. | CODE AT END OF TOUR

BIT — FT.

ID OD X — FT.

DP STANDS — FT.

DP SINGLES — FT.

KELLY DOWN — FT.

TOTAL — FT.

WT. OF DC IN AIR — LBS.

WT. OF STRING — LBS.

BIT RECORD

BIT NO. | SIZE | MFG. | TYPE | JETS 1/32" | SERIAL NO. | DEPTH OUT | DEPTH IN | TOTAL FTG. | TOTAL HRS. RUN | BIT CONDITION 1/8" T/B/GAGE | REAMER CUTTER NO. | REAMER TYPE

MUD RECORD

TIME | WEIGHT | VIS.-SEC | PV/YP | GELS | W.L.-C.C. | PH | % SOLIDS | % SAND

MUD MATERIALS ADDED: TYPE | AMOUNT | TYPE | AMOUNT

MORNING TOUR

FOOTAGE

FROM	TO	ROT HOURS	DR-D RM-R CORE-C	CORE NO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M	WT. ON BIT (1000#)	PUMP (AIR) PRESS	AIR VOL (CFM)	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN
					J. Carbon & L. Hennerbichler / HR. OVERTIME — UNLOAD PLANE									
					MAY 20/71									

DEVIATION RECORD

DEPTH	DEVIATION°	DIRECTION	DEPTH	DEVIATION°	DIRECTION	DEPTH	DEVIATION°	DIRECTION

TIME LOG FROM	TIME LOG TO	ELAPSED TIME	CODE	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
12.00	1.30			FINISH PULL PACKER & LOAD OUT TEST TOOLS
1.30	2.30			LAY DOWN D.C.S
2.30	5.45			RUN IN OPEN END PICK UP 13 SINKE
				BREAK CIR.
5.45	8.30			Plug # 1 - 10,900 - 10,700
				110 SAXS PORTLAND CEMENT PLUS .04% HR4.
7.30	8.00			PULL OUT

DRILLER: J. Howard

DAY TOUR

FOOTAGE

FROM	TO	ROT HOURS	DR-D RM-R CORE-C	CORE NO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M	WT. ON BIT (1000#)	PUMP (AIR) PRESS	AIR VOL (CFM)	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN

DEVIATION RECORD

DEPTH	DEVIATION°	DIRECTION	DEPTH	DEVIATION°	DIRECTION	DEPTH	DEVIATION°	DIRECTION

TIME LOG FROM	TIME LOG TO	ELAPSED TIME	CODE	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
8.00	8.15	1/4		Serv Rig
8.15	9.30	1 1/4		Layed Down 52 Singles
9.30	10.15	3/4		Rig up & Run Plug #2
10.15	4.00	5 3/4		W.O.C. LAY DOWN D.P.
				Plug #2 - 8280 - 8150
				110 SAXS PORTLAND CEMENT Plus .04% HR4.
				Plug IN PLACE 10.15 AM

DRILLER: L. Johnson

EVENING TOUR

FOOTAGE

FROM	TO	ROT HOURS	DR-D RM-R CORE-C	CORE NO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M	WT. ON BIT (1000#)	PUMP (AIR) PRESS	AIR VOL (CFM)	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN

DEVIATION RECORD

DEPTH	DEVIATION°	DIRECTION	DEPTH	DEVIATION°	DIRECTION	DEPTH	DEVIATION°	DIRECTION

TIME LOG FROM	TIME LOG TO	ELAPSED TIME	CODE	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
4:00	8:00	4		W. O. C.
8:00	8:30	1/2		Run In Feel Plug #2 @ 8127'
8:30	9:30	1		Hoist to 6800' Ran Plug #3
9:30	12:00	2 1/2		W.O.C. Lay down drill pipe
				Plug #3 - 6800 - 6670
				90 SAXS PORTLAND CEMENT
				Plug IN PLACE 9:30 PM.

DRILLER: D. Turnbull

CP-38 (10/69)

DAILY DRILLING REPORT

WELL NAME: SHELL ARCTIC RED WEST

LOCATION: G-55 | PROVINCE: N. W. T.

OPERATOR: Shell Canada Limited | CONTRACTOR: GUSTAVSON | RIG NO.: 11

SIGNATURE OF OPERATOR'S REPRESENTATIVE: A. Brown | SIGNATURE OF CONTRACTOR'S TOOL PUSHER: Jack McLeod

DEPTH AT START OF MORNING TOUR	DEPTH AT END OF EVENING TOUR	DAILY PROGRESS	CUMULATIVE POTATING HOURS	DAYS FROM SPUD	DATE MONTH	DAY	YEAR
T.D.				50	5	20	71

DP. / DC. SIZE	WT. / FT.	GRADE	MIN. I.D.	TOOL JT O.D.	TYPE THREAD	PUMP NO.	PUMP MANUFACTURER	TYPE	STROKE LENGTH
4	14	E	2 7/8	5 1/4	4F.H	1	NATIONAL	8P80	8 1/2
6 3/4	101		2 7/8	6 7/4	5 H90	2	NATIONAL	8P80	8 1/2

LAST CASING TUBING OR LINER

SIZE	WT. AND GR.	NO. OF JOINTS	FEET	KB. TO CSG. HEAD	SET AT	CEMENT USED (SACKS)	REMARKS
9 5/8	36# K55	38	1204	16.25	1201	886	

TIME DISTRIBUTION — HOURS

CODE NO.	OPERATION	MORN.	DAY	EVE.	TOTAL
1	RIG UP TEAR DOWN				
2	DRILLING ACTUAL				
3	REAMING				
4	CORING				
5	CLEAN TO BOTTOM AND CIRCULATING	3/2			3 1/2
6	TRIPS	3	1 3/4	3 3/4	8 1/2
7	RIG SERVICE				
8	RIG REPAIR				
9	CUT AND/OR SLIP LINE	3/4			3/4
10	DEVIATION SURVEY				
11	[redacted] LOG				
12	RUN CASING AND CEMENT				
13	WAIT ON CEMENT				1
14	NIPPLE UP B.O.P.				
15	TEST B.O.P.				
16	DRILL STEM TEST		2 1/4	2 3/4	5
17	PLUG BACK				
18	SQUEEZE CEMENT				
19	STUCK OR FISHING				
20	HANDLE TOOLS		2 3/4	1 1/2	4 1/4
21	CONDITION MUD		1		1
22	[redacted] CIRCULATION				
23	W. O. O.	3/4	1 1/4		2
24					
COMPLETION 40	PERFORATE				
COMPLETION 41	TUBING TRIPS				
COMPLETION 42	TREATING				
COMPLETION 43	SWABBING				
COMPLETION 44	TESTING				
COMPLETION 45					
60	ABANDON				
70	STANDBY				
	TOTALS	8	8	8	24
	HOURS FOR SHELL ACCOUNT	8	8	8	24
CONTRACTOR EQUIP RENTAL	BOILER 1	8	8	8	24

Code 257

HOLE CONDITION

1	HOLE DRAG (1000#)	
2	TORQUE ON BOTTOM (DP TURNS)	
3	FILL ON BOTTOM (FEET)	

DRILLING ASSEMBLY AT END OF TOUR

NO.	CODE	BIT	I.D.	O.D.	FT.
1	RS		2 7/8	6 3/4	3.98
1	C		2 7/8	6 3/4	2.48
			I.D. X	O.D.	FT.
			I.D. X	O.D.	FT.
			I.D. X	O.D.	FT.
			I.D. X	O.D.	FT.
9	DC		2 7/8	6 3/4	279.34
1/0	DP	STANDS			FT.
	DP	SINGLES			FT.
	KELLY DOWN				FT.
	TOTAL				FT.
	WT. OF DC IN AIR				28M LBS.
	WT. OF STRING				168M LBS.

BIT RECORD

BIT NO.	A.R.
SIZE	8 3/4
MFG.	SEC.
TYPE	H7G
JETS 1/32"	CUT OUT
SERIAL NO	908157
DEPTH OUT	
DEPTH IN	
% SOLIDS	
% SAND	
TOTAL FTG.	
TOTAL HRS. RUN	
BIT CONDITION 1/8" T/B/GAGE	
REAMER CUTTER NO.	
REAMER TYPE	

MUD RECORD

TIME	12:30	3:00		
WEIGHT	9.5	9.3		
VIS.-SEC.	93	50		
PV/YP	/	/	/	
GELS.	/	/	/	
W.L.-C.C.	7.2	8.6		
PH	8.5	9.5		
% SOLIDS				
% SAND				

MUD MATERIALS ADDED

TYPE	AMOUNT	TYPE	AMOUNT
CAUSTIC	4	SKS	

FOOTAGE

FROM	TO	ROT HOURS	DR-D RM-R CORE-C	CORE NO	FORMATION (SHOW CORE RECOVERY)	ROTARY R P M	WT. ON BIT (1000#)	PUMP (AIR) PRESS	AIR VOL (CFM)	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S P M	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S P M	METHOD PUMPS RUN
								1450		6	120			

DEVIATION RECORD

DEPTH	DEVIATION°	DIRECTION	DEPTH	DEVIATION°	DIRECTION	DEPTH	DEVIATION°	DIRECTION

MORNING TOUR

TIME LOG FROM	TO	ELAPSED TIME	CODE	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
12.00	3.30	3 1/2		CIR. CON. MUD.
3.30	6.15	2 1/4		[redacted] PULL OUT TO C.S.
6.15	7.00	3/4		SLIP + CUT DRLG LINE
7.00	7.15	1/4		FINISH OUT
~~7.15~~				~~PICK UP TEST TOOLS~~
7.15	8.00	3/4		WAIT ON ORDERS

DRILLER: J. Hamil

DRILLING ASSEMBLY AT END OF TOUR

NO.	CODE	BIT	I.D.	O.D.	FT.
1	RS		2 7/8	6 3/4	3.96 FT.
1	C		2 7/8	6 3/4	2.48 FT.
			I.D. X	O.D.	FT.
			I.D. X	O.D.	FT.
			I.D. X	O.D.	FT.
			I.D. X	O.D.	FT.
4	DC		2 3/4	5 3/4	117.15 FT.
9	DC		2 7/8	6 3/4	279.84 FT.
55	DP	STANDS			5122.87 FT.
Packer		SINGLES			43.90 FT.
	KELLY DOWN				FT.
	TOTAL				5453.06 FT.
	WT. OF DC IN AIR				30M LBS.
	WT. OF STRING				84M LBS.

BIT RECORD

BIT NO.	
SIZE	
MFG.	
TYPE	
JETS 1/32"	
SERIAL NO.	
DEPTH OUT	
DEPTH IN	
% SOLIDS	
% SAND	
TOTAL FTG.	
TOTAL HRS. RUN	
BIT CONDITION 1/8" T/B/GAGE	
REAMER CUTTER NO.	
REAMER TYPE	

MUD RECORD

TIME				
WEIGHT				
VIS.-SEC.				
PV/YP	/	/	/	
GELS	/	/	/	
W.L.-C.C.				
PH				
% SOLIDS				
% SAND				

MUD MATERIALS ADDED

TYPE	AMOUNT	TYPE	AMOUNT

FOOTAGE

FROM	TO	ROT HOURS	DR-D RM-R CORE-C	CORE NO	FORMATION (SHOW CORE RECOVERY)	ROTARY R P M	WT. ON BIT (1000#)	PUMP (AIR) PRESS	AIR VOL (CFM)	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S P M	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S P M	METHOD PUMPS RUN

DEVIATION RECORD

DEPTH	DEVIATION°	DIRECTION	DEPTH	DEVIATION°	DIRECTION	DEPTH	DEVIATION°	DIRECTION

DAY TOUR

TIME LOG FROM	TO	ELAPSED TIME	CODE	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
8.00	9.15	1 1/4		W/O orders
9.15	12.00	2 3/4		Make up Testing Tools
12.00	1.45	1 3/4		Ran in (Slow) measured in
1.45	2.30	3/4		Head up & seat Packer
2.30	4.00	1/2		D.S.T #2

F. Bengtson - 4h - Overtime

DRILLER: L. Johnson

FOOTAGE

FROM	TO	ROT HOURS	DR-D RM-R CORE-C	CORE NO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT ON BIT (1000#)	PUMP (AIR) PRESS.	AIR VOL (CFM.)	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN
10,900					DST #2 (5420'-5568')									
					Bear Rock									
					Recovered 3081 FT. MCSW									
					T.O. 90 MIN., 151.60/2555, PF 5, FSI 90/2503									

DEVIATION RECORD

DEPTH	DEVIATION°	DIRECTION	DEPTH	DEVIATION°	DIRECTION	DEPTH	DEVIATION°	DIRECTION

EVENING TOUR

TIME LOG FROM	TO	ELAPSED TIME	CODE	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
4.00	5.15	1 1/4		Open Tool & Flow Tool.
5.15	6.45	1 1/2		Shut in Testing Tool.
6.45	10.30	3 3/4		Break out Testing Line & Hoist Packer
10.30	12.00	1 1/2		Break down Packer.
		8		

DRILLER: D. Lundell

CP-38 (10/69)

DAILY DRILLING REPORT

WELL NAME		
SHELL ARCTIC RED WEST		
LOCATION	G-55	PROVINCE N. W. T.

OPERATOR	CONTRACTOR	RIG NO.	DEPTH AT START OF MORNING TOUR	DEPTH AT END OF EVENING TOUR	DAILY PROGRESS	CUMULATIVE ROTATING HOURS	DAYS FROM SPUD	DATE MONTH	DAY	YEAR
Shell Canada Limited	GUSTAUSON	11	10,900	10,900	— TD		49	5	19	71

SIGNATURE OF OPERATOR'S REPRESENTATIVE: L. Brown
SIGNATURE OF CONTRACTOR'S TOOL PUSHER: [signature]

DP./DC. SIZE	WT./FT.	GRADE	MIN. I.D.	TOOL JT O.D.	TYPE THREAD	PUMP NO.	PUMP MANUFACTURER	TYPE	STROKE LENGTH
4	14	E	2 7/8	5 1/4	4 F.H.	1	NATIONAL	8P80	8 1/2
6 3/4	101		2 7/8	6 3/4	5 H.90	2	NATIONAL	8P80	8 1/2

LAST CASING, TUBING OR LINER	SIZE	WT. AND GR.	NO. OF JOINTS	FEET	KB. TO CSG. HEAD	SET AT	CEMENT USED (SACKS)	REMARKS
	9 5/8	36# K55	38	1204	16.25	1201	886	

TIME DISTRIBUTION — HOURS

CODE NO.	OPERATION	MORN.	DAY	EVE.	TOTAL
1	RIG UP TEAR DOWN				
2	DRILLING ACTUAL				
3	REAMING				
4	CORING				
5	CLEAN TO BOTTOM AND CIRCULATING				
6	TRIPS			4 1/2	4 1/2
7	RIG SERVICE				
8	RIG REPAIR				
9	CUT AND/OR SLIP LINE				
10	DEVIATION SURVEY				
11	[WIRE] LOG	8	8	3	19
12	RUN CASING AND CEMENT				
13	WAIT ON CEMENT				
14	NIPPLE UP B.O.P.				
15	TEST B.O.P.				
16	DRILL STEM TEST				
17	PLUG BACK				
18	SQUEEZE CEMENT				
19	STUCK OR FISHING				
20	HANDLE TOOLS			1/2	1/2
21	CONDITION MUD				
22	[LO]ST CIRCULATION				
23					
24					
40	COMPLETION: PERFORATE				
41	TUBING TRIPS				
42	TREATING				
43	SWABBING				
44	TESTING				
45					
60	ABANDON				
70	STANDBY				
	TOTALS	8	8	8	24
	HOURS FOR SHELL ACCOUNT	8	8	8	24
	CONTRACTOR EQUIP. RENTAL: BOILER #2	8	8	8	

Code 257

HOLE CONDITION

1	HOLE DRAG (1000#)	
2	TORQUE ON BOTTOM (DP TURNS)	
3	FILL ON BOTTOM (FEET)	

MORNING TOUR

Drilling assembly, bit record, mud record, footage, formation and deviation record: no entries.

TIME LOG FROM	TO	ELAPSED TIME	CODE	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
12.00	8.00			LOGGING
				LOG RAN: MLC - 10898' - 3600'
				SEISMIC REFERENCE SURVEY

DRILLER: J. Homil

DAY TOUR

Drilling assembly, bit record, mud record, footage, formation and deviation record: no entries.

TIME LOG FROM	TO	ELAPSED TIME	CODE	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
800	400	8		Logging

F. Bengtson 4 hrs. Over-time

DRILLER: [signature] Johnson

EVENING TOUR

DRILLING ASSEMBLY AT END OF TOUR

NO.	CODE	BIT I.D. x O.D.	FT.
1	BS	2 7/8 x 6 3/4	3.97
9	DC	2 7/8 x 6 3/4	279.34
1	%		2.40
113	DP	STANDS	
2	DP	SINGLES	10,587.03
		KELLY DOWN	28.00
		TOTAL	10,900.24
		WT. OF DC IN AIR	LBS.
		WT. OF STRING	LBS.

BIT RECORD

BIT NO.	R.R
SIZE	8 3/4
MFG.	SEC
TYPE	H7G
JETS 1/32"	Cut out
SERIAL NO.	908157
DEPTH OUT	
DEPTH IN	10900
TOTAL FTG.	
TOTAL HRS. RUN	
BIT CONDITION 1/8" T/B/GAGE	
REAMER CUTTER NO.	
REAMER TYPE	

FOOTAGE

FROM	TO
10,900	

TIME LOG FROM	TO	ELAPSED TIME	CODE	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
400	700	3		Logging
700	730	1/2		TEAR out Logging Tools
730				Lay Down 10 DCs & Monel
	1200	4 1/2		Run in To Clean out Hole.

DRILLER: D. Lindall

CP-38 (10/69)

DAILY DRILLING REPORT

WELL NAME	SHELL ARCTIC RED WEST
LOCATION	G-55
PROVINCE	N. W. T.

OPERATOR	CONTRACTOR	RIG NO.	DEPTH AT START OF MORNING TOUR	DEPTH AT END OF EVENING TOUR	DAILY PROGRESS	CUMULATIVE ROTATING HOURS	DAYS FROM SPUD	DATE MONTH	DAY	YEAR
Shell Canada Limited	GUSTAUSON	11	10892				48	5	18	71

SIGNATURE OF OPERATOR'S REPRESENTATIVE: J. Brown
SIGNATURE OF CONTRACTOR'S TOOL PUSHER: Jack McQuick

DP. / DC. SIZE	WT. / FT.	GRADE	MIN. I.D.	TOOL JT O.D.	TYPE THREAD	PUMP NO.	PUMP MANUFACTURER	TYPE	STROKE LENGTH
4	14	E.	2 7/8	5 1/4	4.FH	1	NATIONAL	8P80	8 1/2
6 3/4	101		2 7/8	6 3/4	5H90	2	NATIONAL	8P80	8 1/2

LAST CASING, TUBING OR LINER	SIZE	WT. AND GR.	NO. OF JOINTS	FEET	KB. TO CSG. HEAD	SET AT	CEMENT USED (SACKS)	REMARKS
	9 5/8	36# K55	38	1204	16.25	1201	886	

TIME DISTRIBUTION — HOURS

CODE NO.	OPERATION	MORN.	DAY	EVE	TOTAL
1	RIG UP TEAR DOWN				
2	DRILLING ACTUAL	1 1/4			
3	REAMING				
4	CORING				
5	CLEAN TO BOTTOM AND CIRCULATING	2			
6	TRIPS	4 1/4			
7	RIG SERVICE				
8	RIG REPAIR				
9	CUT AND/OR SLIP LINE				
10	DEVIATION SURVEY	1/4			
1[illegible]	[illegible]RE [illegible]E LOG				
12	RUN CASING AND CEMENT				
13	WAIT ON CEMENT				
14	NIPPLE UP B.O.P.				
15	TEST B.O.P.				
16	DRILL STEM TEST				
17	PLUG BACK				
18	SQUEEZE CEMENT				
19	STUCK OR FISHING				
20	HANDLE TOOLS				
21	CONDITION MUD				
2[illegible]	[illegible]ST [illegible]RCULATION				
23	Logging	1/2	8	8	
24					
COMPLETION 40	PERFORATE				
41	TUBING TRIPS				
42	TREATING				
43	SWABBING				
44	TESTING				
45					
60	ABANDON				
70	STANDBY				
	TOTALS	8	8	8	24
	HOURS FOR SHELL ACCOUNT	8	8	8	24
EQUIP. RENTAL	BOILER	8	8	8	24
	1 1/4 HRS Code 232				
	22 3/4 CODE 257				

HOLE CONDITION

1	HOLE DRAG (1000#)	20
2	TORQUE ON BOTTOM (DP TURNS)	1 1/4
3	FILL ON BOTTOM (FEET)	

MORNING TOUR

DRILLING ASSEMBLY AT END OF TOUR

NO.	CODE	BIT	FT.
1	NR	2 3/8 x 6 3/4	5.33
1	DMS	3 x 6 1/8	14.80
1	SI	2 3/8 x 6 3/4	4.10
1	CO	2 3/8 x 6 3/4	2.48
19	DC	2 3/8 x 6 3/4	586.77
110	DP	STANDS	10243.05
	DP	SINGLES	
		KELLY DOWN	43.
		TOTAL	10900.53
		WT. OF DC IN AIR	59 LBS.
		WT. OF STRING	192 M LBS.

BIT RECORD

BIT NO.	25
SIZE	8 3/4
MFG.	REED
TYPE	SCM5
JETS 1/32"	13 13 13
SERIAL NO.	685990
DEPTH OUT	10900
DEPTH IN	10772
TOTAL FTG.	128
TOTAL HRS. RUN	19 1/4
BIT CONDITION 1/8" T/B/GAGE	6 6 0
REAMER CUTTER NO.	
REAMER TYPE	

MUD RECORD

TIME	12⁰⁰	T
WEIGHT	93	R
VIS.-SEC.	52	I
PV/YP		P
GELS		
W.L.-C.C.	8.2	
PH	10.5	
% SOLIDS		
% SAND		

MUD MATERIALS ADDED: TYPE | AMOUNT | TYPE | AMOUNT

FOOTAGE

FROM	TO	ROT HOURS	DR-D RM-R CORE-C	CORE NO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT ON BIT (1000#)	PUMP (AIR) PRESS	AIR VOL (CFM)	PUMP NO 1 LINER SIZE	S.P.M.	PUMP NO. 2 LINER SIZE	S.P.M.	METHOD PUMPS RUN
10892	10900	1 1/4	8			40	45	2000		6	120	6		

DEVIATION RECORD

DEPTH	DEVIATION°	DIRECTION	DEPTH	DEVIATION°	DIRECTION	DEPTH	DEVIATION°	DIRECTION
10890	5°							

TIME LOG

FROM	TO	ELAPSED TIME	CODE	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
12.00	1.15	1 1/4		DRILL
1.15	3.15	2		CIR.
3.15	7.30	4 1/4		DROP SURVEY MEASURE OUT
7.30	8.00	1/2		LOGGING PIPE TALLY 10,900
				MEASURE OUT 10,900.

DRILLER: J. Hamil

DAY TOUR

DRILLING ASSEMBLY AT END OF TOUR

NO.	CODE	BIT	FT.
	DP	STANDS	
	DP	SINGLES	
		KELLY DOWN	
		TOTAL	
		WT. OF DC IN AIR	LBS.
		WT. OF STRING	LBS.

BIT RECORD

BIT NO. | SIZE | MFG. | TYPE | JETS 1/32" | SERIAL NO. | DEPTH OUT | DEPTH IN | TOTAL FTG. | TOTAL HRS. RUN | BIT CONDITION 1/8" T/B/GAGE | REAMER CUTTER NO. | REAMER TYPE

MUD RECORD

TIME | WEIGHT | VIS.-SEC. | PV/YP | GELS | W.L.-C.C. | PH | % SOLIDS | % SAND

MUD MATERIALS ADDED: TYPE | AMOUNT | TYPE | AMOUNT

FOOTAGE

FROM	TO	ROT HOURS	DR-D RM-R CORE-C	CORE NO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT ON BIT (1000#)	PUMP (AIR) PRESS	AIR VOL (CFM)	PUMP NO 1 LINER SIZE	S.P.M.	PUMP NO. 2 LINER SIZE	S.P.M.	METHOD PUMPS RUN
10900	T.D.													

DEVIATION RECORD

DEPTH	DEVIATION°	DIRECTION	DEPTH	DEVIATION°	DIRECTION	DEPTH	DEVIATION°	DIRECTION

TIME LOG

FROM	TO	ELAPSED TIME	CODE	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
800	400	8		Logging

F. Bengtson 4 hr Overtime

DRILLER: E. Johnson

EVENING TOUR

DRILLING ASSEMBLY AT END OF TOUR

NO.	CODE	BIT	FT.
	DP	STANDS	
	DP	SINGLES	
		KELLY DOWN	
		TOTAL	
		WT. OF DC IN AIR	LBS.
		WT. OF STRING	LBS.

BIT RECORD

BIT NO. | SIZE | MFG. | TYPE | JETS 1/32" | SERIAL NO. | DEPTH OUT | DEPTH IN | TOTAL FTG. | TOTAL HRS. RUN | BIT CONDITION 1/8" T/B/GAGE | REAMER CUTTER NO. | REAMER TYPE

MUD RECORD

TIME | WEIGHT | VIS.-SEC. | PV/YP | GELS | W.L.-C.C. | PH | % SOLIDS | % SAND

MUD MATERIALS ADDED: TYPE | AMOUNT | TYPE | AMOUNT

FOOTAGE

FROM | TO | ROT HOURS | DR-D RM-R CORE-C | CORE NO | FORMATION (SHOW CORE RECOVERY) | ROTARY R.P.M. | WT. ON BIT (1000#) | PUMP (AIR) PRESS | AIR VOL (CFM) | PUMP NO. 1 LINER SIZE | S.P.M. | PUMP NO. 2 LINER SIZE | S.P.M. | METHOD PUMPS RUN

DEVIATION RECORD

DEPTH | DEVIATION° | DIRECTION | DEPTH | DEVIATION° | DIRECTION | DEPTH | DEVIATION° | DIRECTION

TIME LOG

FROM	TO	ELAPSED TIME	CODE	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
800	1200	8		Logging
				RAN: BSGR-C – 10899'-1200'
				SNP – 10900'-3600'
				DILL – 10897'-1200'
				FDC – 10900'-1200'

DRILLER: D. Tindall

CP-38 (10/69)

DAILY DRILLING REPORT

WELL NAME: SHELL ARCTIC RED WEST

LOCATION: G-55 | PROVINCE: N. W. T

OPERATOR: Shell Canada Limited | SIGNATURE OF OPERATOR'S REPRESENTATIVE: L. Brown

CONTRACTOR: GUSTAVSON Drlg (1964 Ltd) | RIG NO.: 11 | SIGNATURE OF CONTRACTOR'S TOOL PUSHER: [signature]

DEPTH AT START OF MORNING TOUR	DEPTH AT END OF EVENING TOUR	DAILY PROGRESS	CUMULATIVE ROTATING HOURS	DAYS FROM SPUD	DATE MONTH	DAY	YEAR
10772	10892	120	725 1/4	47	5	17	71

DP./DC. SIZE	WT./FT.	GRADE	MIN. I.D.	TOOL JT O.D.	TYPE THREAD
4	14	E	2 7/8	5 1/4	4 F.H.
6 7/4	101		2 7/8	6 3/4	5 H90

PUMP NO.	PUMP MANUFACTURER	TYPE	STROKE LENGTH
1	NAT	8P80	8 1/2
2	NAT	8P80	8 1/2

LAST CASING TUBING OR LINER	SIZE	WT. AND GR.	NO. OF JOINTS	FEET	KB TO CSG. HEAD	SET AT	CEMENT USED (SACKS)	REMARKS
	9 5/8	36# K55	35	1204	16.25	1201	886	

TIME DISTRIBUTION — HOURS

CODE NO.	OPERATION	MORN.	DAY	EVE.	TOTAL
1	RIG UP TEAR DOWN				
2	DRILLING ACTUAL	2 1/2	7 3/4	7 3/4	18
3	REAMING				
4	CORING				
5	CLEAN TO BOTTOM AND CIRCULATING				
6	TRIPS	5			5
7	RIG SERVICE		1/4	1/4	1/2
8	RIG REPAIR				
9	CUT AND/OR SLIP LINE	1/4			1/4
10	DEVIATION SURVEY				
11	WIRE LINE LOG				
12	RUN CASING AND CEMENT				
13	WAIT ON CEMENT				
14	NIPPLE UP B.O.P.				
15	TEST B.O.P.	1/4	✓		1/4
16	DRILL STEM TEST				
17	PLUG BACK				
18	SQUEEZE CEMENT				
19	STUCK OR FISHING				
20	HANDLE TOOLS				
21	CONDITION MUD				
22	LOST CIRCULATION				
23					
24					
COMPLETION 40	PERFORATE				
41	TUBING TRIPS				
42	TREATING				
43	SWABBING				
44	TESTING				
45					
60	ABANDON				
70	STANDBY				
	TOTALS	8	8	8	24
	HOURS FOR SHELL ACCOUNT	8	8	8	24
EQUIPMENT CONTRACTOR	BOILER #1	8	8	8	24

Code 232

HOLE CONDITION

1	HOLE DRAG (1000#)	2000
2	TORQUE ON BOTTOM (DP TURNS)	
3	FILL ON BOTTOM (FEET)	NONE

DRILLING ASSEMBLY AT END OF TOUR

NO.	CODE	BIT	I.D.	O.D.	FT.
1	NR	2 1/2 x 6 3/4			5.33
1	DM	3 x 6 3/4			14.80
1	SI	2 1/2 x 6 3/4			4.10
1	CO	2 1/2 x 6 3/4			2.48
			I.D.	O.D.	FT.
		X			
19	DC	2 1/2 x 6 3/4			586.77
109	DP	STANDS			10148.67
	DP	SINGLES			2 FT.
KELLY DOWN					23.00
TOTAL					10785.15
WT. OF DC IN AIR					57M LBS.
WT. OF STRING					190M LBS.

BIT RECORD

BIT NO.	24	25
SIZE	8 3/4	8 3/4
MFG.	H.W.	REED
TYPE	RC7XJ	SCM5
JETS 1/32"	13 13 13	13 13 13
SERIAL NO.	TC3486	85990
DEPTH OUT	10772	
DEPTH IN	10594	10772
TOTAL FTG.	178	13
TOTAL HRS. RUN	25 1/4	2 1/2
BIT CONDITION 1/8" T/B/GAGE	2 7 0	
REAMER CUTTER NO.		
REAMER TYPE		

MUD RECORD

TIME	7	1	
WEIGHT	T	R	
VIS.-SEC.	R	I	
PV/YP	X	P	/
GELS	P	/	/
W.L.-C.C.			
PH			
% SOLIDS			
% SAND			

MUD MATERIALS ADDED

TYPE	AMOUNT	TYPE	AMOUNT

MORNING TOUR

FOOTAGE

FROM	TO	ROT HOURS	DR-D / RM-R / CORE-C	CORE NO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT. ON BIT (1000#)	PUMP (AIR) PRESS	AIR VOL (CFM)	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN
10772	10785	2 1/2	13			40	20-40	2000		6	120	6		

DEVIATION RECORD

DEPTH	DEVIATION°	DIRECTION	DEPTH	DEVIATION°	DIRECTION	DEPTH	DEVIATION°	DIRECTION

TIME LOG

FROM	TO	ELAPSED TIME	CODE	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
12.00	2.00			FINISH OUT BLIND RAMS
2.00	2.30			RUN IN A.C.S
2.30	2.45			SLIP DRLG LINE
2.45	5.30			RUN IN BREAK CIR.
5.30	8.00			DRILL

DRILLER: J. Hamil

DRILLING ASSEMBLY AT END OF TOUR

NO.	CODE	BIT	I.D.	O.D.	FT.
1	NR	2 1/2 x 6 3/4			5.33
1	DM	3" x 6 3/4			14.80
1	SI	2 1/2 x 6 3/4			4.10
1	CO	2 1/2 x 6 3/4			2.48
			I.D.	O.D.	FT.
		X			
19	DC	2 1/2 x 6 3/4			586.77
109	DP	STANDS			FT.
2	DP	SINGLES			10,311.59 FT.
KELLY DOWN					15.00 FT.
TOTAL					10,840.07 FT.
WT. OF DC IN AIR					59M LBS.
WT. OF STRING					192M LBS.

BIT RECORD

BIT NO.	25
SIZE	8 3/4"
MFG.	Reed
TYPE	SCM5
JETS 1/32"	13 13 13
SERIAL NO.	685990
DEPTH OUT	
DEPTH IN	10,772
TOTAL FTG.	68'
TOTAL HRS. RUN	10 1/4
BIT CONDITION 1/8" T/B/GAGE	I D
REAMER CUTTER NO.	
REAMER TYPE	

MUD RECORD

TIME	900	1200	300
WEIGHT	9.3	9.2	9.2
VIS.-SEC.	46	48	49
PV/YP	/	/	/
GELS	/	/	/
W.L.-C.C.	8.8	8.0	8.0
PH	9.5	10.	10.5
% SOLIDS			
% SAND	trace	2	3

MUD MATERIALS ADDED

TYPE	AMOUNT	TYPE	AMOUNT
CMC-LTE	2 Bags		
GEL	15 Bags		
CMC	2 Bags		

DAYTOUR

FOOTAGE

FROM	TO	ROT HOURS	DR-D / RM-R / CORE-C	CORE NO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT. ON BIT (1000#)	PUMP (AIR) PRESS	AIR VOL (CFM)	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN
10,785	10,840	7 3/4	55			40	46	2,000		6"	120	6"		

DEVIATION RECORD

DEPTH	DEVIATION°	DIRECTION	DEPTH	DEVIATION°	DIRECTION	DEPTH	DEVIATION°	DIRECTION

TIME LOG

FROM	TO	ELAPSED TIME	CODE	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
8.00	8.15	1/4		Serv Rig & checked BOP
8.15	4.00	7 3/4		Drlg.
				F. Bengtson - 4 Hr. Overtime

DRILLER: G. Gustavson

DRILLING ASSEMBLY AT END OF TOUR

NO.	CODE	BIT	I.D.	O.D.	FT.
1	NR	2 1/2 x 6 3/4			5.33
1	DM	3 x 6 3/4			14.80
1	SI	2 1/2 x 6 3/4			4.10
1	CO	2 1/2 x 6 3/4			2.48
			I.D.	O.D.	FT.
		X			
19	DC	2 1/2 x 6 3/4			586.77
110	DP	STANDS			10,243.05
	DP	SINGLES			FT.
KELLY DOWN					36.00 FT.
TOTAL					10,892.53
WT. OF DC IN AIR					59 M LBS.
WT. OF STRING					192M LBS.

BIT RECORD

BIT NO.	25
SIZE	8 3/4
MFG.	Reed
TYPE	SCM5
JETS 1/32"	13 13 13
SERIAL NO.	685990
DEPTH OUT	
DEPTH IN	10,772
TOTAL FTG.	120
TOTAL HRS. RUN	18
BIT CONDITION 1/8" T/B/GAGE	
REAMER CUTTER NO.	
REAMER TYPE	

MUD RECORD

TIME	430	800	1100
WEIGHT	9.3	9.3	9.3
VIS.-SEC.	50	50	55
PV/YP	/	/	/
GELS	/	/	/
W.L.-C.C.	8.0	8.6	8.4
PH	9.5	10	10.5
% SOLIDS	8.6	8.5	8.4
% SAND	trace	1	2

MUD MATERIALS ADDED

TYPE	AMOUNT	TYPE	AMOUNT
GEL	15 Bags		
CMC	1 Bags		

EVENING TOUR

FOOTAGE

FROM	TO	ROT HOURS	DR-D / RM-R / CORE-C	CORE NO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT. ON BIT (1000#)	PUMP (AIR) PRESS	AIR VOL (CFM)	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN
10,840	10892	7 3/4	52			40	46	2000		6	120			

DEVIATION RECORD

DEPTH	DEVIATION°	DIRECTION	DEPTH	DEVIATION°	DIRECTION	DEPTH	DEVIATION°	DIRECTION

TIME LOG

FROM	TO	ELAPSED TIME	CODE	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
4.00	4.15	1/4		Rig Ser ✓ BOPs.
4.15	12.00	7 3/4		Drlg 8 3/4 Hole
		8		

DRILLER: D. Tindall

CP-38 (10/69)

DAILY DRILLING REPORT

WELL NAME: SHELL ARCTIC RED WEST G-55

LOCATION: PROVINCE: N. W. T.

OPERATOR: Shell Canada Limited

SIGNATURE OF OPERATOR'S REPRESENTATIVE: L. Brown

CONTRACTOR: GUSTAVSON

SIGNATURE OF CONTRACTOR'S TOOL PUSHER: Jack McLeod

RIG NO.: 11

DEPTH AT START OF MORNING TOUR	DEPTH AT END OF EVENING TOUR	DAILY PROGRESS	CUMULATIVE ROTATING HOURS	DAYS FROM SPUD	DATE MONTH	DAY	YEAR
10625	10772	147	707	46	5	16	71

DP./DC. SIZE	WT./FT.	GRADE	MIN. I.D.	TOOL JT O.D.	TYPE THREAD	PUMP NO.	PUMP MANUFACTURER	TYPE	STROKE LENGTH
4	14.	E.	3 7/8	5 1/4	4F.H.	1	NAT.	8P80	8 1/2
6 3/4	101		2 7/8	6 1/4	5 A.90	2	NAT.	8P80	8 1/2

LAST CASING TUBING OR LINER

SIZE	WT. AND GR.	NO. OF JOINTS	FEET	KB. TO CSG. HEAD	SET AT	CEMENT USED (SACKS)	REMARKS
9 5/8	36# K55	38	1204	16.25	1201	886	

TIME DISTRIBUTION — HOURS

CODE NO.	OPERATION	MORN.	DAY	EVE.	TOTAL
1	RIG UP TEAR DOWN				
2	DRILLING ACTUAL	7 1/4	7 3/4	5 3/4	21 1/4
3	REAMING				
4	CORING				
5	CLEAN TO BOTTOM AND CIRCULATING				
6	TRIPS			1 3/4	1 3/4
7	RIG SERVICE		1/4	1/4	1/2
8	RIG REPAIR				
9	CUT AND/OR SLIP LINE				
10	DEVIATION SURVEY			1/4	1/4
11	[illegible] LOG				
12	RUN CASING AND CEMENT				
13	WAIT ON CEMENT				
14	NIPPLE UP B.O.P.				
15	TEST B.O.P.	1/4	✓		1/4
16	DRILL STEM TEST				
17	PLUG BACK				
18	SQUEEZE CEMENT				
19	STUCK OR FISHING				
20	HANDLE TOOLS				
21	CONDITION MUD				
22	[illegible] CIRCULATION				
23					
24					
COMPLETION 40	PERFORATE				
41	TUBING TRIPS				
42	TREATING				
43	SWABBING				
44	TESTING				
45					
60	ABANDON				
70	STANDBY				
	TOTALS	8	8	8	24
	HOURS FOR SHELL ACCOUNT	8	8	8	24
CONTRACTOR EQUIP RENTAL	BOILER #2	8	8	8	24

Code 232.

HOLE CONDITION

1	HOLE DRAG (1000#)	16m
2	TORQUE ON BOTTOM (DP TURNS)	
3	FILL ON BOTTOM (FEET)	

DRILLING ASSEMBLY AT END OF TOUR

NO.	CODE	BIT	FT.
1	NR	I.D. 2 7/8 x O.D. 6 3/4	5.33
1	DM	3 x 6 1/2	14.80
1	51	I.D. 2 7/8 x O.D. 6 3/4	4.10
1	CO	I.D. 2 7/8 x O.D. 6 3/4	2.48
		I.D. X O.D.	FT.
		I.D. X O.D.	FT.
		I.D. X O.D.	FT.
19	DC	I.D. 2 7/8 x O.D. 6 3/4	586.77
107	DP	STANDS	FT.
2	DP	SINGLES	1002.28
KELLY DOWN			42.00
TOTAL			10678.62
WT. OF DC IN AIR			59m LBS.
WT. OF STRING			192m LBS.

BIT RECORD

BIT NO.	24
SIZE	8 3/4
MFG.	H.W
TYPE	RC 7XJ
JETS 1/32"	13 13 13
SERIAL NO.	JC946
DEPTH OUT	
DEPTH IN	10594
TOTAL FTG.	84
TOTAL HRS. RUN	11 1/4
BIT CONDITION 1/8" T/B/GAGE	1 4
REAMER CUTTER NO.	
REAMER TYPE	

MUD RECORD

TIME	12.00	4.00	
WEIGHT	9.4	9.3	
VIS.-SEC.	45	45	
PV/YP	/	/	/
GELS	/	/	/
W.L.-C.C.	8.6	8.8	
PH	10.0	10.5	
% SOLIDS	-		
% SAND			

MUD MATERIALS ADDED

TYPE	AMOUNT	TYPE	AMOUNT
CORR-INHB	2 CANS		
CAUSTIC	4 SKS.		
GEL	10 SKS.		
REC. CMC	2 SKS		

FOOTAGE

FROM	TO	ROT HOURS	DR-D RM-R CORE-C	CORE NO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT. ON BIT (1000#)	PUMP (AIR) PRESS	AIR VOL (CFM)	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN
10625	10678	7 3/4	53			40	45	2000		6	120	6		
								600		6	60	"		

DEVIATION RECORD

DEPTH	DEVIATION°	DIRECTION	DEPTH	DEVIATION°	DIRECTION	DEPTH	DEVIATION°	DIRECTION

MORNING TOUR

TIME LOG FROM	TO	ELAPSED TIME	CODE	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
12.00	3.15			DRILL
3.15	3.30			CHECK B. O. P. SER. RIG
3.30	8.00			DRILL
				HELD BLOWOUT MEETING

DRILLER: L. Howard

DRILLING ASSEMBLY AT END OF TOUR

NO.	CODE	BIT	FT.
1	NR	I.D. 2 7/8 x O.D. 6 3/4	5.33
1	DM	3 x 6 1/2	14.80
1	SI	I.D. 2 7/8 x O.D. 6 3/4	4.10
1	CO	I.D. 2 7/8 x O.D. 6 3/4	2.48
		I.D. X O.D.	FT.
		I.D. X O.D.	FT.
		I.D. X O.D.	FT.
19	DC	I.D. 2 7/8 x O.D. 6 3/4	586.77
108	DP	STANDS	FT.
1	DP	SINGLES	10.31
KELLY DOWN			FT.
TOTAL			FT.
WT. OF DC IN AIR			59m LBS.
WT. OF STRING			192m LBS.

BIT RECORD

BIT NO.	24
SIZE	8 3/4
MFG.	H.W
TYPE	RC7XJ
JETS 1/32"	13 13 13
SERIAL NO.	JC946
DEPTH OUT	
DEPTH IN	10594
TOTAL FTG.	137
TOTAL HRS. RUN	19 1/2
BIT CONDITION 1/8" T/B/GAGE	
REAMER CUTTER NO.	
REAMER TYPE	

MUD RECORD

TIME	8.00	12.00	3.00
WEIGHT	9.3	9.3+	9.3+
VIS.-SEC.	46	45	45
PV/YP	/	/	/
GELS	/	/	/
W.L.-C.C.	9.2	9.0	8.8
PH	10.5	10.5	10.5
% SOLIDS SALINITY	23100		
% SAND			

MUD MATERIALS ADDED

TYPE	AMOUNT	TYPE	AMOUNT
GEL	20	BAGS	
CMC	6	BAGS	
CORREXIT	4	CANS	

FOOTAGE

FROM	TO	ROT HOURS	DR-D RM-R CORE-C	CORE NO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT. ON BIT (1000#)	PUMP (AIR) PRESS	AIR VOL (CFM)	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN
10,678'	10,731	7 3/4	53			40	46	2,000		6"	120	6"		

DEVIATION RECORD

DEPTH	DEVIATION°	DIRECTION	DEPTH	DEVIATION°	DIRECTION	DEPTH	DEVIATION°	DIRECTION

DAY TOUR

TIME LOG FROM	TO	ELAPSED TIME	CODE	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
8.00	8.15	1/4		Serv Rig & Checked BOP
8.15				Drlg

F. Bengtson - 4 hrs. Overtime

DRILLER: E. Johnson

DRILLING ASSEMBLY AT END OF TOUR

NO.	CODE	BIT	FT.
1	NR	I.D. 2 7/8 x O.D. 6 3/4	5.33
1	DM	3 x 6 1/2	14.80
1	SI	I.D. 2 7/8 x O.D. 6 3/4	4.10
1	CO	I.D. 2 7/8 x O.D. 6 3/4	2.48
		I.D. X O.D.	FT.
19	DC	I.D. 2 7/8 x O.D. 6 3/4	586.77
108	DP	STANDS	FT.
2	DP	SINGLES	1011.22
KELLY DOWN			42 FT.
TOTAL			10,772.30
WT. OF DC IN AIR			59m LBS.
WT. OF STRING			192m LBS.

BIT RECORD

BIT NO.	24
SIZE	8 3/4
MFG.	H.W
TYPE	RC7XJ
JETS 1/32"	13 13 13
SERIAL NO.	JC946
DEPTH OUT	10772
DEPTH IN	10594
TOTAL FTG.	178
TOTAL HRS. RUN	25 1/4
BIT CONDITION 1/8" T/B/GAGE	1 6 0
REAMER CUTTER NO.	
REAMER TYPE	

MUD RECORD

TIME	5.00		
WEIGHT	9.3		
VIS.-SEC.	50		
PV/YP	/	/	/
GELS	/	/	/
W.L.-C.C.	9.2		
PH	10.0		
% SOLIDS			
% SAND			

MUD MATERIALS ADDED

TYPE	AMOUNT	TYPE	AMOUNT
GEL	10	BAGS	
CMC	2	BAGS	
CORREXIT	4	CANS	

FOOTAGE

FROM	TO	ROT HOURS	DR-D RM-R CORE-C	CORE NO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT. ON BIT (1000#)	PUMP (AIR) PRESS	AIR VOL (CFM)	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN
10,731	10,772	5 3/4	41			40	46	2000		6	120			

DEVIATION RECORD 10772

DEPTH	DEVIATION°	DIRECTION	DEPTH	DEVIATION°	DIRECTION	DEPTH	DEVIATION°	DIRECTION

EVENING TOUR

TIME LOG FROM	TO	ELAPSED TIME	CODE	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
4.00	4.15	1/4		Rig Ser. / BOPs (Held B.O.P. Drill)
4.15	10.00	5 3/4		Drlg 8 3/4 Hole.
10.00	10.15	1/4		Survey.
10.15	12.00	1 3/4		Pull out Bit #24
		8		

DRILLER: D. Tindall

CP-38 (10/69)

DAILY DRILLING REPORT

WELL NAME: SHELL ARCTIC RED WEST G-55

LOCATION: PROVINCE: N. W. T

OPERATOR: Shell Canada Limited — SIGNATURE OF OPERATOR'S REPRESENTATIVE: D. Brown

CONTRACTOR: GUSTAVSON — SIGNATURE OF CONTRACTOR'S TOOL PUSHER: Jack McLeod

RIG NO.: 11

DEPTH AT START OF MORNING TOUR	DEPTH AT END OF EVENING TOUR	DAILY PROGRESS	CUMULATIVE ROTATING HOURS	DAYS FROM SPUD	DATE MONTH	DATE DAY	DATE YEAR
10594	10,625	31	685 3/4	45	5	15	71

DP / DC. SIZE	WT / FT	GRADE	MIN. I.D.	TOOL JT O.D.	TYPE THREAD	PUMP NO.	PUMP MANUFACTURER	TYPE	STROKE LENGTH
4	14	E	2 7/8	5 1/4	4 F.H.	1	NAT	8P80	8 1/2
6 3/4	701		2 7/8	6 1/4	5 H90	2	NAT	8P80	8 1/2

LAST CASING TUBING OR LINER	SIZE	WT. AND GR.	NO. OF JOINTS	FEET	KB. TO CSG. HEAD	SET AT	CEMENT USED (SACKS)	REMARKS
	9 5/8	36# K55	38	1204	16.25	1201	886	

TIME DISTRIBUTION — HOURS

CODE NO.	OPERATION	MORN.	DAY	EVE.	TOTAL
1	RIG UP TEAR DOWN				
2	DRILLING ACTUAL			4	4
3	REAMING				
4	CORING				
5	CLEAN TO BOTTOM AND CIRCULATING				
6	TRIPS	3		2 3/4	5 3/4
7	RIG SERVICE		V		
8	RIG REPAIR		3 1/2	1/4	4 1/4
9	CUT AND/OR SLIP LINE		1/2		1/2
10	DEVIATION SURVEY				
11	WIRE LINE LOG				
12	RUN CASING AND CEMENT				
13	WAIT ON CEMENT				
14	NIPPLE UP B.O.P.				
15	TEST B.O.P.		1/4		1/4
16	DRILL STEM TEST				
17	PLUG BACK				
18	SQUEEZE CEMENT				
19	STUCK OR FISHING				
20	HANDLE TOOLS				
21	CONDITION MUD				
22	COST CIRCULATION				
23	Test Casing		2 1/2		2 1/2
24	Partical Inspection	5	1/4		6 1/4
COMPLETION 40	PERFORATE				
COMPLETION 41	TUBING TRIPS				
COMPLETION 42	TREATING				
COMPLETION 43	SWABBING				
COMPLETION 44	TESTING				
COMPLETION 45					
60	ABANDON				
70	STANDBY				
	TOTALS	8	8	8	24
	HOURS FOR SHELL ACCOUNT	8	8	8	24
CONTRACTOR EQUIPMENT	BOILER #1	8	8	8	24

Code 232 B.

HOLE CONDITION

1	HOLE DRAG (1000#)	
2	TORQUE ON BOTTOM (DP TURNS)	
3	FILL ON BOTTOM (FEET)	

DRILLING ASSEMBLY AT END OF TOUR

NO.	CODE		I.D.	O.D.	FT.
		BIT			
1	NR		2 7/8	6 3/4	5.33
1	DM	3	2 7/8	6 3/4	14.80
1	JN		2 7/8	6 3/4	7.79
1	SI		2 7/8	6 3/4	4.10
1	C		2 7/8	6 3/4	2.48
			X		
19	DC		2 7/8	6 3/4	586.77
106	DP	STANDS			9929.99
2	DP	SINGLES			99.29.99
		KELLY DOWN			43.00
		TOTAL			10,594.00
		WT. OF DC IN AIR			59M LBS.
		WT. OF STRING			190M LBS.

BIT RECORD

BIT NO.	23
SIZE	8 3/4
MFG.	H.W
TYPE	7XJ
JETS 1/32"	20 20 20
SERIAL NO.	TC945
DEPTH OUT	10594
DEPTH IN	10499
TOTAL FTG.	95
TOTAL HRS. RUN	12 1/4
BIT CONDITION 1/8" T/B/GAGE	1 2 0
REAMER CUTTER NO.	
REAMER TYPE	

MUD RECORD

TIME				
WEIGHT				
VIS.-SEC.				
PV/YP	/	/	/	
GELS	/	/	/	
W.L.-C.C				
PH				
% SOLIDS				
% SAND				

MUD MATERIALS ADDED

TYPE	AMOUNT	TYPE	AMOUNT

DRILLING ASSEMBLY AT END OF TOUR

NO.	CODE		I.D.	O.D.	FT.
		BIT			
1	NR		2 7/8	6 3/4	5.33 FT.
1	DM	3	2 7/8	6 3/4	14.80 FT.
1	SI		2 7/8	6 3/4	4.10 FT.
1	C/A		2 7/8	6 3/4	2.48 FT.
			X		
19	DC		2 7/8	6 3/4	586.77 FT.
106	DP	STANDS			FT.
2	DP	SINGLES			9929.99 FT.
		KELLY DOWN			43.00 FT.
		TOTAL			10,594.00 FT.
		WT. OF DC IN AIR			59M LBS.
		WT. OF STRING			190M LBS.

BIT RECORD

BIT NO.	24
SIZE	8 3/4
MFG.	H.W.
TYPE	RGTXJ
JETS 1/32"	13 13 13
SERIAL NO.	TC946
DEPTH OUT	
DEPTH IN	10,594
TOTAL FTG.	
TOTAL HRS. RUN	
BIT CONDITION 1/8" T/B/GAGE	
REAMER CUTTER NO.	
REAMER TYPE	

MUD RECORD

TIME				
WEIGHT				
VIS.-SEC.				
PV/YP	/	/	/	
GELS	/	/	/	
W.L.-C.C				
PH				
% SOLIDS				
% SAND				

MUD MATERIALS ADDED

TYPE	AMOUNT	TYPE	AMOUNT

DRILLING ASSEMBLY AT END OF TOUR

NO.	CODE		I.D.	O.D.	FT.
		BIT			
1	NR		2 7/8	6 3/4	5.33 FT.
1	DM	3	2 7/8	6 3/4	14.80 FT.
1	SI		2 7/8	6 3/4	4.10 FT.
1	C/A		2 7/8	6 3/4	2.48 FT.
			X		
19	DC		2 7/8	6 3/4	586.77 FT.
107	DP	STANDS			FT.
1	DP	SINGLES			9918.83 FT.
		KELLY DOWN			20 FT.
		TOTAL			10,625.60
		WT. OF DC IN AIR			59M LBS.
		WT. OF STRING			190M LBS.

BIT RECORD

BIT NO.	24
SIZE	8 3/4
MFG.	H.W.
TYPE	RGTXJ
JETS 1/32"	B B B.
SERIAL NO.	TC946
DEPTH OUT	
DEPTH IN	10,594
TOTAL FTG.	31
TOTAL HRS. RUN	4
BIT CONDITION 1/8" T/B/GAGE	
REAMER CUTTER NO.	
REAMER TYPE	

MUD RECORD

TIME	8 30	10 30		
WEIGHT	9.3	9.4		
VIS.-SEC.	55	45		
PV/YP	/	/	/	
GELS	/	/	/	
W.L.-C.C.	8.6	8.4		
PH	10.0	10.0		
% SOLIDS		23.985		
% SAND				

MUD MATERIALS ADDED

TYPE	AMOUNT	TYPE	AMOUNT
Gel	85 Sks.		

MORNING TOUR

FOOTAGE

FROM	TO	ROT HOURS	DR-D RM-R CORE-C	CORE NO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT. ON BIT (1000#)	PUMP (AIR) PRESS	AIR VOL (CFM)	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN
10594														

DEVIATION RECORD

DEPTH	DEVIATION°	DIRECTION	DEPTH	DEVIATION°	DIRECTION	DEPTH	DEVIATION°	DIRECTION

TIME LOG

FROM	TO	ELAPSED TIME	CODE	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
12.00	6.00			PULL OUT CHECK D.C.S. & SUBS.
				MAYNA-FLUX D.C & SUBS.
				F. Bengtson - 4hr. Overtime

DRILLER J. Lovell

DAY TOUR

FOOTAGE

FROM	TO	ROT HOURS	DR-D RM-R CORE-C	CORE NO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT. ON BIT (1000#)	PUMP (AIR) PRESS	AIR VOL (CFM)	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN
10,594														

DEVIATION RECORD

DEPTH	DEVIATION°	DIRECTION	DEPTH	DEVIATION°	DIRECTION	DEPTH	DEVIATION°	DIRECTION

TIME LOG

FROM	TO	ELAPSED TIME	CODE	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
8 00	8 15	1/4		Serv Rig Checked BOP & Blind Rams
8 15	9 30	1 1/4		Partical Inspection on Stab. Jars & Tang pins
9 30				Made up Demco 9 5/8" Casing Tester Ram in mid
				Same Pressured up on 4" Rams & Hydril For 15 min
	12 00	2 1/2		Intervels @ 1000 PSI Held O.K.
12 00				Ran in D.C. Changed Stab. Blades Layed Down 10 D.C
	4 00	4		Slipped 33' Drlg Line & Replaced Same

DRILLER E. Johnson

EVENING TOUR

FOOTAGE

FROM	TO	ROT HOURS	DR-D RM-R CORE-C	CORE NO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT. ON BIT (1000#)	PUMP (AIR) PRESS.	AIR VOL (CFM)	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN
10,594	10,625	4	31			42	45	1950		6	120			

DEVIATION RECORD

DEPTH	DEVIATION°	DIRECTION	DEPTH	DEVIATION°	DIRECTION	DEPTH	DEVIATION°	DIRECTION

TIME LOG

FROM	TO	ELAPSED TIME	CODE	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
4 00	5 15	1 1/4		Pick up Swivel & change Sub.
5 15	8 00	2 3/4		Run in W/B.Z #24 & Break Circ. (no fill)
8 00	12 00	4		Drlg 8 3/4 Hole
				6 1/4 Hr Rig Down Time Waiting on
				Swivel Sub From Edmonton.

DRILLER D. Lindell

CP-38 (10/69)

DAILY DRILLING REPORT

WELL NAME: SHELL ARCTIC RED WEST.

LOCATION: G-55 — PROVINCE: N.W.T.

OPERATOR	CONTRACTOR	RIG NO.	DEPTH AT START OF MORNING TOUR	DEPTH AT END OF EVENING TOUR	DAILY PROGRESS	CUMULATIVE ROTATING HOURS	DAYS FROM SPUD	MONTH	DAY	YEAR
Shell Canada Limited	GUSTHAUSON DRLG (1964) LTD	11	10,481	10,594	113		44	MAY	14	1971

SIGNATURE OF OPERATOR'S REPRESENTATIVE: D. Brown — SIGNATURE OF CONTRACTOR'S TOOL PUSHER: Jack M. Lind

DP./DC. SIZE	WT./FT	GRADE	MIN. I.D.	TOOL JT O.D.	TYPE THREAD	PUMP NO.	PUMP MANUFACTURER	TYPE	STROKE LENGTH
4"	14#	E	2 7/8	5 1/4	F.H.	1	NATIONAL	8-P-80	8 1/2
6 3/4	101#		2 7/8	6 3/4	5H-90	2	NATIONAL	8-P-80	8 1/2

LAST CASING TUBING OR LINER	SIZE	WT. AND GR.	NO. OF JOINTS	FEET	KB TO CSG. HEAD	SET AT	CEMENT USED (SACKS)	REMARKS
	9 5/8	36# K55	38	1204	16.25	1201	886	

TIME DISTRIBUTION – HOURS

CODE NO.	OPERATION	MORN.	DAY	EVE.	TOTAL
1	RIG UP TEAR DOWN				
2	DRILLING ACTUAL	2	5 1/4	6 1/2	14 1/4
3	REAMING				
4	CORING				
5	CLEAN TO BOTTOM AND CIRCULATING				
6	TRIPS	4 3/4	2 1/4		7
7	RIG SERVICE			1/4	1/4
8	RIG REPAIR			1 1/4	1 1/4
9	CUT AND/OR SLIP LINE	3/4			3/4
10	DEVIATION SURVEY	1/2			1/2
11	LOG				
12	RUN CASING AND CEMENT				
13	WAIT ON CEMENT				
14	NIPPLE UP B.O.P.				
15	TEST B.O.P.				
16	DRILL STEM TEST				
17	PLUG BACK				
18	SQUEEZE CEMENT				
19	STUCK OR FISHING				
20	HANDLE TOOLS				
21	CONDITION MUD				
22	LOST CIRCULATION				
23					
24					
40	PERFORATE				
41	TUBING TRIPS				
42	TREATING				
43	SWABBING				
44	TESTING				
45					
60	ABANDON				
70	STANDBY				
	TOTALS	8	8	8	24
	HOURS FOR SHELL ACCOUNT	8	8	8	24
	BOILER #1 (CONTRACTOR EQUIP. RENTAL)	8	8	8	24

Code 232 B.

HOLE CONDITION

1	HOLE DRAG (1000#)	16m
2	TORQUE ON BOTTOM (DP TURNS)	
3	FILL ON BOTTOM (FEET)	

MORNING TOUR

Drilling Assembly at End of Tour

NO.	BIT	FT.
1	NR 2 7/8 x 6 3/4	5.33
1	DM 3 x 6 3/4	14.80
1	SI 2 7/8 x 6 3/4	4.10
1	JM 2 7/8 x 6 3/4	7.79
1	CO 2 7/8 x 6 3/4	2.48
19	DC 2 7/8 x 6 3/4	587.19
105	DP STANDS	
2	DP SINGLES	9835.89
	KELLY IN	41
	TOTAL	10,489
	WT. OF DC IN AIR	59 M LBS.
	WT. OF STRING	189 M LBS.

Bit Record

BIT NO.	22
SIZE	8 3/4
MFG.	SEC
TYPE	H-88
JETS 1/32"	12 12 12
SERIAL NO	273078
DEPTH OUT	10489
DEPTH IN	10218
TOTAL FTG.	271
TOTAL HRS. RUN	27
BIT CONDITION 1/8" T/B/GAGE	8 6 1/8
REAMER CUTTER NO.	
REAMER TYPE	

Mud Record

TIME	12:00
WEIGHT	9.2+
VIS.-SEC.	44
PV/YP	/
GELS	/
W.L.-CC	8.6
PH	10.5
SALINITY	22275
% SAND	

Mud materials added:

TYPE	AMOUNT
GEL	6 BAGS
CMC Hi-Vis	1 BAG
CORR INHIBICAN	

Footage

FROM	TO	ROT HOURS	DR-D RM-R CORE-C	CORE NO	FORMATION	ROTARY RPM	WT ON BIT (1000#)	PUMP PRESS	AIR VOL	PUMP NO 1 LINER SIZE	PUMP NO 1 SPM	PUMP NO 2 LINER SIZE	PUMP NO 2 SPM	METHOD PUMPS RUN
10481	10499	2	18			40	46	2100		6"	120			

Deviation record: —

FROM	TO	ELAPSED TIME	CODE	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
12.00	2.00	2		Drlg
2.00	2.30	1/2		Drop Survey Rig Serv - V BOPs
2.30	5.30	3		Trip out
5.30	6.15	3/4		Slip and cut line.
6.15	8.00	1 3/4		Trip in.

DRILLER: A. Evasuik

DAY TOUR

Drilling Assembly at End of Tour

NO.	BIT	FT.
1	R 2 7/8 x 6 3/4	5.33
1	M 3 x 6 7/8	14.80
1	SI 2 7/8 x 6 3/4	4.10
1	JM 2 7/8 x 6 7/8	7.79
1	O 2 7/8 x 6 3/4	2.48
19	DC 2 7/8 x 6 3/4	587.19
106	DP STANDS	9898.59
1	DP SINGLES	
	KELLY DOWN	16.00
	TOTAL	10536.28
	WT. OF DC IN AIR	59 M LBS.
	WT. OF STRING	190 M LBS.

Bit Record

BIT NO.	23
SIZE	8 3/4
MFG.	H.W.
TYPE	7XJ
JETS 1/32"	12 12 12
SERIAL NO.	TC945
DEPTH OUT	
DEPTH IN	10499
TOTAL FTG.	37
TOTAL HRS. RUN	5 3/4
BIT CONDITION 1/8" T/B/GAGE	
REAMER CUTTER NO.	
REAMER TYPE	

Mud Record

TIME	12:00
WEIGHT	9.2+
VIS.-SEC.	48
PV/YP	
GELS	
W.L.-CC	7.8
PH	10.5
% SOLIDS	
% SAND	

Mud materials added:

TYPE	AMOUNT
CAUSTIC	3 SKS
WT. MT.	60 SKS
C.M.C. (R.G)	1 SK

Footage

FROM	TO	ROT HOURS	DR-D RM-R CORE-C	CORE NO	FORMATION	ROTARY RPM	WT ON BIT (1000#)	PUMP PRESS	AIR VOL	PUMP NO 1 LINER SIZE	PUMP NO 1 SPM	PUMP NO 2 LINER SIZE	PUMP NO 2 SPM	METHOD PUMPS RUN
10499	10536	5 1/4	37			40	40	2100		6	120	6		
								625		6	60			

Deviation record:

DEPTH	DEVIATION°	DIRECTION
10,499	4°	S3W

FROM	TO	ELAPSED TIME	CODE	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
8.00	10.15			RUN IN
10.15	4.00			DRILL

F. Bengtson - 4 hr Overtime

DRILLER: J. Hamil

EVENING TOUR

Drilling Assembly at End of Tour

NO.	BIT	FT.
1	NR 2 7/8 x 6 3/4	5.33
1	DM 3 x 6 3/4	14.80
1	SI 2 7/8 x 6 3/4	4.10
1	JH 2 7/8 x 6 3/4	7.79
1	CO 2 7/8 x 6 3/4	2.48
19	DC 2 7/8 x 6 3/4	587.19
116	DP STANDS	
2	DP SINGLES	9929.99
	KELLY DOWN	43.00
	TOTAL	10,594.68
	WT. OF DC IN AIR	59 M LBS.
	WT. OF STRING	190 M LBS.

Bit Record

BIT NO.	23
SIZE	8 3/4"
MFG.	H.W
TYPE	7XJ
JETS 1/32"	12 12 12
SERIAL NO.	TC945
DEPTH OUT	
DEPTH IN	10499
TOTAL FTG.	95
TOTAL HRS. RUN	12 1/4
BIT CONDITION 1/8" T/B/GAGE	
REAMER CUTTER NO.	
REAMER TYPE	

Mud Record

TIME	4:00	8:00	10:00
WEIGHT	9.3+	9.3	9.3
VIS.-SEC.	45	45	45
PV/YP	/	/	/
GELS	/	/	/
W.L.-C.C.	8.0	8.2	8.4
PH	10.5	10.5	10.5
% SOLIDS			
% SAND			

Mud materials added:

TYPE	AMOUNT
GEL	10 BAGS

Footage

FROM	TO	ROT HOURS	DR-D RM-R CORE-C	CORE NO	FORMATION	ROTARY RPM	WT ON BIT (1000#)	PUMP PRESS	AIR VOL	PUMP NO 1 LINER SIZE	PUMP NO 1 SPM	PUMP NO 2 LINER SIZE	PUMP NO 2 SPM	METHOD PUMPS RUN
10,536	10,594	6 1/2	58			40	45	2100		6"	120	6"		

Deviation record: —

FROM	TO	ELAPSED TIME	CODE	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
4 00	4 15	1/4		Serv Rig & Checked B.O.P
4 15	10 45	6 1/2		Drlg
10 45	12 00	1 1/4		Cracked C/o sub on Quill Broke & Layed Swivel set Back Kelly.

DRILLER: E. Johnson

CP-38 (10/69)

DAILY DRILLING REPORT

WELL NAME		
SHELL ARCTIC RED WEST.		
LOCATION	G-55	PROVINCE N.W.T.

OPERATOR	CONTRACTOR	RIG NO.	DEPTH AT START OF MORNING TOUR	DEPTH AT END OF EVENING TOUR	DAILY PROGRESS	CUMULATIVE ROTATING HOURS	DAYS FROM SPUD	DATE MONTH	DAY	YEAR
Shell Canada Limited	GUSTAVSON DRLG (1964) LTD	11	10-234	10-481	247'		43	MAY	13	1971

SIGNATURE OF OPERATOR'S REPRESENTATIVE: D. Brown
SIGNATURE OF CONTRACTOR'S TOOL PUSHER: [signature]

DP./DC. SIZE	WT./FT.	GRADE	MIN. I.D.	TOOL JT O.D.	TYPE THREAD	PUMP NO.	PUMP MANUFACTURER	TYPE	STROKE LENGTH
4"	14#	E	2 7/8	5 1/4	F.H.	1	NATIONAL	8-P-80	8 1/2
6 3/4	101#		2 7/8	6 3/4	5-H-90	2	NATIONAL	8-P-80	8 1/2

LAST CASING TUBING OR LINER	SIZE	WT. AND GR.	NO. OF JOINTS	FEET	KB TO CSG. HEAD	SET AT	CEMENT USED (SACKS)	REMARKS
	9 5/8	36# K55	38	1204	16.25	1201	886	

TIME DISTRIBUTION — HOURS

CODE NO.	OPERATION	MORN.	DAY	EVE.	TOTAL
1	RIG UP TEAR DOWN				
2	DRILLING ACTUAL	7 3/4	7 3/4	7 3/4	23 1/4
3	REAMING				
4	CORING				
5	CLEAN TO BOTTOM AND CIRCULATING				
6	TRIPS				
7	RIG SERVICE	1/4		1/4	1/2
8	RIG REPAIR				
9	CUT AND/OR SLIP LINE				
10	DEVIATION SURVEY				
11	[illegible] LOG				
12	RUN CASING AND CEMENT				
13	WAIT ON CEMENT				
14	NIPPLE UP B.O.P.				
15	TEST B.O.P.		1/4		1/4
16	DRILL STEM TEST				
17	PLUG BACK				
18	SQUEEZE CEMENT				
19	STUCK OR FISHING				
20	HANDLE TOOLS				
21	CONDITION MUD				
22	[illegible] CIRCULATION				
23					
24					
40	PERFORATE				
41	TUBING TRIPS				
42	TREATING				
43	SWABBING				
44	TESTING				
45					
60	ABANDON				
70	STANDBY				
	TOTALS	8	8	8	24
	HOURS FOR SHELL ACCOUNT	8	8	8	24
	BOILER #1	8	8	8	24

CONTRACTOR EQUIP. RENTAL: Code 232 R

HOLE CONDITION

1	HOLE DRAG (1000#)	16 m
2	TORQUE ON BOTTOM (DP TURNS)	
3	FILL ON BOTTOM (FEET)	

MORNING TOUR

Drilling Assembly at End of Tour

NO.	CODE	BIT	FT.
1		NR 2 7/8 x 6 3/4	5.33
1		DM 3 x 6 3/4	14.80
1		S1 2 7/8 x 6 3/4	4.10
1		JM 2 3/4 x 6 3/4	7.79
1		CO 2 7/8 x 6 3/4	2.48
19		DC 2 7/8 x 6 3/4	587.19
103		DP STANDS	
2		DP SINGLES	9648.02
		KELLY DOWN	42.00
		TOTAL	10312.71
		WT. OF DC IN AIR	59 M LBS.
		WT. OF STRING	187 M LBS.

Bit Record

BIT NO.	22
SIZE	8 3/4
MFG.	SEC
TYPE	H-88
JETS 1/32"	12 12 12
SERIAL NO	273078
DEPTH OUT	
DEPTH IN	10218
TOTAL FTG.	94
TOTAL HRS. RUN	9 1/2
BIT CONDITION 1/8" T/B/GAGE	IN.
REAMER CUTTER NO.	
REAMER TYPE	

Mud Record

TIME	12:00	4:00	
WEIGHT	9.3	9.2	9.2
VIS.-SEC.	53	51	51
PV/YP	/	/	/
GELS	/	/	/
W.L.-CC	8.9	8.4	8.4
PH	8.8	9.5	9.5
SALINITY	26000		
% SAND			

Mud materials added: GEL 15 SAX; CORINH. 1 1/2 CANS; CAUSTIC 4 SAX; HI-VIS CMC 1 SAC.; REG. 1 SAC.

Footage

FROM	TO	ROT HOURS	DR-D RM-R CORE-C	CORE NO	FORMATION	ROTARY RPM	WT ON BIT (1000#)	PUMP PRESS	AIR VOL	PUMP NO 1 LINER SIZE	SPM	PUMP NO 2 LINER SIZE	SPM	METHOD PUMPS RUN
10234	10312	7 3/4	78			40	46	2150		6	120			

DEVIATION RECORD: —

TIME LOG FROM	TO	ELAPSED TIME	CODE	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
12.00	12.15	1/4		Rig Serv. & B.O.P.s
12.15	8.00	7 3/4		Drlg.

DRILLER: [signature]

DAY TOUR

Drilling Assembly at End of Tour

NO.	CODE	BIT	FT.
1		NR 2 7/8 x 6 3/4	5.33
1		DM 3 x 6 3/4	14.80
1		S1 2 7/8 x 6 3/4	4.10
1		JM 2 7/8 x 6 3/4	7.79
1		CO 2 7/8 x 6 3/4	2.48
19		DC 2 7/8 x 6 3/4	587.19
164		DP STANDS	9742.24
2		DP SINGLES	
		KELLY DOWN	41.00
		TOTAL	10404.93
		WT. OF DC IN AIR	59 LBS.
		WT. OF STRING	188 M LBS.

Bit Record

BIT NO.	22
SIZE	8 3/4
MFG.	SEC.
TYPE	H-88
JETS 1/32"	12 12 12
SERIAL NO.	273078
DEPTH OUT	
DEPTH IN	10218
TOTAL FTG.	186
TOTAL HRS. RUN	17 1/4
BIT CONDITION 1/8" T/B/GAGE	IN
REAMER CUTTER NO.	
REAMER TYPE	

Mud Record

TIME	8.00	12.00
WEIGHT	9.2+	9.2+
VIS.-SEC.	51	50
PV/YP	/	/
GELS	/	/
W.L.-C.C.	8.6	8.8
PH	9.5	9.5
% SOLIDS		
% SAND		

Mud materials added: GEL - 15 SKS; CAUSTIC - 3 SKS; C.M.C. - 2 SKS REG.

Footage

FROM	TO	ROT HOURS	DR-D RM-R CORE-C	CORE NO	FORMATION	ROTARY RPM	WT ON BIT (1000#)	PUMP PRESS	AIR VOL	PUMP NO 1 LINER SIZE	SPM	PUMP NO 2 LINER SIZE	SPM	METHOD PUMPS RUN
10312	10404	7 3/4	92			40	45	2200		6	120	6	120	
								625		6	60			

DEVIATION RECORD: —

TIME LOG FROM	TO	ELAPSED TIME	CODE	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
8.00	8.15	1/4		DRILL
8.15	8.30	1/4		CHECK B.O.P. SER. RIG.
8.30	4.00	7 1/2		DRILL

F. Bengtson - 2 hr. Overtime

DRILLER: O. Hamil

EVENING TOUR

Drilling Assembly at End of Tour

NO.	CODE	BIT	FT.
1		NR 2 7/8 x 6 3/4	5.33
1		DM 3" x 6 3/4	14.80
1		S1 2 7/8 x 6 3/4	4.10
1		JM 2 7/8 x 6 3/4	7.79
1		CO 2 7/8 x 6 3/4	2.48
19		DC 2 7/8 x 6 3/4	587.19
105		DP STANDS	
2		DP SINGLES	9835.89
		KELLY DOWN	24.00
		TOTAL	10481.58
		WT. OF DC IN AIR	59 M LBS.
		WT. OF STRING	189 M LBS.

Bit Record

BIT NO.	22
SIZE	8 3/4"
MFG.	Sec
TYPE	H-88
JETS 1/32"	12 12 12
SERIAL NO.	273078
DEPTH OUT	
DEPTH IN	10218
TOTAL FTG.	263
TOTAL HRS. RUN	25
BIT CONDITION 1/8" T/B/GAGE	IN.
REAMER CUTTER NO.	
REAMER TYPE	

Mud Record

TIME	4.00	8.00
WEIGHT	9.2+	9.2+
VIS.-SEC.	46	44
PV/YP		
GELS		
W.L.-C.C.	8.4	8.6
PH	10.5	10.5
% SOLIDS		
SALINITY	22700	

Mud materials added: GEL - 15 BAGS; CMC REG - 4 BAGS; CORR INH. - 1 CAN; WITMAF - 20 BAGS

Footage

FROM	TO	ROT HOURS	DR-D RM-R CORE-C	CORE NO	FORMATION	ROTARY RPM	WT ON BIT (1000#)	PUMP PRESS	AIR VOL	PUMP NO 1 LINER SIZE	SPM	PUMP NO 2 LINER SIZE	SPM	METHOD PUMPS RUN
10404	10.481	7 3/4	77		1 Pail of Grease; 1 " " Jet Lube	40	46	2100		6"	120	6"		

DEVIATION RECORD: —

TIME LOG FROM	TO	ELAPSED TIME	CODE	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
4.00	4.15	1/4		Serv Rig & Checked B.O.P.
4.15	12.00	7 3/4		Drlg

DRILLER: E. Johnson

CP-38 (10/69)

DAILY DRILLING REPORT

WELL NAME		
SHELL ARCTIC RED WEST		
LOCATION: G-55		PROVINCE: N.W.T.

OPERATOR	CONTRACTOR	RIG NO.	DEPTH AT START OF MORNING TOUR	DEPTH AT END OF EVENING TOUR	DAILY PROGRESS	CUMULATIVE ROTATING HOURS	DAYS FROM SPUD	DATE MONTH	DAY	YEAR
Shell Canada Limited	GUSTAVSON DRLG (1964) LTD.	11	10080	10,234	154'		42	MAY	12	1971

SIGNATURE OF OPERATOR'S REPRESENTATIVE: S. Brown
SIGNATURE OF CONTRACTOR'S TOOL PUSHER: [signature]

DP./DC. SIZE	WT./FT.	GRADE	MIN. I.D.	TOOL JT O.D.	TYPE THREAD	PUMP NO.	PUMP MANUFACTURER	TYPE	STROKE LENGTH
4"	14#	E	2 7/8	5 1/4	F.H.	1	NATIONAL	8-P-80	8 1/2
6 3/4	101#		2 7/8	6 3/4	5H90	2	NATIONAL	8-P-80	8 1/2

LAST CASING, TUBING OR LINER	SIZE	WT. AND GR.	NO. OF JOINTS	FEET	KB. TO CSG. HEAD	SET AT	CEMENT USED (SACKS)	REMARKS
	9 5/8	36# K55	38	1204	16.25	1201	886	

TIME DISTRIBUTION — HOURS

CODE NO.	OPERATION	MORN.	DAY	EVE.	TOTAL
1	RIG UP TEAR DOWN				
2	DRILLING ACTUAL	7 3/4	7 1/4	1 3/4	16 3/4
3	REAMING				
4	CORING				
5	CLEAN TO BOTTOM AND CIRCULATING			3/4	3/4
6	TRIPS			5	5
7	RIG SERVICE	1/4			1/4
8	RIG REPAIR				
9	CUT AND/OR SLIP LINE			1/4	1/4
10	DEVIATION SURVEY		1/2		1/2
11	CORE LOG				
12	RUN CASING AND CEMENT				
13	WAIT ON CEMENT				
14	NIPPLE UP B.O.P.				
15	TEST B.O.P.		1/4	1/4	1/2
16	DRILL STEM TEST				
17	PLUG BACK				
18	SQUEEZE CEMENT				
19	STUCK OR FISHING				
20	HANDLE TOOLS				
21	CONDITION MUD				
22	LOST CIRCULATION				
23					
24					
40	COMPLETION: PERFORATE				
41	TUBING TRIPS				
42	TREATING				
43	SWABBING				
44	TESTING				
45					
60	ABANDON				
70	STANDBY				
	TOTALS	8	8	8	24
	HOURS FOR SHELL ACCOUNT	8	8	8	24
	CONTRACTOR RENTAL EQUIP: BOILER #1	8	8	8	24

Code 232 B.

HOLE CONDITION:

1	HOLE DRAG (1000#)	
2	TORQUE ON BOTTOM (DP TURNS)	
3	FILL ON BOTTOM (FEET)	

MORNING TOUR

Drilling Assembly at End of Tour

NO.	CODE	BIT	FT.
1	NR	2 7/8 x 6 3/4	5.33
1	DM	3 x 6 7/8	14.80
1	S.I.	2 7/8 x 6 3/4	4.10
1	JM	2 7/8 x 6 3/4	7.79
1	CO	2 7/8 x 6 3/4	2.48
19	DC	2 7/8 x 6 3/4	587.19
102	DP STANDS		
1	DP SINGLES		952267
	KELLY DOWN		1620
	TOTAL		1016036
	WT. OF DC IN AIR		59M LBS.
	WT. OF STRING		186M. LBS.

Bit Record

BIT NO.	21
SIZE	8 3/4
MFG.	SMITH
TYPE	SJS
JETS 1/32"	12 12 12
SERIAL NO	FC009
DEPTH OUT	
DEPTH IN	10008
TOTAL FTG.	152
TOTAL HRS. RUN	15 1/2
BIT CONDITION 1/8" T/B/GAGE	IN
REAMER CUTTER NO.	
REAMER TYPE	

Mud Record

TIME	12:00	4:00	7:00
WEIGHT	9.2	9.3	9.3
VIS.-SEC.	49	48	46
PV/YP	/	/	/
GELS	/	/	/
W.L.-CC	9.2	8.2	8.6
PH	10.5	10.5	10.5
SALINITY	25,575		
% SAND			

MUD MATERIALS ADDED:

TYPE	AMOUNT
WT. MT	45 BAGS
CMC (Hi-Vis)	1 BAG
CMC (REG)	1 BAG
CAUSTIC	1 BAG

Footage

FROM	TO	ROT HOURS	DR-D RM-R CORE-C	CORE NO	FORMATION	ROTARY RPM	WT ON BIT (1000#)	PUMP (AIR) PRESS	AIR VOL (CFM)	PUMP NO. 1 LINER SIZE	S.P.M.	PUMP NO. 2 LINER SIZE	S.P.M.	METHOD PUMPS RUN
10080	10160	7 3/4	80			40	46	2050		6	120			

DEVIATION RECORD: DEPTH / DEVIATION° / DIRECTION — (none)

TIME LOG FROM	TO	ELAPSED TIME	CODE	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
12.00	12.15	1/4		Rig Serv. ✓ B.OPs
12.15	8.00	7 3/4		Drlg.
		8		

DRILLER: [signature]

DAY TOUR

Drilling Assembly at End of Tour

NO.	CODE	BIT	FT.
1	NR	2 7/8 x 6 3/4	5.33
1	DM	3 x 6 7/8	14.80
1	SI	2 7/8 x 6 3/4	4.10
1	JM	2 7/8 x 6 3/4	7.79
1	CO	2 7/8 x 6 3/4	2.48
19	DC	2 7/8 x 6 3/4	587.19
103	DP STANDS		9585.05
	DP SINGLES		
	KELLY DOWN		1200
	TOTAL		10218.74
	WT. OF DC IN AIR		59 M LBS.
	WT. OF STRING		186 M LBS.

Bit Record

BIT NO.	21
SIZE	8 3/4
MFG.	SMITH
TYPE	SJS
JETS 1/32"	12 12 12
SERIAL NO.	FC009
DEPTH OUT	10218
DEPTH IN	10008
TOTAL FTG.	210
TOTAL HRS. RUN	22 3/4
BIT CONDITION 1/8" T/B/GAGE	8 6 1/8
REAMER CUTTER NO.	
REAMER TYPE	

Mud Record

TIME	8:00	12:00
WEIGHT	9.3	9.3
VIS.-SEC.	46	45
PV/YP	/	/
GELS	/	/
W.L.-CC	9.0	9.0
PH	10.5	10.5
SALINITY	23,100	
% SAND		

MUD MATERIALS ADDED: 1/2 CAN CORR- INHIB

Footage

FROM	TO	ROT HOURS	DR-D RM-R CORE-C	CORE NO	FORMATION	ROTARY RPM	WT ON BIT (1000#)	PUMP (AIR) PRESS	AIR VOL (CFM)	PUMP NO. 1 LINER SIZE	S.P.M.	PUMP NO. 2 LINER SIZE	S.P.M.	METHOD PUMPS RUN
10160	10218	7 1/4	58			40	45	2100		6	120	6		
								625		6	60			

DEVIATION RECORD: DEPTH 10200

TIME LOG FROM	TO	ELAPSED TIME	CODE	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
8.00	10.30	2 1/2		DRILL
10.30	10.45	1/4		CHECK B.O.P. SER. RIG.
1045	3.30	4 3/4		DRILL
3.30	4.00	1/2		SURVEY PULL OUT
				F. Bengtson 3 hr Overtime
				HELD BLOW OUT DRILL

DRILLER: J. Howil

EVENING TOUR

Drilling Assembly at End of Tour

NO.	CODE	BIT	FT.
1	NR	2 7/8 x 6 3/4	5.33
1	DM	3" x 6 3/4	14.80
1	S.I.	2 7/8 x 6 3/4	4.10
1	JM	2 7/8 x 6 3/4	7.77
1	CO	2 7/8 x 6 3/4	2.48
19	DC	2 7/8 x 6 3/4	581.19
103	DP STANDS		9585.02
—	DP SINGLES		
	KELLY DOWN		28.0
	TOTAL		10,234.79
	WT. OF DC IN AIR		59m LBS.
	WT. OF STRING		186m LBS.

Bit Record

BIT NO.	22
SIZE	8 3/4"
MFG.	SEC
TYPE	H88
JETS 1/32"	12 12 12
SERIAL NO.	273078
DEPTH OUT	
DEPTH IN	10,218
TOTAL FTG.	16'
TOTAL HRS. RUN	1 3/4
BIT CONDITION 1/8" T/B/GAGE	IN
REAMER CUTTER NO.	
REAMER TYPE	

Mud Record

TIME	11:00
WEIGHT	9.3
VIS.-SEC.	53
PV/YP	/
GELS	/
W.L.-CC	8.9
PH	8.5
% SOLIDS	
% SAND	

MUD MATERIALS ADDED: —

Footage

FROM	TO	ROT HOURS	DR-D RM-R CORE-C	CORE NO	FORMATION	ROTARY RPM	WT ON BIT (1000#)	PUMP (AIR) PRESS	AIR VOL (CFM)	PUMP NO. 1 LINER SIZE	S.P.M.	PUMP NO. 2 LINER SIZE	S.P.M.	METHOD PUMPS RUN
10,218	10,234	1 3/4	16			40	46	2100		6"	120	6"		

DEVIATION RECORD: DEPTH 10,218 — DEVIATION 3° — DIRECTION S2W

TIME LOG FROM	TO	ELAPSED TIME	CODE	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
4:00	6:45	2 3/4		Hoist
6:45	7:00	1/4		Serv Rig Checked B.O.P. & Blind Rams
7:00	7:15	1/4		Ran in D.C.
7:15	7:30	1/4		Slipped Drlg Line
7:30	9:30	2		Run in
9:30	10:15	3/4		Cleaned out 12' Fill & Reamed 3' To Bottom
10:15	12:00	1 3/4		Drlg

DRILLER: S. Johnson

CP-38 (10/69)

DAILY DRILLING REPORT

WELL NAME	LOCATION	PROVINCE
SHELL ARCTIC RED WEST	G-55	N.W.T.

OPERATOR	CONTRACTOR	RIG NO.	DEPTH AT START OF MORNING TOUR	DEPTH AT END OF EVENING TOUR	DAILY PROGRESS	CUMULATIVE ROTATING HOURS	DAYS FROM SPUD	DATE MONTH	DAY	YEAR
Shell Canada Limited	GUSTAVSON DRLG (1964) LTD.	11	10,008	10,080.00	72'		41	MAY	17	1971

SIGNATURE OF OPERATOR'S REPRESENTATIVE: R. Maffick (signature)
SIGNATURE OF CONTRACTOR'S TOOL PUSHER: Jack M... (signature)

DP./DC. SIZE	WT./FT.	GRADE	MIN. I.D.	TOOL JT O.D.	TYPE THREAD	PUMP NO.	PUMP MANUFACTURER	TYPE	STROKE LENGTH
4"	14#	E	2 7/8	5 1/4	F.H.	1	NATIONAL	8-P-80	8 1/2
6 3/4	101#		2 7/8	6 3/4	5H90	2	NATIONAL	8-P-80	8 1/2

LAST CASING TUBING OR LINER	SIZE	WT. AND GR.	NO. OF JOINTS	FEET	KB. TO CSG. HEAD	SET AT	CEMENT USED (SACKS)	REMARKS
	9 5/8	36# K55	38	1204	16.25	1201	886	

TIME DISTRIBUTION — HOURS

CODE NO.	OPERATION	MORN.	DAY	EVE.	TOTAL
1	RIG UP TEAR DOWN				
2	DRILLING ACTUAL			7 3/4	7 3/4
3	REAMING				
4	CORING				
5	CLEAN TO BOTTOM AND CIRCULATING				
6	TRIPS	7	4		11
7	RIG SERVICE			✓	
8	RIG REPAIR				
9	CUT AND/OR SLIP LINE				
10	DEVIATION SURVEY				
11	LOG				
12	RUN CASING AND CEMENT				
13	WAIT ON CEMENT				
14	NIPPLE UP B.O.P.				
15	TEST B.O.P.			1/4	1/4
16	DRILL STEM TEST	1			1
17	PLUG BACK				
18	SQUEEZE CEMENT				
19	STUCK OR FISHING				
20	HANDLE TOOLS		4		4
21	CONDITION MUD				
22	LOST CIRCULATION				
23					
24					
40	PERFORATE				
41	TUBING TRIPS				
42	TREATING				
43	SWABBING				
44	TESTING				
45		232 8hrs			
60	ABANDON	257 16hrs			
70	STANDBY				
	TOTALS	8	8	8	24
	HOURS FOR SHELL ACCOUNT				24
	BOILER	8	8	8	24

CONTRACTOR EQUIP. RENTAL

HOLE CONDITION

1	HOLE DRAG (1000#)	15M
2	TORQUE ON BOTTOM (DP TURNS)	
3	FILL ON BOTTOM (FEET)	N.I

MORNING TOUR

Drilling assembly at end of tour, bit record and mud record: no entries.

FOOTAGE FROM	TO	ROT HOURS	DR-D RM-R CORE-C	CORE NO	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	WT ON BIT (1000#)	PUMP (AIR) PRESS	AIR VOL (CFM)	PUMP NO 1 LINER SIZE	SPM	PUMP NO 2 LINER SIZE	S.P.M.	METHOD PUMPS RUN
10008														

DEVIATION RECORD: DEPTH | DEVIATION ° | DIRECTION — no entries.

TIME LOG FROM	TO	ELAPSED TIME	CODE	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
12.00	1.00	1		FINAL SHUT IN ON D.S.T. #1
1.00				DEFLATE PACKERS WORK SAME LOOSE
	8.00	7 (8)		HOIST VERY TIGHT AT TIMES.
				DST. NO. 1. 8671 - 8819 (DOLOMITE) PREFLOW 5 MIN.
				ISI 60 MIN. T.O. 90 MIN. FSI. 90 MIN. FIP. FAB ON T.O.
				REMAINING STEADY. RECOVERED 550' W.C.
				2720' SLT. M.C.S.W. (SAL. 163,300 ppm NaCl)

DRILLER: A. Ewosiuk

DAY TOUR

DRILLING ASSEMBLY NO.	CODE	BIT I.D. x O.D.	FT.
1	B.S.	2 7/8 x 6 3/4	5.33
1	D.M.	3 x 6 1/16	14.80
1	S.I.	2 7/8 x 6 3/4	4.10
1	J.M.	2 1/16 x 6 1/16	7.79
1	C.O.	2 7/8 x 6 3/4	2.48
19	D.C.	2 7/8 x 6 3/4	587.19
900	DP	STANDS	9365.87
2	DP	SINGLES	
	KELLY DOWN		
	TOTAL		
	WT. OF DC IN AIR		LBS.
	WT. OF STRING		LBS.

BIT RECORD	
BIT NO.	21
SIZE	8 3/4
MFG.	SMITH
TYPE	SJS
JETS 1/32"	12 12 12
SERIAL NO.	FC009
DEPTH OUT	
DEPTH IN	10008
TOTAL FTG.	
TOTAL HRS. RUN	
BIT CONDITION 1/8" T/B/GAGE	
REAMER CUTTER NO.	
REAMER TYPE	

Mud record: no entries.

FOOTAGE FROM	TO	ROT HOURS	DR-D RM-R CORE-C	CORE NO	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	WT ON BIT (1000#)	PUMP (AIR) PRESS	AIR VOL (CFM)	PUMP NO 1 LINER SIZE	SPM	PUMP NO 2 LINER SIZE	S.P.M.	METHOD PUMPS RUN
10008					BSIP 4077/4077 FP 418/1441 HMP 4152/4127									

DEVIATION RECORD: DEPTH | DEVIATION ° | DIRECTION — no entries.

TIME LOG FROM	TO	ELAPSED TIME	CODE	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
8.00	1.00			FINISH OUT LAY DOWN TEST TOOLS
				BLIND RAMS
1.00	4.00			RUN IN PICK UP JARS.
		OVERTIME		1 HR. LAY DOWN BEACON. J. Horil
		G. Mykyta		E. Hennerbichler D. Patyolet 4 HRS
				F. Bengtson - 4 hrs. Overtime

DRILLER: J. Horil

EVENING TOUR

DRILLING ASSEMBLY NO.	CODE	BIT I.D. x O.D.	FT.
1	N.R.	2 7/8 x 6 3/4	5.33
1	D.M.	3" x 6 1/2	14.80
1	S.T.	2 7/8 x 6 3/4	4.10
1	J.H.	2 1/16 x 6 1/16	7.79
1	C.O.	2 7/8 x 6 3/4	2.48
19	D.C.	2 7/8 x 6 3/4	587.19
101	DP	STANDS	
1	DP	SINGLES	9428.30
	KELLY DOWN		30.00
	TOTAL		10,080.99
	WT. OF DC IN AIR		59M LBS.
	WT. OF STRING		184M LBS.

BIT RECORD	
BIT NO.	21
SIZE	8 3/4
MFG.	Smith
TYPE	SJS
JETS 1/32"	12 12 12
SERIAL NO.	FC009
DEPTH OUT	
DEPTH IN	10,008
TOTAL FTG.	72
TOTAL HRS. RUN	7 3/4
BIT CONDITION 1/8" T/B/GAGE	IN
REAMER CUTTER NO.	
REAMER TYPE	

MUD RECORD			
TIME	6.00	8.00	10.00
WEIGHT	9.0	9.1	9.1+
VIS.-SEC.	43	45	45
PV/YP	/	/	/
GELS	/	/	/
W.L.-C.C.	8.6	8.4	8.2
PH	8.5	10.5	10.5
% SOLIDS (SALINITY)	24750		
% SAND			

MUD MATERIALS ADDED TYPE	AMOUNT	TYPE	AMOUNT
CAUSTIC	4 BAGS	Foam	1 CAN
CMC HIVIS	1 BAG		
WT. MAT.	90 BAGS		
CORR. INH.	1 CAN		

FOOTAGE FROM	TO	ROT HOURS	DR-D RM-R CORE-C	CORE NO	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	WT ON BIT (1000#)	PUMP PRESS.	AIR VOL (CFM)	PUMP NO 1 LINER SIZE	S.P.M.	PUMP NO 2 LINER SIZE	S.P.M.	METHOD PUMPS RUN
10,008	10,080	7 3/4	72'		1BBL Vitrea #41	40	46	2050		6"	120	6"		

DEVIATION RECORD: DEPTH | DEVIATION ° | DIRECTION — no entries.

TIME LOG FROM	TO	ELAPSED TIME	CODE	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
4.00	4.15	1/4		Serv Rig & checked B.O.P.
4.15	12.00	7 3/4		Drlg

DRILLER: E. Johnson

CP-38 (10/69)

DAILY DRILLING REPORT

WELL NAME: SHELL ARCTIC RED WEST

LOCATION: G-55 | PROVINCE: N.W.T.

OPERATOR: Shell Canada Limited

SIGNATURE OF OPERATOR'S REPRESENTATIVE: R. Thaffink

CONTRACTOR: GUSTAVSON DRLG (1964) LTD | RIG NO.: 11

SIGNATURE OF CONTRACTOR'S TOOL PUSHER: Fred McLeod

DEPTH AT START OF MORNING TOUR	DEPTH AT END OF EVENING TOUR	DAILY PROGRESS	CUMULATIVE ROTATING HOURS	DAYS FROM SPUD	DATE MONTH	DAY	YEAR
9954				40	MAY	10	1971

	DP./DC. SIZE	WT./FT	GRADE	MIN. I.D.	TOOL JT O.D.	TYPE THREAD
	4"	14#	E	2 7/8	5 1/4	F.H.
	6 3/4	101#		2 2/8	6 3/4	SH-90

PUMP NO.	PUMP MANUFACTURER	TYPE	STROKE LENGTH
1	NATIONAL	8-P-80	8 1/2
2	NATIONAL	8-P-80	8 1/2

LAST CASING TUBING OR LINER	SIZE	WT. AND GR.	NO. OF JOINTS	FEET	KB. TO CSG. HEAD	SET AT	CEMENT USED (SACKS)	REMARKS
	9 5/8	36# K55	38	12.04	16.25	1201	886	

TIME DISTRIBUTION — HOURS

CODE NO.	OPERATION	MORN.	DAY	EVE.	TOTAL
1	RIG UP TEAR DOWN				
2	DRILLING ACTUAL	6 1/4			6 1/4
3	REAMING				
4	CORING				
5	CLEAN TO BOTTOM AND CIRCULATING	1	1		2
6	TRIPS		3	3	6
7	RIG SERVICE	1/4		V	1/4
8	RIG REPAIR	1/2			1/2
9	CUT AND/OR SLIP LINE			1/2	1/2
10	DEVIATION SURVEY		1/2		1/2
11	WIRE LINE LOG				
12	RUN CASING AND CEMENT				
13	WAIT ON CEMENT				
14	NIPPLE UP B.O.P.		"		
15	TEST B.O.P.		1/4	1/4	1/2
16	DRILL STEM TEST		3 3/4	3 3/4	7
17	PLUG BACK				
18	SQUEEZE CEMENT				
19	STUCK OR FISHING				
20	HANDLE TOOLS		"	1/2	1/2
21	CONDITION MUD				
22	LOST CIRCULATION				
23					
24					
COMPLETION 40	PERFORATE				
COMPLETION 41	TUBING TRIPS				
COMPLETION 42	TREATING				
COMPLETION 43	SWABBING				
COMPLETION 44	TESTING				
COMPLETION 45		23 2 8 hrs			
60	ABANDON	25 16 hrs			
70	STANDBY				
	TOTALS	8	8	8	24
	HOURS FOR SHELL ACCOUNT	23			24
CONTRACTOR EQUIP. RENTAL	BOILER #1	8	8	8	24

HOLE CONDITION

1	HOLE DRAG (1000#)	10
2	TORQUE ON BOTTOM (DP TURNS)	1 1/4
3	FILL ON BOTTOM (FEET)	

DRILLING ASSEMBLY AT END OF TOUR

NO.	CODE	BIT	FT.
1		NB 12 1/8 ID x 6 3/4 OD	5.33
1		DM 3 12 1/8 ID x 6 3/4 OD	14.80
1		SI 2 12 1/8 ID x 6 3/4 OD	4.10
1		CO 2 8 1/8 ID x 6 3/4 OD	2.48
		ID X OD	
		ID X OD	
19	DCS	ID X OD	587.19
100	DP	STANDS	
2	DP	SINGLES	936.87
	KELLY DOWN		29.00
	TOTAL		10008.77
	WT. OF DC IN AIR		59M LBS.
	WT. OF STRING		186M LBS.

BIT RECORD

BIT NO.	20
SIZE	8 3/4
MFG.	SMITH
TYPE	6JS
JETS 1/32"	12 12 12
SERIAL NO.	FF.907
DEPTH OUT	10008
DEPTH IN	9676
TOTAL FTG.	332
TOTAL HRS. RUN	36 1/2
BIT CONDITION 1/8" T/B/GAGE	7 8 0
REAMER CUTTER NO.	
REAMER TYPE	

MUD RECORD

TIME	12:00	4:00	7:00
WEIGHT	9.2	9.2	9.1
VIS.-SEC	39	40	42
PV/YP	/	/	/
GELS	/	/	/
W.L.-C.C	8.2	8.2	8.2
PH	10.5	10.5	10.5
SALINITY CHLORIDES	22,275		
% SAND			

MUD MATERIALS ADDED

TYPE	AMOUNT	TYPE	AMOUNT
GEL	20 BAGS		
CMC (HI VIS)	1 BAG		
CAUSTIC	1 BAG		

FOOTAGE

FROM	TO	ROT HOURS	DR-D RM-R CORE-C	CORE NO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M	WT. ON BIT (1000#)	PUMP (AIR) PRESS	AIR VOL (CFM)	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M	METHOD PUMPS RUN
9954	10008	6 1/4	54			40	46	2000		6	120			

DEVIATION RECORD

DEPTH	DEVIATION°	DIRECTION	DEPTH	DEVIATION°	DIRECTION	DEPTH	DEVIATION°	DIRECTION

MORNING TOUR

TIME LOG FROM	TO	ELAPSED TIME	CODE	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
12.00	12.15	1/4		Rig Serv. ✓ B.O.P's Drlg.
12.15	5.00	4 3/4		
5.00	5.30	1/2		Repair wash out on mud line.
5.30	7.00	1 1/2		Drlg
7.00	8.00	1		Circ to run D.S.S.

DRILLER: A. Livesaits

DRILLING ASSEMBLY AT END OF TOUR

NO.	CODE	BIT	FT.
		ID X OD	
		ID X OD	
		ID X OD	
		ID X OD	
		ID X OD	
		ID X OD	
	DP	STANDS	
	DP	SINGLES	
	KELLY DOWN		
	TOTAL		
	WT. OF DC IN AIR		LBS.
	WT. OF STRING	182	LBS.

BIT RECORD

BIT NO.	
SIZE	
MFG.	
TYPE	
JETS 1/32"	
SERIAL NO.	
DEPTH OUT	
DEPTH IN	
TOTAL FTG.	
TOTAL HRS. RUN	
BIT CONDITION 1/8" T/B/GAGE	
REAMER CUTTER NO.	
REAMER TYPE	

MUD RECORD

TIME	8:00		
WEIGHT	9.1		
VIS.-SEC	45		
PV/YP	/	/	/
GELS	/	/	/
W.L.-C.C	8		
PH	10.5		
% SOLIDS			
% SAND			

MUD MATERIALS ADDED

TYPE	AMOUNT	TYPE	AMOUNT

FOOTAGE

FROM	TO	ROT HOURS	DR-D RM-R CORE-C	CORE NO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M	WT. ON BIT (1000#)	PUMP (AIR) PRESS	AIR VOL (CFM)	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN
10008								2050		6	120	6		

DEVIATION RECORD

DEPTH	DEVIATION°	DIRECTION	DEPTH	DEVIATION°	DIRECTION	DEPTH	DEVIATION°	DIRECTION

DAY TOUR

TIME LOG FROM	TO	ELAPSED TIME	CODE	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
8.00	9.00	1		CIR.
9.00	12.30	3 1/2		SURVEY PULL OUT
12.30	4.00	3 1/2		MAKE UP TEST TOOLS BLIND RAMS
				PICKED UP 4 5 1/2" D.C's.
				F. Bengtson - 4hr Overtime

DRILLER: F. Hounsh

DRILLING ASSEMBLY AT END OF TOUR

NO.	CODE	BIT	FT.
		ID X OD	
		ID X OD	
		ID X OD	
		ID X OD	
		ID X OD	
		ID X OD	
	DP	STANDS	
	DP	SINGLES	
	KELLY DOWN		
	TOTAL		
	WT. OF DC IN AIR		LBS.
	WT. OF STRING		LBS.

BIT RECORD

BIT NO.	
SIZE	
MFG.	
TYPE	
JETS 1/32"	
SERIAL NO.	
DEPTH OUT	
DEPTH IN	
TOTAL FTG.	
TOTAL HRS. RUN	
BIT CONDITION 1/8" T/B/GAGE	
REAMER CUTTER NO.	
REAMER TYPE	

MUD RECORD

TIME			
WEIGHT			
VIS.-SEC			
PV/YP	/	/	/
GELS	/	/	/
W.L.-C.C.			
PH			
% SOLIDS			
% SAND			

MUD MATERIALS ADDED

TYPE	AMOUNT	TYPE	AMOUNT

FOOTAGE

FROM	TO	ROT HOURS	DR-D RM-R CORE-C	CORE NO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M	WT. ON BIT (1000#)	PUMP (AIR) PRESS	AIR VOL (CFM)	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN
10,008	10,008													

DEVIATION RECORD

DEPTH	DEVIATION°	DIRECTION	DEPTH	DEVIATION°	DIRECTION	DEPTH	DEVIATION°	DIRECTION

EVENING TOUR

TIME LOG FROM	TO	ELAPSED TIME	CODE	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
4.00	4.30	1/2		Finished making up Packer.
4.30	5.15	3/4		Slipped 33' Drlg line Serv Rig & Checked BOP
5.15	8.15	3		Measured in w/ 550' of Water Cushian
8.15	8.45	1/2		Head up & Seat packer
8.45	12.00	3 1/4		D.S.T #1 Interval Tested 8671' to 8819'

DRILLER: E. Johnson

CP-38 (10/69)

DAILY DRILLING REPORT

WELL NAME: SHELL ARCTIC RED WEST

LOCATION: G-55 | PROVINCE: N.W.T.

OPERATOR: Shell Canada Limited

SIGNATURE OF OPERATOR'S REPRESENTATIVE: R. Chaffrick

CONTRACTOR: GUSTAVSON DRLG (1964) LTD | RIG NO.: 11

SIGNATURE OF CONTRACTOR'S TOOL PUSHER:

DEPTH AT START OF MORNING TOUR	DEPTH AT END OF EVENING TOUR	DAILY PROGRESS	CUMULATIVE ROTATING HOURS	DAYS FROM SPUD	DATE MONTH	DAY	YEAR
9730	9954'	224'		39	MAY	9	1971

DP./DC. SIZE	WT./FT.	GRADE	MIN. I.D.	TOOL JT O.D.	TYPE THREAD	PUMP NO.	PUMP MANUFACTURER	TYPE	STROKE LENGTH
4"	14#	E	2 2/8	5 1/4 ~~E.H.~~	F.H.	1	NATIONAL	8-P-80	8 1/2
6 3/4	101#		2 2/8	6 3/4	SH90	2	NATIONAL	8-P-80	8 1/2

LAST CASING TUBING OR LINER	SIZE	WT. AND GR.	NO. OF JOINTS	FEET	KB. TO CSG. HEAD	SET AT	CEMENT USED (SACKS)	REMARKS
	9 5/8	36# K55	38	1204	16.25	1201	886	

TIME DISTRIBUTION — HOURS

CODE NO.	OPERATION	MORN.	DAY	EVE.	TOTAL
1	RIG UP TEAR DOWN				
2	DRILLING ACTUAL	7 3/4	7 3/4	7 3/4	23 1/4
3	REAMING				
4	CORING				
5	CLEAN TO BOTTOM AND CIRCULATING				
6	TRIPS				
7	RIG SERVICE	1/4	1/4	1/4	3/4
8	RIG REPAIR				
9	CUT AND/OR SLIP LINE				
10	DEVIATION SURVEY				
11	WIRELINE LOG				
12	RUN CASING AND CEMENT				
13	WAIT ON CEMENT				
14	NIPPLE UP B.O.P.				
15	TEST B.O.P.				
16	DRILL STEM TEST				
17	PLUG BACK				
18	SQUEEZE CEMENT				
19	STUCK OR FISHING				
20	HANDLE TOOLS				
21	CONDITION MUD				
22	LOST CIRCULATION				
23					
24					
COMPLETION 40	PERFORATE				
COMPLETION 41	TUBING TRIPS				
COMPLETION 42	TREATING				
COMPLETION 43	SWABBING				
COMPLETION 44	TESTING				
COMPLETION 45					
60	ABANDON				
70	STANDBY				
	TOTALS	8	8	8	24
	HOURS FOR SHELL ACCOUNT	23 2/3	24		
CONTRACTOR EQUIPMENT	BOILER #1	8	8	8	24

HOLE CONDITION

1	HOLE DRAG (1000#)	
2	TORQUE ON BOTTOM (DP TURNS)	150
3	FILL ON BOTTOM (FEET)	

MORNING TOUR

DRILLING ASSEMBLY AT END OF TOUR

NO.	CODE	BIT	I.D.	O.D.	FT.
1	NB	2 2/8		6 3/4	5.33 FT.
1	DM	3		6 3/4	14.80 FT.
1	SI	2 2/8		6 3/4	4.10 FT.
1	CO	2 2/8		6 3/4	2.48 FT.
			X		FT.
			X		FT.
19	DC	2 2/8		6 3/4	582.19 FT.
98	DP	STANDS			FT.
2	DP	SINGLES			918.42 FT.
KELLY DOWN					16.00 FT.
TOTAL					9810.32 FT.
WT. OF DC IN AIR					58M LBS.
WT. OF STRING					178M LBS.

BIT RECORD

BIT NO.	20
SIZE	8 3/4
MFG.	SMITH
TYPE	6JS
JETS 1/32"	12 12 12
SERIAL NO.	FF907
DEPTH OUT	
DEPTH IN	9676
TOTAL FTG.	134
TOTAL HRS. RUN	14 3/4
BIT CONDITION 1/8" T/B/GAGE	1/N
REAMER CUTTER NO.	
REAMER TYPE	

MUD RECORD

TIME	12:00	4:00	7:00
WEIGHT	9.1+	9.2	9.1+
VIS.-SEC.	47	47	46
PV/YP	/	/	/
GELS.	/	/	/
W.L.-C.C.	8.6	8.6	8.6
PH	11.0	11.0	11.0
SALINITY	24750		23,100
% SAND			

MUD MATERIALS ADDED

TYPE	AMOUNT	TYPE	AMOUNT
CAUSTIC	1 BAG		
(RED) MC	2 BAGS		

FOOTAGE

FROM	TO	ROT HOURS	DR-D / RM-R / CORE-C	CORE NO	FORMATION (SHOW CORE RECOVERY)	ROTARY R P M	WT ON BIT (1000#)	PUMP (AIR) PRESS	AIR VOL (CFM)	PUMP NO 1 LINER SIZE	PUMP NO 1 S P M	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN
9730	9810	7 3/4	80		10 MALA 33	40	45	2000		6	120			

DEVIATION RECORD

DEPTH	DEVIATION°	DIRECTION	DEPTH	DEVIATION°	DIRECTION	DEPTH	DEVIATION°	DIRECTION

TIME LOG

FROM	TO	ELAPSED TIME	CODE	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
12.00	12.15	1/4		Rig Serv. & B.O.P.'s
12.15	8.00	7 3/4		Drlg.
		8		

DRILLER: A. Lavoie

DAY TOUR

DRILLING ASSEMBLY AT END OF TOUR

NO.	CODE	BIT	I.D.	O.D.	FT.
1	RB	2 2/8		6 3/4	5.33
1	DM	3		6 7/8	14.80
1	SI	2 2/8		6 3/4	4.10
1	CO	2 2/8		6 3/4	2.48
			X		FT.
			X		FT.
19	DC	2 2/8		6 3/4	587.19
99	DP	STANDS			9242.72
1	DP	SINGLES			FT.
KELLY DOWN					28.50
TOTAL					9884.62
WT. OF DC IN AIR					59M LBS.
WT. OF STRING					180M LBS.

BIT RECORD

BIT NO.	20
SIZE	8 3/4
MFG.	SMITH
TYPE	6JS
JETS 1/32"	12 12 12
SERIAL NO.	FF907
DEPTH OUT	
DEPTH IN	9676
TOTAL FTG.	208
TOTAL HRS. RUN	22 1/2
BIT CONDITION 1/8" T/B/GAGE	
REAMER CUTTER NO.	
REAMER TYPE	

MUD RECORD

TIME	8:00	12:00
WEIGHT	9.1+	9.2
VIS.-SEC	47	45
PV/YP	/	/
GELS	/	/
W.L.-C.C	8.6	8.6
PH	10.5	10.5
SALINITY	21,450	
% SAND		

MUD MATERIALS ADDED

TYPE	AMOUNT	TYPE	AMOUNT
1/2 CAN CORR-INHIB			
1 CAN D-FOAM			
2 SKS. (RED) CMC			

FOOTAGE

FROM	TO	ROT HOURS	DR-D / RM-R / CORE-C	CORE NO	FORMATION (SHOW CORE RECOVERY)	ROTARY R P M	WT ON BIT (1000#)	PUMP (AIR) PRESS	AIR VOL (CFM)	PUMP NO 1 LINER SIZE	PUMP NO 1 S P M	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN
9810	9884	7 3/4	74			40	45	2050		6	120	6		
								625		6	60			

DEVIATION RECORD

DEPTH	DEVIATION°	DIRECTION	DEPTH	DEVIATION°	DIRECTION	DEPTH	DEVIATION°	DIRECTION

TIME LOG

FROM	TO	ELAPSED TIME	CODE	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
8.00	11.30	3 1/2		DRILL
11.30	11.45	1/4		CHECK B. O. P. SER. RIG
11.45	4.00	4 1/4		DRILL
				HELD BLOW OUT MEETING
				F. Bengtson - 4hr. Overtime

DRILLER: F. Hamel

EVENING TOUR

DRILLING ASSEMBLY AT END OF TOUR

NO.	CODE	BIT	I.D.	O.D.	FT.
1	NB	2 2/8		6 3/4	5.33 FT.
1	DM	3"		6 7/8	14.80 FT.
1	SI	2 2/8		6 3/4	4.10 FT.
1	CO	2 2/8		6 3/4	2.48 FT.
			X		FT.
			X		FT.
19	DC	2 2/8		6 3/4	587.19 FT.
100	DP	STANDS			9303.47 FT.
—	DP	SINGLES			FT.
KELLY DOWN					37.00 FT.
TOTAL					9954.37 FT.
WT. OF DC IN AIR					59M LBS.
WT. OF STRING					184M LBS.

BIT RECORD

BIT NO.	20
SIZE	8 3/4"
MFG.	Smith
TYPE	6JS
JETS 1/32"	12 12 12
SERIAL NO.	FF907
DEPTH OUT	
DEPTH IN	9676
TOTAL FTG.	278
TOTAL HRS. RUN	30 1/4
BIT CONDITION 1/8" T/B/GAGE	1/N
REAMER CUTTER NO.	
REAMER TYPE	

MUD RECORD

TIME	4:00	8:00	10:00
WEIGHT	9.1+	9.2	9.2
VIS.-SEC.	44	41	39
PV/YP	/	/	/
GELS.	/	/	/
W.L.-C.C.	8.2	8.1b	8.2
PH	10.5	10.5	10.5
% SOLIDS			
SALINITY	25,250		

MUD MATERIALS ADDED

TYPE	AMOUNT	TYPE	AMOUNT
GEL-10 BAGS			
CAUSTIC-1 BAG			

FOOTAGE

FROM	TO	ROT HOURS	DR-D / RM-R / CORE-C	CORE NO	FORMATION (SHOW CORE RECOVERY)	ROTARY R P M	WT ON BIT (1000#)	PUMP (AIR) PRESS	AIR VOL (CFM)	PUMP NO 1 LINER SIZE	PUMP NO 1 S P M	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN
9884'	9954'	7 3/4	70'			40	45	2050		6"	120	6"	120	
										6 3/4 HRS		1 HR		

DEVIATION RECORD

DEPTH	DEVIATION°	DIRECTION	DEPTH	DEVIATION°	DIRECTION	DEPTH	DEVIATION°	DIRECTION

TIME LOG

FROM	TO	ELAPSED TIME	CODE	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
4:00	4:15	1/4		Serv Rig & Checked BOP
4:15	12:00	7 3/4		Drlg
				(SHIPPED 6 3/4 SHOCK SUB OUT TO INUVIK)
				Held Blowout Drill.

DRILLER: E. Johnson

CP-38 (10/69)

DAILY DRILLING REPORT

WELL NAME: SHELL ARCTIC RED WEST

LOCATION: G-55 | PROVINCE: N.W.T.

OPERATOR: Shell Canada Limited | CONTRACTOR: GUSTAVSON DRLG (1964) LTD. | RIG NO.: 11

SIGNATURE OF OPERATOR'S REPRESENTATIVE: R Muffrik | SIGNATURE OF CONTRACTOR'S TOOL PUSHER: Jack McLeod

DEPTH AT START OF MORNING TOUR	DEPTH AT END OF EVENING TOUR	DAILY PROGRESS	CUMULATIVE ROTATING HOURS	DAYS FROM SPUD	DATE MONTH	DAY	YEAR
9624	9730'	106'		38	MAY	8	1971

DP./DC. SIZE	WT./FT.	GRADE	MIN. I.D.	TOOL JT O.D.	TYPE THREAD	PUMP NO.	PUMP MANUFACTURER	TYPE	STROKE LENGTH
4	14#	E	2 7/8	5 1/4	F.H.	1	NATIONAL	8-P-80	8 1/2
6 3/4	101#		2 7/8	6 3/4	5H90	2	NATIONAL	8-P-80	8 1/2

LAST CASING TUBING OR LINER

SIZE	WT. AND GR.	NO. OF JOINTS	FEET	KB. TO CSG. HEAD	SET AT	CEMENT USED (SACKS)	REMARKS
9 5/8	36# K55	38	1204	16.25	1201	886	

TIME DISTRIBUTION — HOURS

CODE NO.	OPERATION	MORN.	DAY	EVE.	TOTAL
1	RIG UP TEAR DOWN				
2	DRILLING ACTUAL	7 3/4	13	7	16 1/4
3	REAMING				
4	CORING				
5	CLEAN TO BOTTOM AND CIRCULATING				
6	TRIPS		4 1/4	3/4	5 1/2
7	RIG SERVICE	1/4		1/4	1/2
8	RIG REPAIR				
9	CUT AND/OR SLIP LINE				
10	DEVIATION SURVEY		1/2		1/2
11	WIRE LINE LOG				
12	RUN CASING AND CEMENT				
13	WAIT ON CEMENT				
14	NIPPLE UP B.O.P.				
15	TEST B.O.P.		1/4		1/4
16	DRILL STEM TEST				
17	PLUG BACK				
18	SQUEEZE CEMENT				
19	STUCK OR FISHING				
20	HANDLE TOOLS		1		1
21	CONDITION MUD				
22	LOST CIRCULATION				
23					
24					
COMPLETION 40	PERFORATE				
COMPLETION 41	TUBING TRIPS				
COMPLETION 42	TREATING				
COMPLETION 43	SWABBING				
COMPLETION 44	TESTING				
COMPLETION 45					
60	ABANDON				
70	STANDBY				
	TOTALS	8	8	8	24
	HOURS FOR SHELL ACCOUNT	7 7/4	7 3/4		24
CONTRACTOR	BOILER #1	8	8	8	24
CONTRACTOR	BOILER #2	8			

HOLE CONDITION

1	HOLE DRAG (1000#)	16M
2	TORQUE ON BOTTOM (DP TURNS)	
3	FILL ON BOTTOM (FEET)	NIL

DRILLING ASSEMBLY AT END OF TOUR

NO	CODE	BIT	FT.
1		NB 2 7/8 x 6 3/4	5.33 FT.
1		DM 3 x 6 3/4	14.80 FT.
1		S.S. 2 x 6 3/4	8.59 FT.
1		S.I. 2 7/8 x 6 3/4	4.10 FT.
1		C.O. 2 7/8 x 6 3/4	2.48 FT.
		X	FT.
19		DC 2 7/8 x 6 3/4	587.19 FT.
97	DP	STANDS	9025.22 FT.
	DP	SINGLES	FT.
		KELLY DOWN	26.71 FT.
		TOTAL	9673.51 FT.
		WT. OF DC IN AIR	59M LBS.
		WT. OF STRING	178M LBS.

BIT RECORD

BIT NO.	19
SIZE	8 3/4
MFG.	SMITH
TYPE	7JS
JETS 1/32"	12 12 11
SERIAL NO.	BY526
DEPTH OUT	
DEPTH IN	9453
TOTAL FTG.	220
TOTAL HRS. RUN	34
BIT CONDITION 1/8" T/B/GAGE	1N
REAMER CUTTER NO.	
REAMER TYPE	

MUD RECORD

TIME	12:00	4:00	7:00
WEIGHT	9.1+	9.2	9.2
VIS.-SEC.	48	47	48
PV/YP	/	/	/
GELS	/	/	/
W.L.-C.C.	8.8	8.0	8.0
PH	10.5	10.5	10.5
SALINITY CHLORIDES	26400		
% SAND			

MUD MATERIALS ADDED

TYPE	AMOUNT	TYPE	AMOUNT
WT. MT.	60 BAGS		
CAUSTIC	1 BAG		
CMC (REG)	2 BAGS		

FOOTAGE

FROM	TO	ROT HOURS	DR-D RM-R CORE-C	CORE NO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M	WT. ON BIT (1000#)	PUMP (AIR) PRESS	AIR VOL (CFM)	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN
9624	9673	7 3/4	49		change fuel filter on Rig fuel Tank.	40	46	2050		6"	120			
								800		6"	60			
					DESILTER 4 HRS. U.F. 11.5 O.F. 9.1									

DEVIATION RECORD

DEPTH	DEVIATION°	DIRECTION	DEPTH	DEVIATION°	DIRECTION	DEPTH	DEVIATION°	DIRECTION

MORNING TOUR

TIME LOG FROM	TO	ELAPSED TIME	CODE	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
12.00	12.15	1/4		Rig Serv. & B.O.P.s & Kelly Cock.
12.15	8.00	7 3/4		Drlg.
		8		Mechanic's Overtime From April 30, 1971 To May 7th 1971 - 10 hrs B. Russell, R. Muffrik

DRILLER: A. Gustavson

DRILLING ASSEMBLY AT END OF TOUR

NO	CODE	BIT	FT.
1		NB 2 7/8 x 6 3/4	5.33
1		DM 3 x 6 7/8	14.80
1		S.I. 2 7/8 x 6 3/4	4.10
1		C.O. 2 7/8 x 6 3/4	2.48
		X	FT.
19		DC 2 7/8 x 6 3/4	587.19
97	DP	STANDS	9025.22
	DP	SINGLES	FT.
		KELLY DOWN	37.00
		TOTAL	9676.12
		WT. OF DC IN AIR	LBS.
		WT. OF STRING	LBS.

BIT RECORD

BIT NO.	19	20
SIZE	8 3/4	8 3/4
MFG.	SMITH	SMITH
TYPE	7JS	6JS
JETS 1/32"	12 12 11	12 12 12
SERIAL NO.	BY526	FF907
DEPTH OUT	9676	
DEPTH IN	9453	
TOTAL FTG.	223	
TOTAL HRS. RUN	35 1/2	7
BIT CONDITION 1/8" T/B/GAGE	8 8 0	IN
REAMER CUTTER NO.		
REAMER TYPE		

MUD RECORD

TIME	8:00	
WEIGHT	9.2	
VIS.-SEC.	45	
PV/YP	/	/
GELS	/	/
W.L.-C.C.	8.4	
PH	10.5	
SALINITY CHLORIDES	23,000	
% SAND		

MUD MATERIALS ADDED

TYPE	AMOUNT	TYPE	AMOUNT
1/2 CAN	CORR INHIB		

FOOTAGE

FROM	TO	ROT HOURS	DR-D RM-R CORE-C	CORE NO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M	WT. ON BIT (1000#)	PUMP (AIR) PRESS	AIR VOL (CFM)	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN
9673	9676	1 1/2	3			46	40	2050		6	120	6		

DEVIATION RECORD

DEPTH	DEVIATION°	DIRECTION	DEPTH	DEVIATION°	DIRECTION	DEPTH	DEVIATION°	DIRECTION
9645	3 1/4	S24E						

DAY TOUR

TIME LOG FROM	TO	ELAPSED TIME	CODE	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
8.00	9.30	1 1/2		DRILL
9.30	12.45	3 1/4		SURVEY PULL OUT
12.45	2.15	1 1/2		BLIND RAMS CHECK STAB. RUN IN D.C.'S LAY DOWN S.S. (CRACKED)
	2.45			
2.15	4.00	1/2		CUT + SLIP DRLG LINE
2.45	4.00	1 1/4		RUN IN
				F. Bengtson - 4 hrs. Overtime

DRILLER: J. Homil

FOOTAGE

FROM	TO	ROT HOURS	DR-D RM-R CORE-C	CORE NO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M	WT. ON BIT (1000#)	PUMP (AIR) PRESS.	AIR VOL (CFM)	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN
9676	9730	7	54			40	45	3,000		6"	120	6"		
								675			60			

DEVIATION RECORD

DEPTH	DEVIATION°	DIRECTION	DEPTH	DEVIATION°	DIRECTION	DEPTH	DEVIATION°	DIRECTION

EVENING TOUR

TIME LOG FROM	TO	ELAPSED TIME	CODE	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
4.00	4.15	1/4		Serv. Rig & Checked B.O.P.
4.15	5.00	3/4		Finished in
5.00	12.00	7		Drlg.

DRILLER: L. Johnson

MUD RECORD

TIME	6.00	8.00	11:00
WEIGHT	9.1+	9.1+	9.1+
VIS.-SEC.	47	46	47
PV/YP	/	/	/
GELS	/	/	/
W.L.-C.C.	9.0	8.2	8.4
PH	9.	10.	11.0
% SOLIDS SALINITY	25000		
% SAND			

MUD MATERIALS ADDED

TYPE	AMOUNT	TYPE	AMOUNT
CAUSTIC	4 BAGS		
CMC	2 BAGS		

DAILY DRILLING REPORT

CP-38 (10/69)

WELL NAME	Shell Arctic Red West
LOCATION	G-55
PROVINCE	N.W.T.

OPERATOR	CONTRACTOR	RIG NO.	DEPTH AT START OF MORNING TOUR	DEPTH AT END OF EVENING TOUR	DAILY PROGRESS	CUMULATIVE ROTATING HOURS	DAYS FROM SPUD	MONTH	DAY	YEAR
Shell Canada Limited	Gustavson Drlg (1964) Ltd	11	9468	9624	156	573 1/4	37	May	7	71

SIGNATURE OF OPERATOR'S REPRESENTATIVE: [signature]
SIGNATURE OF CONTRACTOR'S TOOL PUSHER: [signature]

DP./DC. SIZE	WT./FT.	GRADE	MIN. I.D.	TOOL JT O.D.	TYPE THREAD	PUMP NO.	PUMP MANUFACTURER	TYPE	STROKE LENGTH
4	14#	E	2 7/8	5 1/4	FH	1	NATIONAL	8-P-80	8 1/2
6 3/4	101#		2 7/8		5" H90	2	NATIONAL	8-P-80	8 1/2

LAST CASING, TUBING OR LINER	SIZE	WT. AND GR.	NO. OF JOINTS	FEET	KB. TO CSG. HEAD	SET AT	CEMENT USED (SACKS)	REMARKS
	9 5/8	36# K55	38	1204		1201	886	

TIME DISTRIBUTION — HOURS

CODE NO.	OPERATION	MORN.	DAY	EVE.	TOTAL
1	RIG UP TEAR DOWN				
2	DRILLING ACTUAL	7 3/4	7 3/4	7 1/4	22 3/4
3	REAMING				
4	CORING				
5	CLEAN TO BOTTOM AND CIRCULATING				
6	TRIPS				
7	RIG SERVICE	1/4	1/4		1/2
8	RIG REPAIR				
9	CUT AND/OR SLIP LINE				
10	DEVIATION SURVEY				
11	WIRE LINE LOG				
12	RUN CASING AND CEMENT				
13	WAIT ON CEMENT				
14	NIPPLE UP B.O.P.				
15	TEST B.O.P.		1/4		1/4
16	DRILL STEM TEST				
17	PLUG BACK				
18	SQUEEZE CEMENT				
19	STUCK OR FISHING				
20	HANDLE TOOLS				
21	CONDITION MUD				
22	LOST CIRCULATION				
23					
24					
COMPLETION 40	PERFORATE				
41	TUBING TRIPS				
42	TREATING				
43	SWABBING				
44	TESTING				
45					
60	ABANDON				
70	STANDBY				
	TOTALS	8	8	8	24
	HOURS FOR SHELL ACCOUNT	24			
CONTRACTOR RENTAL	BOILER #1	8	8	8	
	BOILER #2	8	8		

HOLE CONDITION

1	HOLE DRAG (1000#)	10
2	TORQUE ON BOTTOM (DP TURNS)	1 1/2
3	FILL ON BOTTOM (FEET)	

MORNING TOUR

Drilling Assembly at End of Tour

NO.	CODE	BIT	FT.
1	NB	2 7/8 x 6 3/4	5.33
1	DM	3 x 6 3/4	14.80
1	SS	2 x 6 3/4	8.59
1	S1	2 7/8 x 6 3/4	4.10
1	Co	2 7/8 x 6 3/4	2.48
		I.D. x O.D.	
19	DC	2 7/8 x 6 3/4	587.19
95	DP	STANDS	
1	DP	SINGLES	8869.28
		KELLY DOWN	24.00
		TOTAL	9515.57
		WT. OF DC IN AIR	59 m LBS.
		WT. OF STRING	175 m LBS.

Bit Record

BIT NO.	19
SIZE	8 3/4
MFG.	Smith
TYPE	7JS
JETS 1/32"	12 12 11
SERIAL NO.	BY526
DEPTH OUT	
DEPTH IN	9453
TOTAL FTG.	62
TOTAL HRS. RUN	10 3/4
BIT CONDITION 1/8" T/B/GAGE	Drlg
REAMER CUTTER NO.	
REAMER TYPE	

Mud Record

TIME	12:00	4:00	7:00
WEIGHT	9.1	9.1	9.1
VIS.-SEC.	44	42	42
PV/YP	16/14	/	12/17
GELS	2/7	/	2/6
W.L.-CC.	8.8	7.9	7
PH	9.5	9.5	9.5
Salinity	31,680	27,985	
% SAND			

Mud Materials Added

TYPE	AMOUNT	TYPE	AMOUNT
CMC	2 Bag Reg		

Footage

FROM	TO	ROT HOURS	DR-D RM-R CORE-C	CORE NO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT ON BIT (1000#)	PUMP (AIR) PRESS	AIR VOL (CFM)	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN
9468	9515	7 3/4	47			40	48	2000		6	120			
					Held BOP Drlg			880		6	60			

Desilter Ran 8 hrs 12.2 under flow 9.1 Over flow

DEVIATION RECORD: DEPTH / DEVIATION° / DIRECTION —

Time Log

FROM	TO	ELAPSED TIME	CODE	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
12:00	12:15	1/4		Rig Ser / BOPs.
12:15	8:00	7 3/4		Drlg 8 3/4

DRILLER: D. Tindall

DAY TOUR

Drilling Assembly at End of Tour

NO.	CODE	BIT	FT.
1	NB	2 7/8 x 6 3/4	5.33
1	DM	3 x 6 3/4	14.80
1	SS	2 x 6 3/4	8.59
1	S1	2 7/8 x 6 3/4	4.10
1	CO	2 7/8 x 6 3/4	2.48
		I.D. x O.D.	
19	DC	2 7/8 x 6 3/4	587.19
96	DP	STANDS	
	DP	SINGLES	8931.58
		KELLY DOWN	16.13
		TOTAL	9571.00
		WT. OF DC IN AIR	59 M LBS.
		WT. OF STRING	176 M LBS.

Bit Record

BIT NO.	19
SIZE	8 3/4
MFG.	SMITH
TYPE	7JS
JETS 1/32"	12 12 11
SERIAL NO.	BY526
DEPTH OUT	
DEPTH IN	9453
TOTAL FTG.	118
TOTAL HRS. RUN	18 1/2
BIT CONDITION 1/8" T/B/GAGE	IN
REAMER CUTTER NO.	
REAMER TYPE	

Mud Record

TIME	8:00	12:00	3:00
WEIGHT	9.1	9.2	9.1+
VIS.-SEC.	38	45	45
PV/YP	16/18	/	/
GELS	3/10	/	/
W.L.-CC.	8.4	8.2	8.2
PH	9.0	10.5	10.5
SALINITY	29,700		
% SAND			

Mud Materials Added

TYPE	AMOUNT	TYPE	AMOUNT
GEL	20 BAGS	WT.MT.	60 BAGS
BENEX	2 BAGS		
CAUSTIC	2 BAGS		
C.M.C. (Hi vis)	1 BAG		

Footage

FROM	TO	ROT HOURS	DR-D RM-R CORE-C	CORE NO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT ON BIT (1000#)	PUMP (AIR) PRESS	AIR VOL (CFM)	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN
9515	9571	7 3/4	56		Donax T6#	40	48	2000		6	120			

DESILTER - 4 HRS. UF 10.5 . OF 9.1

DEVIATION RECORD: DEPTH / DEVIATION° / DIRECTION —

Time Log

FROM	TO	ELAPSED TIME	CODE	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
8.00	8.15	1/4		Rig Serv. / BOPs
8.15	4.00	7 3/4		Drlg.
		8		

DRILLER: [signature]

EVENING TOUR

Drilling Assembly at End of Tour

NO.	CODE	BIT	FT.
1	NB	2 7/8 x 6 3/4	5.33
1	DM	3 x 6 3/4	14.80
1	SS	2 x 6 3/4	8.59
1	S1	2 7/8 x 6 3/4	4.10
1	CO	2 7/8 x 6 3/4	2.48
		I.D. x O.D.	
19	DC	2 7/8 x 6 3/4	587.19
	DP	STANDS	
	DP	SINGLES	
		KELLY DOWN	
		TOTAL	9624.00
		WT. OF DC IN AIR	59 m LBS.
		WT. OF STRING	178 m LBS.

Bit Record

BIT NO.	19
SIZE	8 3/4
MFG.	SMITH
TYPE	7JS
JETS 1/32"	12 12 11
SERIAL NO.	BY526
DEPTH OUT	
DEPTH IN	9453
TOTAL FTG.	171
TOTAL HRS. RUN	26 1/4
BIT CONDITION 1/8" T/B/GAGE	IN
REAMER CUTTER NO.	
REAMER TYPE	

Mud Record

TIME	4:00	8:00
WEIGHT	9.1+	9.1+
VIS.-SEC.	45	45
PV/YP		
GELS		
W.L.-CC.	8.4	8.6
PH	10.5	10.5
% SOLIDS		
% SAND		

Mud Materials Added

TYPE	AMOUNT	TYPE	AMOUNT
1 CAN D-FOAM			
1 CAN COR. INH.			

Footage

FROM	TO	ROT HOURS	DR-D RM-R CORE-C	CORE NO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT ON BIT (1000#)	PUMP (AIR) PRESS	AIR VOL (CFM)	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN
9571	9624	7 1/4	53			40	46	2000		6	120	6		
								650		6	60			

DEVIATION RECORD: DEPTH / DEVIATION° / DIRECTION —

Time Log

FROM	TO	ELAPSED TIME	CODE	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
4.00	7.45			DRILL
7.45	8.00			CHECK B.O.P. SER. RIG.
8.00	12.00			DRILL

DRILLER: J. [signature]

CP-38 (10/69)

DAILY DRILLING REPORT

WELL NAME: Shell Arctic RED West

LOCATION: G-55 | PROVINCE: N.W.T.

OPERATOR: Shell Canada Limited | SIGNATURE OF OPERATOR'S REPRESENTATIVE: R. Mansfield

CONTRACTOR: Gustafson Drilling (1964) Ltd | RIG NO.: 11 | SIGNATURE OF CONTRACTOR'S TOOL PUSHER: M. Lowrie

DEPTH AT START OF MORNING TOUR	DEPTH AT END OF EVENING TOUR	DAILY PROGRESS	CUMULATIVE ROTATING HOURS	DAYS FROM SPUD	DATE MONTH	DAY	YEAR
9345	9468	123	550 3/4	36	MAY	6	71

DP./DC. SIZE	WT./FT	GRADE	MIN. I.D.	TOOL JT O.D.	TYPE THREAD	PUMP NO.	PUMP MANUFACTURER	TYPE	STROKE LENGTH
4	14#	E	2 7/8	5 1/4	FH	1	NATIONAL	8-P-80	8 1/2
6 3/4	101#		2 7/8		5"H90	2	NATIONAL	8-P-80	8 1/2

LAST CASING TUBING OR LINER

SIZE	WT. AND GR.	NO. OF JOINTS	FEET	KB TO CSG. HEAD	SET AT	CEMENT USED (SACKS)	REMARKS
9 5/8	36# K55	38	1204		1201	886	

TIME DISTRIBUTION — HOURS

CODE NO.	OPERATION	MORN.	DAY	EVE.	TOTAL
1	RIG UP TEAR DOWN				
2	DRILLING ACTUAL	7 3/4	5	3	15 3/4
3	REAMING				
4	CORING				
5	CLEAN TO BOTTOM AND CIRCULATING				
6	TRIPS		1 3/4	3 3/4	5 1/2
7	RIG SERVICE	1/4	1/4		1/2
8	RIG REPAIR				
9	CUT AND/OR SLIP LINE			1/4	1/4
10	DEVIATION SURVEY		1		1
11	WIRE LINE LOG				
12	RUN CASING AND CEMENT				
13	WAIT ON CEMENT				
14	NIPPLE UP B.O.P.				
15	TEST B.O.P.			1/4	1/4
16	DRILL STEM TEST				
17	PLUG BACK				
18	SQUEEZE CEMENT				
19	STUCK OR FISHING				
20	HANDLE TOOLS				
21	CONDITION MUD				
22	LOST CIRCULATION				
23	CHANGE STAB BLADES			3/4	3/4
24					
COMPLETION 40	PERFORATE				
COMPLETION 41	TUBING TRIPS				
COMPLETION 42	TREATING				
COMPLETION 43	SWABBING				
COMPLETION 44	TESTING				
COMPLETION 45					
60	ABANDON				
70	STANDBY				
	TOTALS	8	8	8	24
	HOURS FOR SHELL ACCOUNT		7.52	6.24	
CONTRACTOR EQUIP. RENTAL	BOILER #	8	8		

HOLE CONDITION

1	HOLE DRAG (1000#)	10M
2	TORQUE ON BOTTOM (DP TURNS)	1 1/2
3	FILL ON BOTTOM (FEET)	NONE

MORNING TOUR

DRILLING ASSEMBLY NO. | CODE AT END OF TOUR

		BIT		FT.
1	NB	2 7/8 x 6 3/4		5.33 FT.
1	DM	3 x 6 3/4		1480 FT.
1	SS	2 x 6 3/4		8.59 FT.
1	S1	2 7/8 x 6 3/4		4.10 FT.
1	C0	2 7/8 x 6 3/4		2.48 FT.
		I.D. X O.D.		FT.
19	DC	2 7/8 x 6 3/4		587.19 FT.
		I.D. X O.D.		FT.
94	DP	STANDS		FT.
1	DP	SINGLES		8775.77 FT.
KELLY DOWN				18.00 FT.
TOTAL				9415.96 FT.
WT. OF DC IN AIR				59 LBS.
WT. OF STRING				176 LBS.

BIT RECORD

BIT NO.	18
SIZE	8 3/4
MFG.	SEC
TYPE	H-100
JETS 1/32"	12 12 11
SERIAL NO.	284469
DEPTH OUT	
DEPTH IN	9153
TOTAL FTG.	262
TOTAL HRS. RUN	32
BIT CONDITION 1/8" T/B/GAGE	Drlg
REAMER CUTTER NO.	
REAMER TYPE	

MUD RECORD

TIME	12:00	400	700
WEIGHT	9.2	9.2	9.2
VIS.-SEC	42	44	45
PV/YP	12/10	/	/
GELS	2/5	/	/
W.L.-C.C	9.2	8.6	8.5
PH	9.0	9.5	9.5
~~SALINITY~~ Salinity			
% SAND	28,380	28,215	

MUD MATERIALS ADDED

TYPE	AMOUNT	TYPE	AMOUNT
(Hi Vis) CMC	2 Bags		
CAUSTIC	1 Bag		
CORRO. INH.	1 Bag		

FOOTAGE

FROM	TO	ROT HOURS	DR-D / RM-R / CORE-C	CORE NO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT. ON BIT (1000#)	PUMP (AIR) PRESS	AIR VOL (CFM)	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN
9345	9415	7 3/4	70			40	45	2000		6	120			
					Desilter Run 3 hrs. overflow 9.1 underflow 13.4									

DEVIATION RECORD

DEPTH	DEVIATION°	DIRECTION	DEPTH	DEVIATION°	DIRECTION	DEPTH	DEVIATION°	DIRECTION

TIME LOG

FROM	TO	ELAPSED TIME	CODE	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
12 00	12 15	1/4		R.g SERV / BOPS.
12 15	8 00	7 3/4		DALg 8 3/4 Hole.
		8		

DRILLER

DAY TOUR

DRILLING ASSEMBLY NO. | CODE AT END OF TOUR

		BIT		FT.
1	NB	2 7/8 x 6 3/4		5.33 FT.
1	DM	3 x 6 3/4		14.80 FT.
1	SS	2 x 6 3/4		8.59 FT.
1	S1	2 7/8 x 6 3/4		4.10 FT.
1	C0	2 7/8 x 6 3/4		2.48 FT.
		I.D. X O.D.		FT.
19	DC	2 7/8 x 6 3/4		587.19 FT.
94	DP	STANDS		8806.96 FT.
2	DP	SINGLES		23.97 FT.
KELLY DOWN				9453.22 FT.
TOTAL				59M LBS.
WT. OF DC IN AIR				176M LBS.
WT. OF STRING				

BIT RECORD

BIT NO.	18
SIZE	8 3/4
MFG.	SEC
TYPE	H-100
JETS 1/32"	12 12 11
SERIAL NO.	284469
DEPTH OUT	9453
DEPTH IN	9153
TOTAL FTG.	300
TOTAL HRS. RUN	37
BIT CONDITION 1/8" T/B/GAGE	4 2 0
REAMER CUTTER NO.	
REAMER TYPE	

MUD RECORD

TIME	8:00	12:00	
WEIGHT	9.1+	9.1+	
VIS.-SEC	44	45	
PV/YP	14/11	/	/
GELS	4/10	/	/
W.L.-C.C	8.4	8.0	
PH	9.5	9.5	
~~SALINITY~~ Salinity	28545		
% SAND			

MUD MATERIALS ADDED

TYPE	AMOUNT	TYPE	AMOUNT
GEL	15 BAGS		
CAUSTIC	1 BAG		
CMC (Hi Vis)	1 BAG		
BEN-EX	1 BAG		

FOOTAGE

FROM	TO	ROT HOURS	DR-D / RM-R / CORE-C	CORE NO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT. ON BIT (1000#)	PUMP (AIR) PRESS	AIR VOL (CFM)	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN
9415	9453	5	38			40	45	2000		6	120			

DEVIATION RECORD

DEPTH	DEVIATION°	DIRECTION	DEPTH	DEVIATION°	DIRECTION	DEPTH	DEVIATION°	DIRECTION
9453	3 1/4	S 1 E						

TIME LOG

FROM	TO	ELAPSED TIME	CODE	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
8.00	8.15	1/4		~~Drlg~~ Rig Serv / B.O.P's
8.15	1.15	5		Drlg.
1.15	2.15	1		Run Survey.
2.15	4.00	1 3/4		TRIP OUT FOR WASH OUT.
		8		

DRILLER: R. Lowrie

EVENING TOUR

DRILLING ASSEMBLY NO. | CODE AT END OF TOUR

		BIT		FT.
1	W R	2 7/8 x 6 3/4		5.33
1	DM	3 x 6 3/16		14.80
1	SS	2 x 6 3/4		8.59
1	S1	2 7/8 x 6 3/4		4.10
1	C0	2 7/8 x 6 3/4		2.48
		I.D. X O.D.		FT.
19	DC	2 7/8 x 6 3/4		587.19
94	DP	STANDS		8806.96
2	DP	SINGLES		FT.
KELLY DOWN				39.00
TOTAL				9468.35
WT. OF DC IN AIR				59M LBS.
WT. OF STRING				128M LBS.

BIT RECORD

BIT NO.	19
SIZE	8 3/4
MFG.	SMITH
TYPE	7JS
JETS 1/32"	12 12 11
SERIAL NO.	CY536
DEPTH OUT	
DEPTH IN	9453
TOTAL FTG.	15
TOTAL HRS. RUN	3
BIT CONDITION 1/8" T/B/GAGE	1 N
REAMER CUTTER NO.	
REAMER TYPE	

MUD RECORD

TIME	T	9:00	
WEIGHT	R	90	
VIS.-SEC.	I	46	
PV/YP	P	/	/
GELS	/	/	/
W.L.-C.C		8	
PH		9.5	
% SOLIDS			
% SAND			

MUD MATERIALS ADDED

TYPE	AMOUNT	TYPE	AMOUNT
1 CAN CORR ENHIB			

FOOTAGE

FROM	TO	ROT HOURS	DR-D / RM-R / CORE-C	CORE NO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT. ON BIT (1000#)	PUMP (AIR) PRESS.	AIR VOL. (CFM.)	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN
9453	9468	~~2~~	15			40	10-38	2050		6	120			
		3						675		6	60			

DEVIATION RECORD

DEPTH	DEVIATION°	DIRECTION	DEPTH	DEVIATION°	DIRECTION	DEPTH	DEVIATION°	DIRECTION

TIME LOG

FROM	TO	ELAPSED TIME	CODE	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
4.00	5.15	1 1/4		FINISH OUT (LOST JET) BLIND RAMS
5.15	6.45	1 1/2		RUN IN D.C's. CHANGE STAB. BLADES
6.45	7.00	1/4		SLIP DRLG LINE
7.00	9.00	2		RUN IN
9.00	12.00	3		DRILL
				HELD BLOWOUT DRILL

DRILLER: J. Hovish

CP-38 (10/69)

DAILY DRILLING REPORT

WELL NAME: Shell Arctic Red West

LOCATION: G-55 | PROVINCE: N.W.T.

OPERATOR: Shell Canada Limited | CONTRACTOR: Gustavson Drilling (1964) Ltd | RIG NO.: 11

SIGNATURE OF OPERATOR'S REPRESENTATIVE: R. Shappink | SIGNATURE OF CONTRACTOR'S TOOL PUSHER: M. Lowicki

DEPTH AT START OF MORNING TOUR	DEPTH AT END OF EVENING TOUR	DAILY PROGRESS	CUMULATIVE ROTATING HOURS	DAYS FROM SPUD	DATE (MONTH / DAY / YEAR)
9158'	9345	187	535	35	May 5 71

DP./DC. SIZE	WT./FT.	GRADE	MIN. I.D.	TOOL JT O.D.	TYPE THREAD
4"	14#	E	2 7/8	5 1/4	FH
6 3/4	101#		2 7/8		5"H90

PUMP NO.	PUMP MANUFACTURER	TYPE	STROKE LENGTH
1	National	8-P-80	8½
2	National	8-P-80	8½

LAST CASING TUBING OR LINER

SIZE	WT. AND GR.	NO. OF JOINTS	FEET	KB TO CSG. HEAD	SET AT	CEMENT USED (SACKS)	REMARKS
9 7/8	36# K55	38	1204		1201	886	

TIME DISTRIBUTION — HOURS

CODE NO.	OPERATION	MORN.	DAY	EVE.	TOTAL
1	RIG UP TEAR DOWN				
2	DRILLING ACTUAL	7¾	7¾	7¼	23¼
3	REAMING				
4	CORING				
5	CLEAN TO BOTTOM AND CIRCULATING				
6	TRIPS				
7	RIG SERVICE	¼	¼		½
8	RIG REPAIR				
9	CUT AND/OR SLIP LINE				
10	DEVIATION SURVEY				
11	WIRE LINE LOG				
12	RUN CASING AND CEMENT				
13	WAIT ON CEMENT				
14	NIPPLE UP B.O.P.				
15	TEST B.O.P.			¼	¼
16	DRILL STEM TEST				
17	PLUG BACK				
18	SQUEEZE CEMENT				
19	STUCK OR FISHING				
20	HANDLE TOOLS				
21	CONDITION MUD				
22	LOST CIRCULATION				
23					
24					
COMPLETION 40	PERFORATE				
COMPLETION 41	TUBING TRIPS				
COMPLETION 42	TREATING				
COMPLETION 43	SWABBING				
COMPLETION 44	TESTING				
COMPLETION 45					
60	ABANDON				
70	STANDBY				
	TOTALS	8	8	8	
	HOURS FOR SHELL ACCOUNT	232 hr.			24
CONTRACTOR EQUIPMENT	BOILER #1	8	8	8	

HOLE CONDITION

1	HOLE DRAG (1000#)	
2	TORQUE ON BOTTOM (DP TURNS)	
3	FILL ON BOTTOM (FEET)	

MORNING TOUR

DRILLING ASSEMBLY NO. / CODE AT END OF TOUR

	BIT	FT.
1	NB 2⅞ x 6¾	5.35 FT.
1	DM 3 x 6¾	14.80 FT.
1	SS 2 x 6¾	8.59 FT.
1	SI 2⅞ x 6¾	4.10 FT.
1	CO 2⅞ x 6¾	2.48 FT.
	I.D. x O.D.	FT.
19	DC 2⅞ x 6¾	587.19 FT.
92	DP STANDS	8558.12
	DP SINGLES	FT.
	KELLY DOWN	25.00 FT.
	TOTAL	9205.41
	WT. OF DC IN AIR	59,508 LBS.
	WT. OF STRING	174 LBS.

BIT RECORD

BIT NO.	18
SIZE	8¾
MFG.	SEC
TYPE	H100
JETS 1/32"	12 12 11
SERIAL NO.	288462
DEPTH OUT	
DEPTH IN	9153
TOTAL FTG.	53
TOTAL HRS. RUN	8¾
BIT CONDITION 1/8" T/B/GAGE	
REAMER CUTTER NO.	
REAMER TYPE	

MUD RECORD

TIME	12:00	400	
WEIGHT	9.0	9.1	9.0
VIS.-SEC.	45	49	50
PV/YP	18/13	/	/
GELS.	2/6	/	/
W.L.-C.C.	9.8	8.6	
PH	9.0	9.5	
Salinity	24,282	31,350	
% SAND			

MUD MATERIALS ADDED

TYPE	AMOUNT	TYPE	AMOUNT
GEL	10 Bags		
BENEX	1 Bag		
(HI VIS) CMC	2 Bags		
CAUSTIC	2 Bags		

FOOTAGE

FROM	TO	ROT HOURS	DR-D RM-R CORE-C	CORE NO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT ON BIT (1000#)	PUMP (AIR) PRESS.	AIR VOL (CFM)	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN
9158	9205	7¾	47			40	45	2000		6	120			
								650		6	60			

DEVIATION RECORD

DEPTH	DEVIATION°	DIRECTION	DEPTH	DEVIATION°	DIRECTION	DEPTH	DEVIATION°	DIRECTION

TIME LOG

FROM	TO	ELAPSED TIME	CODE	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
12.00	12.15	¼		Rig Ser. / BOPs.
12.15	8.00	7¾		Drlg 8¾ Hole.
		8		
				Held Blow out Drill

DRILLER: D. Tindall

DAY TOUR

DRILLING ASSEMBLY NO. / CODE AT END OF TOUR

	BIT	FT.
1	NB 2⅞ x 6¾	5.35 FT.
1	DM 3 x 6¾	14.80 FT.
1	SS 2 x 6¾	8.59 FT.
1	SI 2⅞ x 6¾	4.10 FT.
1	CO 2⅞ x 6¾	2.48 FT.
	I.D. x O.D.	FT.
19	DC 2⅞ x 6¾	587.19 FT.
92	DP STANDS	FT.
2	DP SINGLES	8620.24 FT.
	KELLY DOWN	36.00 FT.
	TOTAL	9278.43 FT.
	WT. OF DC IN AIR	59M. LBS.
	WT. OF STRING	175M. LBS.

BIT RECORD

BIT NO.	18
SIZE	8¾
MFG.	SEC
TYPE	H-100
JETS 1/32"	12 12 11
SERIAL NO.	288462
DEPTH OUT	
DEPTH IN	9153
TOTAL FTG.	126
TOTAL HRS. RUN	16½
BIT CONDITION 1/8" T/B/GAGE	1N
REAMER CUTTER NO.	
REAMER TYPE	

MUD RECORD

TIME	8:00	12:00	3:00
WEIGHT	9	9.1	9.1
VIS.-SEC.	47	46	46
PV/YP	18/12	/	/
GELS	6/15	/	/
W.L.-C.C.	8.8	8.6	8.6
PH	9.5	9.5	9.5
SALINITY	28700		
% SAND			

MUD MATERIALS ADDED

TYPE	AMOUNT	TYPE	AMOUNT
CAUSTIC	1 BAG		
WT. MT.	60 BAGS		
1 CAN D FOAM			
CMC	2 BAGS		

FOOTAGE

FROM	TO	ROT HOURS	DR-D RM-R CORE-C	CORE NO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT ON BIT (1000#)	PUMP (AIR) PRESS.	AIR VOL (CFM)	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN
9205	9278	7¾	73		1 Drum Rimila3 #30	42	45M	2000		6"	120			
					1 " Vitrea #41			650		6"	60			

DEVIATION RECORD

DEPTH	DEVIATION°	DIRECTION	DEPTH	DEVIATION°	DIRECTION	DEPTH	DEVIATION°	DIRECTION

TIME LOG

FROM	TO	ELAPSED TIME	CODE	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
8.00	9.45	1¾		Drlg.
9.45	10.00	¼		Rig Ser. / BOPs + Kelly Cock.
10.00	4.00	6		Drlg.
		8		

DRILLER: A. Levosiuk

EVENING TOUR

DRILLING ASSEMBLY NO. / CODE AT END OF TOUR

	BIT	FT.
1	NB 2⅞ x 6¾	5.33 FT.
1	DM 3 x 6¾	14.80 FT.
1	SS 2 x 6¾	8.59 FT.
1	SI 2⅞ x 6¾	4.10 FT.
1	CO 2⅞ x 6¾	2.48 FT.
	I.D. x O.D.	FT.
19	DC 2⅞ x 6¾	587.19 FT.
93	DP STANDS	8682.50
1	DP SINGLES	FT.
	KELLY DOWN	41.00
	TOTAL	9345.99
	WT. OF DC IN AIR	59M LBS.
	WT. OF STRING	176M LBS.

BIT RECORD

BIT NO.	18
SIZE	8¾
MFG.	SEC
TYPE	H-100
JETS 1/32"	12 12 11
SERIAL NO.	284469
DEPTH OUT	
DEPTH IN	9153
TOTAL FTG.	193
TOTAL HRS. RUN	24¼
BIT CONDITION 1/8" T/B/GAGE	1N
REAMER CUTTER NO.	
REAMER TYPE	

MUD RECORD

TIME	4:00	8:00	
WEIGHT	9.2	9.2	
VIS.-SEC.	46	45	
PV/YP	/	/	/
GELS	/	/	/
W.L.-C.C.	8.6	8.4	
PH	9.5	9.5	
% SOLIDS			
% SAND			

MUD MATERIALS ADDED

TYPE	AMOUNT	TYPE	AMOUNT

FOOTAGE

FROM	TO	ROT HOURS	DR-D RM-R CORE-C	CORE NO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT ON BIT (1000#)	PUMP (AIR) PRESS.	AIR VOL (CFM)	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN
9278	9345	7¼	67			40	45	2000		6	120	6		
								675		6	60			

DEVIATION RECORD

DEPTH	DEVIATION°	DIRECTION	DEPTH	DEVIATION°	DIRECTION	DEPTH	DEVIATION°	DIRECTION

TIME LOG

FROM	TO	ELAPSED TIME	CODE	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
4.00	4.45			DRILL
4.45	5.00			CHECK B.O.P. SER. RIG
5.00	12.00			DRILL

DRILLER: J. Howitt

CP-38 (10/69)

DAILY DRILLING REPORT

WELL NAME	LOCATION	PROVINCE
SHELL ARCTIC RED WEST	G-55	N.W.T.

OPERATOR	CONTRACTOR	RIG NO.
Shell Canada Limited	Gustavson Drlg (1964) LTD	11
SIGNATURE OF OPERATOR'S REPRESENTATIVE: R. Maffuik	SIGNATURE OF CONTRACTOR'S TOOL PUSHER: M. Sovietz	

DEPTH AT START OF MORNING TOUR	DEPTH AT END OF EVENING TOUR	DAILY PROGRESS	CUMULATIVE ROTATING HOURS	DAYS FROM SPUD	MONTH	DAY	YEAR
9026	9158			34	May	4	71

DP./DC. SIZE	WT./FT.	GRADE	MIN. I.D.	TOOL JT O.D.	TYPE THREAD	PUMP NO.	PUMP MANUFACTURER	TYPE	STROKE LENGTH
4"	14#	E	2 7/8	5 1/4	FH	1	NATIONAL	8-P-80	8 1/2
6 3/4	101#		2 7/8	6 3/4	5" 490	2	NATIONAL	8-P-80	8 1/2

LAST CASING TUBING OR LINER	SIZE	WT. AND GR.	NO. OF JOINTS	FEET	KB TO CSG. HEAD	SET AT	CEMENT USED (SACKS)	REMARKS
	9 5/8	36# K55	38	1204		1201	886	

TIME DISTRIBUTION — HOURS

CODE NO.	OPERATION	MORN.	DAY	EVE.	TOTAL
1	RIG UP TEAR DOWN				
2	DRILLING ACTUAL	6	7 1/2	1	14 1/2
3	REAMING				
4	CORING				
5	CLEAN TO BOTTOM AND CIRCULATING	1/2		1/2	1
6	TRIPS	1 1/2		6	7 1/2
7	RIG SERVICE		1/4		1/4
8	RIG REPAIR				
9	CUT AND/OR SLIP LINE			1/4	1/4
10	DEVIATION SURVEY				
11	WIRE LINE LOG				
12	RUN CASING AND CEMENT				
13	WAIT ON CEMENT				
14	NIPPLE UP B.O.P.				
15	TEST B.O.P.		1/4	1/4	1/2
16	DRILL STEM TEST				
17	PLUG BACK				
18	SQUEEZE CEMENT				
19	STUCK OR FISHING				
20	HANDLE TOOLS				
21	CONDITION MUD				
22	LOST CIRCULATION				
23	B.O.P. DRILL		?		
24					
40	PERFORATE				
41	TUBING TRIPS				
42	TREATING				
43	SWABBING				
44	TESTING				
45					
60	ABANDON				
70	STANDBY				
	TOTALS	8	8	8	
	HOURS FOR SHELL ACCOUNT	2	32	6	24
	BOILER #1	8	8	8	
	BOILER #2	8	8		

HOLE CONDITION

1	HOLE DRAG (1000#)	10M
2	TORQUE ON BOTTOM (DP TURNS)	2T
3	FILL ON BOTTOM (FEET)	10

MORNING TOUR

Drilling Assembly at End of Tour

NO.	BIT	FT.
1	NB 2 7/8 x 6 3/4	5.33
1	DM 3 x 6 3/4	14.80
1	BS 2 7/8 x 6 3/4	4.10
1	SS 2 x 6 3/4	8.59
1	JH 2 7/8 x 6 3/4	7.53
1	CO 2 7/8 x 6 3/4	2.48
19	DC 2 7/8 x 6 3/4	587.19
90	DP STANDS	
1	DP SINGLES	8433.90
	KELLY DOWN	14.00
	TOTAL	9077.12
	WT. OF DC IN AIR	59,508 LBS.
	WT. OF STRING	170M LBS.

Bit Record

BIT NO.	17
SIZE	8 3/4
MFG.	SEC
TYPE	H10
JETS 1/32"	12 12 11
SERIAL NO.	248409
DEPTH OUT	
DEPTH IN	9026
TOTAL FTG.	51
TOTAL HRS. RUN	6
BIT CONDITION 1/8" T/B/GAGE	Drlg
REAMER CUTTER NO.	
REAMER TYPE	

Mud Record

TIME	3:00	5:00	7:00
WEIGHT	9.0	9.1	
VIS.-SEC.	47	39	
PV/YP	20/20	20/20	
GELS	4/10	4/10	
W.L.-CC	10.0	9.8	
PH	8.5	9.5	
Salinity	34,495	29,700	
% SAND			

MUD MATERIALS ADDED

TYPE	AMOUNT
Caustic	3 Bags
Gel	10 Bags
CMC	3 Bags
Benex	1 Bag

Footage

FROM	TO	ROT HOURS	DR-D RM-R CORE-C	CORE NO	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	WT ON BIT (1000#)	PUMP (AIR) PRESS	AIR VOL (CFM)	PUMP NO 1 LINER SIZE	PUMP NO 1 SPM	PUMP NO 2 LINER SIZE	PUMP NO 2 SPM	METHOD PUMPS RUN
9026	9077	6	51			40	45	2000		6	120			
												6	120	

DEVIATION RECORD: DEPTH / DEVIATION° / DIRECTION — (none)

Time Log

FROM	TO	ELAPSED TIME	CODE	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
12:00	1:30	1 1/2		Run in w/B.T #17.
1:30	2:00	1/2		Clean to Bottom Ream 2 feet
2:00	8:00	6		Drlg 8 3/4 Hole

DRILLER: D. Tindall

DAY TOUR

Drilling Assembly at End of Tour

NO.	BIT	FT.
1	NB 2 7/8 x 6 3/4	5.33
1	DM 3 x 6 3/4	14.80
1	BS 2 7/8 x 6 3/4	4.10
1	SS 2 x 6 3/4	8.59
1	JH 2 7/8 x 6 3/4	7.53
1	CO 2 7/8 x 6 3/4	2.48
19	DC 2 7/8 x 6 3/4	587.19
91	DP STANDS	
S	DP SINGLES	8495.79
	KELLY DOWN	26.00
	TOTAL	9153.61
	WT. OF DC IN AIR	59M LBS.
	WT. OF STRING	171M. LBS.

Bit Record

BIT NO.	17
SIZE	8 3/4
MFG.	SEC
TYPE	H-10
JETS 1/32"	12 12 11
SERIAL NO.	248409
DEPTH OUT	
DEPTH IN	9026
TOTAL FTG.	127
TOTAL HRS. RUN	13 1/2
BIT CONDITION 1/8" T/B/GAGE	Dr.
REAMER CUTTER NO.	
REAMER TYPE	

Mud Record

TIME	8:00	12:00	3:00
WEIGHT	9.1+	9.1+	9+
VIS.-SEC.	39	38	40
PV/YP	13/9		
GELS	3/5		
W.L.-CC	9.8	9.8	
PH	9.5	9.5	9.5
Salinity	29,700		
% SAND			

MUD MATERIALS ADDED

TYPE	AMOUNT
GEL	9 BAGS
BEN-EX	1 BAG
CMC	1 BAG
CAUSTIC	1 BAG
CORR INB.	1 CAN

Footage

FROM	TO	ROT HOURS	DR-D RM-R CORE-C	CORE NO	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	WT ON BIT (1000#)	PUMP (AIR) PRESS	AIR VOL (CFM)	PUMP NO 1 LINER SIZE	PUMP NO 1 SPM	PUMP NO 2 LINER SIZE	PUMP NO 2 SPM	METHOD PUMPS RUN
9077	9153	7 1/2	76			40	45	2000		6"	120			
								575		6"	60			

DEVIATION RECORD: DEPTH / DEVIATION° / DIRECTION — (none)

Time Log

FROM	TO	ELAPSED TIME	CODE	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
8.00	10.30	2 1/2		Drlg.
10.30	10.45	1/4		Rig Serv & Hydril + Pipe Rams.
10.45	4.00	5 1/4		Drlg.
		8		
				HELD BLOW OUT DRILL AT ENGINEERS REQUEST.

DRILLER: J. Evosevic

EVENING TOUR

Drilling Assembly at End of Tour

NO.	BIT	FT.
1	NB 2 7/8 x 6 3/4	5.33
1	DM 3 x 6 7/8	14.80
1	BS 2 7/8 x 6 3/4	4.10
1	SS 2 x 6 3/4	8.59
1	CO 2 7/8 x 6 3/4	2.48
	x	
19	DC 2 7/8 x 6 3/4	587.19
70	DP STANDS	8495.79
1	DP SINGLES	
	KELLY DOWN	40.00
	TOTAL	9158.28
	WT. OF DC IN AIR	59M LBS.
	WT. OF STRING	174M LBS.

Bit Record

BIT NO.	17	18
SIZE	8 3/4	8 3/4
MFG.	SEC	SEC.
TYPE	H100	H100
JETS 1/32"	12 12 11	12 12 11
SERIAL NO.	248409	284469
DEPTH OUT	9153	
DEPTH IN	9026	9153
TOTAL FTG.	127	5
TOTAL HRS. RUN	13 1/2	1
BIT CONDITION 1/8" T/B/GAGE	2 2 0	
REAMER CUTTER NO.		
REAMER TYPE		

Mud Record

TIME	T	T	T
WEIGHT	R	R	R
VIS.-SEC.			
PV/YP	D	D	D
GELS			
W.L.-CC			
PH			
% SOLIDS			
% SAND			

MUD MATERIALS ADDED: (none)

Footage

FROM	TO	ROT HOURS	DR-D RM-R CORE-C	CORE NO	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	WT ON BIT (1000#)	PUMP (AIR) PRESS	AIR VOL (CFM)	PUMP NO 1 LINER SIZE	PUMP NO 1 SPM	PUMP NO 2 LINER SIZE	PUMP NO 2 SPM	METHOD PUMPS RUN
9153	9158	1	5					1700		6	120	6		
						40	40	650		6	60			
HELD BLOW OUT DRILL								2000		6	120			

DEVIATION RECORD: DEPTH / DEVIATION° / DIRECTION — (none)

Time Log

FROM	TO	ELAPSED TIME	CODE	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
4.00	4.30	1/2		CHECK FOR MUD LEAK
4.30	7.30	3		TRIP FOR WASHOUT (WASHED JET)
7.30	8.00	1/2		BLIND RAMS CHANGE BITS.
8.00	8.45	3/4		RUN IN DC'S - LAY DOWN JARS.
8.45	9.00	1/4		SLIP DRLG LINE
9.00	11.00	2		RUN IN
11.00	12.00	1		DRILL

DRILLER: J. Hovrich

CP-38 (10/69)

DAILY DRILLING REPORT

WELL NAME: SHELL ARCTIC RED WEST

LOCATION: G-55

PROVINCE: N.W.T.

OPERATOR: Shell Canada Limited

CONTRACTOR: Gustavson Drlg (1964) Ltd

RIG NO.: 11

SIGNATURE OF OPERATOR'S REPRESENTATIVE: [signature]

SIGNATURE OF CONTRACTOR'S TOOL PUSHER: M. Sowett

DEPTH AT START OF MORNING TOUR	DEPTH AT END OF EVENING TOUR	DAILY PROGRESS	CUMULATIVE ROTATING HOURS	DAYS FROM SPUD	MONTH	DAY	YEAR
8900	9026	126		33	May	3	71

DP.	DC.	SIZE	MIN I.D.	TOOL JT O.D.	TYPE THREAD	PUMP NO.	PUMP MANUFACTURER	TYPE	STROKE LENGTH
4	14#	E	2 7/8	5 1/4	FH	1	Nat	8-P-80	8 1/2
6 3/4	101		2 7/8		5H90	2	Nat	8-P-80	8 1/2

LAST CASING TUBING OR LINER	SIZE	WT. AND GR.	NO. OF JOINTS	FEET	KB. TO CSG. HEAD	SET AT	CEMENT USED (SACKS)	REMARKS
	9 5/8	35#				1201		

TIME DISTRIBUTION — HOURS

CODE NO.	OPERATION	MORN	DAY	EVE	TOTAL
1	RIG UP TEAR DOWN				
2	DRILLING ACTUAL	4 1/2	7 3/4	3 1/4	15 1/2
3	REAMING				
4	CORING				
5	CLEAN TO BOTTOM AND CIRCULATING	2 3/4			
6	TRIPS	3/4		4	4 3/4
7	RIG SERVICE		1/4		3/4
8	RIG REPAIR				1/4
9	CUT AND/OR SLIP LINE				
10	DEVIATION SURVEY			1/2	1/2
11	WIRE LINE LOG				
12	RUN CASING AND CEMENT				
13	WAIT ON CEMENT				
14	NIPPLE UP B.O.P.				
15	TEST B.O.P.			1/4	1/4
16	DRILL STEM TEST				
17	PLUG BACK				
18	SQUEEZE CEMENT				
19	STUCK OR FISHING				
20	HANDLE TOOLS				
21	CONDITION MUD				
22	LOST CIRCULATION				
23					
24					
40	COMPLETION — PERFORATE				
41	TUBING TRIPS				
42	TREATING				
43	SWABBING				
44	TESTING				
45					
60	ABANDON				
70	STANDBY				
	TOTALS	8	8	8	
	HOURS FOR SHELL ACCOUNT				
	CONTRACTOR EQUIP RENTAL — Boiler #1	8	8	8	24
	Boiler #2	8	8		

HOLE CONDITION

1	HOLE DRAG (1000#)	15M
2	TORQUE ON BOTTOM (DP TURNS)	
3	FILL ON BOTTOM (FEET)	

MORNING TOUR

DRILLING ASSEMBLY AT END OF TOUR

NO	CODE	BIT	FT
1	RS	2 7/8 x 6 3/4	5.35
1	DM	3 x 6 3/4	14.80
1	SS	2 x 6 3/4	8.59
1	SI	2 7/8 x 6 3/4	4.10
1	JM	2 1/2 x 6 3/4	7.33
1	CO	2 1/2 x 6 3/4	2.48
19	DC	2 7/8 x 6 3/4	587.19
89	DP STANDS		8278.89
	DP SINGLES		
	KELLY DOWN		33.00
	TOTAL		8940.71
	WT. OF DC IN AIR		59,287 LBS.
	WT. OF STRING		168m LBS.

BIT RECORD

BIT NO.	16
SIZE	8 3/4
MFG.	SEC
TYPE	H88
JETS 1/32"	12 12 11
SERIAL NO	303333
DEPTH OUT	
DEPTH IN	8900
TOTAL FTG.	40
TOTAL HRS. RUN	4 1/2
BIT CONDITION 1/8" T/B/GAGE	Drlg
REAMER CUTTER NO.	
REAMER TYPE	

MUD RECORD

TIME	1:00	5:00
WEIGHT	8.5	8.9
VIS.-SEC.	50	45
PV/YP	18/22	/
GELS	15/24	/
W.L.C.C.		
PH	8.0	9.5
Salinity	/	
% SAND	/	

MUD MATERIALS ADDED

TYPE	AMOUNT
CMC	33 SAX
CAUSTIC	3 SAX

FOOTAGE

FROM	TO	ROT HOURS	DR-D RM-R CORE-C	CORE NO	FORMATION	ROTARY R.P.M.	WT ON BIT (1000#)	PUMP PRESS	AIR VOL	PUMP NO. 1 LINER SIZE	S.P.M.	PUMP NO. 2 LINER SIZE	S.P.M.	METHOD PUMPS RUN
8900	8940	4 1/2	40			40	50	2000		6	120			

DEVIATION RECORD: —

TIME LOG

FROM	TO	ELAPSED TIME	CODE	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
12:00	12:45	3/4		Run in Drill pipe to 8700
12:45	3:30	2 3/4		Ream from 8700 – 8900.
3:30	8:00	4 1/2		Drlg 8 3/4 Hole

H. Farrell 4 hrs Overtime working on Water Line from Lake to Rig

DRILLER: D. Tisdall

DAY TOUR

DRILLING ASSEMBLY AT END OF TOUR

NO	CODE	BIT	FT
1	RS	2 7/8 x 6 3/4	5.35
1	DM	3 x 6 3/4	14.80
1	SS	2 x 6 3/4	8.59
1	SI	2 7/8 x 6 3/4	4.10
1	JM	2 7/8 x 6 3/4	7.53
1	CO	2 7/8 x 6 3/4	2.48
19	DC	2 7/8 x 6 3/4	587.19
89	DP STANDS		
2	DP SINGLES		8340.52
	KELLY DOWN		28.00
	TOTAL		9000.66
	WT. OF DC IN AIR		59M LBS.
	WT. OF STRING		170M LBS.

BIT RECORD

BIT NO.	16
SIZE	8 3/4
MFG.	SEC
TYPE	H88
JETS 1/32"	12 12 11
SERIAL NO.	303333
DEPTH OUT	
DEPTH IN	8900
TOTAL FTG.	100
TOTAL HRS. RUN	12 1/4
BIT CONDITION 1/8" T/B/GAGE	IN
REAMER CUTTER NO.	
REAMER TYPE	

MUD RECORD

TIME	8:00	12:00	3:00
WEIGHT	9.0	9.2	9.1+
VIS.-SEC.	41	40	45
PV/YP	16/15	/	/
GELS	5/11	/	/
W.L.C.C.	10.2		
PH	9	9.5	9.5
Salinity	23000		
% SAND			

MUD MATERIALS ADDED

TYPE	AMOUNT
WT. MAT.	60 BAGS
CAUSTIC	1 SACK
CMC	1 SACK
CORR. INHB.	1 CAN
DE-FOAMER	1 CAN

FOOTAGE

FROM	TO	ROT HOURS	DR-D RM-R CORE-C	CORE NO	FORMATION	ROTARY R.P.M.	WT ON BIT (1000#)	PUMP PRESS	AIR VOL	PUMP NO. 1 LINER SIZE	S.P.M.	PUMP NO. 2 LINER SIZE	S.P.M.	METHOD PUMPS RUN
8940	9000	7 3/4	60			40	50	2000		6		6	120	COMP.

DEVIATION RECORD: —

TIME LOG

FROM	TO	ELAPSED TIME	CODE	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
~~8940~~				
8.00	9.00	1		DRLG.
9.00	9.15	1/4		RIG SERV. & B.O.P.S
9.15	4.00	6 3/4		DRLG.
		8		

DRILLER: A. Cvozirk

EVENING TOUR

DRILLING ASSEMBLY AT END OF TOUR

NO	CODE	BIT	FT
1	RS	3 2 7/8 x 6 3/4	5.33
1	DM	3 x 6 13/16	14.80
1	SS	2 x 6 3/4	8.59
1	SI	2 7/8 x 6 3/4	4.10
1	JM	2 7/8 x 6 3/4	7.33
1	CO	2 7/8 x 6 3/4	2.48
19	DC	2 7/8 x 6 3/4	587.19
90	DP STANDS		8371.69
	DP SINGLES		
	KELLY DOWN		24.00
	TOTAL		9026.51
	WT. OF DC IN AIR		59m LBS.
	WT. OF STRING		170M LBS.

BIT RECORD

BIT NO.	16	17
SIZE	8 3/4	8 3/4
MFG.	SEC	SEC.
TYPE	H.88	4.1
JETS 1/32"	12 12 11	13 12 11
SERIAL NO.	303333	284406
DEPTH OUT	9026	
DEPTH IN	8900	9026
TOTAL FTG.	126	
TOTAL HRS. RUN	15 1/2	
BIT CONDITION 1/8" T/B/GAGE	8 8 1/2	
REAMER CUTTER NO.		
REAMER TYPE		

MUD RECORD

TIME	4:00
WEIGHT	9.1
VIS.-SEC	45
PV/YP	
GELS	
W.L.C.C.	
PH	9.5
% SOLIDS	
% SAND	

(TRIP written across mud record)

MUD MATERIALS ADDED

TYPE	AMOUNT
GEL	7 SKS

FOOTAGE

FROM	TO	ROT HOURS	DR-D RM-R CORE-C	CORE NO	FORMATION	ROTARY R.P.M.	WT ON BIT (1000#)	PUMP PRESS	AIR VOL	PUMP NO. 1 LINER SIZE	S.P.M.	PUMP NO. 2 LINER SIZE	S.P.M.	METHOD PUMPS RUN
9000	9026	3 1/4	26			40	50	2000		6	120	6		

DEVIATION RECORD

DEPTH	DEVIATION°	DIRECTION
9000	2 1/2°	S67E

TIME LOG

FROM	TO	ELAPSED TIME	CODE	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
4.00	5.15	1 1/4		DRILL
5.15	5.30	1/4		CHECK B.O.P. SER. RIG.
5.30	7.30	2		DRILL
7.30	11.00	3 1/2		SURVEY PULL OUT BLIND RAMS
11.00	12.00	1		RUN IN

HELD BLOWOUT DRILL

DRILLER: J. Kousil

CP-38 (10/69)

DAILY DRILLING REPORT

WELL NAME: Shell Arctic Red West

LOCATION: G-55 | PROVINCE: N.W.T.

OPERATOR: Shell Canada Limited | CONTRACTOR: Gustavson Drlg (1964) Ltd | RIG NO. 11

SIGNATURE OF OPERATOR'S REPRESENTATIVE: R. Wapnick | SIGNATURE OF CONTRACTOR'S TOOL PUSHER: M. Sowiets

DEPTH AT START OF MORNING TOUR	DEPTH AT END OF EVENING TOUR	DAILY PROGRESS	CUMULATIVE ROTATING HOURS	DAYS FROM SPUD	DATE MONTH	DAY	YEAR
8900				32	MAY	2	71

DP. / DC. SIZE	WT. / FT.	GRADE	MIN. I.D.	TOOL JT O.D.	TYPE THREAD	PUMP NO.	PUMP MANUFACTURER	TYPE	STROKE LENGTH
4	14#	E.	2 7/8	5 1/4	FH	1	N.S.C.O.	8-7-80	8 1/2
6 3/4	101		2 7/8		5H90	2	N.S.C.O	8-7-80	8 1/2

LAST CASING TUBING OR LINER

SIZE	WT. AND GR.	NO OF JOINTS	FEET	KB TO CSG. HEAD	SET AT	CEMENT USED (SACKS)	REMARKS

TIME DISTRIBUTION — HOURS

CODE NO.	OPERATION	MORN.	DAY	EVE.	TOTAL
1	RIG UP TEAR DOWN				
2	DRILLING ACTUAL				
3	REAMING				
4	CORING				
5	CLEAN TO BOTTOM AND CIRCULATING				
6	TRIPS		6	7 1/4	13 1/4
7	RIG SERVICE				
8	RIG REPAIR				
9	CUT AND/OR SLIP LINE			3/4	3/4
10	DEVIATION SURVEY				
11	[illegible] LOG				
12	RUN CASING AND CEMENT				
13	WAIT ON CEMENT				
14	NIPPLE UP B.O.P.				
15	TEST B.O.P.				
16	DRILL STEM TEST				
17	PLUG BACK				
18	SQUEEZE CEMENT				
19	STUCK OR FISHING	8	2		10
20	HANDLE TOOLS				
21	CONDITION MUD				
22	[illegible] CIRCULATION				
23					
24					
COMPLETION 40	PERFORATE				
COMPLETION 41	TUBING TRIPS				
COMPLETION 42	TREATING				
COMPLETION 43	SWABBING				
COMPLETION 44	TESTING				
COMPLETION 45					
60	ABANDON				
70	STANDBY				
	TOTALS	8	8	8	
	HOURS FOR SHELL ACCOUNT		232		24
EQUIP. RENTAL CONTRACTOR	BOILER #1	8	8	8	
	BOILER #2	8	8	8	

HOLE CONDITION

1	HOLE DRAG (1000#)	
2	TORQUE ON BOTTOM (DP TURNS)	
3	FILL ON BOTTOM (FEET)	

DRILLING ASSEMBLY AT END OF TOUR

NO.	CODE		ID	OD	FT.
1	BR	BIT			5.33 FT.
1	DM				14.80 FT.
1	BS				4.10 FT.
1	SS				8.56 FT.
		ID X OD			FT.
		ID X OD			FT.
21	DCS	ID X OD			648.54 FT.
88	DP	STANDS			8185.88 FT.
	DP	SINGLES			FT.
KELLY DOWN					31.00 FT.
TOTAL					8900. FT.
WT. OF DC IN AIR					64,000 LBS.
WT. OF STRING					172,000 LBS.

BIT RECORD

BIT NO.	16
SIZE	8 3/4
MFG.	SEC
TYPE	H88
JETS 1/32"	12 12 11
SERIAL NO.	303333
DEPTH OUT	
DEPTH IN	8900
TOTAL FTG.	
TOTAL HRS. RUN	
BIT CONDITION 1/8" T/B/GAGE	
REAMER CUTTER NO.	
REAMER TYPE	

MUD RECORD

TIME	12.00
WEIGHT	9.1
VIS.-SEC.	42
PV/YP	/ /
GELS	/ /
W.L.-C.C	8-1
PH	9.5
% SOLIDS	
% SAND	

MUD MATERIALS ADDED

TYPE	AMOUNT	TYPE	AMOUNT

MORNING TOUR

FOOTAGE

FROM	TO	ROT HOURS	DR-D RM-R CORE-C	CORE NO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M	WT ON BIT (1000#)	PUMP (AIR) PRESS	AIR VOL (CFM)	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN
8900														

DEVIATION RECORD

DEPTH	DEVIATION°	DIRECTION	DEPTH	DEVIATION°	DIRECTION	DEPTH	DEVIATION°	DIRECTION

TIME LOG

FROM	TO	ELAPSED TIME	CODE	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
12.00				BEAR Tool finding FREE POINT.
				Put TORQUE IN PIPE & Shoot off.
	8.00	6		WORK PIPE, & Shoot off
6.00	8.00	2		Pull out of Hole
		8		

DRILLER: D. Turnbull

DAY TOUR

FOOTAGE

FROM	TO	ROT HOURS	DR-D RM-R CORE-C	CORE NO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M	WT ON BIT (1000#)	PUMP (AIR) PRESS	AIR VOL (CFM)	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN
8900														

DEVIATION RECORD

DEPTH	DEVIATION°	DIRECTION	DEPTH	DEVIATION°	DIRECTION	DEPTH	DEVIATION°	DIRECTION

TIME LOG

FROM	TO	ELAPSED TIME	CODE	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
8.00	10.00	2		TRIP OUT.
10.00	10.30	1/2		PICK UP JARS & REAMER.
10.30	1.30	3		RUN IN SLOW
1.30	3.30	2		BREAK CIRC. SCREW INTO FISH. & WORK JARS.
3.30	4.00	1/2		TRIP OUT.
		8		

DRILLER: A. Iwanik

EVENING TOUR

FOOTAGE

FROM	TO	ROT HOURS	DR-D RM-R CORE-C	CORE NO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M	WT ON BIT (1000#)	PUMP (AIR) PRESS	AIR VOL (CFM)	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN
8900														

DEVIATION RECORD

DEPTH	DEVIATION°	DIRECTION	DEPTH	DEVIATION°	DIRECTION	DEPTH	DEVIATION°	DIRECTION

TIME LOG

FROM	TO	ELAPSED TIME	CODE	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
4.00	9.00	5		PULL OUT LAY DOWN 2 D.C. (RECOVER FISH)
9.00	9.30	1/2		RUN IN D.C.
9.30	10.15	3/4		CUT & SLIP DRLG. LINE
10.15	12.00	1 3/4		RUN IN

DRILLER: J. Hornish

CP-38 (10/69)

DAILY DRILLING REPORT

WELL NAME	LOCATION	PROVINCE
SHELL ARCTIC RED WEST	G-55	N.W.T.

OPERATOR	CONTRACTOR	RIG NO.	DEPTH AT START OF MORNING TOUR	DEPTH AT END OF EVENING TOUR	DAILY PROGRESS	CUMULATIVE ROTATING HOURS	DAYS FROM SPUD	DATE MONTH	DAY	YEAR
Shell Canada Limited	Gustavson Drlg (1964) LTD	11	8900	8900	—		31	May	1	71

SIGNATURE OF OPERATOR'S REPRESENTATIVE: R. Schaffrick
SIGNATURE OF CONTRACTOR'S TOOL PUSHER: W. Sawistz

DP / DC SIZE	WT./FT	GRADE	MIN I.D.	TOOL JT O.D.	TYPE THREAD	PUMP NO.	PUMP MANUFACTURER	TYPE	STROKE LENGTH
4	14#	E#	2 7/8	5 1/4	FH	1	Nat	8-P80	8 1/2
6 3/4	101		2 7/8		5 1/2 IFO	2	Nat	8-P80	8 1/2

LAST CASING TUBING OR LINER	SIZE	WT. AND GR.	NO. OF JOINTS	FEET	KB TO CSG. HEAD	SET AT	CEMENT USED (SACKS)	REMARKS
	9 5/8	36# K55	38	1204		1201	886	

TIME DISTRIBUTION — HOURS

CODE NO.	OPERATION	MORN.	DAY	EVE	TOTAL
1	RIG UP TEAR DOWN				
2	DRILLING ACTUAL				
3	REAMING				
4	CORING				
5	CLEAN TO BOTTOM AND CIRCULATING				
6	TRIPS	2 1/2			2 1/2
7	RIG SERVICE				
8	RIG REPAIR				
9	CUT AND/OR SLIP LINE	1/2			1/2
10	DEVIATION SURVEY				
11	WIRE LOG				
12	RUN CASING AND CEMENT				
13	WAIT ON CEMENT				
14	NIPPLE UP B.O.P.				
15	TEST B.O.P.				
16	DRILL STEM TEST				
17	PLUG BACK				
18	SQUEEZE CEMENT				
19	STUCK OR FISHING	5	8	8	21
20	HANDLE TOOLS				
21	CONDITION MUD				
22	LOST CIRCULATION				
23	~~Work stuck pipe~~	~~5~~	~~8~~	~~8~~	
24					
40	COMPLETION – PERFORATE				
41	TUBING TRIPS				
42	TREATING				
43	SWABBING				
44	TESTING				
45					
60	ABANDON				
70	STANDBY				
	TOTALS	8	8	8	
	HOURS FOR SHELL ACCOUNT	2	32	8	24
	CONTRACTOR EQUIP RENTAL – BOILER #1	8	8		
	Boiler #2	8	8		
			—		

HOLE CONDITION

1	HOLE DRAG (1000#)	
2	TORQUE ON BOTTOM (DP TURNS)	
3	FILL ON BOTTOM (FEET)	

MORNING TOUR

DRILLING ASSEMBLY AT END OF TOUR

NO	CODE	BIT (I.D. x O.D.)	FT
1	NB	2 3/4 x 8 1/2	5.33
1	SS	2 7/8 x 6 3/4	8.59
1	DM	3 x 6 1/2	14.80
1	SI	2 7/8 x 6 3/4	4.10
1	CO	2 7/8 x 6 3/4	2.10
21	DC	2 7/8 x 6 3/4	648.54
88	DP	STANDS	8185.85
	DP	SINGLES	
		KELLY DOWN	31.00
		TOTAL	8900.30
		WT. OF DC IN AIR	64 LBS.
		WT. OF STRING	172m LBS.

BIT RECORD	
BIT NO.	16
SIZE	8 3/4
MFG.	SEC
TYPE	H88
JETS 1/32"	12 12 12
SERIAL NO.	303333
DEPTH OUT	
DEPTH IN	8900
TOTAL FTG.	
TOTAL HRS. RUN	
BIT CONDITION 1/8" T/B/GAGE	
REAMER CUTTER NO.	
REAMER TYPE	

MUD RECORD		
TIME	400	600
WEIGHT	8.9	9.1
VIS-SEC.	42	39
PV/YP	/	12/12
GELS	/	3/8
W.L.-C.C.	9.2	9.2
PH	9.0	9.0
Salinity		25,030
% SAND		

MUD MATERIALS ADDED: CMC 2 Bags; CAUSTIC 2 Bags

FOOTAGE FROM	TO	ROT HOURS	DR-D RM-R CORE-C	CORE NO.	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT ON BIT (1000#)	PUMP (AIR) PRESS	AIR VOL (CFM)	PUMP NO. 1 LINER SIZE	S.P.M.	PUMP NO. 2 LINER SIZE	S.P.M.	METHOD PUMPS RUN
8900														

DEVIATION RECORD: DEPTH / DEVIATION° / DIRECTION — (none)

TIME LOG FROM	TO	ELAPSED TIME	CODE	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
12 00				Pick up shock sub & stab, change blades
	12 45	3/4		in stab. & slip 33' of drlg line
12 45	3 00	2 1/4		Run in w/ bit #16. Get stuck @ 8854.
3 00			19	work stuck pipe, & mix free
	8 00	5		pipe & diesel fuel.
		8		

DRILLER: D. Tindall

DAY TOUR

DRILLING ASSEMBLY AT END OF TOUR

NO	CODE	BIT (I.D. x O.D.)	FT
1	NB	2 3/4 x 8 1/2	5.33
1	SS	2 7/8 x 6 3/4	8.59
1	DM	3 x 6 1/2	14.80
1	SI	2 7/8 x 6 3/4	4.10
1	CO	2 7/8 x 6 3/4	2.10
21	DC	2 7/8 x 6 3/4	648.54
88	DP	STANDS	8185.85
	DP	SINGLES	
		KELLY DOWN	31.00
		TOTAL	8900.31
		WT. OF DC IN AIR	64M LBS.
		WT. OF STRING	172M LBS.

BIT RECORD	
BIT NO.	15
SIZE	8 3/4
MFG.	SEC
TYPE	H-88
JETS 1/32"	12 12 11
SERIAL NO.	303333
DEPTH OUT	
DEPTH IN	8900
TOTAL FTG.	
TOTAL HRS. RUN	
BIT CONDITION 1/8" T/B/GAGE	
REAMER CUTTER NO.	
REAMER TYPE	

MUD RECORD		
TIME	8:00	12:00
WEIGHT	9.0	9.1
VIS-SEC.	38	40
PV/YP	5/9	/
GELS	4/12	
W.L.-C.C.	9	
PH	9.5	9.5
SALINITY		22440
% SAND		

MUD MATERIALS ADDED: 1 BARREL B FREE; 25 BBLS DIESEL FUEL.

FOOTAGE FROM	TO	ROT HOURS	DR-D RM-R CORE-C	CORE NO.	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT ON BIT (1000#)	PUMP (AIR) PRESS	AIR VOL (CFM)	PUMP NO. 1 LINER SIZE	S.P.M.	PUMP NO. 2 LINER SIZE	S.P.M.	METHOD PUMPS RUN
8900	8900													

DEVIATION RECORD: DEPTH / DEVIATION° / DIRECTION — (none)

TIME LOG FROM	TO	ELAPSED TIME	CODE	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
8.00				MIX & PUMP DOWN DIESEL FUEL &
	4.00	8.	19	FREE PIPE. WORK ON STUCK PIPE.

DRILLER: A. Cwoziuk

EVENING TOUR

DRILLING ASSEMBLY AT END OF TOUR

NO	CODE	BIT (I.D. x O.D.)	FT
1	NB	2 3/4 x 6 3/4	5.33
1	SS	3 x 6 3/4	8.59
1	DM	3 x 6 1/2	14.80
1	SI	2 7/8 x 6 3/4	4.10
1	CO	2 7/8 x 6 3/4	2.10
21	DC	2 7/8 x 6 3/4	648.54
88	DP	STANDS	8185.85
	DP	SINGLES	
		KELLY DOWN	
		TOTAL	
		WT. OF DC IN AIR	
		WT. OF STRING	

BIT RECORD	
BIT NO.	16
SIZE	8 3/4
MFG.	SEC.
TYPE	H88
JETS 1/32"	12 12 11
SERIAL NO.	303333
DEPTH OUT	
DEPTH IN	8900
TOTAL FTG.	
TOTAL HRS. RUN	
BIT CONDITION 1/8" T/B/GAGE	
REAMER CUTTER NO.	
REAMER TYPE	

MUD RECORD	
TIME	4:00
WEIGHT	9.1
VIS.-SEC.	45
PV/YP	
GELS	
W.L.-C.C.	8.4
PH	9.5
% SOLIDS	
% SAND	

MUD MATERIALS ADDED: —

FOOTAGE FROM	TO	ROT HOURS	DR-D RM-R CORE-C	CORE NO.	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT ON BIT (1000#)	PUMP (AIR) PRESS	AIR VOL (CFM)	PUMP NO. 1 LINER SIZE	S.P.M.	PUMP NO. 2 LINER SIZE	S.P.M.	METHOD PUMPS RUN
8900														

DEVIATION RECORD: DEPTH / DEVIATION° / DIRECTION — (none)

TIME LOG FROM	TO	ELAPSED TIME	CODE	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
4.00	8.00		19	WORK STUCK PIPE DISPLACE 1 BBL
				MUD EVERY 1/2 HR.
8.00	12.00			RUN IN W/ BEAR TOOLS TO FIND FREE POINT

OVERTIME 8 HRS. WORK ON WATER LINE G. Mykyta. 1 MAN

DRILLER: J. Homish

CP-38-(10/79)

DAILY DRILLING REPORT

WELL NAME: SHELL ARCTIC REO RIVER WEST G-55

LOCATION: — PROVINCE: N.W.T

OPERATOR: Shell Canada Limited

SIGNATURE OF OPERATOR'S REPRESENTATIVE: Q. Mansfield

CONTRACTOR: GUSTAVSON DRLG (1964 LTD) RIG NO. 11

SIGNATURE OF CONTRACTOR'S TOOL PUSHER: M. Lowndes

DEPTH AT START OF MORNING TOUR	DEPTH AT END OF EVENING TOUR	DAILY PROGRESS	CUMULATIVE ROTATING HOURS	DAYS FROM SPUD	DATE MONTH	DAY	YEAR
8736	8900	164		30	APRIL	30	71

DP./DC. SIZE	WT./FT	GRADE	MIN. I.D.	TOOL JT O.D.	TYPE THREAD
4"	14#	E	2 7/8"	5 1/4"	F.H.
6 5/4"	101#		2 1/4"	6 3/4	5" H90

PUMP NO.	PUMP MANUFACTURER	TYPE	STROKE LENGTH
1	NATIONAL	8P80	8 1/2"
2	NATIONAL	8P80	8 1/2"

LAST CASING TUBING OR LINER

SIZE	WT. AND GR.	NO. OF JOINTS	FEET	KB TO CSG. HEAD	SET AT	CEMENT USED (SACKS)
9 5/8	36# K55	38	1204'	[redacted]'	1201'	886

REMARKS:

TIME DISTRIBUTION — HOURS

CODE NO.	OPERATION	MORN.	DAY	EVE.	TOTAL
1	RIG UP TEAR DOWN				
2	DRILLING ACTUAL	1/2	7 3/4	4	12 1/4
3	REAMING	1 1/2			1 1/2
4	CORING				
5	CLEAN TO BOTTOM AND CIRCULATING				
6	TRIPS	4 1/2		2 1/2	6 3/4
7	RIG SERVICE	1/4	1/4	1/4	3/4
8	RIG REPAIR				
9	CUT AND/OR SLIP LINE				
10	DEVIATION SURVEY				
11	WIRE LOG			1/4	1/4
12	RUN CASING AND CEMENT				
13	WAIT ON CEMENT				
14	NIPPLE UP B.O.P.				
15	TEST B.O.P.	V			
16	DRILL STEM TEST				
17	PLUG BACK				
18	SQUEEZE CEMENT				
19	STUCK OR FISHING				
20	HANDLE TOOLS	1 1/2		1	2 1/2
21	CONDITION MUD				
22	LOST CIRCULATION				
23					
24					
COMPLETION 40	PERFORATE				
COMPLETION 41	TUBING TRIPS				
COMPLETION 42	TREATING				
COMPLETION 43	SWABBING				
COMPLETION 44	TESTING				
COMPLETION 45					
60	ABANDON				
70	STANDBY				
	TOTALS	8	8	8	
	HOURS FOR SHELL ACCOUNT	23	24	24	
CONTRACTOR EQUIP. RENTAL	BOILER #1	8	8	8	

HOLE CONDITION

1	HOLE DRAG (1000#)
2	TORQUE ON BOTTOM (DP TURNS)
3	FILL ON BOTTOM (FEET)

MORNING TOUR

DRILLING ASSEMBLY AT END OF TOUR

NO	CODE		ID	OD	FT
		BIT			FT
1	BS		2 7/8	6 3/4	3.98 FT.
		[redacted]			FT.
1	DM	3		6 13/16	14.90 FT.
1	SI		2 7/8	6 3/4	4.10 FT.
1	CO		2 7/8	6 3/4	2.10 FT.
		X	ID	OD	FT.
21	D.C.		2 7/8	6 3/4	648.54 FT.
86	DP	STANDS			FT.
1	DP	SINGLES			8030.68 FT.
KELLY DOWN					43.00 FT.
TOTAL					8747.20
WT. OF DC IN AIR					64M LBS.
WT. OF STRING					172M LBS.

BIT RECORD

BIT NO.	15
SIZE	8 3/4
MFG.	SEC
TYPE	M88
JETS 1/32"	12 12 11
SERIAL NO	912067
DEPTH OUT	
DEPTH IN	8736
TOTAL FTG.	11
TOTAL HRS RUN	1/2
BIT CONDITION 1/8" T/B/GAGE	
REAMER CUTTER NO.	
REAMER TYPE	

Reamed 30' in 1 1/2 HRS

MUD RECORD

TIME			7:00
WEIGHT			9.1+
VIS-SEC.			38
PV/YP	/	/	/
GELS	/	/	/
W.L.-C.C.			8.2
PH			9.0
% SOLIDS — SALINITY			20295
% SAND			

MUD MATERIALS ADDED

TYPE	AMOUNT	TYPE	AMOUNT

FOOTAGE

FROM	TO	ROT HOURS	DR-D RM-R CORE-C	CORE NO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT ON BIT (1000#)	PUMP (AIR) PRESS	AIR VOL. (CFM)	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN
8706	8736	1 1/2	30'		Reamed CORE No. 1 8706	40	20	2000		6"	120	6"		
8736	8747	1/2	11		1 — 8736									
					1 Recd 28' Core-3 1/2"									

DEVIATION RECORD

DEPTH	DEVIATION°	DIRECTION	DEPTH	DEVIATION°	DIRECTION	DEPTH	DEVIATION°	DIRECTION

TIME LOG

FROM	TO	ELAPSED TIME	CODE	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
12:00	2:15	2 1/4		Hoist Core #1, 8 HRS overtime F. Johnson For Coring Supervision 4 HRS Overtime H. Haydon Laying Waterline
2:15	3:15	1		Recd Core Serv BRL & layed Down Same
3:15	3:30	1/4		Serv Rig & checked BOP
3:30	4:00	1/2		Picked up moved D.C. Bit Sub Installed Stab. @ 60'
4:00	6:00	2		Run in w/ Bit #15
6:00	7:30	1 1/2		Ream Rat Hole To 8 3/4"
7:30	8:00	1/2		Drlg

DRILLER: D. Johnson

DAY TOUR

DRILLING ASSEMBLY AT END OF TOUR

NO	CODE		ID	OD	FT
		BIT			FT
1	BS		2 7/8	6 3/4	3.98 FT.
1	DM	3		6 13/16	14.80 FT.
1	SI		2 7/8	6 3/4	4.10 FT.
1	CO		2 7/8	6 3/4	2.10 FT.
		X	ID	OD	FT.
		X	ID	OD	FT.
21	DC		2 7/8	6 3/4	648.54 FT.
87	DP	STANDS			FT.
2	DP	SINGLES			8154.71 FT.
KELLY DOWN					28.00 FT.
TOTAL					8856.23
WT. OF DC IN AIR					64 LBS.
WT. OF STRING					172M LBS.

BIT RECORD

BIT NO.	15
SIZE	8 3/4
MFG.	SEC
TYPE	M88
JETS 1/32"	12 12 11
SERIAL NO	912067
DEPTH OUT	
DEPTH IN	8736
TOTAL FTG.	120
TOTAL HRS. RUN	8 1/4
BIT CONDITION 1/8" T/B/GAGE	Drlg
REAMER CUTTER NO.	30' in 1 1/2 Hrs.
REAMER TYPE	

MUD RECORD

TIME	8:00	12:00	2:30
WEIGHT	9.2	9.2	9.1
VIS-SEC	37	35	37
PV/YP	11/11	14/6	9/16
GELS	2/6	6/9	6/
W.L.-C.C.	8.6	8.2	8.4
PH	8.5	9.0	9.0
% SAND — SALINITY	21,450	25,245	21,450

MUD MATERIALS ADDED

TYPE	AMOUNT	TYPE	AMOUNT
GEL	10 Bags	CORR.	
CMC	2 Bags		
CAUSTIC	4 Bags		
SODA ASH	1 Bag		

FOOTAGE

FROM	TO	ROT HOURS	DR-D PM-R CORE-C	CORE NO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT ON BIT (1000#)	PUMP (AIR) PRESS	AIR VOL. (CFM)	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN
8736	8856	7 3/4	109			40	50	2000		6	120			

DEVIATION RECORD

DEPTH	DEVIATION°	DIRECTION	DEPTH	DEVIATION°	DIRECTION	DEPTH	DEVIATION°	DIRECTION

TIME LOG

FROM	TO	ELAPSED TIME	CODE	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
8:00	8:15	1/4		Rig Serv V BOPs.
8:15	4:00	7 3/4		Drlg 8 3/4 Hole.

DRILLER: D. Lindall

EVENING TOUR

DRILLING ASSEMBLY AT END OF TOUR

NO	CODE		ID	OD	FT
		BIT			FT
1	BS		2 7/8	6 3/4	3.98 FT.
1	DM	3		6 13/16	14.80 FT.
1	SI.		2 7/8	6 3/4	4.10 FT.
1	CO.		2 7/8	6 3/4	2.10 FT.
		X	ID	OD	FT.
		X	ID	OD	FT.
21	DCS		2 7/8	6 3/4	648.54 FT.
88	DP	STANDS			FT.
	DP	SINGLES			8185.85 FT.
KELLY DOWN					40.00 FT.
TOTAL					8900.37 FT.
WT. OF DC IN AIR					64M LBS.
WT. OF STRING					173M LBS.

BIT RECORD

BIT NO.	15
SIZE	8 3/4
MFG.	SEC
TYPE	M88
JETS 1/32"	12 12 11
SERIAL NO.	912067
DEPTH OUT	8900
DEPTH IN	8736
TOTAL FTG.	164
TOTAL HRS. RUN	12 1/4
BIT CONDITION 1/8" T/B/GAGE	8 8 1
REAMER CUTTER NO.	
REAMER TYPE	

MUD RECORD

TIME	4:00	8:00	
WEIGHT	9.2	9.2	
VIS-SEC.	38	38	
PV/YP	13/13	/	/
GELS	5/12	/	/
W.L.-C.C.	8.8	8.6	
PH	9.5	9.5	
% SAND — SALINITY	19,500		

MUD MATERIALS ADDED

TYPE	AMOUNT	TYPE	AMOUNT
GEL	10 BAGS		
CAUSTIC	1 BAG		
CMC	1 BAG		
BENEX	2 BAGS		

FOOTAGE

FROM	TO	ROT HOURS	DR-D RM-R CORE-C	CORE NO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT ON BIT (1000#)	PUMP (AIR) PRESS.	AIR VOL. (CFM.)	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN
8856	8900	4	44			40	50	2000		6	120			

DEVIATION RECORD

DEPTH	DEVIATION°	DIRECTION	DEPTH	DEVIATION°	DIRECTION	DEPTH	DEVIATION°	DIRECTION

TIME LOG

FROM	TO	ELAPSED TIME	CODE	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
4:00	4:15	1/4		RIG SERV V BOPS
4:15	8:15	4		DRLG
8:15	8:30	1/4		DROP SURVEY.
8:30	11:00	2 1/2		TRIP OUT.
11:00	12:00	1		TEAR SUBS DOWN & MAKE UP SAME.

DRILLER: A. Edwards

CP-38 (10/69)

DAILY DRILLING REPORT

WELL NAME: Shell Arctic Red River West

LOCATION: G-55 | PROVINCE: N.W.T

OPERATOR: Shell Canada Limited | CONTRACTOR: Gus Johnson Drlg (1964 Ltd) | RIG NO. 11

SIGNATURE OF OPERATOR'S REPRESENTATIVE: R. Murphy | SIGNATURE OF CONTRACTOR'S TOOL PUSHER: Jack McLeod

DEPTH AT START OF MORNING TOUR	DEPTH AT END OF EVENING TOUR	DAILY PROGRESS	CUMULATIVE ROTATING HOURS	DAYS FROM SPUD	DATE MONTH	DAY	YEAR
8535	8736'	201'		29	April	29	71

DP./DC. SIZE	WT./FT.	GRADE	MIN I.D.	TOOL JT O.D.	TYPE THREAD	PUMP NO.	PUMP MANUFACTURER	TYPE	STROKE LENGTH
4"	14#	E	2 7/8"	5 1/2"	F.H.	1	National	8P80	8 1/2"
6 3/4"	101#		2 7/8"	6 3/4"	5"H90	2	National	8P80	8 1/2"

LAST CASING TUBING OR LINER

SIZE	WT. AND GR.	NO. OF JOINTS	FEET	KB. TO CSG. HEAD	SET AT	CEMENT USED (SACKS)	REMARKS
9 5/8"	36# K55	38	1204'		1201'	886	

TIME DISTRIBUTION — HOURS

CODE NO.	OPERATION	MORN.	DAY	EVE.	TOTAL
1	RIG UP TEAR DOWN				
2	DRILLING ACTUAL	7 3/4	2 1/4	3 3/4	10
3	REAMING				
4	CORING			3 1/4	3 1/4
5	CLEAN TO BOTTOM AND CIRCULATING		2 1/4	1/2	2 3/4
6	TRIPS		2 1/2	2 1/2	5
7	RIG SERVICE	1/4	1/4		1/2
8	RIG REPAIR				
9	CUT AND/OR SLIP LINE			3/4	3/4
10	DEVIATION SURVEY		3/4		3/4
11	[redacted] LOG				
12	RUN CASING AND CEMENT				
13	WAIT ON CEMENT				
14	NIPPLE UP B.O.P.				
15	TEST B.O.P.	✓			
16	DRILL STEM TEST				
17	PLUG BACK				
18	SQUEEZE CEMENT				
19	STUCK OR FISHING				
20	HANDLE TOOLS			1	1
21	CONDITION MUD				
22	[redacted] CULATION				
23					
24					
COMPLETION 40	PERFORATE				
COMPLETION 41	TUBING TRIPS				
COMPLETION 42	TREATING				
COMPLETION 43	SWABBING				
COMPLETION 44	TESTING				
COMPLETION 45					
60	ABANDON				
70	STANDBY				
	TOTALS	8	8	8	
	HOURS FOR SHELL ACCOUNT	23 1/2			24
CONTRACTOR EQUIP. RENTAL	BOILER #1				
	Boiler #2	8	8	8	

HOLE CONDITION

1	HOLE DRAG (1000#)	
2	TORQUE ON BOTTOM (DP TURNS)	
3	FILL ON BOTTOM (FEET)	

DRILLING ASSEMBLY AT END OF TOUR

NO	CODE		ID	OD	FT
		BIT			FT
1	BS		2 7/8	6 3/4	3.98 FT.
1	SS		2"	6 3/4	8.59 FT.
1	DM		3	6 3/4	14.80 FT.
1	SI		2 7/8	6 3/4	4.10 FT.
1	CJ		2 7/8	6 3/4	2.10 FT.
		X			FT.
21	DC		2 7/8	6 3/4	648.54 FT.
85	DP	STANDS			FT.
1	DP	SINGLES			7937.93 FT.
		KELLY DOWN			26.00 FT.
		TOTAL			8646.04 FT.
		WT. OF DC IN AIR			64M LBS.
		WT. OF STRING			170M LBS.

BIT RECORD

BIT NO.	14
SIZE	8 3/4
MFG.	Sec
TYPE	M88
JETS 1/32"	11 11 12
SERIAL NO.	340642
DEPTH OUT	8202
DEPTH IN	7698
TOTAL FTG.	444'
TOTAL HRS. RUN	34 1/2
BIT CONDITION 1/8" T/B/GAGE	D/lg
REAMER CUTTER NO.	
REAMER TYPE	

MUD RECORD

TIME	12:00	4:00	7:00
WEIGHT	9.1+	9.1+	9.2
VIS.-SEC	39	31	36
PV/YP	13/12	/	/
GELS	8/12	/	/
W.L.-C.C.	9.2	9.2	8.4
PH	9.5	9.5	9.5
% SOLIDS SALINITY	19200		
% SAND			

MUD MATERIALS ADDED

TYPE	AMOUNT	TYPE	AMOUNT

FOOTAGE

FROM	TO	ROT HOURS	DR-D RM-R CORE-C	CORE NO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT ON BIT (1000#)	PUMP (AIR) PRESS	AIR VOL (CFM)	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN
8535'	8646'	7 3/4	111'		1 Pail of Gun Grease	40	50	2250		6"	120	6"		
					1 Barrel Vitrea #41									

DEVIATION RECORD

DEPTH	DEVIATION°	DIRECTION	DEPTH	DEVIATION°	DIRECTION	DEPTH	DEVIATION°	DIRECTION

MORNING TOUR

TIME LOG FROM	TO	ELAPSED TIME	CODE	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
12:00	12:15	1/4		Serv Rig & Checked B.O.P
12:15	8:00	7 3/4		Drlg

DRILLER: G. Johnson

DRILLING ASSEMBLY AT END OF TOUR

NO	CODE		ID	OD	FT
		BIT			FT
1	BS		2 7/8	6 3/4	3.98 FT.
1	SS		2"	6 3/4	8.59 FT.
1	DM		3	6 3/4	14.80 FT.
1	SI		2 7/8	6 3/4	4.10 FT.
1	CJ		2 7/8	6 3/4	2.10 FT.
		X			FT.
21	DC		2 7/8	6 3/4	648.54 FT.
86	DP	STANDS			8000.18 FT.
	DP	SINGLES			FT.
		KELLY DOWN			24.00 FT.
		TOTAL			8706.26 FT.
		WT. OF DC IN AIR			64M LBS.
		WT. OF STRING			170 LBS.

BIT RECORD

BIT NO.	14
SIZE	8 3/4
MFG.	Sec
TYPE	M88
JETS 1/32"	11 11 12
SERIAL NO.	340642
DEPTH OUT	8706
DEPTH IN	8202
TOTAL FTG.	504
TOTAL HRS. RUN	36 1/4
BIT CONDITION 1/8" T/B/GAGE	6 4 0
REAMER CUTTER NO.	
REAMER TYPE	

MUD RECORD

TIME	8:00	11:30	
WEIGHT	9.2	9.2	
VIS.-SEC	38	31	
PV/YP	12/12	/	/
GELS	3/7	/	/
W.L.-C.C.	8.6	9	
PH	9.0	9.5	
Salinity	22275		
% SAND	22275		

MUD MATERIALS ADDED

TYPE	AMOUNT	TYPE	AMOUNT
Caustic	2 sks		
CMC	2 sks		

FOOTAGE

FROM	TO	ROT HOURS	DR-D RM-R CORE-C	CORE NO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT ON BIT (1000#)	PUMP (AIR) PRESS	AIR VOL (CFM)	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN
8646	8706	2 1/4	60			40	50	2250		6	120			

DEVIATION RECORD

DEPTH	DEVIATION°	DIRECTION	DEPTH	DEVIATION°	DIRECTION	DEPTH	DEVIATION°	DIRECTION
8706	3 1/4°	S41E						

DAY TOUR

TIME LOG FROM	TO	ELAPSED TIME	CODE	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
8:00	8:15	1/4		Rig Ser, ✓ BOPs.
8:15	10:30	2 1/4		Drlg 8 3/4 Hole.
10:30	12:45	2 1/4		Cir Sample @ 8706.
12:45	1:30	3/4		Survey.
1:30	4:00	2 1/2		Pull Out To Core (SLM)

D. Sieben +4 hrs. Overtime Work on Waterline to Lake. DRILLER: D. Lindell

DRILLING ASSEMBLY AT END OF TOUR

NO	CODE		ID	OD	FT
		BIT			FT
1	CB		3	5 3/4	35.17 FT.
1	DPS		2 7/8	5 3/4	1.13 FT.
1	BS		2 7/8	6 3/4	3.96 FT.
1	JH		2 7/8	6 3/4	7.33 FT.
1	CJ		2 7/8	6 3/4	2.10 FT.
		X			FT.
21	DC		2 7/8	6 3/4	648.54 FT.
86	DP	STANDS			8000.18 FT.
	DP	SINGLES			FT.
		KELLY DOWN			38.00 FT.
		TOTAL			8736.41 FT.
		WT. OF DC IN AIR			64M LBS.
		WT. OF STRING			172M LBS.

BIT RECORD

BIT NO.	6 3/32
SIZE	CHRIS
MFG.	◇
TYPE	
JETS 1/32"	
SERIAL NO.	EC4016
DEPTH OUT	8736
DEPTH IN	8706
TOTAL FTG.	30
TOTAL HRS. RUN	3 1/4
BIT CONDITION 1/8" T/B/GAGE	
REAMER CUTTER NO.	
REAMER TYPE	

MUD RECORD

TIME	9:00		11:00
WEIGHT	9.2		9.2
VIS.-SEC	40		38
PV/YP	17/15	/	/
GELS	7/15	/	/
W.L.-C.C.	8.0		8.0
PH	9.5		9.5
Salinity	18,150		
% SAND			

MUD MATERIALS ADDED

TYPE	AMOUNT	TYPE	AMOUNT

FOOTAGE

FROM	TO	ROT HOURS	DR-D RM-R CORE-C	CORE NO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT ON BIT (1000#)	PUMP (AIR) PRESS	AIR VOL (CFM)	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN
8706	8736	3 1/4	30	1		68	14	1250		6				

DEVIATION RECORD

DEPTH	DEVIATION°	DIRECTION	DEPTH	DEVIATION°	DIRECTION	DEPTH	DEVIATION°	DIRECTION

EVENING TOUR

TIME LOG FROM	TO	ELAPSED TIME	CODE	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
4:00	4:30	1/2		FINISH TRIP OUT.
4:30	5:15	3/4		SLIP + CUT LINE.
5:15	6:15	1		PICK UP CORE BARREL + JARS. SERVICE SAME.
6:15	8:15	2		TRIP IN. S.L.M. 8707.78
8:15	8:45	1/2		CLEAN TO BOTTOM + CIRC. PIPE TALLY 8706.26
8:45	12:00	3 1/4		CUT CORE #1 DIFF 1.52. NO CHANGE.
				4 HRS. OVERTIME - WORK ON WATERLINE. 2 SCOTT.

DRILLER: A. Ewanuk

CP-38 (10/69)

DAILY DRILLING REPORT

WELL NAME	Shell Arctic Red River West
LOCATION	G-55
PROVINCE	N.W.T.

OPERATOR	CONTRACTOR	RIG NO.	DEPTH AT START OF MORNING TOUR	DEPTH AT END OF EVENING TOUR	DAILY PROGRESS	CUMULATIVE ROTATING HOURS	DAYS FROM SPUD	DATE MONTH	DAY	YEAR
Shell Canada Limited	Gustavson Drlg 1964 Ltd	11	8228'	8535'	307'		28	April	28	71

SIGNATURE OF OPERATOR'S REPRESENTATIVE: R. [signature]
SIGNATURE OF CONTRACTOR'S TOOL PUSHER: Jack M [signature]

DP./DC. SIZE	WT./FT	GRADE	MIN. I.D	TOOL JT O.D.	TYPE THREAD	PUMP NO.	PUMP MANUFACTURER	TYPE	STROKE LENGTH
4"	14#	E	2 7/8"	5 1/2"	F.H.	1	Nat	8P80	8 1/2"
6 3/4"	101#		2 7/8"	6 3/4"	5" H90	2	"	8P80	8 1/2"

LAST CASING TUBING OR LINER	SIZE	WT. AND GR.	NO. OF JOINTS	FEET	KB TO CSG. HEAD	SET AT	CEMENT USED (SACKS)	REMARKS
	9 5/8"	36# K55	38	1204'		1201'	886	

TIME DISTRIBUTION — HOURS

CODE NO.	OPERATION	MORN.	DAY	EVE	TOTAL
1	RIG UP TEAR DOWN				
2	DRILLING ACTUAL	7 3/4	[illegible]	7 3/4	22 1/2
3	REAMING				
4	CORING				
5	CLEAN TO BOTTOM AND CIRCULATING				
6	TRIPS				
7	RIG SERVICE	1/4	1/4	1/4	3/4
8	RIG REPAIR	1/4			
9	CUT AND/OR SLIP LINE				
10	DEVIATION SURVEY		3/4		3/4
11	WIRE LINE LOG				
12	RUN CASING AND CEMENT				
13	WAIT ON CEMENT				
14	NIPPLE UP B.O.P.				
15	TEST B.O.P.				
16	DRILL STEM TEST				
17	PLUG BACK				
18	SQUEEZE CEMENT				
19	STUCK OR FISHING				
20	HANDLE TOOLS				
21	CONDITION MUD				
22	LOST CIRCULATION				
23					
24					
40	PERFORATE				
41	TUBING TRIPS				
42	TREATING				
43	SWABBING				
44	TESTING				
45					
60	ABANDON				
70	STANDBY				
	TOTALS	8	8	8	24
	HOURS FOR SHELL ACCOUNT	2	32	6	24
	BOILER #1	8	8	8	24
	Boiler #2	8			

HOLE CONDITION

1	HOLE DRAG (1000#)	
2	TORQUE ON BOTTOM (DP TURNS)	
3	FILL ON BOTTOM (FEET)	

MORNING TOUR

Drilling Assembly at End of Tour

NO	CODE / BIT	FT
1	BS 2 7/8 x 6 3/4	3.98
1	SS 2" x 6 3/4	8.59
1	DM 3 x 6 3/4	14.80
1	SI 2 7/8 x 6 3/4	4.10
1	C/O 2 7/8 x 6 3/4	2.10
21	DC 2 7/8 x 6 3/4	648.54
81	DP STANDS	
2	DP SINGLES	7597.88
	KELLY DOWN	36.00
	TOTAL	8315.99
	WT. OF DC IN AIR	64M LBS.
	WT. OF STRING	165M LBS.

Bit Record

BIT NO.	14
SIZE	8 3/4
MFG.	Sec
TYPE	M88
JETS 1/32"	11 11 12
SERIAL NO	340642
DEPTH OUT	
DEPTH IN	8202
TOTAL FTG.	113'
TOTAL HRS. RUN	11 1/2
BIT CONDITION 1/8" T/B/GAGE	IN
REAMER CUTTER NO.	
REAMER TYPE	

Mud Record

TIME	12:00	4:00	1:00
WEIGHT	9.1	9.1	9.1
VIS.-SEC.	37	38	37
PV/YP	15/10	/	/
GELS	9/15	/	/
W.L.-C.C.	10	8	8.2
PH	8.	9.5	9.5
% SOLIDS			
Salinity (% SAND)	19200		

MUD MATERIALS ADDED: GEL – 10 Bags; Cmc – 2 Bags; Benex – 2 Bags; Caustic – 3 Bags

Footage

FROM	TO	ROT HOURS	DR-D RM-R CORE-C	CORE NO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT. ON BIT (1000#)	PUMP PRESS	AIR VOL (CFM)	PUMP NO 1 LINER SIZE	S.P.M.	PUMP NO 2 LINER SIZE	S.P.M.	METHOD PUMPS RUN
8228	8315	7 3/4	87'			40	50	2100		6"	120	6"		
								675			60			

DESILTER HRS. 8 U.F. 10.8 O.F. 9.1

DEVIATION RECORD: —

TIME LOG FROM	TO	ELAPSED TIME	CODE	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
12:00	12:15	1/4		Serv Rig & Checked B.O.P.
12:15	8:00	7 3/4		Drlg

DRILLER: E. Johnson

DAY TOUR

Drilling Assembly at End of Tour

NO	CODE / BIT	FT
1	BS 2 7/8 x 6 3/4	3.98
1	SS 2 x 6 3/4	8.59
1	DM 3 x 6 3/4	14.80
1	SI 2 7/8 x 6 3/4	4.10
1	C/O 2 7/8 x 6 3/4	2.10
21	DC 2 7/8 x 6 3/4	648.54
83	DP STANDS	7721.22
	DP SINGLES	
	KELLY DOWN	17.00
	TOTAL	8420.33
	WT. OF DC IN AIR	64m LBS.
	WT. OF STRING	166m LBS.

Bit Record

BIT NO.	14
SIZE	8 3/4
MFG.	SEC
TYPE	M88
JETS 1/32"	11 11 12
SERIAL NO.	340642
DEPTH OUT	
DEPTH IN	8202
TOTAL FTG.	218
TOTAL HRS. RUN	18 1/2
BIT CONDITION 1/8" T/B/GAGE	Drlg
REAMER CUTTER NO	
REAMER TYPE	

Mud Record

TIME	8:00	12:00	3:00
WEIGHT	9.0	9.0	9.0
VIS.-SEC.	35	37	38
PV/YP	11/11	/	/
GELS	2/6	/	/
W.L.-C.C.	8.5	10.2	
PH	9.0	9.5	9.5
Salinity	19,965		22,110
% SAND			

MUD MATERIALS ADDED: CMC 2 Bags; CORR INH. 1 Can; CAUSTIC 2 Bags

Footage

FROM	TO	ROT HOURS	DR-D RM-R CORE-C	CORE NO	FORMATION	ROTARY R.P.M.	WT. ON BIT (1000#)	PUMP PRESS	AIR VOL	PUMP NO 1 LINER SIZE	S.P.M.	PUMP NO 2 LINER SIZE	S.P.M.	METHOD PUMPS RUN
8315	8420	7	105			40	50	2100		6	120			

DEVIATION RECORD: DEPTH 8415

TIME LOG FROM	TO	ELAPSED TIME	CODE	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
8:00	8:15	1/4		Rig Ser, V BOPs.
8:15	2:45	6 1/2		Drlg 8 3/4 Hole.
2:45	3:30	3/4		Survy.
3:30	4:00	1/2		Drlg.
		8		

B. Russel – 2hr. Overtime

DRILLER: D. Dendall

EVENING TOUR

Drilling Assembly at End of Tour

NO	CODE / BIT	FT
1	BS. 2 7/8 x 6 3/4	3.98
1	SS. 2 x 6 3/4	8.59
1	DM 3 x 6 3/4	14.80
1	S.I. 2 7/8 x 6 3/4	4.10
1	C.O. 2 7/8 x 6 3/4	2.10
21	DC's 2 7/8 x 6 3/4	648.54
84	DP STANDS	7813.21
	DP SINGLES	
	KELLY DOWN	39.00
	TOTAL	8535.32
	WT. OF DC IN AIR	64M LBS.
	WT. OF STRING	168M LBS.

Bit Record

BIT NO.	14
SIZE	8 3/4
MFG.	SEC
TYPE	M-88
JETS 1/32"	11 11 12
SERIAL NO.	340642
DEPTH OUT	
DEPTH IN	8202
TOTAL FTG.	333
TOTAL HRS. RUN	26 1/4
BIT CONDITION 1/8" T/B/GAGE	IN
REAMER CUTTER NO.	
REAMER TYPE	

Mud Record

TIME	4:30	8:00	11:00
WEIGHT	9.0	9.2	9.2
VIS.-SEC.	38	37	38
PV/YP	11/9		
GELS	6/12		
W.L.-C.C.	8.6	8.6	8.6
PH	9.5	9.5	9.5
Salinity	17,755		
% SAND			

MUD MATERIALS ADDED: WT. MAT. 60 SAK; CMC 1 SAK; CAUSTIC 1 SAK.

Footage

FROM	TO	ROT HOURS	DR-D RM-R CORE-C	CORE NO	FORMATION	ROTARY R.P.M.	WT. ON BIT (1000#)	PUMP PRESS	AIR VOL	PUMP NO 1 LINER SIZE	S.P.M.	PUMP NO 2 LINER SIZE	S.P.M.	METHOD PUMPS RUN
8420	8535	7 3/4	115			40	50	2100		6				

DEVIATION RECORD: —

TIME LOG FROM	TO	ELAPSED TIME	CODE	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
4.00	4.15	1/4		RIG SERV. V B.O.P.S
4.15	12.00	7 3/4		DRLG

2 Hrs overtime Mech. B. Russel.
4 HRS OVERTIME LAYING WATERLINE.
R. BERG

DRILLER: [signature]

CP-38 (10/69)

DAILY DRILLING REPORT

WELL NAME: Shell Arctic Red River West

LOCATION: G-55 | PROVINCE: N.W.T

OPERATOR: Shell Canada Limited | CONTRACTOR: Gustavson Drlg 1964 Ltd. | RIG NO. 11

SIGNATURE OF OPERATOR'S REPRESENTATIVE: R. McAuley | SIGNATURE OF CONTRACTOR'S TOOL PUSHER: Jack McLeod

DEPTH AT START OF MORNING TOUR	DEPTH AT END OF EVENING TOUR	DAILY PROGRESS	CUMULATIVE ROTATING HOURS	DAYS FROM SPUD	DATE MONTH	DAY	YEAR
8077'	8228'	151'		27	April	27	71

DP / DC. SIZE	WT / FT	GRADE	MIN I.D	TOOL JT O.D.	TYPE THREAD	PUMP NO.	PUMP MANUFACTURER	TYPE	STROKE LENGTH
4"	14#	E	2 7/8"	5 1/4"	FH	1	NaT	8P80	8 1/2"
6 3/4"	101#		2 7/8"	6 3/4"	5"H90	2	"	8P80	8 1/2"

LAST CASING TUBING OR LINER

SIZE	WT. AND GR.	NO. OF JOINTS	FEET	KB. TO CSG. HEAD	SET AT	CEMENT USED (SACKS)
9 5/8	36# K55	38	1204'		1201'	886'

REMARKS:

TIME DISTRIBUTION — HOURS

CODE NO	OPERATION	MORN.	DAY	EVE.	TOTAL
1	RIG UP TEAR DOWN				
2	DRILLING ACTUAL	7 3/4	7 3/4	2 3/4	17 1/2
3	REAMING				
4	CORING				
5	CLEAN TO BOTTOM AND CIRCULATING				
6	TRIPS			5.	5
7	RIG SERVICE	1/4	1/4	1/4	3/4
8	RIG REPAIR				
9	CUT AND/OR SLIP LINE				
10	DEVIATION SURVEY		3/4		3/4
11	LOG				
12	RUN CASING AND CEMENT				
13	WAIT ON CEMENT				
14	NIPPLE UP B.O.P.				
15	TEST B.O.P.				
16	DRILL STEM TEST				
17	PLUG BACK				
18	SQUEEZE CEMENT				
19	STUCK OR FISHING				
20	HANDLE TOOLS				
21	CONDITION MUD				
22	CIRCULATION				
23					
24					
COMPLETION 40	PERFORATE				
COMPLETION 41	TUBING TRIPS				
COMPLETION 42	TREATING				
COMPLETION 43	SWABBING				
COMPLETION 44	TESTING				
COMPLETION 45					
60	ABANDON				
70	STANDBY				
	TOTALS	8	8	8	24
	HOURS FOR SHELL ACCOUNT	232			24
EQUIPMENTAL CONTRACTOR	BOILER # 1				
	Boiler #2	8	8	8	24

HOLE CONDITION

1	HOLE DRAG (1000#)	
2	TORQUE ON BOTTOM (DP TURNS)	
3	FILL ON BOTTOM (FEET)	

DRILLING ASSEMBLY AT END OF TOUR

NO	CODE		ID	OD	FT
		BIT			FT
1	BS		2 7/8	6 3/4	3.98 FT
1	SS		2"	6 7/8	8.59 FT
1	DM		3"	6 7/8	14.80 FT
1	SI		2 7/8	6 3/4	4.10 FT
1	G		2 7/8	6 3/4	2.10 FT
			X		FT
21	DC		2 7/8	6 3/4	648.54 FT
80	DP	STANDS			7443.86 FT
—	DP	SINGLES			FT
		KELLY DOWN			34.03 FT
		TOTAL			8160.00 FT
		WT. OF DC IN AIR			64m LBS.
		WT. OF STRING			164m LBS

BIT RECORD

BIT NO.	13
SIZE	8 3/4"
MFG.	Smith
TYPE	S5J
JETS 1/32"	11 11 12
SERIAL NO.	FG844
DEPTH OUT	8001
DEPTH IN	7851
TOTAL FTG.	159
TOTAL HRS. RUN	15 1/4
BIT CONDITION 1/8" T/B/GAGE	IN
REAMER CUTTER NO.	
REAMER TYPE	

MUD RECORD

	12:30	4:20	10:00
TIME			
WEIGHT	9.0	9.0	9.0
VIS.-SEC.	42	39	37
PV/YP	/	/	/
GELS	/	/	/
W.L.-C.C.	9.4	9.	9.2
PH	9.5	9.5	9.5
% SOLIDS			
SALINITY	14025		

MUD MATERIALS ADDED

TYPE	AMOUNT	TYPE	AMOUNT
GEL	5 Bags		
BENEX	1 Bag		
CMC	1 Bag		

FOOTAGE

FROM	TO	ROT HOURS	DR-D RM-R CORE-C	CORE NO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT. ON BIT (1000#)	PUMP (AIR) PRESS	AIR VOL (CFM)	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN
8077'	8160'	7 3/4	83'			40	50	2100		6"	120	6"		
			DESILTER HRS. & U.F. 10.5 O.F. 9.1											

DEVIATION RECORD

DEPTH	DEVIATION°	DIRECTION	DEPTH	DEVIATION°	DIRECTION	DEPTH	DEVIATION°	DIRECTION

TIME LOG

FROM	TO	ELAPSED TIME	CODE	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
12:00	2:45	2 3/4		Drlg
2:45	3:00	1/4		Serv Rig & Checked BOP
3:00	8:00	5		Drlg

DRILLER: G. Johnson

DRILLING ASSEMBLY AT END OF TOUR

NO	CODE		ID	OD	FT
		BIT			FT
1	BS		2 7/8	6 3/4	3.98 FT
1	SS		2"	6 7/8	8.59 FT
1	DM		3	6 7/8	14.80 FT
1	SI		2 7/8	6 3/4	4.10 FT
1	G		2 7/8	6 3/4	2.10 FT
			X		FT
21	DCS		2 7/8	6 3/4	648.54 FT
80	DP	STANDS			7443.86 FT
1	DP	SINGLES			7492.17 FT
		KELLY DOWN			43.00 FT
		TOTAL			8201.17 FT
		WT. OF DC IN AIR			64m LBS.
		WT. OF STRING			164m LBS

BIT RECORD

BIT NO.	13
SIZE	8 3/4
MFG.	Smith
TYPE	S5J
JETS 1/32"	11 11 12
SERIAL NO.	FG844
DEPTH OUT	8202
DEPTH IN	8001
TOTAL FTG.	201
TOTAL HRS. RUN	22 1/4
BIT CONDITION 1/8" T/B/GAGE	8 7 0
REAMER CUTTER NO.	
REAMER TYPE	

MUD RECORD

	8:00	12:00	3:00
TIME			
WEIGHT	9.0	9.0	9.0
VIS.-SEC.	39	34	40
PV/YP	11/11	/	/
GELS	2/6	/	/
W.L.-C.C.	9.0	10.0	
PH	9.5	9.5	
SALINITY	13,000		
% SAND			

MUD MATERIALS ADDED

TYPE	AMOUNT	TYPE	AMOUNT
GEL	10 Bags		
Benex	2 Bags		
CMC	1 Bag		

FOOTAGE

FROM	TO	ROT HOURS	DR-D RM-R CORE-C	CORE NO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT. ON BIT (1000#)	PUMP (AIR) PRESS	AIR VOL (CFM)	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN
8160	8201	7	41			40	50	2100		6	120			

DEVIATION RECORD

DEPTH	DEVIATION°	DIRECTION	DEPTH	DEVIATION°	DIRECTION	DEPTH	DEVIATION°	DIRECTION
8168	5 1/2°	S 57 E.						

TIME LOG

FROM	TO	ELAPSED TIME	CODE	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
8:00	9:30	1 1/2		Drlg 8 3/4 Hole.
9:30	10:15	3/4		Survey
10:15	10:30	1/4		Rig Ser, BOPs.
10:30	4:00	5 1/2		Drlg 8 3/4 Hole.

B. Russell - 1 hr Overtime

DRILLER: D. Tendall

DRILLING ASSEMBLY AT END OF TOUR

NO	CODE		ID	OD	FT
		BIT			FT
1	BS		2 7/8	6 3/4	3.98 FT
1	SS		2	6 7/8	8.59 FT
1	DM		3	6 7/8	14.80 FT
1	SI		2 7/8	6 3/4	4.10 FT
1	CO		2 7/8	6 3/4	2.10 FT
			X		FT
21	DC		2 7/8	6 3/4	648.54 FT
80	DP	STANDS			7443.86 FT
2	DP	SINGLES			7505.39 FT
		KELLY DOWN			40.00 FT
		TOTAL			8238.50 FT
		WT. OF DC IN AIR			64M. LBS.
		WT. OF STRING			165M. LBS.

BIT RECORD

BIT NO.	14
SIZE	8 3/4
MFG.	SEC.
TYPE	M88
JETS 1/32"	11 11 12
SERIAL NO.	340642
DEPTH OUT	
DEPTH IN	8202
TOTAL FTG.	27
TOTAL HRS. RUN	2 3/4
BIT CONDITION 1/8" T/B/GAGE	
REAMER CUTTER NO.	
REAMER TYPE	

MUD RECORD

	10:00	4	11:00
TIME			
WEIGHT	9.1		9.1
VIS.-SEC.	39		37
PV/YP	19/6	/	/
GELS	6/16	/	/
W.L.-C.C.	10.4		
PH	8.5		8.5
SALINITY	18,900		
% SOLIDS			
% SAND			

MUD MATERIALS ADDED

TYPE	AMOUNT	TYPE	AMOUNT

FOOTAGE

FROM	TO	ROT HOURS	DR-D RM-R CORE-C	CORE NO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT. ON BIT (1000#)	PUMP (AIR) PRESS.	AIR VOL. (CFM)	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN
8202	8228	2 3/4	27			40	50	2100		6	120			

DEVIATION RECORD

DEPTH	DEVIATION°	DIRECTION	DEPTH	DEVIATION°	DIRECTION	DEPTH	DEVIATION°	DIRECTION

TIME LOG

FROM	TO	ELAPSED TIME	CODE	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
4:00	9:00	5		TRIP OUT & RUN IN.
9:00	9:15	1/4		RIG SERV. & B.O.P.S.
9:15	12:00	2 3/4		DRLG.
		4 HRS.	OVERTIME.	WORK ON AIRSTRIP LIGHTS. L. SCOTT.

DRILLER: R. Swosinski

CP-38 (10/69)

DAILY DRILLING REPORT

WELL NAME: Shell Arctic Red River West G-55

LOCATION: PROVINCE: N.W.T

OPERATOR: Shell Canada Limited

CONTRACTOR: Gustavson Drlg 1964 Ltd. RIG NO. 11

SIGNATURE OF OPERATOR'S REPRESENTATIVE: L. Brown

SIGNATURE OF CONTRACTOR'S TOOL PUSHER: Jack McLeod

DEPTH AT START OF MORNING TOUR	DEPTH AT END OF EVENING TOUR	DAILY PROGRESS	CUMULATIVE ROTATING HOURS	DAYS FROM SPUD	DATE (MONTH / DAY / YEAR)
7908'	8077'	169'		26	April 26 71

DP. / DC. SIZE	WT. / FT	GRADE	MIN. I.D.	TOOL JT O.D.	TYPE THREAD
4"	14#	E	2 7/8"	5 1/4"	FH
6 3/4"	101#		2 7/8"	6 3/4"	5" H90

PUMP NO.	PUMP MANUFACTURER	TYPE	STROKE LENGTH
1	NOT	8P80	8 1/2"
2	"	8P80	8 1/2"

LAST CASING TUBING OR LINER

SIZE	WT. AND GR.	NO. OF JOINTS	FEET	KB TO CSG. HEAD	SET AT	CEMENT USED (SACKS)	REMARKS
9 5/8	36# K55	38	1204'		1201'	866'	

TIME DISTRIBUTION — HOURS

CODE NO.	OPERATION	MORN.	DAY	EVE.	TOTAL
1	RIG UP TEAR DOWN				
2	DRILLING ACTUAL	7 1/4	3 1/4	7	17 1/2
3	REAMING				
4	CORING				
5	CLEAN TO BOTTOM AND CIRCULATING				
6	TRIPS		4 1/4		4 1/4
7	RIG SERVICE	1/4	1/4		1/2
8	RIG REPAIR				
9	CUT AND/OR SLIP LINE				
10	DEVIATION SURVEY	1/2	1/4	3/4	1 1/2
11	WIRE LINE LOG				
12	RUN CASING AND CEMENT				
13	WAIT ON CEMENT				
14	NIPPLE UP B.O.P.				
15	TEST B.O.P.	✓	✓	1 1/4	1 1/4
16	DRILL STEM TEST				
17	PLUG BACK				
18	SQUEEZE CEMENT				
19	STUCK OR FISHING				
20	HANDLE TOOLS				
21	CONDITION MUD				
22	LOST CIRCULATION				
23					
24					
COMPLETION 40	PERFORATE				
COMPLETION 41	TUBING TRIPS				
COMPLETION 42	TREATING				
COMPLETION 43	SWABBING				
COMPLETION 44	TESTING				
COMPLETION 45					
60	ABANDON				
70	STANDBY				
	TOTALS	8	8	8	24
	HOURS FOR SHELL ACCOUNT	8	8	8	24
CONTRACTOR EQUIPMENT RENTAL	BOILER #1	8	8	8	24
	Boiler #2				

Code 232

HOLE CONDITION

1	HOLE DRAG (1000#)	2m
2	TORQUE ON BOTTOM (DP TURNS)	2
3	FILL ON BOTTOM (FEET)	—

DRILLING ASSEMBLY AT END OF TOUR

NO.	CODE	BIT	I.D.	O.D.	FT.
1	M.3		3 1/4	6 3/4	5.33 FT.
1	S.S.	2"		6 3/4	8.59 FT.
1	DM	3"		6 3/4	14.80 FT.
1	S.I.	2 7/8		6 3/4	4.10 FT.
1	C/o		X		2.10 FT.
			X		FT.
21	D.C.	2 7/8		6 3/4	648.54 FT.
78	DP	STANDS			7257.00 FT
—	DP	SINGLES			FT.
KELLY DOWN					30.00 FT.
TOTAL					7970.46 FT.
WT. OF DC IN AIR					64m LBS.
WT. OF STRING					160m LBS.

BIT RECORD

BIT NO.	12	
SIZE	8 3/4"	
MFG.	GEC	
TYPE	M88	
JETS 1/32"	11 11 12	
SERIAL NO.	340527	
DEPTH OUT		
DEPTH IN	7592'	
TOTAL FTG.	378	
TOTAL HRS. RUN	42 1/4	
BIT CONDITION 1/8" T/B/GAGE	IN	
REAMER CUTTER NO.		
REAMER TYPE		

MUD RECORD

TIME	11:30	4:00	
WEIGHT	9.	9.	9.
VIS.-SEC.	37	36	36
PV/YP	/	/	/
GELS.	/	/	/
W.L.-C.C.	8.2	8.4	
PH	9.5	9.5	
% SOLIDS			
SALINITY	12300		

MUD MATERIALS ADDED

TYPE	AMOUNT	TYPE	AMOUNT
Caustic	2 Bags		

FOOTAGE

FROM	TO	ROT HOURS	DR-D RM-R CORE-C	CORE NO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT ON BIT (1000#)	PUMP (AIR) PRESS	AIR VOL (CFM)	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN
7908'	7970'	7 1/4	62'			36-40	50	2100		6"	120	6"		
					DESILTER HRS. 7 1/4 4F. 10.4 C.F. 9.1									

DEVIATION RECORD

DEPTH	DEVIATION°	DIRECTION	DEPTH	DEVIATION°	DIRECTION	DEPTH	DEVIATION°	DIRECTION
7920'	5 3/4	S 76 E						

MORNING TOUR

TIME LOG FROM	TO	ELAPSED TIME	CODE	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
1200	100	1		Drlg
100	145	3/4		Directional Survey Serv Rig & checked BOP.
145	800	6 1/4		Drlg
		8		

DRILLER: E. Johnson

DRILLING ASSEMBLY AT END OF TOUR

NO.	CODE	BIT	I.D.	O.D.	FT.
1	BS		2 7/8	6 3/4	3.98 FT.
1	SS	2		6 3/4	8.59 FT.
1	DM	3		6 3/4	14.80 FT.
1	SI	2 7/8		6 3/4	4.10 FT.
1	C/o	2 7/8		6 3/4	2.10 FT.
			X		FT.
21	DC	2 7/8		6 3/4	648.54 FT.
79	DP	STANDS			FT.
1	DP	SINGLES			7381.88 FT.
KELLY DOWN					14.00 FT.
TOTAL					8077.99 FT.
WT. OF DC IN AIR					64m LBS.
WT. OF STRING					161m LBS.

BIT RECORD

BIT NO.	12	13
SIZE	8 3/4	8 3/4
MFG.	SEC	Smith
TYPE	M88	55J
JETS 1/32"	11 11 12	11 11 12
SERIAL NO.	340527	AG844
DEPTH OUT	8001	
DEPTH IN	7592	8001
TOTAL FTG.	409	6
TOTAL HRS. RUN	45	1/2
BIT CONDITION 1/8" T/B/GAGE	2 2 0	
REAMER CUTTER NO.		
REAMER TYPE		

MUD RECORD

TIME	8:00		
WEIGHT	9.0		
VIS.-SEC.	37		
PV/YP	11/11	/	/
GELS.	2/6	/	/
W.L.-C.C.	8.6		
PH	9.5		
Salinity	17,645		
% SAND			

MUD MATERIALS ADDED

TYPE	AMOUNT	TYPE	AMOUNT
CMC	1 Bag		

FOOTAGE

FROM	TO	ROT HOURS	DR-D RM-R CORE-C	CORE NO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT ON BIT (1000#)	PUMP (AIR) PRESS	AIR VOL (CFM)	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN
7970	8001	3 1/4	37			40	50	2100		6	120			
								650		6	60			

DEVIATION RECORD

DEPTH	DEVIATION°	DIRECTION	DEPTH	DEVIATION°	DIRECTION	DEPTH	DEVIATION°	DIRECTION
8000	Misrun		8044					

DAY TOUR

TIME LOG FROM	TO	ELAPSED TIME	CODE	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
800	815	1/4		R.g Ser ✓ BOPs.
815	1100	2 3/4		Drlg 8 3/4 Hole. w/ B.t #12.
1100	1115	1/4		Survey
1115				Trip out w/ B.t #12. Lay Down 3 Point Reamer.
	330	4 1/4		Run in w/ B.t #13, Break Circ (no fill).
330	400	1/2		Drlg. w/ B.t #13.
		8		Mech B. Russell 4 Hrs overtime.

DRILLER: D. Lindell

DRILLING ASSEMBLY AT END OF TOUR

NO.	CODE	BIT	I.D.	O.D.	FT.
1	BS		2 7/8	6 3/4	3.98 FT.
1	SS	2		6 3/4	8.59 FT.
1	DM	3		6 5/8	14.80 FT.
1	SI	2 7/8		6 3/4	4.10 FT.
1	C/o	2 7/8		6 3/4	2.10 FT.
			X		FT.
21	DC	2 7/8		6 3/4	648.54 FT.
79	DP	STANDS			FT.
1	DP	SINGLES			7381.88 FT.
KELLY DOWN					14.00 FT.
TOTAL					8077.99 FT.
WT. OF DC IN AIR					64m LBS.
WT. OF STRING					161m LBS.

BIT RECORD

BIT NO.	13	
SIZE	8 3/4	
MFG.	Smith	
TYPE	55J	
JETS 1/32"	11 11 12	
SERIAL NO.	FG944	
DEPTH OUT		
DEPTH IN	8001	
TOTAL FTG.	76'	
TOTAL HRS. RUN	7 1/2	
BIT CONDITION 1/8" T/B/GAGE	IN	
REAMER CUTTER NO.		
REAMER TYPE		

MUD RECORD

TIME	4:00	8:00	11:00
WEIGHT	9.1	9.1	9.1
VIS.-SEC.	40	38	39
PV/YP	20/5	/	/
GELS.	6/15	/	/
W.L.-C.C.	10.0		8.4
PH	8.5	9.5	9.5
Salinity	14,500		
% SAND			

MUD MATERIALS ADDED

TYPE	AMOUNT	TYPE	AMOUNT
CMC	1 Bags		
Gel	5 Bags		
Mastic	2 Bags		

FOOTAGE

FROM	TO	ROT HOURS	DR-D RM-R CORE-C	CORE NO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT ON BIT (1000#)	PUMP (AIR) PRESS	AIR VOL (CFM)	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN
8001	8077	7	70'			40	50	2100		6"	120	6"		

DEVIATION RECORD

DEPTH	DEVIATION°	DIRECTION	DEPTH	DEVIATION°	DIRECTION	DEPTH	DEVIATION°	DIRECTION
8044	6 3/4	S 69 E						

EVENING TOUR

TIME LOG FROM	TO	ELAPSED TIME	CODE	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
400	415	1/4		R.g Ser ✓ BOPs.
415	730	3 1/4		Drlg 8 3/4 Hole.
730	815	3/4		Run Directional Survey
816	1200	3 3/4		Drlg
		8		

DRILLER: E. Johnson

CP-38 (10/69)

DAILY DRILLING REPORT

WELL NAME: Shell Arctic Red River West G-55

LOCATION: G-55 | PROVINCE: N.W.T

OPERATOR: Shell Canada Limited

SIGNATURE OF OPERATOR'S REPRESENTATIVE: L. Brown

CONTRACTOR: Gustavson Drlg 1964 Ltd. | RIG NO.: 11

SIGNATURE OF CONTRACTOR'S TOOL PUSHER: [illegible]

DEPTH AT START OF MORNING TOUR	DEPTH AT END OF EVENING TOUR	DAILY PROGRESS	CUMULATIVE ROTATING HOURS	DAYS FROM SPUD	DATE MONTH	DAY	YEAR
7693'	7908'	215'		25	April	25	71

DP / DC SIZE	WT. / FT.	GRADE	MIN I.D.	TOOL JT O.D.	TYPE THREAD	PUMP NO.	PUMP MANUFACTURER	TYPE	STROKE LENGTH
4"	14#	E	2 7/8"	5 1/2"	FH	1	NaT	8P80	8 1/2"
6 3/4	101#		2 7/8"	6 3/4"	5"H90	2	NaT	8P80	8 1/2"

LAST CASING TUBING OR LINER	SIZE	WT. AND GR.	NO. OF JOINTS	FEET	KB TO CSG. HEAD	SET AT	CEMENT USED (SACKS)	REMARKS
	9 5/8"	36# K55	38	1204		1201	886'	

TIME DISTRIBUTION — HOURS

CODE NO.	OPERATION	MCRN.	DAY	EVE.	TOTAL
1	RIG UP TEAR DOWN				
2	DRILLING ACTUAL	7 3/4	7 3/4	7 3/4	23 1/4
3	REAMING				
4	CORING				
5	CLEAN TO BOTTOM AND CIRCULATING				
6	TRIPS				
7	RIG SERVICE	1/4	1/4	1/4	3/4
8	RIG REPAIR				
9	CUT AND/OR SLIP LINE				
10	DEVIATION SURVEY				
11	WIRE LINE LOG				
12	RUN CASING AND CEMENT				
13	WAIT ON CEMENT				
14	NIPPLE UP B.O.P.				
15	TEST B.O.P.	V			
16	DRILL STEM TEST				
17	PLUG BACK				
18	SQUEEZE CEMENT				
19	STUCK OR FISHING				
20	HANDLE TOOLS				
21	CONDITION MUD				
22	LOST CIRCULATION				
23					
24					
COMPLETION 40	PERFORATE				
COMPLETION 41	TUBING TRIPS				
COMPLETION 42	TREATING				
COMPLETION 43	SWABBING				
COMPLETION 44	TESTING				
COMPLETION 45					
60	ABANDON				
70	STANDBY				
	TOTALS	8	8	8	24
	HOURS FOR SHELL ACCOUNT	8	8	8	24

CONTRACTOR EQUIP. RENTAL
- BOILER #1
- Boiler #2 8 8 8 24
- Code 232 B, 77

HOLE CONDITION

1	HOLE DRAG (1000#)	6M
2	TORQUE ON BOTTOM (DP TURNS)	
3	FILL ON BOTTOM (FEET)	
	-	

DRILLING ASSEMBLY AT END OF TOUR

NO.	CODE	BIT	ID	OD	FT
1	R3		2 1/4	6 3/4	5.33 FT.
1	SS		2"	6 3/4	8.59 FT.
1	DM		3"	6 3/4	14.80 FT.
1	SI		2 7/8	6 3/4	4.10 FT.
1	C/O		2 7/8	6 3/4	2.10 FT.
		X	ID	OD	FT.
21	DC		2 7/8	6 3/4	648.54 FT.
76	DP	STANDS			7070.85 FT
—	DP	SINGLES			FT.
KELLY DOWN					16.00 FT.
TOTAL					7770.31 FT.
WT. OF DC IN AIR					64M LBS.
WT. OF STRING					158M LBS.

BIT RECORD

BIT NO.	12
SIZE	8 3/4"
MFG.	Sec
TYPE	M88
JETS 1/32"	11 11 12
SERIAL NO.	340521
DEPTH OUT	
DEPTH IN	7592'
TOTAL FTG.	178'
TOTAL HRS. RUN	19 1/2
BIT CONDITION 1/8" T/B/GAGE	IN
REAMER CUTTER NO.	INVENTORY
REAMER TYPE	

SHORT 04 → APR. 1 24-71

MUD RECORD

TIME	12:00	4:00	7:00
WEIGHT	9.1	9.1	9.1
VIS.-SEC.	38	37	36
PV/YP	/	/	/
GELS	/	/	/
W.L.-C.C	9.	8.	
PH	9.5	9.5	
% SOLIDS			
SALINITY	13200		

MUD MATERIALS ADDED

TYPE	AMOUNT	TYPE	AMOUNT
BARITE	145 SAXS	BICARB	3 SXS
GEL	133 SAXS		
BENEX	20 SAXS		
CAUSTIC	14 SXS		

FOOTAGE

FROM	TO	ROT HOURS	DR-D RM-R CORE-C	CORE NO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT. ON BIT (1000#)	PUMP PRESS	AIR VOL (CFM)	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN
7693'	7770	7 3/4	77'			36	50	2100		6"	120	6"		
								700			60			

OBSERVED HRS. 7 3/4 U.F. 10. 4 O.F. 9.1

DEVIATION RECORD

DEPTH	DEVIATION°	DIRECTION	DEPTH	DEVIATION°	DIRECTION	DEPTH	DEVIATION°	DIRECTION

TIME LOG

FROM	TO	ELAPSED TIME	CODE	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
12 00	12 15	1/4		Serv Rig & Checked B.O.P
12 15	8 00	7 3/4		Drlg

DRILLER: D. Johnson

DRILLING ASSEMBLY AT END OF TOUR

NO.	CODE	BIT	ID	OD	FT
1	R3		2 1/4	6 3/4	5.33 FT.
1	SS		2"	6 3/4	8.59 FT.
1	DM		3"	6 3/4	14.80 FT.
1	SI		2 7/8	6 3/4	4.10 FT.
1	C/O		2 7/8	6 3/4	2.10 FT.
		X	ID	OD	FT.
21	DC		2 7/8	6 3/4	648.54 FT.
76	DP	STANDS			FT
2	DP	SINGLES			7132.40
KELLY DOWN					25.00 FT.
TOTAL					7840.86 FT.
WT. OF DC IN AIR					64M LBS.
WT. OF STRING					158M LBS.

BIT RECORD

BIT NO.	12
SIZE	8 3/4
MFG.	SEC
TYPE	M88
JETS 1/32"	11 11 12
SERIAL NO.	340521
DEPTH OUT	
DEPTH IN	7592
TOTAL FTG.	248
TOTAL HRS. RUN	27 1/4
BIT CONDITION 1/8" T/B/GAGE	Drlg
REAMER CUTTER NO.	
REAMER TYPE	

MUD RECORD

TIME	8:00	12:00	3:00
WEIGHT	9.1	9.1	9.1
VIS.-SEC.	33	38	37
PV/YP	11/10	/	/
GELS	2/5	/	/
W.L.-C.C	9.0	10.2	
PH	9.5	9.5	
SALINITY	17,655		
% SAND			

MUD MATERIALS ADDED

TYPE	AMOUNT	TYPE	AMOUNT
GEL.	10 Bags		
BENEX	2 Bags		
CMC	1 Bag		
CORR. INH.	2 cans		

FOOTAGE

FROM	TO	ROT HOURS	DR-D RM-R CORE-C	CORE NO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT. ON BIT (1000#)	PUMP (AIR) PRESS	AIR VOL (CFM)	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN
7770	7845	7 3/4	70			35	50	2100		6	120			
						40								

USED 1 BBLS VITREA-41, Rimula-30

DEVIATION RECORD

DEPTH	DEVIATION°	DIRECTION	DEPTH	DEVIATION°	DIRECTION	DEPTH	DEVIATION°	DIRECTION

TIME LOG

FROM	TO	ELAPSED TIME	CODE	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
8 00	10 45	2 3/4		Drlg 8 3/4 Hole.
10 45	11 00	1/4		Rig Ser, 1 BOPs
11 00	4 00	5		Drlg 8 3/4 Hole.
		8		

B. Russell — 1 hr. Over-Time

DRILLER: D. Lindall

DRILLING ASSEMBLY AT END OF TOUR

NO.	CODE	BIT	ID	OD	FT
1	R3		2 1/4	6 3/4	5.33 FT.
1	SS		2"	6 3/4	8.59 FT.
1	DM		3"	6 3/4	14.80 FT.
1	SI		2 7/8	6 3/4	4.10 FT.
1	C/O		2 7/8	6 3/4	2.10 FT.
		X	ID	OD	FT.
21	DC		2 7/8	6 3/4	648.54 FT.
77	DP	STANDS			FT
1	DP	SINGLES			7195.00
KELLY DOWN					30.00 FT.
TOTAL					7908.46 FT.
WT. OF DC IN AIR					64M LBS.
WT. OF STRING					159M LBS.

BIT RECORD

BIT NO.	12
SIZE	8 3/4
MFG.	SEC
TYPE	M88
JETS 1/32"	11 11 12
SERIAL NO.	340521
DEPTH OUT	
DEPTH IN	7592
TOTAL FTG.	316
TOTAL HRS. RUN	35
BIT CONDITION 1/8" T/B/GAGE	IN
REAMER CUTTER NO.	
REAMER TYPE	

MUD RECORD

TIME	4:00	8:00	11:30
WEIGHT	9.1	9.1	9.1
VIS.-SEC.	37	36	37
PV/YP	15/5	/	/
GELS.	5/12	/	/
W.L.-C.C	9.0		9.0
PH	9.5	9.5	9.5
SALINITY	10,150		
% SAND			

MUD MATERIALS ADDED

TYPE	AMOUNT	TYPE	AMOUNT
GEL	10 BAGS		
BEN-EX	2 BAGS		
CMC	1 BAG		
CAUSTIC	1 BAG		

FOOTAGE

FROM	TO	ROT HOURS	DR-D RM-R CORE-C	CORE NO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT. ON BIT (1000#)	PUMP PRESS	AIR VOL (CFM)	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN
7840	7908	7 3/4	68'			36-40	50	2100		6"	120	6"		

1 BAL Rimula #30

DEVIATION RECORD

DEPTH	DEVIATION°	DIRECTION	DEPTH	DEVIATION°	DIRECTION	DEPTH	DEVIATION°	DIRECTION

TIME LOG

FROM	TO	ELAPSED TIME	CODE	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
4 00	6 00	2		Drlg 8 3/4 Hole.
6 00	6 15	1/4		Rig Ser 1 BOPS.
6 15	12 00	5 3/4		Drlg.

DRILLER: E. Johnson

CP-88 (10/69)

DAILY DRILLING REPORT

WELL NAME: Shell Arctic Red River West G-55

LOCATION: G-55 | PROVINCE: N.W.T

OPERATOR: Shell Canada Limited

SIGNATURE OF OPERATOR'S REPRESENTATIVE: L. Brown

CONTRACTOR: Gustavson Drlg 1964 Ltd | RIG NO. 11

SIGNATURE OF CONTRACTOR'S TOOL PUSHER: [illegible]

DEPTH AT START OF MORNING TOUR	DEPTH AT END OF EVENING TOUR	DAILY PROGRESS	CUMULATIVE ROTATING HOURS	DAYS FROM SPUD	DATE MONTH	DAY	YEAR
7527'	7693	166'		24	4	24	71

DP./DC SIZE	WT./FT	GRADE	MIN I.D	TOOL JT O.D.	TYPE THREAD
4"	14#	E	2 7/8"	5 1/2"	F.H.
6 3/4"	101#		2 7/8"	6 3/4"	5" H90

PUMP NO.	PUMP MANUFACTURER	TYPE	STROKE LENGTH
1	NaT	8P80	8 1/2"
2	"	8P80	8 1/2"

LAST CASING TUBING OR LINER

SIZE	WT. AND GR.	NO OF JOINTS	FEET	KB TO CSG. HEAD	SET AT	CEMENT USED (SACKS)	REMARKS
9 5/8"	36# H55	38	1204		1201'	886	

TIME DISTRIBUTION — HOURS

CODE NO	OPERATION	MORN.	DAY	EVE	TOTAL
1	RIG UP TEAR DOWN				
2	DRILLING ACTUAL	6 3/4	4	7 3/4	18 1/2
3	REAMING				
4	CORING				
5	CLEAN TO BOTTOM AND CIRCULATING				
6	TRIPS	1	3		4
7	RIG SERVICE	1/4	1/4	1/4	3/4
8	RIG REPAIR				
9	CUT AND/OR SLIP LINE		1/2		1/2
10	DEVIATION SURVEY				
11	WIRE LINE LOG				
12	RUN CASING AND CEMENT				
13	WAIT ON CEMENT				
14	NIPPLE UP B.O.P.				
15	TEST B.O.P.		1/4		1/4
16	DRILL STEM TEST				
17	PLUG BACK				
18	SQUEEZE CEMENT				
19	STUCK OR FISHING				
20	HANDLE TOOLS				
21	CONDITION MUD				
22	TEST CIRCULATION				
23					
24					
COMPLETION 40	PERFORATE				
COMPLETION 41	TUBING TRIPS				
COMPLETION 42	TREATING				
COMPLETION 43	SWABBING				
COMPLETION 44	TESTING				
COMPLETION 45					
60	ABANDON				
70	STANDBY				
	TOTALS	8	8	8	24
	HOURS FOR SHELL ACCOUNT	8	8	8	24
CONTRACTOR EQUIP RENTAL	BOILER #1	8	8	8	24
	Boiler #2	—			
		232	B.		

HOLE CONDITION

1	HOLE DRAG (1000#)	10m
2	TORQUE ON BOTTOM (DP TURNS)	
3	FILL ON BOTTOM (FEET)	10'

MORNING TOUR

DRILLING ASSEMBLY AT END OF TOUR

NO	CODE	BIT	ID	OD	FT.
1		R3	2 1/4	6 3/4	5.33 FT.
1		SS	2	6 3/4	8.59 FT.
1		DM	3	6 3/4	14.80 FT.
1		S.I.	2 7/8	6 3/4	4.10 FT.
1		C/O	2 7/8	6 3/4	2.10 FT.
		X	ID	OD	FT.
21	DC		2 7/8	6 3/4	648.54 FT.
7 4	DP	STANDS			6884.32 FT
	DP	SINGLES			FT
		KELLY DOWN			18.00 FT
		TOTAL			7592.78 FT.
		WT OF DC IN AIR			64m LBS.
		WT OF STRING			155m LBS

BIT RECORD

BIT NO.	11
SIZE	8 3/4"
MFG.	Smith
TYPE	SS6
JETS 1/32"	11 11 12
SERIAL NO	HA-917
DEPTH OUT	7592
DEPTH IN	7262
TOTAL FTG	330
TOTAL HRS. RUN	33 1/2
BIT CONDITION 1/8" T/B/GAGE	
REAMER CUTTER NO.	
REAMER TYPE	

MUD RECORD

TIME	12:00	HRS	
WEIGHT	9.1	9.1	9.1
VIS.-SEC	35	34	36
PV/YP	/	/	/
GELS	/	/	/
W.L. C.C	8.8		
PH	9.5		
% SOLIDS			
% SAND			

MUD MATERIALS ADDED

TYPE	AMOUNT	TYPE	AMOUNT
GEL	10 Bags		
BENEX	8 Bags		
CMC	1 Bag		
SALINITY	12000		

FOOTAGE

FROM	TO	ROT HOURS	DR-D RM-R CORE-C	CORE NO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M	WT ON BIT (1000#)	PUMP (AIR) PRESS.	AIR VOL (CFM)	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN
7527'	7592	6 3/4	55'			40	50	2100		6"	120	6"		
					1 Pail Bestolife			700			60			
					1 " Jet Lube									

DEVIATION RECORD: 7582' — 3° — MISSRUN

TIME LOG

FROM	TO	ELAPSED TIME	CODE	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
12:00	12:15	1/4		Serv Rig & Swived Checked BOP
12:15	7:00	6 3/4		Drlg
7:00	8:00	1/8		Dropped Survey & Hoist
				4 HRS overTime A. Lupdle H. Haydon N. Leclerc (Take Down mud House) Held B.O.P Drill.

DRILLER: G. Johnson

DAY TOUR

DRILLING ASSEMBLY AT END OF TOUR

NO	CODE	BIT	ID	OD	FT.
1		R3	2 1/4	6 3/4	5.33 FT.
1		SS	2	6 3/4	8.59 FT.
1		Dm	3	6 3/4	14.80 FT.
1		SI	2 1/8	6 3/4	4.10 FT.
1		C/O	2 1/8	6 3/4	2.10 FT.
21	DC		2 1/8	6 3/4	648.54 FT.
		X	ID	OD	FT.
14	DP	STANDS			6915.48 FT
1	DP	SINGLES			28.00 FT
		KELLY DOWN			7626.94
		TOTAL			64m LBS.
		WT OF DC IN AIR			154m LBS
		WT OF STRING			

BIT RECORD

BIT NO.	12
SIZE	8 3/4
MFG.	SEC
TYPE	M88
JETS 1/32"	11 11 12
SERIAL NO.	340529
DEPTH OUT	
DEPTH IN	7592
TOTAL FTG.	34
TOTAL HRS RUN	4
BIT CONDITION 1/8" T/B/GAGE	Drlg
REAMER CUTTER NO.	
REAMER TYPE	

MUD RECORD

TIME	12:30	3:00	
WEIGHT	9.0	9.1	
VIS.-SEC	40	39	
PV/YP	12/17	/	/
GELS	3/7	/	/
W.L. C.C	9.2		
PH	9.0	9.5	
SALINITY	17,645		
% SAND			

MUD MATERIALS ADDED

TYPE	AMOUNT	TYPE	AMOUNT
GEL	10 Sks.		
BENEX	2 Sks		
CMC	1 Sk		
Caustic	2 Sk.		

FOOTAGE

FROM	TO	ROT HOURS	DR-D RM-R CORE-C	CORE NO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M	WT. ON BIT (1000#)	PUMP (AIR) PRESS.	AIR VOL (CFM)	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN
7592	7626	4	34			40	50	2100		6	120			
					Desilter D.F. 9.2 - UNF. - 10.3.									

DEVIATION RECORD

TIME LOG

FROM	TO	ELAPSED TIME	CODE	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
8:00	9:00	1		Finish Pulling Out
9:00	9:30	1/2		Rig Ser, BOP, Change Reamer Blades.
9:30	10:00	1/2		Slip 33' of Drlg Line
10:00	12:00	2		Run in w/ Bit #12 Break Cir & Clean 10' of fill
12:00	4:00	4		Drlg 8 3/4 Hole
		8		B. Russell - 1 hr. Over-Time

DRILLER: D. Lindall

EVENING TOUR

DRILLING ASSEMBLY AT END OF TOUR

NO	CODE	BIT	ID	OD	FT.
1		R3	2 1/4	6 3/4	5.33 FT.
1		SS	2	6 3/4	8.59 FT.
1		DM	3	6 3/4	14.80 FT.
1		SI	2 1/8	6 3/4	4.10 FT.
1		C/O	2 1/8	6 3/4	2.10 FT.
21	DC		2 1/8	6 3/4	648.54 FT.
		X	ID	OD	FT.
15	DP	STANDS			6977.96 FT
—	DP	SINGLES			FT.
		KELLY DOWN			32.00 FT
		TOTAL			7693.42 FT.
		WT. OF DC IN AIR			64m LBS.
		WT. OF STRING			156m LBS

BIT RECORD

BIT NO.	12
SIZE	8 3/4
MFG.	SEC
TYPE	M88
JETS 1/32"	11 11 12
SERIAL NO.	340529
DEPTH OUT	
DEPTH IN	7592
TOTAL FTG.	101
TOTAL HRS. RUN	11 3/4
BIT CONDITION 1/8" T/B/GAGE	Drlg
REAMER CUTTER NO.	
REAMER TYPE	

MUD RECORD

TIME	4:00	8:00	11:00
WEIGHT	9.2	9.1	9.1
VIS.-SEC	38	37	37
PV/YP	17/7	/	/
GELS	6/	/	/
W.L. C.C	9.2		9.0
PH	9.5		9.5
SALINITY	13,200		
% SAND			

MUD MATERIALS ADDED

TYPE	AMOUNT	TYPE	AMOUNT
CMC	1 Bag		
Caustic	1 Bag		

FOOTAGE

FROM	TO	ROT HOURS	DR-D RM-R CORE-C	CORE NO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M	WT. ON BIT (1000#)	PUMP (AIR) PRESS.	AIR VOL (CFM)	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN
7626	7693	7 3/4	67'			40	50	2100		6	120	6"	120	
								700			60			

DEVIATION RECORD

TIME LOG

FROM	TO	ELAPSED TIME	CODE	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
4:00	5:30	1 1/2		Drlg 8 3/4 Hole.
5:30	5:45	1/4		Rig Ser, BOPs.
5:45	12:00	6 1/4		Drlg
		8		

DRILLER: Lindall & Johnson

CP-38 (10/69)

DAILY DRILLING REPORT

WELL NAME: SHELL ARCTIC RED WEST

LOCATION: G-55

PROVINCE: N. W. T.

OPERATOR: Shell Canada Limited

SIGNATURE OF OPERATOR'S REPRESENTATIVE: D. Brown

CONTRACTOR: GUSTAVSON

SIGNATURE OF CONTRACTOR'S TOOL PUSHER: Jack McLeod

RIG NO: 11

DEPTH AT START OF MORNING TOUR	DEPTH AT END OF EVENING TOUR	DAILY PROGRESS	CUMULATIVE ROTATING HOURS	DAYS FROM SPUD	DATE MONTH	DAY	YEAR
7300	7527	227		23	4	23	71

DP. / DC. SIZE	WT. / FT	GRADE	MIN I.D.	TOOL JT O.D.	TYPE THREAD	PUMP NO.	PUMP MANUFACTURER	TYPE	STROKE LENGTH
4	14.	E	2 7/8	5 1/4	4 F.H.	1	NAT	8P80	8 1/2
6 3/4	101		2 7/8	6 3/4	5 H90	2	NAT	8P80	8 1/2

LAST CASING TUBING OR LINER

SIZE	WT. AND GR.	NO. OF JOINTS	FEET	KB TO CSG. HEAD	SET AT	CEMENT USED (SACKS)	REMARKS
9 5/8	36# K55	38	1204		1201	886	

TIME DISTRIBUTION — HOURS

CODE NO.	OPERATION	MORN.	DAY	EVE.	TOTAL
1	RIG UP TEAR DOWN				
2	DRILLING ACTUAL	6 1/2	7 3/4	7	21 1/4
3	REAMING				
4	CORING				
5	CLEAN TO BOTTOM AND CIRCULATING				
6	TRIPS				
7	RIG SERVICE		1/4	1/4	1/2
8	RIG REPAIR	1 1/4			1 1/4
9	CUT AND/OR SLIP LINE				
10	DEVIATION SURVEY			3/4	3/4
11	WIRE LINE LOG				
12	RUN CASING AND CEMENT				
13	WAIT ON CEMENT				
14	NIPPLE UP B.O.P.				
15	TEST B.O.P.	1/4	✓		1/4
16	DRILL STEM TEST				
17	PLUG BACK				
18	SQUEEZE CEMENT				
19	STUCK OR FISHING				
20	HANDLE TOOLS				
21	CONDITION MUD				
22	TEST CIRCULATION				
23					
24					
COMPLETION 40	PERFORATE				
COMPLETION 41	TUBING TRIPS				
COMPLETION 42	TREATING				
COMPLETION 43	SWABBING				
COMPLETION 44	TESTING				
COMPLETION 45					
60	ABANDON				
70	STANDBY				
	TOTALS	8	8	8	24
	HOURS FOR SHELL ACCOUNT	8	8	8	24
EQUIP. CONTRACTOR RENTAL	BOILER # 2	8	8	8	24

Code 232 B.

HOLE CONDITION

1	HOLE DRAG (1000#)	
2	TORQUE ON BOTTOM (DP TURNS)	
3	FILL ON BOTTOM (FEET)	

DRILLING ASSEMBLY AT END OF TOUR

NO.	CODE	BIT	ID	OD	FT
1	R3	24	6 3/4		5.33 FT.
1	SS	2	6 3/4		8.59 FT.
1	DM	3	6 1/16		14.80 FT.
1	SI	2 7/8	6 3/4		4.10 FT.
1	C/O	2 7/8	6 3/4		2.10 FT.
		X	ID	OD	FT.
21	DC	2 7/8	6 3/4		648.54 FT.
		ID	OD		FT.
71	DP	STANDS			6666.71 FT
2	DP	SINGLES			FT
		KELLY DOWN			1600 FT.
		TOTAL			7366.17 FT.
		WT. OF DC IN AIR			64M LBS.
		WT. OF STRING			152M LBS.

BIT RECORD

BIT NO.	11
SIZE	8 3/4
MFG.	SMITH
TYPE	SS6
JETS 1/32"	11 11 12
SERIAL NO.	AG917
DEPTH OUT	
DEPTH IN	7262
TOTAL FTG.	104
TOTAL HRS. RUN	12
BIT CONDITION 1/8" T/B/GAGE	1N
REAMER CUTTER NO.	
REAMER TYPE	

MUD RECORD

TIME	12:00	7:00	
WEIGHT	9.2	9.2	
VIS.-SEC.	35	34	
PV/YP	/	/	/
GELS	/	/	/
W.L.-C.C.	9.6	9.6	
PH	9.5	9.5	
% SOLIDS	April 20-71		
SHORT ON INVENTORY			

MUD MATERIALS ADDED

TYPE	AMOUNT	TYPE	AMOUNT
BENEX	3?	SACKS	
GEL	36	SACKS	
W.T. MATERIAL		620	SACKS.
CMC REG.		11	SACKS
SODA ASH		42	SACKS

FOOTAGE

FROM	TO	ROT HOURS	DR-D / RM-R CORE-C	CORE NO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT. ON BIT (1000#)	PUMP (AIR) PRESS.	AIR VOL (CFM)	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN
7300	7366	6 1/2	66			40	50	2100		6	120	6		
								650		6	60			

DEVIATION RECORD

DEPTH	DEVIATION°	DIRECTION	DEPTH	DEVIATION°	DIRECTION	DEPTH	DEVIATION°	DIRECTION

MORNING TOUR

TIME LOG FROM	TO	ELAPSED TIME	CODE	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
12.00	2.00	2		DRILL
2.00	3.15	1 1/4		CHANGE BUSHING + 2" NIPPLE ON MUDLINE
3.15	4.15	1		DRILL
4.15	4.30	1/4		CHECK B.O.P. SER. RIG
4.30	8.00	3 1/2		DRILL
				HELD B.O.P. DRILL

DRILLER: J. Howell

DRILLING ASSEMBLY AT END OF TOUR

NO.	CODE	BIT	ID	OD	FT
1	R3	24	6 3/4		5.33 FT.
1	SS	2	6 3/4		8.59 FT.
1	DM	3	6 1/16		14.80 FT.
1	SI	2 7/8	6 3/4		4.10 FT.
1	C/O	2 7/8	6 3/4		2.10 FT.
		X	ID	OD	FT.
21	DC	2 7/8	6 3/4		648.54 FT.
72	DP	STANDS			FT
1	DP	SINGLES			28.84 FT
		KELLY DOWN			43.00 FT.
		TOTAL			7455.50 FT.
		WT. OF DC IN AIR			64M LBS.
		WT. OF STRING			154M LBS

BIT RECORD

BIT NO.	11
SIZE	8 3/4"
MFG.	Smith
TYPE	SS6
JETS 1/32"	11 11 12
SERIAL NO.	AG917
DEPTH OUT	
DEPTH IN	7262
TOTAL FTG.	193'
TOTAL HRS. RUN	19 3/4
BIT CONDITION 1/8" T/B/GAGE	IN
REAMER CUTTER NO.	
REAMER TYPE	

MUD RECORD

TIME	8:00	12:00	2:00
WEIGHT	9.1	9.1	9.1
VIS.-SEC.	36.	35.	35
PV/YP	/	/	/
GELS	/	/	/
W.L.-C.C.	9.3		
PH	9.5		
% SOLIDS			
% SAND			

MUD MATERIALS ADDED

TYPE	AMOUNT	TYPE	AMOUNT
GEL	10 BAGS		
CMC	1 BAG		
BENEX	2 BAGS		

FOOTAGE

FROM	TO	ROT HOURS	DR-D / RM-R CORE-C	CORE NO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT. ON BIT (1000#)	PUMP (AIR) PRESS.	AIR VOL (CFM)	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN
7366	7455'	7 3/4	89'			40	50	2100		6"	120	6"		

DESILTER 9 HRS WF- 11.8 OF. 9.1

Fueled Rig Fuel Tank @ 9 AM. To 63"

DEVIATION RECORD

DEPTH	DEVIATION°	DIRECTION	DEPTH	DEVIATION°	DIRECTION	DEPTH	DEVIATION°	DIRECTION

DAY TOUR

TIME LOG FROM	TO	ELAPSED TIME	CODE	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
8:00	8:15	1/4		Serv Rig Checked Hydril 4" pipe Rams
8:15	4:00	7 3/4		Drlg 8 3/4" Hole

B. Russell - 2 hrs Overtime

DRILLER: E. Johnson

DRILLING ASSEMBLY AT END OF TOUR

NO.	CODE	BIT	ID	OD	FT
1	R3	24	6 3/4		5.33 FT.
1	SS	2	6 3/4		8.59 FT.
1	DM	3	6 1/16		14.80 FT.
1	SI	2 7/8	6 3/4		4.10 FT.
1	C/O	2 7/8	6 3/4		2.10 FT.
		X	ID	OD	FT.
21	DC	2 7/8	6 3/4		648.54 FT.
73	DP	STANDS			FT.
1	DP	SINGLES			68 22.01 FT
		KELLY DOWN			22.00 FT
		TOTAL			7527.49
		WT. OF DC IN AIR			64M LBS.
		WT. OF STRING			154M LBS.

BIT RECORD

BIT NO.	11
SIZE	8 3/4
MFG.	Smith
TYPE	SS6
JETS 1/32"	11 11 12
SERIAL NO.	AG917
DEPTH OUT	
DEPTH IN	7262
TOTAL FTG.	265
TOTAL HRS. RUN	26 3/4
BIT CONDITION 1/8" T/B/GAGE	IN
REAMER CUTTER NO.	
REAMER TYPE	

MUD RECORD

TIME	4:30	8:30	11.00
WEIGHT	9.1	9.1	9.1
VIS.-SEC.	35	36	37
PV/YP	9/9	/	/
GELS	3/5	/	/
W.L.-C.C.	8.5	9.2	
PH	9.0	9.5	
SALINITY	20,625 P.P.M.		
% SAND			

MUD MATERIALS ADDED

TYPE	AMOUNT	TYPE	AMOUNT
GEL	10 BAGS	CORR	1 WH. 2 CAN
CMC	1 BAG.		
BENEX	2 BAGS		
CAUSTIC	2 BAGS		

FOOTAGE

FROM	TO	ROT HOURS	DR-D / RM-R CORE-C	CORE NO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT. ON BIT (1000#)	PUMP (AIR) PRESS.	AIR VOL (CFM)	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN
7455	7527	7	72			40	50	2100		6	120			
								700		6	60			

DEVIATION RECORD

DEPTH	DEVIATION°	DIRECTION	DEPTH	DEVIATION°	DIRECTION	DEPTH	DEVIATION°	DIRECTION
7500	2°	S5E						

EVENING TOUR

TIME LOG FROM	TO	ELAPSED TIME	CODE	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
4:00	4:15	1/4		Rig Ser. ✓ BOPS.
4:15	10:00	5 3/4		Drlg 8 3/4 Hole.
10:00	10:45	3/4		Surv.
10:45	12:00	1 1/4		Drlg 8 3/4 Hole.
		8		

DRILLER: D. Tindall

CP-38 (10/69)

DAILY DRILLING REPORT

WELL NAME: SHELL ARCTIC RED WEST G-55

LOCATION: | PROVINCE: N. W. T.

OPERATOR: Shell Canada Limited

SIGNATURE OF OPERATOR'S REPRESENTATIVE: D. Brown

CONTRACTOR: GUSTAVSON

SIGNATURE OF CONTRACTOR'S TOOL PUSHER: Jack M Finch

RIG NO.: 11

DEPTH AT START OF MORNING TOUR	DEPTH AT END OF EVENING TOUR	DAILY PROGRESS	CUMULATIVE ROTATING HOURS	DAYS FROM SPUD	DATE MONTH	DAY	YEAR
7162	7300	138		22	4	22	71

DP. / DC. SIZE	WT. / FT.	GRADE	MIN. I.D.	TOOL JT O.D.	TYPE THREAD
4	14.	E	2 7/8	5 1/4	4 F.H.
6 3/4	10.1		2 7/8	6 3/4	5-H90

PUMP NO.	PUMP MANUFACTURER	TYPE	STROKE LENGTH
1	NAT.	8P80	8 1/2
2	NAT.	8P80	8 1/2

LAST CASING TUBING OR LINER

SIZE	WT. AND GR.	NO. OF JOINTS	FEET	KB. TO CSG. HEAD	SET AT	CEMENT USED (SACKS)	REMARKS
9 5/8	36 # J-55	38	1204		1201	886	

TIME DISTRIBUTION — HOURS

CODE NO.	OPERATION	MORN.	DAY	EVE.	TOTAL
1	RIG UP TEAR DOWN				
2	DRILLING ACTUAL	7 3/4	4 3/4	5 1/2	18
3	REAMING				
4	CORING				
5	CLEAN TO BOTTOM AND CIRCULATING			1/2	1/2
6	TRIPS		2 3/4	2	4 3/4
7	RIG SERVICE		1/4		1/4
8	RIG REPAIR				
9	CUT AND/OR SLIP LINE				
10	DEVIATION SURVEY		1/4		1/4
11	WIRE LINE LOG				
12	RUN CASING AND CEMENT				
13	WAIT ON CEMENT				
14	NIPPLE UP B.O.P.				
15	TEST B.O.P.	1/4			1/4
16	DRILL STEM TEST				
17	PLUG BACK				
18	SQUEEZE CEMENT				
19	STUCK OR FISHING				
20	HANDLE TOOLS				
21	CONDITION MUD				
22	COST CIRCULATION				
23					
24					
COMPLETION 40	PERFORATE				
COMPLETION 41	TUBING TRIPS				
COMPLETION 42	TREATING				
COMPLETION 43	SWABBING				
COMPLETION 44	TESTING				
COMPLETION 45					
60	ABANDON				
70	STANDBY				
	TOTALS	8	8	8	24
	HOURS FOR SHELL ACCOUNT	8	8	8	24
CONTRACTOR EQUIPARENTAL	BOILER # 2	8	8	8	24

Code 232 B

HOLE CONDITION

1	HOLE DRAG (1000#)	10m
2	TORQUE ON BOTTOM (DP TURNS)	3
3	FILL ON BOTTOM (FEET)	110

DRILLING ASSEMBLY NO. | CODE AT END OF TOUR

	BIT	FT.
1	BS 2 1/8 x 6 3/4	3.96
1	DM 3 x 6 13/16	14.80
1	S 1 2 1/8 x 6 3/4	4.10
1	C 0 2 1/8 x 6 3/4	2.10
	ID X OD	FT.
	ID X OD	FT.
21	DC 2 1/8 x 6 3/4	648.54
70	DP STANDS	6510.97
	DP SINGLES	2 3 , FT.
	KELLY DOWN	41.00 FT.
	TOTAL	7225.47
	WT. OF DC IN AIR	64m LBS.
	WT. OF STRING	152m LBS

BIT RECORD

BIT NO.	10
SIZE	8 3/4
MFG.	SEC.
TYPE	H88
JETS 1/32"	11 11 12
SERIAL NO.	303331
DEPTH OUT	
DEPTH IN	7048
TOTAL FTG.	177
TOTAL HRS. RUN	20 1/4
BIT CONDITION 1/8" T/B/GAGE	1N
REAMER CUTTER NO.	
REAMER TYPE	

MUD RECORD

TIME	12.00	4.00	7.30
WEIGHT	9.1	9.1	9.1
VIS.-SEC.	37	35	36
PV/YP	/	/	/
GELS	/	/	/
W.L.-C.C.	10.	9.6	9.6
PH	9.5	9.5	9.5
% SOLIDS			
% SAND			

MUD MATERIALS ADDED

TYPE	AMOUNT	TYPE	AMOUNT
GEL	— 10 SKS		
BEN-EX	— 2 SKS		

MORNING TOUR

FOOTAGE

FROM	TO	ROT HOURS	DR-D RM-R CORE-C	CORE NO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT. ON BIT (1000#)	PUMP (AIR) PRESS.	AIR VOL (CFM)	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN
7162	7225	7 3/4	63		1 BBL Witrea #41	40	50	2100		6	120	6		
								650		6	60			

DEVIATION RECORD

DEPTH	DEVIATION °	DIRECTION	DEPTH	DEVIATION °	DIRECTION	DEPTH	DEVIATION °	DIRECTION
							1/4	

TIME LOG

FROM	TO	ELAPSED TIME	CODE	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
12.00	12.15	1/4		DRILL
12.15	12.30	1/4		CHECK B.O.P. SER. RIG
12.30	8.00	7 1/2		DRILL

DRILLER: J. Howell

DRILLING ASSEMBLY NO. | CODE AT END OF TOUR

	BIT	FT.
1	BS 2 1/8 x 6 3/4	3.96 FT.
1	DM 3 x 6 13/16	14.80 FT.
1	S 1 2 1/8 x 6 3/4	4.10 FT.
1	C/O 2 1/8 x 6 3/4	2.10 FT.
	ID X OD	FT.
	ID X OD	FT.
21	DC 2 1/8 x 6 3/4	648.54 FT.
70	DP STANDS	FT
2	DP SINGLES	65.73.29 FT.
	KELLY DOWN	15.00 FT.
	TOTAL	7262.29 FT.
	WT. OF DC IN AIR	64m LBS.
	WT. OF STRING	152m LBS

BIT RECORD

BIT NO.	10	11
SIZE	8 3/4"	8 3/4"
MFG.	SEC	Smith
TYPE	H-88	556
JETS 1/32"	11 11 12	11 11 12
SERIAL NO.	303331	AG917
DEPTH OUT	7262	
DEPTH IN	7048	7262
TOTAL FTG.	214	
TOTAL HRS. RUN	25	
BIT CONDITION 1/8" T/B/GAGE	Locked	
REAMER CUTTER NO.		
REAMER TYPE		

MUD RECORD

TIME	9.00	12.00
WEIGHT	9.1	9.1
VIS.-SEC.	36	35
PV/YP	/	/
GELS	/	/
W.L.-C.C.	9.	
PH	9.5	
% SOLIDS		
% SAND		

MUD MATERIALS ADDED

TYPE	AMOUNT	TYPE	AMOUNT
	GEL — 10 BAGS		
	CMC — 1 BAG		
	BEN-EX — 2 BAGS		

DAY TOUR

FOOTAGE

FROM	TO	ROT HOURS	DR-D RM-R CORE-C	CORE NO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT. ON BIT (1000#)	PUMP (AIR) PRESS	AIR VOL (CFM)	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN
7225	7262	4 3/4	37			40	50	2100		6"	120			

DESILTER: 1 HRS H U.F. 11.0 O.F. 9.1

DEVIATION RECORD

DEPTH	DEVIATION °	DIRECTION	DEPTH	DEVIATION °	DIRECTION	DEPTH	DEVIATION °	DIRECTION
2947	1 1/4							

TIME LOG

FROM	TO	ELAPSED TIME	CODE	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
8.00	8.15	1/4		Serv Rig & Checked B.O.P
8.15	1.00	4 3/4		Drlg
1.00	1.15	1/4		Drop Survey
1.15	3.30	2 1/4		Hoist Bit #10
3.30	4.00	1/2		Picked up 3 Point Near Bit Reamer & Stock Sub

B. Russell - 2 hrs Overtime

DRILLER: E. Johnson

DRILLING ASSEMBLY NO. | CODE AT END OF TOUR

	BIT	FT.
1	R3 2 1/4 x 6 3/4	5.33 FT.
1	Dm 3 x 6 13/16	14.80 FT.
1	SS 2 x 6 3/4	8.59 FT.
1	S1 2 1/8 x 6 3/4	4.10 FT.
1	C/O 2 1/8 x 6 3/4	2.10 FT.
21	DC 2 1/8 x 6 3/4	648.54 FT.
	ID X OD	FT.
71	DP STANDS	6604.46 FT.
	DP SINGLES	FT.
	KELLY DOWN	15 FT.
	TOTAL	7300.92
	WT. OF DC IN AIR	64m LBS.
	WT. OF STRING	152m LBS

BIT RECORD

BIT NO.	11
SIZE	8 3/4
MFG.	Smith
TYPE	556
JETS 1/32"	11 11 12
SERIAL NO.	AG917
DEPTH OUT	
DEPTH IN	7262
TOTAL FTG.	38
TOTAL HRS. RUN	5 1/2
BIT CONDITION 1/8" T/B/GAGE	
REAMER CUTTER NO.	
REAMER TYPE	3 Point Bottom Hole

MUD RECORD

TIME	7.00	9.00	10.00
WEIGHT	9.1	9.1	9.1
VIS.-SEC.	38	37	35
PV/YP	8/19	/	10/17
GELS	/	/	6/
W.L.-C.C.	10.	9.8	
PH	9.0	9.5	9.5
% SOLIDS			
Chlorides	18,480		

MUD MATERIALS ADDED

TYPE	AMOUNT	TYPE	AMOUNT
GEL	10 BAGS	CORR.	
Caustic	2 BAGS	INH.	
Bentex	2 BAGS	LCM	1
CMC	4 BAGS		

EVENING TOUR

FOOTAGE

FROM	TO	ROT HOURS	DR-D RM-R CORE-C	CORE NO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT. ON BIT (1000#)	PUMP (AIR) PRESS	AIR VOL (CFM)	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN
7262	7300	5 1/2	38			40	50	2150		6	120			

DESILTER 5 1/2 hrs U.F-12.6 O.F. 9.1

DEVIATION RECORD

DEPTH	DEVIATION °	DIRECTION	DEPTH	DEVIATION °	DIRECTION	DEPTH	DEVIATION °	DIRECTION

TIME LOG

FROM	TO	ELAPSED TIME	CODE	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
4.00	6.00	2		Make up Bit & Run in w/ Bit #11
6.00	6.30	1/2		Break Circ & unplug Jet
6.30	12.00	5 1/2		Drlg 8 3/4 Hole.

DRILLER: D. Finlay

CP-38 (10/69)

DAILY DRILLING REPORT

WELL NAME: SHELL ARCTIC RED WEST G-55

LOCATION: | PROVINCE: N. W. T.

OPERATOR: Shell Canada Limited

SIGNATURE OF OPERATOR'S REPRESENTATIVE:

CONTRACTOR: GUST. AUSON

SIGNATURE OF CONTRACTOR'S TOOL PUSHER:

RIG NO.: 11

DEPTH AT START OF MORNING TOUR	DEPTH AT END OF EVENING TOUR	DAILY PROGRESS	CUMULATIVE ROTATING HOURS	DAYS FROM SPUD	DATE MONTH	DAY	YEAR
6998	7162	164	317½	21	4	21	71

DP / DC. SIZE	WT. / FT	GRADE	MIN. I.D.	TOOL JT O.D.	TYPE THREAD	PUMP NO.	PUMP MANUFACTURER	TYPE	STROKE LENGTH
4	14.	E.	2 7/8	5 1/4	4 F.H.	1	NAT	8P80	8 1/2
6 3/4	101		2 7/8	6 3/4	5 H90	2	NAT	8P80	8 1/2

LAST CASING TUBING OR LINER

SIZE	WT. AND GR.	NO. OF JOINTS	FEET	KB. TO CSG. HEAD	SET AT	CEMENT USED (SACKS)	REMARKS
9 5/8	36# K55	38	1204		1201	886	

TIME DISTRIBUTION – HOURS

CODE NO.	OPERATION	MORN.	DAY	EVE.	TOTAL
1	RIG UP TEAR DOWN				
2	DRILLING ACTUAL	4¼	4¾	7¾	16¾
3	REAMING				
4	CORING				
5	CLEAN TO BOTTOM AND CIRCULATING		½		½
6	TRIPS	3	1¾		4¾
7	RIG SERVICE		¼	¼	½
8	RIG REPAIR				
9	CUT AND/OR SLIP LINE		½		½
10	DEVIATION SURVEY				
11	[illegible] LOG				
12	RUN CASING AND CEMENT				
13	WAIT ON CEMENT				
14	NIPPLE UP B.O.P.				
15	TEST B.O.P.	¼	¼		½
16	DRILL STEM TEST				
17	PLUG BACK				
18	SQUEEZE CEMENT				
19	STUCK OR FISHING				
20	HANDLE TOOLS				
21	CONDITION MUD				
22	[illegible] CIRCULATION				
23	CHECK MUD	½			½
24					
COMPLETION 40	PERFORATE				
COMPLETION 41	TUBING TRIPS				
COMPLETION 42	TREATING				
COMPLETION 43	SWABBING				
COMPLETION 44	TESTING				
COMPLETION 45					
60	ABANDON				
70	STANDBY				
	TOTALS	8	8	8	24
	HOURS FOR SHELL ACCOUNT	8	8	8	24
EQUIP. RENTAL CONTRACTOR	BOILER #1	8	8	8	24

Code 232B.

HOLE CONDITION

1	HOLE DRAG (1000#)	
2	TORQUE ON BOTTOM (DP TURNS)	
3	FILL ON BOTTOM (FEET)	

DRILLING ASSEMBLY AT END OF TOUR

NO	CODE	BIT	ID	OD	FT.
1	BS	2 7/8 x 6 3/4			3.96 FT.
1	DM	3 x 6 5/16			14.80 FT.
1	SI	2 7/8 x 6 3/4			4.10 FT.
1	C/O	2 7/8 x 6 3/4			2.10 FT.
			ID	OD	
		X			FT.
			ID	OD	
		X			FT.
21	DC	2 7/8 x 6 3/4			648.54 FT.
68	DP	STANDS			6355.66 FT.
1	DP	SINGLES			FT.
		KELLY DOWN			19.00 FT.
		TOTAL			7049.16 FT.
		WT. OF DC IN AIR			64m LBS.
		WT. OF STRING			148m LBS.

BIT RECORD

BIT NO.	9	10
SIZE	8 3/4	8 3/4
MFG.	H.W. SEC	
TYPE	X55R	H88
JETS 1/32"	11 11 12	11 11 12
SERIAL NO.	29637	
DEPTH OUT	7048	
DEPTH IN	6855	
TOTAL FTG.	193	
TOTAL HRS. RUN	18½	
BIT CONDITION 1/8" T/B/GAGE	8 4 0	
REAMER CUTTER NO.		
REAMER TYPE		

MUD RECORD

TIME	12.00	4.00
WEIGHT	9.3	
VIS.-SEC.	36	
PV / YP	/	/
GELS	/	/
W.L.-C.C.	10	
PH	9.5	
% SOLIDS		
% SAND		

MUD MATERIALS ADDED

TYPE	AMOUNT	TYPE	AMOUNT

MORNING TOUR

FOOTAGE

FROM	TO	ROT HOURS	DR-D RM-R CORE-C	CORE NO.	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT. ON BIT (1000#)	PUMP (AIR) PRESS	AIR VOL (CFM)	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN
6998	7048	4¼	50			40	50	2100		6	120			

DEVIATION RECORD

DEPTH	DEVIATION°	DIRECTION	DEPTH	DEVIATION°	DIRECTION	DEPTH	DEVIATION°	DIRECTION

TIME LOG

FROM	TO	ELAPSED TIME	CODE	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
12.00	12.30	½		DRILL HELD B.O.P. DRILL
12.30	12.45	¼		CHECK B.O.P SER. RIG.
12.45	4.30	3¾		DRILL
4.30	5.00	½		CHECK MUD (LOST 20 BBLS MUD)
5.00	7.30	2½		PULL OUT
7.30	8.00	½		BLIND RAMS ~~[illegible]~~ CHANGE STAB. BLADES.

DRILLER

DRILLING ASSEMBLY AT END OF TOUR

NO	CODE	BIT	ID	OD	FT.
1	BS	2 7/8 x 6 3/4			3.96 FT.
1	DM	3 x 6 5/16			14.80 FT.
1	SI	2 7/8 x 6 3/4			4.10 FT.
1	C/O	2 7/8 x 6 3/4			2.10 FT.
			ID	OD	
		X			FT.
			ID	OD	
		X			FT.
21	DC	2 7/8 x 6 3/4			648.54 FT.
68	DP	STANDS			FT.
2	DP	SINGLES			638.83 FT.
		KELLY DOWN			32.00 FT.
		TOTAL			7092.33 FT.
		WT. OF DC IN AIR			64m LBS.
		WT. OF STRING			150m LBS.

BIT RECORD

BIT NO.	10	
SIZE	8¾"	
MFG.	SEC	
TYPE	M88	
JETS 1/32"	11 11 12	
SERIAL NO.	303331	
DEPTH OUT		
DEPTH IN	7048	
TOTAL FTG.	44'	
TOTAL HRS. RUN	4¾	
BIT CONDITION 1/8" T/B/GAGE		
REAMER CUTTER NO.		
REAMER TYPE	Bottom Blades	

MUD RECORD

TIME		12.00 3.00
WEIGHT		9.2 9.2
VIS.-SEC		36 35
PV / YP	/	/ /
GELS	/	/ /
W.L.-C.C.		9.8
PH		9.5
% SOLIDS	Salinity 18,500 PPM.	
% SAND		

MUD MATERIALS ADDED

TYPE	AMOUNT	TYPE	AMOUNT
~~Gel~~			
~~Caus~~			
~~Benex~~			

DAY TOUR

FOOTAGE

FROM	TO	ROT HOURS	DR-D RM-R CORE-C	CORE NO.	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT. ON BIT (1000#)	PUMP (AIR) PRESS	AIR VOL (CFM)	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN
7048	7092	4¾	44			40	50	2100		6"	120	6"	120	

DESILTER U.F. 10.5 O.F. 9.2 3 HRS.

DEVIATION RECORD

DEPTH	DEVIATION°	DIRECTION	DEPTH	DEVIATION°	DIRECTION	DEPTH	DEVIATION°	DIRECTION

TIME LOG

FROM	TO	ELAPSED TIME	CODE	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
8.00				Finished Changing Blades on Stab. Serv Rig &
	8.30	½		Checked B.O.P.
8.30	9.00	½		Ran in D.C. B. RUSSELL
9.00	9.30	½		Slip & Cut Drlg Line 2 HRS O.T.
9.30	10.45	1¼		Ran in
10.45	11.15	½		Cleaned out To Bottom
11.15	4.00	4¾		Drlg 8¾" Hole

DRILLER E. Johnson

DRILLING ASSEMBLY AT END OF TOUR

NO	CODE	BIT	ID	OD	FT.
1	BS	2 7/8 x 6 3/4			3.96 FT.
1	DM	3 x 6 5/16			14.80 FT.
1	SI	2 7/8 x 6 3/4			4.10 FT.
1	C/O	2 7/8 x 6 3/4			2.10 FT.
			ID	OD	
		X			FT.
			ID	OD	
		X			FT.
21	DC	2 7/8 x 6 3/4			648.54 FT.
69	DP	STANDS			FT.
1	DP	SINGLES			644.53 FT.
		KELLY DOWN			40.00 FT.
		TOTAL			7162.23 FT.
		WT. OF DC IN AIR			64m LBS.
		WT. OF STRING			150m LBS.

BIT RECORD

BIT NO.	10	
SIZE	8¾	
MFG.	SEC	
TYPE	M88	
JETS 1/32"	11 11 12	
SERIAL NO.	303331	
DEPTH OUT		
DEPTH IN	7048	
TOTAL FTG.	114	
TOTAL HRS. RUN	12½	
BIT CONDITION 1/8" T/B/GAGE	ND	
REAMER CUTTER NO.		
REAMER TYPE		

MUD RECORD

TIME	4.30	8.00
WEIGHT	9.2	9.1
VIS.-SEC	36	39
PV / YP	/	8/9
GELS	/	/
W.L.-C.C.	9.0	8.9
PH	9.0	8.5
% SOLIDS	6%	
% SAND		

MUD MATERIALS ADDED

TYPE	AMOUNT	TYPE	AMOUNT
GEL	10 SAX		
C.MC	3 SAX		
BENEX	2 SAX		
CAUSTIC	2 SAX		

EVENING TOUR

FOOTAGE

FROM	TO	ROT HOURS	DR-D RM-R CORE-C	CORE NO.	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT. ON BIT (1000#)	PUMP (AIR) PRESS	AIR VOL (CFM)	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN
7092	7162	7¾	70			40	50	2100		6	120			
								600		6	60			

DEVIATION RECORD

DEPTH	DEVIATION°	DIRECTION	DEPTH	DEVIATION°	DIRECTION	DEPTH	DEVIATION°	DIRECTION

TIME LOG

FROM	TO	ELAPSED TIME	CODE	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
4.00	4.15	¼		Rig SER / BOPs (HELD B.O.P. DRLg)
4.15	12.00	7¾		DRLg 8¾ HOLE.
		8		

DRILLER D. Lundall

CP-38 (10/69)

DAILY DRILLING REPORT

WELL NAME: SHELL ARCTIC RED WEST G-55

LOCATION: PROVINCE: N. W. T.

OPERATOR: Shell Canada Limited — SIGNATURE OF OPERATOR'S REPRESENTATIVE: L. Brown

CONTRACTOR: GUSTAVSON — SIGNATURE OF CONTRACTOR'S TOOL PUSHER: [signature]

RIG NO.: 11

DEPTH AT START OF MORNING TOUR	DEPTH AT END OF EVENING TOUR	DAILY PROGRESS	CUMULATIVE ROTATING HOURS	DAYS FROM SPUD	DATE MONTH	DAY	YEAR
6809	6998	189	305	20	4	20	71

DP / DC. SIZE	WT / FT	GRADE	MIN I.D.	TOOL JT O.D.	TYPE THREAD	PUMP NO.	PUMP MANUFACTURER	TYPE	STROKE LENGTH
4	14.	E	2 7/8	5 1/4	4 F.H	1	NAT.	8P80	8 1/2
6 3/4	101		2 7/8	6 3/4	5 H90	2	NAT.	8P80	8 1/2

LAST CASING TUBING OR LINER

SIZE	WT. AND GR.	NO. OF JOINTS	FEET	KB TO CSG. HEAD	SET AT	CEMENT USED (SACKS)	REMARKS
9 5/8	36# K55	38	1204		1201	886	

TIME DISTRIBUTION — HOURS

CODE NO.	OPERATION	MORN.	DAY	EVE	TOTAL
1	RIG UP TEAR DOWN				
2	DRILLING ACTUAL	4 1/4	6 1/2	7 3/4	18 1/2
3	REAMING				
4	CORING				
5	CLEAN TO BOTTOM AND CIRCULATING				
6	TRIPS	3	3/4		3 3/4
7	RIG SERVICE		1/4	1/4	1/2
8	RIG REPAIR				
9	CUT AND/OR SLIP LINE				
10	DEVIATION SURVEY	1/2	1/2		1
11	[illegible] LOG				
12	RUN CASING AND CEMENT				
13	WAIT ON CEMENT				
14	NIPPLE UP B.O.P.				
15	TEST B.O.P.	1/4			1/4
16	DRILL STEM TEST				
17	PLUG BACK				
18	SQUEEZE CEMENT				
19	STUCK OR FISHING				
20	HANDLE TOOLS				
21	CONDITION MUD				
22	[illegible] CIRCULATION				
23					
24					
COMPLETION 40	PERFORATE				
COMPLETION 41	TUBING TRIPS				
COMPLETION 42	TREATING				
COMPLETION 43	SWABBING				
COMPLETION 44	TESTING				
COMPLETION 45					
60	ABANDON				
70	STANDBY				
	TOTALS	8	8	8	24
	HOURS FOR SHELL ACCOUNT	8	8	8	24
CONTRACTOR EQUIP RENTAL	BOILER #	1	8	8	8	24

Code 232 B.

HOLE CONDITION

1	HOLE DRAG (1000#)	5M
2	TORQUE ON BOTTOM (DP TURNS)	
3	FILL ON BOTTOM (FT)	N.I.

DRILLING ASSEMBLY AT END OF TOUR

NO	CODE	BIT	FT
1	BS	2 7/8 x 6 3/4 OD	3.96
1	DM	3 x 6 1/4 OD	14.80
1	S	2 7/8 x 6 3/4 OD	4.10
1	C	2 7/8 x 6 3/4 OD	2.10
		ID x OD	
		ID x OD	
21	DC	2 7/8 x 6 3/4 OD	646.54
66	DP	STANDS	6169.80
1	DP	SINGLES	
		KELLY DOWN	12.00
		TOTAL	6855.30
		WT. OF DC IN AIR	64 M LBS.
		WT. OF STRING	146 M LBS.

BIT RECORD

BIT NO.	8
SIZE	8 3/4
MFG.	SEC.
TYPE	M88 X55R
JETS 1/32"	11 11 11 11 11 12
SERIAL NO.	391681 29637
DEPTH OUT	6855
DEPTH IN	6451
TOTAL FTG.	404
TOTAL HRS. RUN	43
BIT CONDITION 1/8" T/B/GAGE	8 7 0
REAMER CUTTER NO.	
REAMER TYPE	

MUD RECORD

TIME	12.00		
WEIGHT	9.2		
VIS -SEC.	35		
PV/YP	/	/	/
GELS	/	/	/
W.L.-C.C.	10.0		
PH	10.0		
% SOLIDS			
% SAND			

MUD MATERIALS ADDED

TYPE	AMOUNT	TYPE	AMOUNT
CAUSTIC -	3 SKS		
BARITE	100 SKS		

FOOTAGE

FROM	TO	ROT HOURS	DR-D RM-R CORE-C	CORE NO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT ON BIT (1000#)	PUMP (AIR) PRESS	AIR VOL (CFM)	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN
6809	6855	4 3/4	46			40	50	2100		6	120	6		
								625		6	60			

DEVIATION RECORD: 6840

MORNING TOUR

TIME LOG

FROM	TO	ELAPSED TIME	CODE	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
12.00	12.45	3/4		DRILL
12.45	1.00	1/4		CHECK B. O. P. SER. RIG
1.00	4.30	3 1/2		DRILL
4.30	6.45	2 1/4		SURVEY PULL OUT
6.45	8.00	1 1/4		BLIND RAMS CHANGE BIT RUN IN

DRILLER: J. Howell

DRILLING ASSEMBLY AT END OF TOUR

NO	CODE	BIT	FT
1	BS	2 7/8 x 6 3/4 OD	3.96
1	DM	3 x 6 1/4 OD	14.80
1	S	2 7/8 x 6 3/4 OD	4.10
1	C	2 7/8 x 6 3/4 OD	2.10
		ID x OD	
		ID x OD	
21	DC	2 7/8 x 6 3/4 OD	648.54
66	DP	STANDS	
2	DP	SINGLES	6201.80
		KELLY DOWN	40.80
		TOTAL	6914.50
		WT. OF DC IN AIR	64 M LBS.
		WT. OF STRING	148 M LBS.

BIT RECORD

BIT NO.	9
SIZE	8 3/4
MFG.	H.W.
TYPE	X55R
JETS 1/32"	11 11 12
SERIAL NO.	29637
DEPTH OUT	
DEPTH IN	6855
TOTAL FTG.	69'
TOTAL HRS. RUN	6 1/2
BIT CONDITION 1/8" T/B/GAGE	IN
REAMER CUTTER NO.	
REAMER TYPE	

MUD RECORD

TIME	10 00	12 00	3
WEIGHT	9.2	9.2	9.2
VIS -SEC	36	35	35
PV/YP	/	/	/
GELS	/	/	/
W.L.-C.C	10.6		
PH	9.5		
% SOLIDS			
% SAND			

MUD MATERIALS ADDED

TYPE	AMOUNT	TYPE	AMOUNT
GEL -	16 BAGS		
CMC -	1 BAG		
BENEX -	2 BAGS		

FOOTAGE

FROM	TO	ROT HOURS	DR-D RM-R CORE-C	CORE NO.	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT ON BIT (1000#)	PUMP PRESS	AIR VOL (CFM)	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN
6855	6914	6 1/2	69'			40	40	2100		6"	120	6"		5

DEVIATION RECORD: 6873' — 1° — S72E

DAY TOUR

TIME LOG

FROM	TO	ELAPSED TIME	CODE	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
8 00	8 15	1/4		Serv Rig & Checked B.O.P
8 15	9 00	3/4		Finished in w/ Bit #9 (No Fill on Bottom)
9 00	12 30	3 1/2		Drlg
12 30	1 00	1/2		Ran Directional Survey
1 00	4 00	3		Drlg
		8		B. Russell 2 Hrs O.T.

DRILLER: E. Johnson

DRILLING ASSEMBLY AT END OF TOUR

NO	CODE	BIT	FT
1	BS	2 7/8 x 6 3/4 OD	3.96
1	DM	3 x 6 1/4 OD	14.80
1	S	2 7/8 x 6 3/4 OD	4.10
1	C	2 7/8 x 6 3/4 OD	2.10
		ID x OD	
		ID x OD	
21	DC	2 7/8 x 6 3/4 OD	648.54
67	DP	STANDS	
2	DP	SINGLES	6294.07
		KELLY DOWN	40.00
		TOTAL	6998.57
		WT. OF DC IN AIR	64 M LBS.
		WT. OF STRING	148 M LBS.

BIT RECORD

BIT NO.	9
SIZE	8 3/4
MFG.	H.W.
TYPE	X55R
JETS 1/32"	11 11 12
SERIAL NO.	29637
DEPTH OUT	
DEPTH IN	6855
TOTAL FTG.	143.
TOTAL HRS. RUN	14 1/4
BIT CONDITION 1/8" T/B/GAGE	
REAMER CUTTER NO.	
REAMER TYPE	

MUD RECORD

TIME	4 00	8.00	11:30
WEIGHT	9.2	9.2	9.3
VIS -SEC	35	37	36
PV/YP	/	/	/
GELS	/	/	/
W.L.-C.C	10.8	9.2	10.
PH	9.5	9.5	9.5
% SOLIDS			
% SAND			

MUD MATERIALS ADDED

TYPE	AMOUNT	TYPE	AMOUNT
GEL -		25	
BENEX -		6	
CMC -		4	

FOOTAGE

FROM	TO	ROT HOURS	DR-D RM-R CORE-C	CORE NO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT ON BIT (1000#)	PUMP (AIR) PRESS	AIR VOL (CFM)	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN
6914	6998	7 3/4	84'			40	50	2100		6	120			
								850		6	60			

DEVIATION RECORD:

EVENING TOUR

TIME LOG

FROM	TO	ELAPSED TIME	CODE	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
4 00	4 15	1/4		Rig Ser / BOPs.
4 15	12 00	7 3/4		Drlg.

DRILLER: D. Lundall

CP-38 (10/69)

DAILY DRILLING REPORT

WELL NAME: SHELL ARCTIC RED WEST
LOCATION: 6-55 | PROVINCE: N. W. T

OPERATOR: Shell Canada Limited
SIGNATURE OF OPERATOR'S REPRESENTATIVE: A. Brown

CONTRACTOR: GUSTAUSON | RIG NO.: 11
SIGNATURE OF CONTRACTOR'S TOOL PUSHER: Jack McLeod

DEPTH AT START OF MORNING TOUR	DEPTH AT END OF EVENING TOUR	DAILY PROGRESS	CUMULATIVE ROTATING HOURS	DAYS FROM SPUD	DATE MONTH	DAY	YEAR
6586	6809	223		19	4	19	71

DP./DC SIZE	WT./FT	GRADE	MIN I.D.	TOOL JT O.D.	TYPE THREAD
4	14.	E	2 7/8	5 1/4	4 F.H.
6 3/4	101		3 1/8	6 3/4	5 H90

PUMP NO.	PUMP MANUFACTURER	TYPE	STROKE LENGTH
1	NAT.	8P80	8"
2	NAT	8P80	8"

LAST CASING TUBING OR LINER	SIZE	WT. AND GR.	NO. OF JOINTS	FEET	KB. TO CSG. HEAD	SET AT	CEMENT USED (SACKS)	REMARKS
	9 5/8	36 # K55	38	1204		1201	886	

TIME DISTRIBUTION — HOURS

CODE NO.	OPERATION	MORN.	DAY	EVE	TOTAL
1	RIG UP TEAR DOWN				
2	DRILLING ACTUAL	7 3/4	7 3/4	7 3/4	23 1/4
3	REAMING				
4	CORING				
5	CLEAN TO BOTTOM AND CIRCULATING				
6	TRIPS				
7	RIG SERVICE		1/4	1/4	1/2
8	RIG REPAIR				
9	CUT AND/OR SLIP LINE				
10	DEVIATION SURVEY				
11	WIRE LINE LOG				
12	RUN CASING AND CEMENT				
13	WAIT ON CEMENT				
14	NIPPLE UP B.O.P.				
15	TEST B.O.P.	1/4	✓		1/4
16	DRILL STEM TEST				
17	PLUG BACK				
18	SQUEEZE CEMENT				
19	STUCK OR FISHING				
20	HANDLE TOOLS				
21	CONDITION MUD				
22	POST CIRCULATION				
23					
24					
COMPLETION 40	PERFORATE				
COMPLETION 41	TUBING TRIPS				
COMPLETION 42	TREATING				
COMPLETION 43	SWABBING				
COMPLETION 44	TESTING				
COMPLETION 45					
60	ABANDON				
70	STANDBY				
	TOTALS	8	8	8	24
	HOURS FOR SHELL ACCOUNT	8	8	8	24
CONTRACTOR EQUIPMENT RENTAL	BOILER # 1	8	8	8	
	Code 232 B,				

HOLE CONDITION

1	HOLE DRAG (1000#)
2	TORQUE ON BOTTOM (DP TURNS)
3	FILL ON BOTTOM (FEET)

MORNING TOUR

DRILLING ASSEMBLY AT END OF TOUR

NO	CODE	BIT	ID	OD	FT
1	BS		2 7/8	6 3/4	3.96 FT.
1	Om		3	6 7/16	14.80 FT.
1	SI		2 7/8	6 3/4	4.10 FT.
1	CO		2 7/8	6 3/4	2.10 FT.
			X		FT.
			X		FT.
21	DC		2 7/8	6 3/4	648.54 FT.
64	DP	STANDS			5952.18 FT.
	DP	SINGLES			FT.
KELLY DOWN					28.00
TOTAL					6653.68
WT. OF DC IN AIR					64M LBS.
WT. OF STRING					145M LBS

BIT RECORD

BIT NO.	8
SIZE	8 3/4
MFG.	SEC
TYPE	M88
JETS 1/32"	11 11 11
SERIAL NO.	341681
DEPTH OUT	
DEPTH IN	6451
TOTAL FTG.	202
TOTAL HRS. RUN	28 1/4 21 3/4
BIT CONDITION 1/8" T/B/GAGE	1 N
REAMER CUTTER NO.	
REAMER TYPE	

MUD RECORD

TIME	12:00	4:00
WEIGHT	9.2	9.2
VIS.-SEC.	36	35
PV/YP	/	/
GELS	/	/
W.L.-C.C.	10	10.2
PH	9.5	9
% SOLIDS		
% SAND		

MUD MATERIALS ADDED

TYPE	AMOUNT	TYPE	AMOUNT
CAUSTIC	25 KS		
C.M.C.	15 K		

FOOTAGE

FROM	TO	ROT HOURS	DR-D RM-R CORE-C	CORE NO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT ON BIT (1000#)	PUMP (AIR) PRESS	AIR VOL (CFM)	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN
6586	6653	7 3/4	67			40	50	2100		6	120	6		
								675		6	60			

DEVIATION RECORD

DEPTH	DEVIATION°	DIRECTION	DEPTH	DEVIATION°	DIRECTION	DEPTH	DEVIATION°	DIRECTION

TIME LOG

FROM	TO	ELAPSED TIME	CODE	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
12.00	1.15	1 1/4		DRILL
1.15	1.30	1/4		CHECK B.O.P. RIG SER.
1.30	8.00	6 1/2		DRILL

DRILLER: J. Hamel

DAY TOUR

DRILLING ASSEMBLY AT END OF TOUR

NO	CODE	BIT	ID	OD	FT
1	BS		2 7/8	6 3/4	3.96 FT.
1	OM	5"		4 1/4	14.80 FT.
1	SI		2 7/8	6 3/4	4.10 FT.
1	CO		2 7/8	6 3/4	2.10 FT.
			X		FT.
			X		FT.
21	D.C.		2 7/8	6 3/4	648.54 FT.
64	DP	STANDS			FT
2	DP	SINGLES			604.48 FT.
KELLY DOWN					41.00 FT.
TOTAL					6728.98 FT.
WT. OF DC IN AIR					64M LBS.
WT. OF STRING					146M LBS.

BIT RECORD

BIT NO.	8
SIZE	8 3/4"
MFG.	SEC
TYPE	M88
JETS 1/...	11 11 11
SERIAL NO.	341681
DEPTH OUT	
DEPTH IN	6451
TOTAL FTG.	277'
TOTAL HRS. RUN	29 1/2 29 1/2
BIT CONDITION 1/8" T/B/GAGE	IN
REAMER CUTTER NO.	
REAMER TYPE	

MUD RECORD

TIME	8	12	5
WEIGHT	9.2	9.2	9.3
VIS.-SEC.	35	35	34
PV/YP	/	/	/
GELS	/	/	/
W.L.-C.C.	9.4		
PH	9.5		
% SOLIDS			
% SAND			

MUD MATERIALS ADDED

TYPE	AMOUNT	TYPE	AMOUNT
GEL	10 BAGS		
CMC	1 BAG		
KIENEX	2 BAGS		

FOOTAGE

FROM	TO	ROT HOURS	DR-D RM-R CORE-C	CORE NO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT ON BIT (1000#)	PUMP (AIR) PRESS	AIR VOL (CFM)	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN
6653'	6728	7 3/4	75"		1 BBL. Vitrea 41	40	50	2100		6"	120	6"	120	S
					1 Pail Jet Lube									
					DESILTER 2 HRS. U.F.			G.F.						

DEVIATION RECORD

DEPTH	DEVIATION°	DIRECTION	DEPTH	DEVIATION°	DIRECTION	DEPTH	DEVIATION°	DIRECTION

TIME LOG

FROM	TO	ELAPSED TIME	CODE	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
8.00	8.15	1/4		Serv Rig & Checked B.O.P.
8.15	4.00	7 3/4		Drlg.
				Held B.O.P Drlg.

DRILLER: L. Johnston

EVENING TOUR

DRILLING ASSEMBLY AT END OF TOUR

NO	CODE	BIT	ID	OD	FT
1	BS		2 7/8	6 3/4	3.96 FT.
1	DM	3		6 15/16	14.80 FT.
1	SI		2 7/8	6 3/4	4.10 FT.
1	CO		2 7/8	6 3/4	2.10 FT.
			X		FT.
21	DC		2 7/8	6 3/4	648.54 FT.
65	DP	STANDS			FT.
2	DP	SINGLES			610.38 FT.
KELLY DOWN					29.00 FT.
TOTAL					6809.88
WT. OF DC IN AIR					64M LBS.
WT. OF STRING					149M LBS.

BIT RECORD

BIT NO.	8
SIZE	8 3/4
MFG.	SEC
TYPE	M88
JETS 1/32"	11 11 11
SERIAL NO.	341681
DEPTH OUT	
DEPTH IN	6451
TOTAL FTG.	358
TOTAL HRS. RUN	37 1/4 37 1/4
BIT CONDITION 1/8" T/B/GAGE	
REAMER CUTTER NO.	
REAMER TYPE	

MUD RECORD

TIME	4	8:00	10.30
WEIGHT	9.3	9.2	9.3
VIS.-SEC.	34	37	3.5
PV/YP	/	/	/
GELS	/	/	/
W.L.-C.C.	10.0	10	10
PH	9.5	9.5	9.5
% SOLIDS			
% SAND			

MUD MATERIALS ADDED

TYPE	AMOUNT	TYPE	AMOUNT
GEL	10 SKS		
BEN-EX	2 SKS		
BARITE	160 SAXS		

FOOTAGE

FROM	TO	ROT HOURS	DR-D RM-R CORE-C	CORE NO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT ON BIT (1000#)	PUMP (AIR) PRESS	AIR VOL (CFM)	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN
6728	6809	7 3/4	81			40	50	2100		6	120			
								700		6	60			

DEVIATION RECORD

DEPTH	DEVIATION°	DIRECTION	DEPTH	DEVIATION°	DIRECTION	DEPTH	DEVIATION°	DIRECTION

TIME LOG

FROM	TO	ELAPSED TIME	CODE	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
4.00	4.15	1/4		Rig Ser / BOPs.
4.15	12.00	7 3/4		Drlg 8 3/4 Hole.
		8		

DRILLER: D. Lindall

CP-38 (10/69)

DAILY DRILLING REPORT

WELL NAME: SHELL ARCTIC RED WEST G-55

LOCATION: G-55 | PROVINCE: N.W.T.

OPERATOR: Shell Canada Limited

SIGNATURE OF OPERATOR'S REPRESENTATIVE: D. Brown

CONTRACTOR: GUSTAVSON | RIG NO.: 11

SIGNATURE OF CONTRACTOR'S TOOL PUSHER: [signature]

DEPTH AT START OF MORNING TOUR	DEPTH AT END OF EVENING TOUR	DAILY PROGRESS	CUMULATIVE ROTATING HOURS	DAYS FROM SPUD	DATE MONTH	DAY	YEAR
6400	6586	186	261¼	18	4	18	71

DP / DC SIZE	WT / FT	GRADE	MIN I.D.	TOOL JT O.D.	TYPE THREAD
4	14	E	2 7/8	5 1/4	4 F.H.
6 3/4	10.1		2 7/8	6 3/4	5 H90

PUMP NO.	PUMP MANUFACTURER	TYPE	STROKE LENGTH
1	NAT.	8 P 80	8 1/2
2	NAT.	8 P 80	8 1/2

LAST CASING TUBING OR LINER	SIZE	WT. AND GR.	NO. OF JOINTS	FEET	KB. TO CSG. HEAD	SET AT	CEMENT USED (SACKS)	REMARKS
	9 5/8	36 E N55	38	1204		1201	886	

TIME DISTRIBUTION — HOURS

CODE NO.	OPERATION	MORN.	DAY	EVE.	TOTAL
1	RIG UP TEAR DOWN				
2	DRILLING ACTUAL	4	6¼	7¾	18
3	REAMING				
4	CORING				
5	CLEAN TO BOTTOM AND CIRCULATING				
6	TRIPS	3¼	1¼		4½
7	RIG SERVICE		¼	¼	½
8	RIG REPAIR				
9	CUT AND/OR SLIP LINE		¼		½
10	DEVIATION SURVEY	½			½
11	[illegible] LINE LOG				
12	RUN CASING AND CEMENT				
13	WAIT ON CEMENT				
14	NIPPLE UP B.O.P.				
15	TEST B.O.P.	¼			¼
16	DRILL STEM TEST				
17	PLUG BACK				
18	SQUEEZE CEMENT				
19	STUCK OR FISHING				
20	HANDLE TOOLS				
21	CONDITION MUD				
22	[illegible] CIRCULATION				
23					
24					
COMPLETION 40	PERFORATE				
COMPLETION 41	TUBING TRIPS				
COMPLETION 42	TREATING				
COMPLETION 43	SWABBING				
COMPLETION 44	TESTING				
COMPLETION 45					
60	ABANDON				
70	STANDBY				
	TOTALS	8	8	8	24
	HOURS FOR SHELL ACCOUNT	8	8	8	24
CONTRACTOR EQUIP RENTAL	BOILER #1	8	8	8	24

Code 232 B

HOLE CONDITION

1	HOLE DRAG (1000#)
2	TORQUE ON BOTTOM (DP TURNS)
3	FILL ON BOTTOM (FEET)

DRILLING ASSEMBLY NO. | CODE AT END OF TOUR

	BIT		FT.
1	BS 2 7/8 ID x 6 3/4 OD		3.96 FT.
1	S 2 ID x 6 3/4 OD		8.50
1	DM 3 ID x 8 1/16 OD		14.80
1	S 1 2 7/8 ID x 6 3/4 OD		4.10
1	C 0 2 7/8 ID x 6 3/4 OD		2.10
	ID X OD		FT.
21	DC 2 7/8 ID x 6 3/4 OD		648.54 FT.
12	DP	STANDS	5736.43 FT
2	DP	SINGLES	FT.
	KELLY DOWN		33. FT.
	TOTAL		6451.43
	WT. OF DC IN AIR		64 LBS.
	WT. OF STRING		144M LBS

BIT RECORD

BIT NO.	7	8
SIZE	8 3/4	8 3/4
MFG.	SEC.	SEC.
TYPE	M88	M88
JETS 1/32"	11 11 11 11 11 11	
SERIAL NO.	340943	341681
DEPTH OUT	6451	
DEPTH IN	5998	6451
TOTAL FTG.	453	
TOTAL HRS. RUN	40¾	
BIT CONDITION 1/8" T/B/GAGE	8 6 0	
REAMER CUTTER NO.		
REAMER TYPE		

MUD RECORD

TIME	12.00	4.00
WEIGHT	9.2	9.3
VIS-SEC	35	34
PV/YP	/	/
GELS	/	/
W L-C C	11.6	
PH	9.5	9.5
% SOLIDS	SALINITY 27000	
% SAND	PPM.	

MUD MATERIALS ADDED

TYPE	AMOUNT	TYPE	AMOUNT

MORNING TOUR

FOOTAGE

FROM	TO	ROT HOURS	DR-D RM-R CORE-C	CORE NO	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	WT ON BIT (1000#)	PUMP (AIR) PRESS	AIR VOL (CFM)	PUMP NO 1 LINER SIZE	PUMP NO 1 SPM	PUMP NO 2 LINER SIZE	PUMP NO 2 SPM	METHOD PUMPS RUN
6400	6451	4	51			40	50	2000		6	120	6		
								650		6	60			

DEVIATION RECORD	DEPTH	DEVIATION°	DIRECTION	DEPTH	DEVIATION°	DIRECTION	DEPTH	DEVIATION°	DIRECTION
	6440	1¼	S 52 E						

TIME LOG FROM	TO	ELAPSED TIME	CODE	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
12.00	12.15	¼		CHECK B. O. P. RIG SER.
12.15	4.15	4		DRILL
4.15	6.45	2¾	DROP	SURVEY PULL OUT
6.45	8.00	1¼		LAY DOWN S.S. RUN IN O. C.
				CHECKED BLIND RAMS
				HELD B. O. P. MEETING.

DRILLER J. Howard

DRILLING ASSEMBLY NO. | CODE AT END OF TOUR

	BIT		FT.
1	BS 2 7/8 ID x 6 3/4 OD		3.96 FT.
1	DM 3" ID x 6 3/4 OD		14.80 FT.
1	S.1 2 7/8 ID x 6 3/4 OD		4.10 FT.
1	C/O 2 7/8 ID x 6 3/4 OD		2.10 FT.
	ID X OD		FT.
	ID X OD		FT.
21	DC 2 7/8 ID x 6 3/4 OD		648.54 FT.
12	DP	STANDS	FT
1	DP	SINGLES	5799.99 FT
	KELLY DOWN		34.00 FT
	TOTAL		6505.49 FT.
	WT. OF DC IN AIR		64M LBS.
	WT. OF STRING		144M LBS

BIT RECORD

BIT NO.	8	
SIZE	8 3/4	
MFG.	SEC	
TYPE	M88	
JETS 1/32"	11 11 11	
SERIAL NO.	341681	
DEPTH OUT		
DEPTH IN	6451	
TOTAL FTG.	54'	
TOTAL HRS. RUN	6¼	
BIT CONDITION 1/8" T/B/GAGE	IN	
REAMER CUTTER NO.		
REAMER TYPE		

MUD RECORD

TIME		10.00	2
WEIGHT		9.2	9.2
VIS-SEC		35	34
PV/YP	/	/	/
GELS	/	/	/
W L-C C		10.	9.
PH		9.	9.5
% SOLIDS			
% SAND			

MUD MATERIALS ADDED

TYPE	AMOUNT	TYPE	AMOUNT
CMC-	2	Bags	
Caustic-	2	Bags	
Form-Trol-	2	cans	

DAYTOUR

FOOTAGE

FROM	TO	ROT HOURS	DR-D RM-R CORE-C	CORE NO	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	WT ON BIT (1000#)	PUMP (AIR) PRESS	AIR VOL (CFM)	PUMP NO 1 LINER SIZE	PUMP NO 1 SPM	PUMP NO 2 LINER SIZE	PUMP NO 2 SPM	METHOD PUMPS RUN
6451	6505	6¾	54'			40	50	2100		6"	121	6"		

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

TIME LOG FROM	TO	ELAPSED TIME	CODE	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
8.00				Slipped Drlg Line Checked Remote Control & Serv Rig
	8.30	½		
8.30	9.45	1¼		Run in (No Fill)
9.45	4.00	6¼		Drill 8¾" Hole
		8		

B. Russell 3 HRS O.T.

DRILLER L. Johnson

DRILLING ASSEMBLY NO. | CODE AT END OF TOUR

	BIT		FT.
1	BS 2 7/8 ID x 6 3/4 OD		3.96 FT.
1	DM 3 ID x 6 3/4 OD		14.80 FT.
1	S1 2 7/8 ID x 6 3/4 OD		4.10 FT.
1	C/O 2 7/8 ID x 6 3/4 OD		2.10 FT.
	ID X OD		FT.
	ID X OD		FT.
21	DC 2 7/8 ID x 6 3/4 OD		648.54 FT.
13	DP	STANDS	FT
1	DP	SINGLES	5891.39 FT
	KELLY DOWN		22.00 FT
	TOTAL		6586.89
	WT. OF DC IN AIR		64M LBS.
	WT. OF STRING		145M LBS

BIT RECORD

BIT NO.	8		
SIZE	8¾		
MFG.	SEC		
TYPE	M88		
JETS 1/32"	11 11 11		
SERIAL NO.	341681		
DEPTH OUT			
DEPTH IN	6451		
TOTAL FTG.	135		
TOTAL HRS. RUN	14		
BIT CONDITION 1/8" T/B/GAGE	Drlg		
REAMER CUTTER NO.			
REAMER TYPE			

MUD RECORD

TIME	4.00	9.00	10.00
WEIGHT	9.2	9.2	9.2
VIS-SEC	34	35	34
PV/YP	/	/	/
GELS	/	/	/
W L-C C	10.	10.2	10.4
PH	9.5	9.5	9.5
% SOLIDS	SALINITY		
% SAND	23,000 PPM.		

MUD MATERIALS ADDED

TYPE	AMOUNT	TYPE	AMOUNT
GEL -	10	SKS	
BENEX -	2	SKS	
C.M.C.	1	SK.	

EVENING TOUR

FOOTAGE

FROM	TO	ROT HOURS	DR-D RM-R CORE-C	CORE NO	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	WT ON BIT (1000#)	PUMP (AIR) PRESS	AIR VOL (CFM)	PUMP NO 1 LINER SIZE	PUMP NO 1 SPM	PUMP NO 2 LINER SIZE	PUMP NO 2 SPM	METHOD PUMPS RUN
6505	6586	7¾	81			40	50	2100		6	120			
								2100				6		
								650		6	60			

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

TIME LOG FROM	TO	ELAPSED TIME	CODE	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
4.00	4.45	¾		Drlg 8¾ Hole.
4.45	5.00	¼		Rig Ser, BOPs, Kelly Cock & Kelly Valve.
5.00	12.00	7		Drlg 8¾ Hole.
		8		
				Held B.O.P. Drlg.

DRILLER D. Lendall

CP-38 (10/69)

DAILY DRILLING REPORT

WELL NAME: SHELL ARCTIC RED WEST

LOCATION: 6-55 | PROVINCE: N. W. T

OPERATOR: Shell Canada Limited | CONTRACTOR: GUSTAVSON | RIG NO.: 11

SIGNATURE OF OPERATOR'S REPRESENTATIVE: D. Brown | SIGNATURE OF CONTRACTOR'S TOOL PUSHER: Jack McDonald

DEPTH AT START OF MORNING TOUR	DEPTH AT END OF EVENING TOUR	DAILY PROGRESS	CUMULATIVE ROTATING HOURS	DAYS FROM SPUD	DATE MONTH	DAY	YEAR
6130	6400	270	245	17	4	17	71

DP / DC. SIZE	WT. / FT	GRADE	MIN. I.D.	TOOL JT. O.D.	TYPE THREAD	PUMP NO.	PUMP MANUFACTURER	TYPE	STROKE LENGTH
4"	14	E	2 7/8	5 1/4	H FH,	1	NAT.	8P80	8 1/2
						2	NAT	8P80	8 1/2

LAST CASING TUBING OR LINER

SIZE	WT. AND GR.	NO. OF JOINTS	FEET	KB TO CSG HEAD	SET AT	CEMENT USED (SACKS)	REMARKS
9 5/8	36# K55	38	1204		1201	886	

TIME DISTRIBUTION — HOURS

CODE NO.	OPERATION	MORN.	DAY	EVE	TOTAL
1	RIG UP TEAR DOWN				
2	DRILLING ACTUAL	7 3/4	7 1/2	7 3/4	23
3	REAMING				
4	CORING				
5	CLEAN TO BOTTOM AND CIRCULATING				
6	TRIPS				
7	RIG SERVICE		1/4	1/4	1/2
8	RIG REPAIR				
9	CUT AND/OR SLIP LINE				
10	DEVIATION SURVEY				
11	[redacted] LOG				
12	RUN CASING AND CEMENT				
13	WAIT ON CEMENT				
14	NIPPLE UP B.O.P.				
15	TEST B.O.P.	1/4	1/4		1/2
16	DRILL STEM TEST				
17	PLUG BACK				
18	SQUEEZE CEMENT				
19	STUCK OR FISHING				
20	HANDLE TOOLS				
21	CONDITION MUD				
22	[redacted] CIRCULATION				
23					
24					
COMPLETION 40	PERFORATE				
COMPLETION 41	TUBING TRIPS				
COMPLETION 42	TREATING				
COMPLETION 43	SWABBING				
COMPLETION 44	TESTING				
COMPLETION 45					
60	ABANDON				
70	STANDBY				
	TOTALS	8	8	8	24
	HOURS FOR SHELL ACCOUNT	8	8	8	24

CONTRACTOR EQUIP. RENTAL

BOILER #1	8	4	÷
Boiler #2	8	4	8
Code	232	B.	

HOLE CONDITION

-1	HOLE DRAG (1000#)	
2	TORQUE ON BOTTOM (DP TURNS)	
3	FILL ON BOTTOM (FEET)	

MORNING TOUR

DRILLING ASSEMBLY AT END OF TOUR

NO	CODE	BIT	ID	OD	FT
1	BS		2 7/8	6 3/4	3.96 FT.
1	SS		2	6 3/4	8.50
1	DM		3	6 13/16	14.80
1	SI		2 7/8	6 3/4	4.10
1	CO		2 7/8	6 3/4	2.10
			X		FT.
21	DC		2 7/8	6 3/4	648.54 FT.
59	DP	STANDS			5519.83
1	DP	SINGLES			FT
KELLY DOWN					16.00
TOTAL					6218.73
WT OF DC IN AIR					64M LBS.
WT OF STRING					140M LBS

BIT RECORD

BIT NO.	7
SIZE	8 3/4
MFG.	SEC
TYPE	M88
JETS 1/32"	11 11 11
SERIAL NO.	340943
DEPTH OUT	
DEPTH IN	5998
TOTAL FTG.	220
TOTAL HRS. RUN	21 1/2
BIT CONDITION 1/8" T/B/GAGE	1 1
REAMER CUTTER NO	
REAMER TYPE	

MUD RECORD

TIME	12.00	4:00	6
WEIGHT	8.9	8.9	8.9
VIS-SEC	33	35	36
PV/YP	12/9	/	/
GELS	12/13	/	/
W.L-C.C	12.00	12	
PH	9.5	9.8	
% SOLIDS			
% SAND			

MUD MATERIALS ADDED

TYPE	AMOUNT	TYPE	AMOUNT
GEL	40 SKS		
BEN-EX	8 SKS		
C.M.C.	2 SKS		
SODA ASH	1 SK.		

FOOTAGE

FROM	TO	ROT HOURS	DR-D / RM-R / CORE-C	CORE NO.	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT. ON BIT (1000#)	PUMP (AIR) PRESS.	AIR VOL. (CFM)	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN
6130	6218	7 1/4	88			40	50	2000		6	120	6		
					DESILTER 9.7 9.									

DEVIATION RECORD

DEPTH	DEVIATION°	DIRECTION	DEPTH	DEVIATION°	DIRECTION	DEPTH	DEVIATION°	DIRECTION

TIME LOG

FROM	TO	ELAPSED TIME	CODE	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
12.00	1.15	1 1/4		DRILL
1.15	1.30	1/4		CHECK B. O. P. SER. RIG.
1.30	8.00	6 1/2		DRILL

DRILLER J. Hamish

DAY TOUR

DRILLING ASSEMBLY AT END OF TOUR

NO	CODE	BIT	ID	OD	FT
1	BS		2 7/8	6 3/4	3.96 FT.
1	SS		2"	6 3/4	8.50 FT.
1	DM		3"	6 13/16	14.80 FT.
1	SI		2 7/8	6 3/4	4.10 FT.
1	CO		2 7/8	6 3/4	2.10 FT.
			X		FT.
21	DC		2 7/8	6 3/4	648.54 FT.
10	DP	STANDS			FT
1	DP	SINGLES			613.34 FT
KELLY DOWN					17.00 FT.
TOTAL					6312.34 FT.
WT OF DC IN AIR					64M LBS.
WT OF STRING					147M LBS

BIT RECORD

BIT NO.	7
SIZE	8 3/4"
MFG.	SEC
TYPE	M88
JETS 1/32"	11 11 11
SERIAL NO.	340543
DEPTH OUT	
DEPTH IN	5998'
TOTAL FTG.	314'
TOTAL HRS. RUN	29
BIT CONDITION 1/8" T/B/GAGE	IN
REAMER CUTTER NO	
REAMER TYPE	

MUD RECORD

TIME	8:00	12:00	3:00
WEIGHT	8.9	8.9	9.1
VIS-SEC	34	34	38
PV/YP	/	/	/
GELS	/	/	/
W.L-C.C	11.6	11.8	
PH	9.5	9.0	9.0
% SOLIDS	Salinity		
% SAND	27,000 PPM		

MUD MATERIALS ADDED

TYPE	AMOUNT	TYPE	AMOUNT
	wt-mat - 60 Bags		
Hi-Sorbe - 2 Bags			

FOOTAGE

FROM	TO	ROT HOURS	DR-D / RM-R / CORE-C	CORE NO.	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT. ON BIT (1000#)	PUMP (AIR) PRESS.	AIR VOL. (CFM)	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN
6218	6312	7 1/2	94'			40	50	2000		6"	120	6"	120	
					Desilter									

DEVIATION RECORD

DEPTH	DEVIATION°	DIRECTION	DEPTH	DEVIATION°	DIRECTION	DEPTH	DEVIATION°	DIRECTION

TIME LOG

FROM	TO	ELAPSED TIME	CODE	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
8:00	8:30	1/2		Held Blow out Drill, Checked B.O.P & Rig Serv.
8:30	4:00	7 1/2		Drlg
		7 1/2		
		8		

B. Russell 2 Hrs Overtime

DRILLER G. Gulason

EVENING TOUR

DRILLING ASSEMBLY AT END OF TOUR

NO	CODE	BIT	ID	OD	FT
1	BS		2 7/8	6 3/4	3.96 FT.
1	SS		2	6 3/4	8.50 FT.
1	DM		3	6 13/16	14.80 FT.
1	SI		2 7/8	6 3/4	4.10 FT.
1	CO		2 7/8	6 3/4	2.10 FT.
			X		FT.
21	DC		2 7/8	6 3/4	648.54 FT.
61	DP	STANDS			FT
	DP	SINGLES			567.12 FT.
KELLY DOWN					43.00 FT
TOTAL					6400.12 FT.
WT. OF DC IN AIR					64M LBS.
WT. OF STRING					144M LBS.

BIT RECORD

BIT NO.	7
SIZE	8 3/4
MFG.	SEC
TYPE	M88
JETS 1/32"	11 11 11
SERIAL NO.	340943
DEPTH OUT	
DEPTH IN	5998
TOTAL FTG.	402
TOTAL HRS. RUN	36 3/4
BIT CONDITION 1/8" T/B/GAGE	
REAMER CUTTER NO.	
REAMER TYPE	

MUD RECORD

TIME	4:00	8:00	
WEIGHT	9.1	9.2	
VIS-SEC	40	38	
PV/YP	/	/	/
GELS	/	/	/
W.L-C.C	10.6	11.2	
PH	9.0	9.5	
% SOLIDS			
% SAND			

MUD MATERIALS ADDED

TYPE	AMOUNT	TYPE	AMOUNT
wt mat	- 60 SKS		
CMC.	- 1 SK		
Caustic	- 3 SKS		

FOOTAGE

FROM	TO	ROT HOURS	DR-D / RM-R / CORE-C	CORE NO.	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT. ON BIT (1000#)	PUMP (AIR) PRESS.	AIR VOL. (CFM)	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN
6312	6400	7 3/4	88			40	50	2000		6	120			

DEVIATION RECORD

DEPTH	DEVIATION°	DIRECTION	DEPTH	DEVIATION°	DIRECTION	DEPTH	DEVIATION°	DIRECTION

TIME LOG

FROM	TO	ELAPSED TIME	CODE	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
4:00	6:00	2		Drlg 8 3/4" Hole.
6:00	6:15	1/4		Rig Ser. & BOPs.
6:15	12:00	5 3/4		Drlg 8 3/4 Hole.
		8		

DRILLER D. Lindall

CP-38 (10/69)

DAILY DRILLING REPORT

WELL NAME: SHELL ARCTIC RED WEST.

LOCATION: G-55 | PROVINCE: N.W.T.

OPERATOR: Shell Canada Limited

SIGNATURE OF OPERATOR'S REPRESENTATIVE: J. Brown

CONTRACTOR: GUSTAVSON DRILLING

SIGNATURE OF CONTRACTOR'S TOOL PUSHER: L. McLeod

RIG NO.: 11

DEPTH AT START OF MORNING TOUR	DEPTH AT END OF EVENING TOUR	DAILY PROGRESS	CUMULATIVE ROTATING HOURS	DAYS FROM SPUD	DATE MONTH	DAY	YEAR
5979	6130	151	182	16	APRIL	16	1971

	DP / DC. SIZE	WT. / FT	GRADE	MIN. I.D.	TOOL JT O.D.	TYPE THREAD
	4"	14#	E	2 7/8	5 1/4	4" F.H.
	6 3/4	101#		2 1/4	6 3/4	5-H-90

PUMP NO.	PUMP MANUFACTURER	TYPE	STROKE LENGTH
1	NAT.	8-P-80	8 1/2
2	NAT.	8-P-80	8 1/2

LAST CASING TUBING OR LINER	SIZE	WT. AND GR.	NO. OF JOINTS	FEET	KB. TO CSG. HEAD	SET AT	CEMENT USED (SACKS)	REMARKS
	9 5/8	36# K55	38	1204		1201	886	

TIME DISTRIBUTION — HOURS

CODE NO.	OPERATION	MORN.	DAY	EVE.	TOTAL
1	RIG UP TEAR DOWN				
2	DRILLING ACTUAL	4 3/4	6	7 3/4	18 1/2
3	REAMING				
4	CORING				
5	CLEAN TO BOTTOM AND CIRCULATING				
6	TRIPS	3	2		5
7	RIG SERVICE	1/4		1/4	1/2
8	RIG REPAIR				
9	CUT AND/OR SLIP LINE				
10	DEVIATION SURVEY				
11	WIRE LINE LOG				
12	RUN CASING AND CEMENT				
13	WAIT ON CEMENT				
14	NIPPLE UP B.O.P.				
15	TEST B.O.P.				
16	DRILL STEM TEST				
17	PLUG BACK				
18	SQUEEZE CEMENT				
19	STUCK OR FISHING				
20	HANDLE TOOLS				
21	CONDITION MUD				
22	CIRCULATION				
23					
24					
COMPLETION 40	PERFORATE				
COMPLETION 41	TUBING TRIPS				
COMPLETION 42	TREATING				
COMPLETION 43	SWABBING				
COMPLETION 44	TESTING				
COMPLETION 45	?				
60	ABANDON				
70	STANDBY				
	TOTALS	8	8	8	24
	HOURS FOR SHELL ACCOUNT	8	8	8	24
CONTRACTOR EQUIP RENTAL	BOILER #1	8	8	8	
	BOILER #2	8			

CODE 232 B21

HOLE CONDITION

1	HOLE DRAG (1000#)	
2	TORQUE ON BOTTOM (DP TURNS)	
3	FILL ON BOTTOM (FEET)	0.

DRILLING ASSEMBLY AT END OF TOUR

NO.	CODE	BIT	ID	OD	FT.
1	BS		2 7/8	6 3/4	3.96 FT.
1	SS		2	6 3/4	8.50 FT.
1	DM		3	6 1/2	14.80 FT.
1	SI		2 7/8	6 3/4	4.10 FT.
1	CO		2 7/8	6 3/4	2.10 FT.
		X			FT.
21	DC		2 7/8	6 3/4	648.54 FT.
57	DP	STANDS			5303.71 FT.
	DP	SINGLES			FT.
	KELLY DOWN				13.00 FT.
	TOTAL				5998.71 FT.
	WT. OF DC IN AIR				64M. LBS.
	WT. OF STRING				141M. LBS.

BIT RECORD

BIT NO.	6
SIZE	8 3/4
MFG.	H.W.
TYPE	X55R
JETS 1/32"	11 11 11
SERIAL NO.	29172
DEPTH OUT	5998
DEPTH IN	5787
TOTAL FTG.	211
TOTAL HRS. RUN	29 1/2
BIT CONDITION 1/8" T/B/GAGE	
REAMER CUTTER NO.	
REAMER TYPE	

MUD RECORD

TIME	12.00	4.00	
WEIGHT	9.0	9.0	
VIS.-SEC.	31	35	
PV/YP	8/3	/	/
GELS	2/5	/	/
W.L.-C.C.	10.8		
PH	9.0	9.5	
SOLIDS	SALT 16500		
CAKE	THIN 40		

MUD MATERIALS ADDED

TYPE	AMOUNT	TYPE	AMOUNT
GEL	20 SAX		
BENEX	3 SAX		
CAUSTIC	2 SAX		
CMC	1 SACK		

MORNING TOUR — FOOTAGE

FROM	TO	ROT HOURS	DR-D RM-R CORE-C	CORE NO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT. ON BIT (1000#)	PUMP (AIR) PRESS.	AIR VOL (CFM)	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN
5979	5998	4 3/4	19			36	54	2100		6"	122			
					DESILTER: WF. 9.5. OF. 9.0.									

DEVIATION RECORD: 1/2 @ 5998

DEPTH	DEVIATION°	DIRECTION	DEPTH	DEVIATION°	DIRECTION	DEPTH	DEVIATION°	DIRECTION

TIME LOG

FROM	TO	ELAPSED TIME	CODE	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
12.00	12.15	1/4		RIG SERV V B.O.Ps
12.15	4.45	4 1/2		DRLG.
4.45	8.00	3 1/4		DROP SURVEY TRIP OUT.

DRILLER: A. Swanson

DRILLING ASSEMBLY AT END OF TOUR

NO.	CODE	BIT	ID	OD	FT.
1	BS		2 7/8	6 3/4	3.96
1	SS		2	6 3/4	8.50
1	DM		3	6 1/2	14.80
1	SI		2 7/8	6 3/4	4.10
1	CO		2 7/8	6 3/4	2.10
		X			FT.
21	DC		2 7/8	6 3/4	648.54
57	DP	STANDS			5334.89
1	DP	SINGLES			FT.
	KELLY DOWN				32.00
	TOTAL				6048.89
	WT. OF DC IN AIR				64M LBS.
	WT. OF STRING				142M LBS.

BIT RECORD

BIT NO.	7
SIZE	8 3/4
MFG.	SEC.
TYPE	M88
JETS 1/32"	11 11 11
SERIAL NO.	340943
DEPTH OUT	
DEPTH IN	5998
TOTAL FTG.	50
TOTAL HRS. RUN	6
BIT CONDITION 1/8" T/B/GAGE	1N
REAMER CUTTER NO.	
REAMER TYPE	

MUD RECORD

TIME	10.00	12.00	
WEIGHT	9.0	9.0	
VIS.-SEC.	34	37	
PV/YP	8/10	/	/
GELS	/	/	/
W.L.-C.C.	10.9	10.8	
PH	9.0	9.0	
CALCIUM		160 PPM	
% SAND			

MUD MATERIALS ADDED

TYPE	AMOUNT	TYPE	AMOUNT
GEL	24 SKS		
BEN-EX	5 SKS		
CAUSTIC	2 SKS		
C.M.C.	1 SK		

DAY TOUR — FOOTAGE

FROM	TO	ROT HOURS	DR-D RM-R CORE-C	CORE NO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT. ON BIT (1000#)	PUMP (AIR) PRESS.	AIR VOL (CFM)	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN
5998	6048	6	50			40	20-50	2000		6	120	6		
								625		6	60			

DEVIATION RECORD: 1/2 @ 5998

DEPTH	DEVIATION°	DIRECTION	DEPTH	DEVIATION°	DIRECTION	DEPTH	DEVIATION°	DIRECTION

TIME LOG

FROM	TO	ELAPSED TIME	CODE	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
8.50	10.00			RUN IN CHECKED B.O.P.
10.00	4.00			DRILL

DRILLER: J. Howard

DRILLING ASSEMBLY AT END OF TOUR

NO.	CODE	BIT	ID	OD	FT.
1	BS		2 7/8	6 3/4	3.96 FT.
1	SS		2"	6 3/4	8.50 FT.
1	DM		3"	6 1/2	14.80 FT.
1	SI		2 7/8	6 3/4	4.10 FT.
1	CO		2 7/8	6 3/4	2.10 FT.
		X			FT.
21	DC		2 7/8	6 3/4	648.54 FT.
58	DP	STANDS			FT.
5	DP	SINGLES			5476.89 FT.
	KELLY DOWN				22.00 FT.
	TOTAL				6130.89 FT.
	WT. OF DC IN AIR				64M LBS.
	WT. OF STRING				142M LBS.

BIT RECORD

BIT NO.	7
SIZE	8 3/4"
MFG.	SEC.
TYPE	M88
JETS 1/32"	11 11 11
SERIAL NO.	340943
DEPTH OUT	
DEPTH IN	5998'
TOTAL FTG.	132'
TOTAL HRS. RUN	13 3/4
BIT CONDITION 1/8" T/B/GAGE	
REAMER CUTTER NO.	
REAMER TYPE	

MUD RECORD

TIME	4.00	8.00	10.00
WEIGHT	8.9	8.9	8.9
VIS.-SEC.	35	36	34
PV/YP	/	/	/
GELS	/	/	/
W.L.-C.C.	10.6		12.2
PH	9.		9.5
% SOLIDS	SALINITY 23,000		
% SAND			1 RPM

MUD MATERIALS ADDED

TYPE	AMOUNT	TYPE	AMOUNT
CMC	2 BAGS		
CAUSTIC	4 BAGS		
SODA ASH	5 BAGS		
CORR-INH	4 CANS		

EVENING TOUR — FOOTAGE

FROM	TO	ROT HOURS	DR-D RM-R CORE-C	CORE NO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT. ON BIT (1000#)	PUMP (AIR) PRESS.	AIR VOL (CFM)	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN
6048	6130	7 3/4	82'			40	50	2100		6"	122	6"		
			8 HRS.		DESILTER WF 9.6 OF 9.6									

DEVIATION RECORD:

DEPTH	DEVIATION°	DIRECTION	DEPTH	DEVIATION°	DIRECTION	DEPTH	DEVIATION°	DIRECTION

TIME LOG

FROM	TO	ELAPSED TIME	CODE	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
4.00	4.15	1/4		Serv Rig
4.15	12.00	7 3/4		Drlg

DRILLER: E. Johnson

CP-38 (10/69)

DAILY DRILLING REPORT

WELL NAME: SHELL ARCTIC RED WEST

LOCATION: G-55 | PROVINCE: N.W.T.

OPERATOR: Shell Canada Limited

SIGNATURE OF OPERATOR'S REPRESENTATIVE: L. Brown

CONTRACTOR: GUSTAFSON DRILLING | RIG NO.: 11

SIGNATURE OF CONTRACTOR'S TOOL PUSHER: [illegible]

DEPTH AT START OF MORNING TOUR	DEPTH AT END OF EVENING TOUR	DAILY PROGRESS	CUMULATIVE ROTATING HOURS	DAYS FROM SPUD	DATE MONTH	DAY	YEAR
5800				15	APRIL	15	1971

DP./DC. SIZE	WT./FT	GRADE	MIN. I.D.	TOOL JT O.D.	TYPE THREAD	PUMP NO.	PUMP MANUFACTURER	TYPE	STROKE LENGTH
4"	14#	E	2 7/8	5 1/4	4" F.H.	1	NAT.	8-P-80	8 1/2
6 3/4	101#		2 7/8	6 3/4	5-H-90	2	NAT.	8-P-80	8 1/2

LAST CASING TUBING OR LINER

SIZE	WT. AND GR.	NO. OF JOINTS	FEET	KB TO CSG. HEAD	SET AT	CEMENT USED (SACKS)
9 5/8	36# K55	38	1204		1201	886

REMARKS:

TIME DISTRIBUTION — HOURS

CODE NO.	OPERATION	MORN.	DAY	EVE.	TOTAL
1	RIG UP TEAR DOWN				
2	DRILLING ACTUAL	7 3/4	7 3/4	7 3/4	23 1/4
3	REAMING				
4	CORING				
5	CLEAN TO BOTTOM AND CIRCULATING				
6	TRIPS				
7	RIG SERVICE	1/4		1/4	1/2
8	RIG REPAIR				
9	CUT AND/OR SLIP LINE				
10	DEVIATION SURVEY				
11	[illegible] E LOG				
12	RUN CASING AND CEMENT				
13	WAIT ON CEMENT				
14	NIPPLE UP B.O.P.				
15	TEST B.O.P.		1/4		1/4
16	DRILL STEM TEST				
17	PLUG BACK				
18	SQUEEZE CEMENT				
19	STUCK OR FISHING				
20	HANDLE TOOLS				
21	CONDITION MUD				
22	[illegible] CULATION				
23					
24					
COMPLETION 40	PERFORATE				
COMPLETION 41	TUBING TRIPS				
COMPLETION 42	TREATING				
COMPLETION 43	SWABBING				
COMPLETION 44	TESTING				
COMPLETION 45					
60	ABANDON				
70	STANDBY				
	TOTALS	8	8	8	24
	HOURS FOR SHELL ACCOUNT	8	8	8	24
CONTRACTOR EQUIP RENTAL	BOILER #1	8	8	8	
	BOILER #2	8	8	8	

Code 232 B,

HOLE CONDITION

1	HOLE DRAG (1000#)	
2	TORQUE ON BOTTOM (DP TURNS)	
3	FILL ON BOTTOM (FEET)	

DRILLING ASSEMBLY AT END OF TOUR

NO	CODE		ID	OD	FT
		BIT			FT
1	BS		2 7/8	6 3/4	3.96 FT.
1	SS		2	6 3/4	8.50 FT.
1	DM	3		6 7/8	14.80 FT.
1	S1		2 7/8	6 3/4	4.10 FT.
1	C0		2 7/8	6 3/4	2.10 FT.
		ID X OD			FT.
21	DC		2 7/8	6 3/4	618.54 FT.
55	DP	STANDS			FT.
1	DP	SINGLES			5148.85 FT.
		KELLY DOWN			42.00 FT.
		TOTAL			5872.65 FT.
		WT. OF DC IN AIR			64M LBS.
		WT. OF STRING			139M LBS.

BIT RECORD

BIT NO.	6
SIZE	8 3/4
MFG.	H.W.
TYPE	X55R
JETS 1/32"	11 11 11
SERIAL NO.	29172
DEPTH OUT	
DEPTH IN	5787
TOTAL FTG.	85
TOTAL HRS. RUN	9 1/4
BIT CONDITION 1/8" T/B/GAGE	1N
REAMER CUTTER NO.	
REAMER TYPE	

MUD RECORD

TIME	12:00	4:00	7:00
WEIGHT	9.0	9.0	9.0
VIS.-SEC.	44	43	37
PV/YP	10/6	/	/
GELS	2/5	/	/
W.L.-C.C.	11.2	11.0	11.0
PH	9.	9.5	9.5
CALCIUM	40		
SALT	14000		
% SAND	1/0		

MUD MATERIALS ADDED

TYPE	AMOUNT	TYPE	AMOUNT
CMC	1 SACK		
CAUSTIC	1 SACK		

FOOTAGE — MORNING TOUR

FROM	TO	ROT HOURS	DR-D RM-R CORE-C	CORE NO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT. ON BIT (1000#)	PUMP (AIR) PRESS	AIR VOL (CFM.)	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN
5800	5872	7 3/4	72			50-55	50	2100		6"				
					DESILTER. U.F. 9.7 O.F. 9.1									

DEVIATION RECORD

DEPTH	DEVIATION°	DIRECTION	DEPTH	DEVIATION°	DIRECTION	DEPTH	DEVIATION°	DIRECTION

TIME LOG

FROM	TO	ELAPSED TIME	CODE	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
12.00	12.15	1/4		RIG SERV ✓ KELLY COCK + B.O.P.S.
12.15	8.00	7 3/4		DRLG
				HELD BOP DRILL

DRILLER: A. Ewanik

DRILLING ASSEMBLY AT END OF TOUR

NO	CODE		ID	OD	FT
		BIT			FT
1	BS		2 7/8	6 3/4	3.96
1	SS		2	6 3/4	8.50
1	DM	3		6 7/8	14.80
1	S1		2 7/8	6 3/4	4.10
1	C0		2 7/8	6 3/4	2.10
		ID X OD			FT.
21	DC		2 7/8	6 3/4	648.54
56	DP	STANDS			5210.53
	DP	SINGLES			FT.
		KELLY DOWN			34.00
		TOTAL			5926.53
		WT. OF DC IN AIR			64M LBS.
		WT. OF STRING			140M LBS.

BIT RECORD

BIT NO.	6
SIZE	8 3/4
MFG.	H.W.
TYPE	X55R
JETS 1/32"	11 11 11
SERIAL NO.	29172
DEPTH OUT	
DEPTH IN	5787
TOTAL FTG.	139
TOTAL HRS. RUN	17
BIT CONDITION 1/8" T/B/GAGE	1N
REAMER CUTTER NO.	
REAMER TYPE	

MUD RECORD

TIME	8.00	12:00
WEIGHT	9.	7.0
VIS.-SEC.	35	36
PV/YP	/	/
GELS	/	/
W.L.-C.C.	10.5	10.5
PH	9.	9.5
CALCIUM	80	P.P.M.
% SAND		

MUD MATERIALS ADDED

TYPE	AMOUNT	TYPE	AMOUNT
GEL - 16	SKS		
CAUSTIC -	2 SKS		
DEN-EX -	3 SKS		
C.M.C -	1 SK		

FOOTAGE — DAY TOUR

FROM	TO	ROT HOURS	DR-D RM-R CORE-C	CORE NO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT. ON BIT (1000#)	PUMP (AIR) PRESS	AIR VOL (CFM.)	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN
5872	5926	7 3/4	54			35-55	50	2000		6	120	6		
								650		6	60			

DEVIATION RECORD

DEPTH	DEVIATION°	DIRECTION	DEPTH	DEVIATION°	DIRECTION	DEPTH	DEVIATION°	DIRECTION

TIME LOG

FROM	TO	ELAPSED TIME	CODE	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
8.00	8.15			CHECK B. O. P. RIG SER.
8.15	4.00			DRILL
				F. Bengtson -10
				HELD B. O. P. MEETNG

DRILLER: J. Hamil

DRILLING ASSEMBLY AT END OF TOUR

NO	CODE		ID	OD	FT
		BIT			FT
1	BS		2 7/8	6 3/4	3.96 FT.
1	SS		2"	6 3/4	8.50 FT.
1	DM	3		6 7/8	14.80 FT.
1	S1		2 7/8	6 3/4	4.10 FT.
1	C0		2 7/8	6 3/4	2.10 FT.
		ID X OD			FT.
21	DC		2 7/8	6 3/4	648.54 FT.
56	DP	STANDS			FT.
2	DP	SINGLES			5272.90 FT.
		KELLY DOWN			25.00 FT.
		TOTAL			5979.90 FT.
		WT. OF DC IN AIR			64M LBS.
		WT. OF STRING			140M LBS.

BIT RECORD

BIT NO.	6
SIZE	8 3/4"
MFG.	H.W.
TYPE	X55R
JETS 1/32"	11 11 11
SERIAL NO.	29172
DEPTH OUT	
DEPTH IN	5787
TOTAL FTG.	192
TOTAL HRS. RUN	24 3/4
BIT CONDITION 1/8" T/B/GAGE	
REAMER CUTTER NO.	
REAMER TYPE	

MUD RECORD

TIME	4:00	9:00
WEIGHT	9.0	9.0
VIS.-SEC.	35	34
PV/YP	/	/
GELS	/	/
W.L.-C.C.	10.6	
PH	9.5	
% SOLIDS CALCIUM	NO P.P.M.	
% SAND		

MUD MATERIALS ADDED

TYPE	AMOUNT	TYPE	AMOUNT
GEL - 10	BAGS		
DENEX - 2	BAGS		
CMC - 1	BAG		

FOOTAGE — EVENING TOUR

FROM	TO	ROT HOURS	DR-D RM-R CORE-C	CORE NO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT. ON BIT (1000#)	PUMP (AIR) PRESS.	AIR VOL. (CFM.)	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN
5926	5979	7 3/4	53			36	50	2100		6"	120	6"		
					1 Pail of Jet Lub.									
					1 " " Best Life									

DEVIATION RECORD

DEPTH	DEVIATION°	DIRECTION	DEPTH	DEVIATION°	DIRECTION	DEPTH	DEVIATION°	DIRECTION

TIME LOG

FROM	TO	ELAPSED TIME	CODE	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
4.00	4.15	1/4		Serv Rig & Swivel
4.15	12.00	7 3/4		Drlg

DRILLER: E. Gustafson

CP-38 (10/69)

DAILY DRILLING REPORT

WELL NAME	LOCATION	PROVINCE
SHELL ARCTIC RED WEST	G-55	N.W.T.

OPERATOR	CONTRACTOR	RIG NO.	DEPTH AT START OF MORNING TOUR	DEPTH AT END OF EVENING TOUR	DAILY PROGRESS	CUMULATIVE ROTATING HOURS	DAYS FROM SPUD	DATE MONTH	DAY	YEAR
Shell Canada Limited	GUSTAVSON DRILLING	11	5507	5800	293	176	14	APRIL	14	1971

SIGNATURE OF OPERATOR'S REPRESENTATIVE: D. Brown
SIGNATURE OF CONTRACTOR'S TOOL PUSHER: Jack McLeod

DP./DC. SIZE	WT/FT	GRADE	MIN. I.D.	TOOL JT O.D.	TYPE THREAD	PUMP NO.	PUMP MANUFACTURER	TYPE	STROKE LENGTH
4"	14#	E	2 7/8	5 1/4	4" F.H.	1	NAT	8-P-80	8 1/2
6 3/4	101#		2 7/8	6 3/4	5-H90	2	NAT	8-P-80	8 1/2

LAST CASING TUBING OR LINER	SIZE	WT. AND GR.	NO. OF JOINTS	FEET	KB. TO CSG. HEAD	SET AT	CEMENT USED (SACKS)	REMARKS
	9 5/8	36# K55	38	1204		1201	886	

TIME DISTRIBUTION — HOURS

CODE NO.	OPERATION	MORN.	DAY	EVE.	TOTAL
1	RIG UP TEAR DOWN				
2	DRILLING ACTUAL	6 3/4	7 1/2	3 1/2	17 3/4
3	REAMING			1/2	1/2
4	CORING				
5	CLEAN TO BOTTOM AND CIRCULATING				
6	TRIPS			3 1/2	3 1/2
7	RIG SERVICE			1/4	1/4
8	RIG REPAIR			[illegible]	
9	CUT AND/OR SLIP LINE			1/4	1/4
10	DEVIATION SURVEY		1/2		1/2
11	[illegible] LOG				
12	RUN CASING AND CEMENT				
13	WAIT ON CEMENT				
14	NIPPLE UP B.O.P.				
15	TEST B.O.P.				
16	DRILL STEM TEST				
17	PLUG BACK				
18	SQUEEZE CEMENT				
19	STUCK OR FISHING				
20	HANDLE TOOLS				
21	CONDITION MUD				
22	[illegible] CIRCULATION				
23	CIRC SAMPLES	1 1/4			1 1/2
24					
40	PERFORATE				
41	TUBING TRIPS				
42	TREATING				
43	SWABBING				
44	TESTING				
45					
60	ABANDON				
70	STANDBY				
	TOTALS	8	8	8	24
	HOURS FOR SHELL ACCOUNT	8	8	8	24
	BOILER #1	8	8	8	
	BOILER #2	8	—	8	

Code 232 B.

HOLE CONDITION

1	HOLE DRAG (1000#)	NIL
2	TORQUE ON BOTTOM (DP TURNS)	
3	FILL ON BOTTOM (FEET)	

MORNING TOUR

Drilling Assembly at End of Tour

NO.	CODE	BIT	FT.
1	BS	2 7/8 x 6 3/4	3.96
1	SS	2 x 6 3/4	8.50
1	DM	3 x 6 3/4	14.80
1	SI	2 7/8 x 6 3/4	4.10
1	CO	2 7/8 x 6 3/4	
		x	
21	DC	2 7/8 x 6 3/4	648.54
53	DP	STANDS	4932.26
	DP	SINGLES	
		KELLY DOWN	42.00
		TOTAL	5656.26
		WT. OF DC IN AIR	64M LBS.
		WT. OF STRING	133M LBS.

Bit Record

BIT NO.	5
SIZE	8 3/4
MFG.	SEC
TYPE	M88
JETS 1/32"	11 11 11
SERIAL NO.	340663
DEPTH OUT	
DEPTH IN	5224
TOTAL FTG.	432
TOTAL HRS. RUN	23 1/2
BIT CONDITION 1/8" T/B/GAGE	IN
REAMER CUTTER NO.	
REAMER TYPE	

Mud Record

TIME	12.15	4:00	7.00
WEIGHT	9.0	9.0	9.0
VIS.-SEC.	43	40	36
PV/YP	/	/	9/5
GELS	/	/	2/5
W.L.-C.C.		10.8	
PH	9.5	9.5	9.5
% SOLIDS	CALCIUM 44 PPM		
% SAND			

Mud Materials Added:

TYPE	AMOUNT
CAUSTIC	1 SACK
CMC	2 SAX
Soda ash	2 SAX

Footage

FROM	TO	ROT HOURS	DR-D RM-R CORE-C	CORE NO	FORMATION	ROTARY R.P.M.	WT ON BIT (1000#)	PUMP (AIR) PRESS	AIR VOL (CFM)	PUMP NO. 1 LINER SIZE	S.P.M.	PUMP NO. 2 LINER SIZE	S.P.M.	METHOD PUMPS RUN
5507	5656	6 3/4	149			50-55	50	2100		6"				
					DESILTER. U.F. 9.7 O.F. 9.1									

DEVIATION RECORD: —

Time Log

FROM	TO	ELAPSED TIME	CODE	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
12.00	12.15	1/4		Drlg
12.15	1.00	3/4		Circ. Sample @ 5520 RIG SERVICE ✓ BOP
1.00	2.30	1 1/2		Drlg
2.30	3.15	3/4		Circ Sample @ 5560
3.15	8.00	4 3/4		Drlg

DRILLER: A. Ewonik

DAY TOUR

Drilling Assembly at End of Tour

NO.	CODE	BIT	FT.
1	BS	2 7/8 x 6 3/4	3.96
1	SS	2 x 6 3/4	8.50
1	DM	3 x 6 3/4	14.80
1	SI	2 7/8 x 6 3/4	4.10
1	CO	2 7/8 x 6 3/4	2.10
21	DC	2 7/8 x 6 3/4	648.54
54	DP	STANDS	5055.47
1	DP	SINGLES	
		KELLY DOWN	31.00
		TOTAL	5768.47
		WT. OF DC IN AIR	64m LBS.
		WT. OF STRING	136m LBS.

Bit Record

BIT NO.	5
SIZE	8 3/4
MFG.	SEC.
TYPE	M88
JETS 1/32"	11 11 11
SERIAL NO.	340663
DEPTH OUT	
DEPTH IN	5224
TOTAL FTG.	544
TOTAL HRS. RUN	31 [illegible]
BIT CONDITION 1/8" T/B/GAGE	IN
REAMER CUTTER NO.	
REAMER TYPE	

Mud Record

TIME	8.00	12.00
WEIGHT	8.9	8.9
VIS.-SEC.	37	35
PV/YP	/	/
GELS	/	/
W.L.-C.C.	11.0	11.0
PH	9.5	9.5
% SOLIDS		
% SAND		

Mud Materials Added:

TYPE	AMOUNT
C.M.C.	1 SK
GEL	10 SKS
BEN-EX	2 SKS

Footage

FROM	TO	ROT HOURS	DR-D RM-R CORE-C	CORE NO	FORMATION	ROTARY R.P.M.	WT ON BIT (1000#)	PUMP (AIR) PRESS	AIR VOL (CFM)	PUMP NO. 1 LINER SIZE	S.P.M.	PUMP NO. 2 LINER SIZE	S.P.M.	METHOD PUMPS RUN
5656	5768	7 1/2	112			50	50	2100		6	120	6		
								675		6	60			
					DESILTER 9.8 9.									

DEVIATION RECORD: DEPTH 5610 — DEVIATION 1/2°

Time Log

FROM	TO	ELAPSED TIME	CODE	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
8.00	8.30	1/2		SURVEY CHECK B.O.P.
8.30	4.00	7 1/2		DRILL

F. Bengtson — 12 hr.
OVERTIME 4 HRS. WORK ON WATER LINE + STACK MUD
J. Horvich J. Magnuson R. [illegible] P. Tuptow.
HELD B.O.P. MEETING

DRILLER: J. Horvich

EVENING TOUR

Drilling Assembly at End of Tour

NO.	CODE	BIT	FT.
1	BS	2 7/8 x 6 3/4	3.96
1	SS	2" x 6 3/4	8.50
1	DM	3 x 6 3/4	14.80
1	SI	2 7/8 x 6 3/4	4.10
1	CO	2 7/8 x 6 3/4	2.10
		x	
21	DC	2 7/8 x 6 3/4	648.54
54	DP	STANDS	
2	DP	SINGLES	5086.62
		KELLY DOWN	32.00
		TOTAL	5800.62
		WT. OF DC IN AIR	64m LBS.
		WT. OF STRING	136m LBS.

Bit Record

BIT NO.	5	6
SIZE	8 3/4	8 3/4"
MFG.	Sec	HW
TYPE	M88	X55R
JETS 1/32"	11 11 11	11 11 11
SERIAL NO.	340663	29172
DEPTH OUT	5787	
DEPTH IN	5224	5787
TOTAL FTG.	563	13'
TOTAL HRS. RUN	33	1 1/2
BIT CONDITION 1/8" T/B/GAGE	2 2 1	IN
REAMER CUTTER NO.		
REAMER TYPE		

Mud Record

TIME	4.00	10.00
WEIGHT	9.0	9.0
VIS.-SEC.	42	41
PV/YP	/	
GELS	/	
W.L.-C.C.	11.6	
PH	9.5	9.5
% SOLIDS		
% SAND		

Mud Materials Added:

TYPE	AMOUNT
Cmc	1 Bags
SALINITY	11,000 PPM.

Footage

FROM	TO	ROT HOURS	DR-D RM-R CORE-C	CORE NO	FORMATION	ROTARY R.P.M.	WT ON BIT (1000#)	PUMP (AIR) PRESS	AIR VOL (CFM)	PUMP NO. 1 LINER SIZE	S.P.M.	PUMP NO. 2 LINER SIZE	S.P.M.	METHOD PUMPS RUN
5768	5800'	3 1/2	32'			50	50	2100		6"	120			
					DESILTER HRS 4 9.6 9.0									

DEVIATION RECORD: —

Time Log

FROM	TO	ELAPSED TIME	CODE	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
4.00	6.00	2		Drlg. S.L.M. 5787.62 No
6.00	8.15	2 1/4		Measured out Pipe Tally 5786.94 Change in Tally
8.15	8.45	1/2		Slipped Drlg Line 33' Closed Blind Rams + Rig Serv
8.45	10.00	1 1/4		Run in w/ Bit #6
10.00	10.30	1/2		Reamed out Tight Spot From 5744' To 5750'
10.30	12.00	1 1/2		Drlg 8 3/4" Hole

2 HRS overtime E. Johnson H. Haydon N. Leclerc (Laying Water line)

DRILLER: E. Johnson

CP-38 (10/69)

DAILY DRILLING REPORT

WELL NAME		
SHELL ARCTIC RED WEST		
LOCATION: G-55	PROVINCE: N.W.T.	

OPERATOR	CONTRACTOR	RIG NO.	DEPTH AT START OF MORNING TOUR	DEPTH AT END OF EVENING TOUR	DAILY PROGRESS	CUMULATIVE ROTATING HOURS	DAYS FROM SPUD	MONTH	DAY	YEAR
Shell Canada Limited	GUSTAVSON DRILLING	11	5192	5507			13	APRIL	13	1971

SIGNATURE OF OPERATOR'S REPRESENTATIVE: L. Brown
SIGNATURE OF CONTRACTOR'S TOOL PUSHER: Jack McNeil

DP./DC. SIZE	WT./FT	GRADE	MIN. I.D.	TOOL JT O.D.	TYPE THREAD	PUMP NO.	PUMP MANUFACTURER	TYPE	STROKE LENGTH
4"	14#	E	2 7/8	5 1/4	4" FH	1	NAT	8-P-80	8 1/2
6 3/4	101#		2 7/8	6 3/4	5-H-90	2	NAT	8-P-80	8 1/2

LAST CASING TUBING OR LINER	SIZE	WT. AND GR.	NO. OF JOINTS	FEET	KB TO CSG. HEAD	SET AT	CEMENT USED (SACKS)	REMARKS
	9 5/8	36# K55	38	1204		1201	886	

TIME DISTRIBUTION — HOURS

CODE NO.	OPERATION	MORN.	DAY	EVE.	TOTAL
1	RIG UP TEAR DOWN				
2	DRILLING ACTUAL	3 1/2	7 3/4	7 3/4	19
3	REAMING				
4	CORING				
5	CLEAN TO BOTTOM AND CIRCULATING				
6	TRIPS	4 1/4			4 1/4
7	RIG SERVICE	1/4		1/4	1/2
8	RIG REPAIR				
9	CUT AND/OR SLIP LINE				
10	DEVIATION SURVEY				
11	WIRE LINE LOG				
12	RUN CASING AND CEMENT				
13	WAIT ON CEMENT				
14	NIPPLE UP B.O.P.				
15	TEST B.O.P.		1/4		1/4
16	DRILL STEM TEST				
17	PLUG BACK				
18	SQUEEZE CEMENT				
19	STUCK OR FISHING				
20	HANDLE TOOLS				
21	CONDITION MUD				
22	LOST CIRCULATION				
23					
24					
40	COMPLETION: PERFORATE				
41	TUBING TRIPS				
42	TREATING				
43	SWABBING				
44	TESTING				
45					
60	ABANDON				
70	STANDBY				
	TOTALS	8	8	8	24
	HOURS FOR SHELL ACCOUNT	8	8	8	24
	CONTRACTOR EQUIP RENTAL: BOILER #1	8	8	8	
	BOILER #2	8	8	8	

Code 232 3.

HOLE CONDITION

1	HOLE DRAG (1000#)	
2	TORQUE ON BOTTOM (DP TURNS)	
3	FILL ON BOTTOM (FEET)	3'

MORNING TOUR

Drilling Assembly at End of Tour

NO.	CODE	BIT	FT.
1	BS	2 7/8 x 6 3/4	3.96
1	SS	2 x 6 3/4	8.50
1	DM	3 x 6 3/4	14.80
1	S	1 2 7/8 x 6 3/4	4.10
1	CO	2 7/8 x 6 3/4	2.10
		x	
21	DC	2 7/8 x 6 3/4	648.54
48	DP	STANDS	
2	DP	SINGLES	4529.54
		KELLY DOWN	29.00
		TOTAL	5240.54
		WT. OF DC IN AIR	64M LBS.
		WT. OF STRING	128M LBS.

Bit Record

BIT NO.	4	5
SIZE	8 3/4	8 3/4
MFG.	SEC	SEC
TYPE	M88	M88
JETS 1/32"	11-11-11	11-11-11
SERIAL NO.	341445	340663
DEPTH OUT	5224	
DEPTH IN	4417	5224
TOTAL FTG.	807	14
TOTAL HRS RUN	43 3/4	1 1/2
BIT CONDITION 1/8" T/B/GAGE		
REAMER CUTTER NO.		
REAMER TYPE		

Mud Record

TIME		
WEIGHT	8.8	
VIS.-SEC.	33	
PV/YP	/	/
GELS	/	/
W.L.-C.C.		
PH		
% SOLIDS		
% SAND		

Mud Materials Added

TYPE	AMOUNT
GEL	30 SAX
BEN-EX	5 SAX
CMC	2 SAX
CAUSTIC	1 SACK

Footage

FROM	TO	ROT HOURS	DR-D RM-R CORE-C	CORE NO	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	WT ON BIT (1000#)	PUMP (AIR) PRESS	AIR VOL (CFM)	PUMP NO. 1 LINER SIZE	PUMP NO. 1 SPM	PUMP NO. 2 LINER SIZE	PUMP NO. 2 SPM	METHOD PUMPS RUN
5192	5240	3 1/2	48			50	50	2000		6"	120			

DESILTER. U.F. 94 O.F. 9.

Deviation Record

DEPTH	DEVIATION°	DIRECTION
5224	3/4°	S 53E

Time Log

FROM	TO	ELAPSED TIME	CODE	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
12.00	2.00	2		Drlg.
2.00	6.30	4 1/2		Trip out + In. Rig Serv + ✓ BOPS.
6.30	8.00	1 1/2		Drlg.

DRILLER: A. Ewasiuk

DAY TOUR

Drilling Assembly at End of Tour

NO.	CODE	BIT	FT.
1	BS	2 7/8 x 6 3/4	3.96
1	SS	2 x 6 3/4	8.50
1	DM	3 x 6 3/4	14.80
1	S1	2 7/8 x 6 3/4	4.10
1	CO	2 7/8 x 6 3/4	2.10
		x	
21	DC	2 7/8 x 6 3/4	648.54
50	DP	STANDS	4653.30
	DP	SINGLES	
		KELLY DOWN	30.00
		TOTAL	5365.30
		WT. OF DC IN AIR	64M LBS.
		WT. OF STRING	130M LBS.

Bit Record

BIT NO.	5
SIZE	8 3/4
MFG.	SEC
TYPE	M88
JETS 1/32"	11-11-11
SERIAL NO.	340663
DEPTH OUT	
DEPTH IN	5224
TOTAL FTG.	139
TOTAL HRS. RUN	9 1/4
BIT CONDITION 1/8" T/B/GAGE	IN
REAMER CUTTER NO.	
REAMER TYPE	

Mud Record

TIME	8.00	12.00
WEIGHT	8.8	8.8
VIS.-SEC.	33	35
PV/YP	/	/
GELS	/	/
W.L.-C.C.		
PH		
% SOLIDS		
% SAND		

Mud Materials Added

TYPE	AMOUNT
GEL	45 SKS
BEN-EX	6 SKS
C.M.C.	2 SKS
SODA ASH	2 SKS

Footage

FROM	TO	ROT HOURS	DR-D RM-R CORE-C	CORE NO	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	WT ON BIT (1000#)	PUMP (AIR) PRESS.	AIR VOL (CFM)	PUMP NO. 1 LINER SIZE	PUMP NO. 1 SPM	PUMP NO. 2 LINER SIZE	PUMP NO. 2 SPM	METHOD PUMPS RUN
5240	5365	7 3/4	125			50	50	2150		6	120	6		
								700		6	60			

DESILTER 9.8 8.9

Deviation Record

DEPTH	DEVIATION°	DIRECTION

Time Log

FROM	TO	ELAPSED TIME	CODE	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
8.00	9.00	1		DRILL
9.00	9.15	1/4		CHECK B.O.P. RIG SER.
9.15	4.00	6 3/4		DRILL.

F. Bengtson - 12 hrs

DRILLER: J. Howird

EVENING TOUR

Drilling Assembly at End of Tour

NO.	CODE	BIT	FT.
1	BS	2 7/8 x 6 3/4	3.96
1	SS	2" x 6 3/4	8.50
1	DM	3 x 6 3/4	14.80
1	S1	2 7/8 x 6 3/4	4.10
1	C/O	2 7/8 x 6 3/4	2.10
		x	
21	DC	2 7/8 x 6 3/4	648.54
51	DP	STANDS	
2	DP	SINGLES	4807.98
		KELLY DOWN	18.00
		TOTAL	5507.98
		WT. OF DC IN AIR	64M LBS.
		WT. OF STRING	132M LBS.

Bit Record

BIT NO.	5
SIZE	8 3/4
MFG.	Sec
TYPE	M88
JETS 1/32"	11-11-11
SERIAL NO.	340663
DEPTH OUT	
DEPTH IN	5224
TOTAL FTG.	283
TOTAL HRS. RUN	17
BIT CONDITION 1/8" T/B/GAGE	IN
REAMER CUTTER NO.	
REAMER TYPE	

Mud Record

TIME	4.00	6.00	10.00
WEIGHT	9.9	9.9	8.9
VIS.-SEC.	35	37	40
PV/YP	/	/	/
GELS	Calcium - 90 PPM		
W.L.-C.C.			
PH	6.0		9.0
% SOLIDS	Salinity 18,000 PPM		
% SAND			

Mud Materials Added

TYPE	AMOUNT
SODA ASH	4 BAGS
CAUSTIC	4 BAGS

Footage

FROM	TO	ROT HOURS	DR-D RM-R CORE-C	CORE NO.	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT. ON BIT (1000#)	PUMP (AIR) PRESS.	AIR VOL (CFM)	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN
5365'	5507	7 3/4	142'			55-50	50	2100		6"	122	6"		

Desilter Hrs 8 U.FLOW 9.8 O.FLOW - 9.0

Deviation Record

DEPTH	DEVIATION°	DIRECTION

Time Log

FROM	TO	ELAPSED TIME	CODE	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
4.00	4.15	1/4		Servi Rig & Swivel.
4.15	12.00	7 3/4		Drlg

2 HRS overtime Strapping Loss Circ mat. on pallets & Repiling
E. Johnson H. Farrell N. Leclerc
Checked & Refill All Fire Extinguishers
Safety Talks on Scott Air Packs & Refilling Bottles

DRILLER: E. Johnson

CP-38 (10/69)

DAILY DRILLING REPORT

WELL NAME: SHELL ARCTIC RED WEST

LOCATION: G-55 | PROVINCE: N.W.T.

OPERATOR: Shell Canada Limited | CONTRACTOR: GUSTAVSON DRILLING | RIG NO.: 11

SIGNATURE OF OPERATOR'S REPRESENTATIVE: [signature] | SIGNATURE OF CONTRACTOR'S TOOL PUSHER: Jack McLeod

DEPTH AT START OF MORNING TOUR	DEPTH AT END OF EVENING TOUR	DAILY PROGRESS	CUMULATIVE ROTATING HOURS	DAYS FROM SPUD	DATE MONTH	DAY	YEAR
4758	5192'	434'		12	APRIL	12	1971

DP./DC. SIZE	WT./FT	GRADE	MIN. I.D	TOOL JT O.D.	TYPE THREAD	PUMP NO.	PUMP MANUFACTURER	TYPE	STROKE LENGTH
4"	14#	E	2 7/8	5 1/4	4 F.H.	1	NAT.	8-P-80	8 1/2
6 3/4	101#		2 3/8	6 3/4	S-H-90	2	NAT	8-P-80	8 1/2

LAST CASING TUBING OR LINER: SIZE 9 7/8 | WT. AND GR. 36# K55 | NO. OF JOINTS 38 | FEET 1204 | KB. TO CSG. HEAD | SET AT 1201 | CEMENT USED (SACKS) 886 | REMARKS

TIME DISTRIBUTION — HOURS

CODE NO.	OPERATION	MORN.	DAY	EVE.	TOTAL
1	RIG UP TEAR DOWN		3		
2	DRILLING ACTUAL	7 3/4	6 1/4	7 3/4	
3	REAMING				
4	CORING				
5	CLEAN TO BOTTOM AND CIRCULATING				
6	TRIPS				
7	RIG SERVICE	1/4		1/4	
8	RIG REPAIR		1/2		
9	CUT AND/OR SLIP LINE				
10	DEVIATION SURVEY		1/2		
11	[illegible] E LOG				
12	RUN CASING AND CEMENT				
13	WAIT ON CEMENT				
14	NIPPLE UP B.O.P.				
15	TEST B.O.P.		1/4		
16	DRILL STEM TEST				
17	PLUG BACK				
18	SQUEEZE CEMENT				
19	STUCK OR FISHING				
20	HANDLE TOOLS				
21	CONDITION MUD				
22	[illegible] CIRCULATION				
23					
24					
COMPLETION 40	PERFORATE				
COMPLETION 41	TUBING TRIPS				
COMPLETION 42	TREATING				
COMPLETION 43	SWABBING				
COMPLETION 44	TESTING				
COMPLETION 45					
60	ABANDON				
70	STANDBY				
	TOTALS	8	8	8	
	HOURS FOR SHELL ACCOUNT				
EQUIP. RENTAL CONTRACTOR	BOILER #1	8	8	8	
	BOILER #2	8	8	8	

HOLE CONDITION

1	HOLE DRAG (1000#)	
2	TORQUE ON BOTTOM (DP TURNS)	
3	FILL ON BOTTOM (FEET)	

DRILLING ASSEMBLY AT END OF TOUR

NO.	CODE	BIT	ID	OD	FT.
1	BS		2 7/8	6 3/4	3.96 FT.
1	SS	2	2	6 3/4	8.50 FT.
1	DM	3	2	6 3/4	14.80 FT.
1	SI	2	2 7/8	6 3/4	4.10 FT.
1	CO	2	2 7/8	6 3/4	2.10 FT.
		X	ID	OD	FT.
21	DC		2 7/8	6 3/4	648.54 FT.
45	DP	STANDS			4188.67 FT.
	DP	SINGLES			FT.
	KELLY DOWN				30.00 FT.
	TOTAL				4900.67 FT.
	WT. OF DC IN AIR				64 M. LBS.
	WT. OF STRING				123 M. LBS.

BIT RECORD

	1	2	3
BIT NO.	4		
SIZE	8 3/4		
MFG.	SEC		
TYPE	M88		
JETS 1/32"	11 11 11		
SERIAL NO.	341445		
DEPTH OUT			
DEPTH IN	4417		
TOTAL FTG.	483		
TOTAL HRS. RUN	26 3/4		
BIT CONDITION 1/8" T/B/GAGE	1/N		
REAMER CUTTER NO.			
REAMER TYPE			

MUD RECORD

	1	2	3
TIME	12.00	4.00	7.00
WEIGHT	8.8	8.8	8.9
VIS.-SEC.	33	35	35
PV/YP	/	/	/
GELS	/	/	/
W.L.-C.C	/	/	/
PH			
% SOLIDS			
% SAND			

MUD MATERIALS ADDED

TYPE	AMOUNT	TYPE	AMOUNT
GEL	35 SAX		
BEN-EX	7 SAX		

FOOTAGE

FROM	TO	ROT HOURS	DR-D RM-R CORE-C	CORE NO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT. ON BIT (1000#)	PUMP (AIR) PRESS	AIR VOL (CFM)	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN
4758	4900	7 3/4	142			50	50	2000		6				
					DESILTER. V.F. 9.7 O.F 8.9									

DEVIATION RECORD

DEPTH	DEVIATION°	DIRECTION	DEPTH	DEVIATION°	DIRECTION	DEPTH	DEVIATION°	DIRECTION

MORNING TOUR

TIME LOG

FROM	TO	ELAPSED TIME	CODE	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
12.00	1.00	1		Drlg.
1.00	1.15	1/4		Kelly cock B.O.P.S. & Rig Serv.
1.15	8.00	6 3/4		Drlg.
				4 HRS OVERTIME UNLOAD PLANE &
				A. EWASIUK L. SCOTT.
				R. LANGLOIS.

DRILLER: A. Ewasiuk

DRILLING ASSEMBLY AT END OF TOUR

NO.	CODE	BIT	ID	OD	FT.
1	BS	5	2 7/8	6 3/4	3.96
1	SS	2	2	6 3/4	8.50
1	DM	3	2	6 3/4	14.80
1	SI	2	2 7/8	6 3/4	4.10
1	CO	2	2 7/8	6 3/4	2.10
		X	ID	OD	4' FT.
21	DC		2 7/8	6 3/4	648.54
46	DP	STANDS			4344.22
2	DP	SINGLES			FT.
	KELLY DOWN				14.00
	TOTAL				5040.22
	WT. OF DC IN AIR				64 M. LBS.
	WT. OF STRING				126 M. LBS.

BIT RECORD

	1	2	3
BIT NO.	4		
SIZE	8 3/4		
MFG.	SEC		
TYPE	M88		
JETS 1/32"	11 11 11		
SERIAL NO.	341445		
DEPTH OUT			
DEPTH IN	4417		
TOTAL FTG.	623		
TOTAL HRS. RUN	33 1/2		
BIT CONDITION 1/8" T/B/GAGE	1N		
REAMER CUTTER NO.			
REAMER TYPE			

MUD RECORD

	1	2	3
TIME	8.00	12.00	
WEIGHT	8.8	8.7	
VIS.-SEC.	35	34	
PV/YP	/	/	/
GELS	/	/	/
W.L.-C.C.	24		
PH			
% SOLIDS			
% SAND			

MUD MATERIALS ADDED

TYPE	AMOUNT	TYPE	AMOUNT
C.M.C.	3 SKS		

FOOTAGE

FROM	TO	ROT HOURS	DR-D RM-R CORE-C	CORE NO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT. ON BIT (1000#)	PUMP (AIR) PRESS	AIR VOL (CFM)	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN
4900	5040	6 3/4	140			50	50	2000		6	126	6		
								650		6	60			
					DESILTER	9.8		8.8						

DEVIATION RECORD

DEPTH	DEVIATION°	DIRECTION	DEPTH	DEVIATION°	DIRECTION	DEPTH	DEVIATION°	DIRECTION
4930	3/4	S 5 E						

DAY TOUR

TIME LOG

FROM	TO	ELAPSED TIME	CODE	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
8.00	8.15	1/4		DRILL (REPAIR MUD LINE) J. Horial
8.15	8.30	1/4		CHECK B.O.P. SER. RIG OVERTIME 4 HRS Sgt. Cuckeron
8.30	10.00	1 1/2		DRILL J. Magnuson
10.00	10.30	1/2		CHANGE VALVE ON MUD LINE E. Hamblelton
10.30	1.45	3 1/4		DRILL P. Tepton
1.45	2.15	1/2		SURVEY HELD B.O.P. + SAFETY TALK J. Boynton
2.15	4.00	1 3/4		DRILL

DRILLER: J. Horial

FOOTAGE

FROM	TO	ROT HOURS	DR-D RM-R CORE-C	CORE NO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT. ON BIT (1000#)	PUMP (AIR) PRESS.	AIR VOL. (CFM)	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN
5040	5192	T 3/4	152			50	50M	2,000		6"	120	6"	122	
					Desilter 9.8 - 8.8									

DEVIATION RECORD

DEPTH	DEVIATION°	DIRECTION	DEPTH	DEVIATION°	DIRECTION	DEPTH	DEVIATION°	DIRECTION

EVENING TOUR

TIME LOG

FROM	TO	ELAPSED TIME	CODE	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
400	500	1		Drlg
500	515	1/4		Serv Rig & Swivel
515	1200	6 3/4		Drlg

DRILLER: E. Johnson

CP-38 (10/69)

DAILY DRILLING REPORT

WELL NAME: SHELL ARCTIC RED WEST

LOCATION: G-55

PROVINCE: N.W.T

OPERATOR: Shell Canada Limited

SIGNATURE OF OPERATOR'S REPRESENTATIVE: [signature]

CONTRACTOR: GUSTAVSON DRILLING

SIGNATURE OF CONTRACTOR'S TOOL PUSHER: Jack M Quirk

RIG NO.: 11

DEPTH AT START OF MORNING TOUR	DEPTH AT END OF EVENING TOUR	DAILY PROGRESS	CUMULATIVE ROTATING HOURS	DAYS FROM SPUD	DATE MONTH	DAY	YEAR
4417	4758'	341'		11	APRIL	11	1971

WT. PER FOOT	WT. (FT.)	GRADE	M.N. I.D.	TOOL JT O.D.	TYPE THREAD
4"	14#	E	2 7/8	5 1/4	4 F.H.
6 3/4	101#		2 2/4	6 3/4	5H90

PUMP NO.	PUMP MANUFACTURER	TYPE	STROKE LENGTH
1	NAT	8-P-80	8 1/2
2	NAT	8-P-80	8 1/2

LAST CASING TUBING OR LINER

SIZE	WT. AND GR.	NO. OF JOINTS	FEET	KB TO CSG. HEAD	SET AT	CEMENT USED (SACKS)	REMARKS
9 5/8	36# K55	38	1204		1201	886	

TIME DISTRIBUTION — HOURS

CODE NO	OPERATION	MORN.	DAY	EVE	TOTAL
1	RIG UP TEAR DOWN				
2	DRILLING ACTUAL	3 1/2	7 3/4	7 3/4	
3	REAMING	2 3/4			
4	CORING				
5	CLEAN TO BOTTOM AND CIRCULATING				
6	TRIPS	1 3/4			
7	RIG SERVICE	1/4		1/4	
8	RIG REPAIR				
9	CUT AND/OR SLIP LINE				
10	DEVIATION SURVEY				
11	WIRE LOG				
12	RUN CASING AND CEMENT				
13	WAIT ON CEMENT				
14	NIPPLE UP B.O.P.				
15	TEST B.O.P.		1/4		
16	DRILL STEM TEST				
17	PLUG BACK				
18	SQUEEZE CEMENT				
19	STUCK OR FISHING				
20	HANDLE TOOLS				
21	CONDITION MUD				
22	TEST CIRCULATION				
23					
24					
COMPLETION 40	PERFORATE				
COMPLETION 41	TUBING TRIPS				
COMPLETION 42	TREATING				
COMPLETION 43	SWABBING				
COMPLETION 44	TESTING				
COMPLETION 45					
60	ABANDON				
70	STANDBY				
	TOTALS	8	8	8	
	HOURS FOR SHELL ACCOUNT				
CONTRACTOR EQUIP. RENTAL	BOILER #1	8	8	8	
	BOILER #2	8	8	8	

HOLE CONDITION

1	HOLE DRAG (1000#)
2	TORQUE ON BOTTOM (DP TURNS)
3	FILL ON BOTTOM (FEET)

MORNING TOUR

DRILLING ASSEMBLY AT END OF TOUR

NO	CODE		ID	OD	FT
		BIT			FT.
1	B.	S.	2 7/8	6 3/4	3.96 FT.
1	S.	S.	2	6 3/4	8.50 FT.
1	D	M	3	6 3/4	14.80 FT.
1	S	I.	2 7/8	6 3/4	4.10 FT.
1	G	O.	2 7/8	6 3/4	2.10 FT.
			X		FT.
21	D	S	2 7/8	6 3/4	648.54 FT.
40	DP	STANDS			FT.
1	DP	SINGLES			37.55.38 FT.
	KELLY ~~DOWN~~				34.62 FT.
	TOTAL				4472.00 FT.
	WT. OF DC IN AIR				64 M. LBS.
	WT. OF STRING				115 M. LBS.

BIT RECORD

BIT NO.	4
SIZE	8 3/4
MFG.	SEC.
TYPE	M88
JETS 1/32"	11 11 11
SERIAL NO.	341445
DEPTH OUT	~~4417~~
DEPTH IN	4417
TOTAL FTG.	55
TOTAL HRS. RUN	3 1/2
BIT CONDITION 1/8" T/B/GAGE	1N.
REAMER CUTTER NO.	
REAMER TYPE	

MUD RECORD

TIME	12:00	4:00	7:00
WEIGHT	8.9	8.9	8.9
VIS.-SEC.	37	37	37
PV/YP	/	/	/
GELS	/	/	/
W.L.-C.C.			
PH			
% SOLIDS		-	
% SAND			

MUD MATERIALS ADDED

TYPE	AMOUNT	TYPE	AMOUNT

FOOTAGE

FROM	TO	ROT HOURS	DR-D RM-R CORE-C	CORE NO	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	WT ON BIT (1000#)	PUMP (AIR) PRESS	AIR VOL (CFM)	PUMP NO 1 LINER SIZE	PUMP NO 1 S.P.M.	PUMP NO 2 LINER SIZE	PUMP NO 2 S.P.M.	METHOD PUMPS RUN
4417	4472	3 1/2	55			50	50	2000				6	120	

DEVIATION RECORD

DEPTH	DEVIATION°	DIRECTION	DEPTH	DEVIATION°	DIRECTION	DEPTH	DEVIATION°	DIRECTION
4417	1°							

TIME LOG

FROM	TO	ELAPSED TIME	CODE	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
12.00	1.45	1 3/4		TRIP IN W/ PIPE RAMS. BLIND RAMS & HYDRIL.
1.45	4.30	2 3/4		REAM UNDERGUAGE HOLE 4360 — 4418 = 58 FT.
4.30	8.00	3 1/2		DRLG.
				HELD FIRE DRILL IN CAMP

DRILLER: J. Swosinski

DAY TOUR

DRILLING ASSEMBLY AT END OF TOUR

NO	CODE		ID	OD	FT
		BIT			FT.
1	B.	S.	2 7/8	6 3/4	3.96 FT.
1	S.	S.	2	6 3/4	8.50 FT.
1	D	M	3	6 3/4	14.80 FT.
1	S	I.	2 7/8	6 3/4	4.10 FT.
1	G	O.	2 7/8	6 3/4	2.10 FT.
			X		FT.
21	D	C	2 7/8	6 3/4	648.54 FT.
42	DP	STANDS			3909.46 FT.
	DP	SINGLES			FT.
	KELLY DOWN				17.00
	TOTAL				4608.46
	WT. OF DC IN AIR				64 M LBS.
	WT. OF STRING				118 M LBS.

BIT RECORD

BIT NO.	4
SIZE	8 3/4
MFG.	SEC.
TYPE	M88
JETS 1/32"	11 11 11
SERIAL NO.	341445
DEPTH OUT	
DEPTH IN	4417
TOTAL FTG.	191
TOTAL HRS. RUN	11 1/4
BIT CONDITION 1/8" T/B/GAGE	1N
REAMER CUTTER NO.	
REAMER TYPE	

MUD RECORD

TIME	8.00	12.00	
WEIGHT	8.9	8.8	
VIS.-SEC.	37	36	
PV/YP	/	/	/
GELS	/	/	/
W.L.-C.C.	24		
PH			
% SOLIDS			
% SAND			

MUD MATERIALS ADDED

TYPE	AMOUNT	TYPE	AMOUNT

FOOTAGE

FROM	TO	ROT HOURS	DR-D RM-R CORE-C	CORE NO	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	WT ON BIT (1000#)	PUMP (AIR) PRESS	AIR VOL (CFM)	PUMP NO 1 LINER SIZE	PUMP NO 1 S.P.M.	PUMP NO 2 LINER SIZE	PUMP NO 2 S.P.M.	METHOD PUMPS RUN
4472	4608	7 3/4	136			50	50	2000		6	120	6		
								650		6	60			
					DESILTER		9.8 - 8.9		3 C.P.M.					

DEVIATION RECORD

DEPTH	DEVIATION°	DIRECTION	DEPTH	DEVIATION°	DIRECTION	DEPTH	DEVIATION°	DIRECTION

TIME LOG

FROM	TO	ELAPSED TIME	CODE	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
8.00	8.15	1/4		DRILL
8.15	8.30			CHECK B.O.P. SER. RIG.
8.30	4.00			DRILL
				F. Bengtson 12 hrs.
				HELD B.O.P. DRILL

DRILLER: J. Howsit

EVENING TOUR

DRILLING ASSEMBLY AT END OF TOUR

NO	CODE		ID	OD	FT
		BIT			FT.
1	B.	S.	2 7/8	6 3/4	3.96 FT.
1	S.	S.	2	6 3/4	8.50 FT.
1	D	M	3"	6 3/4	14.80 FT.
1	S.	I.	2 7/8	6 3/4	4.10 FT.
1	G	O.	2 7/8	6 3/4	2.10 FT.
			X		FT.
21	D	C	2 7/8	6 3/4	648.54 FT.
43	DP	STANDS			FT.
2	DP	SINGLES			406.92 FT.
	KELLY DOWN				13.00 FT.
	TOTAL				~~4758.92~~ FT.
	WT. OF DC IN AIR				64M LBS.
	WT. OF STRING				122 M LBS

BIT RECORD

BIT NO.	4
SIZE	8 3/4
MFG.	Sec
TYPE	M88
JETS 1/32"	11 11 11
SERIAL NO.	341445
DEPTH OUT	
DEPTH IN	4417
TOTAL FTG.	341
TOTAL HRS. RUN	19
BIT CONDITION 1/8" T/B/GAGE	
REAMER CUTTER NO.	
REAMER TYPE	

MUD RECORD

TIME	4.00	8.00	10.00
WEIGHT	9.2	8.8	8.9
VIS.-SEC.	35	34	36
PV/YP	/	/	/
GELS	/	/	/
W.L.-C.C.			
PH			
% SOLIDS			
% SAND			

MUD MATERIALS ADDED

TYPE	AMOUNT	TYPE	AMOUNT
GEL	20 BAGS		
BENEX	4 BAGS		

FOOTAGE

FROM	TO	ROT HOURS	DR-D RM-R CORE-C	CORE NO	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	WT ON BIT (1000#)	PUMP (AIR) PRESS.	AIR VOL (CFM)	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN
4608'	4758	7 3/4	150'			50	50	2000		6"	120	6"		
								2200		6"	60			
					1 BBL Tulus #17									

DEVIATION RECORD

DEPTH	DEVIATION°	DIRECTION	DEPTH	DEVIATION°	DIRECTION	DEPTH	DEVIATION°	DIRECTION

TIME LOG

FROM	TO	ELAPSED TIME	CODE	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
4.00	4.15	1/4		Serv. Rig & Swivel.
4.15	12.00	7 3/4		Drlg

DRILLER: E. Johnson

CP-38 (10/69)

DAILY DRILLING REPORT

WELL NAME: SHELL ARCTIC RED WEST G-55

LOCATION: G-55 PROVINCE: N.W.T.

OPERATOR: Shell Canada Limited

SIGNATURE OF OPERATOR'S REPRESENTATIVE: Lew Tracy

CONTRACTOR: GUSTAVSON DRILLING RIG NO. 11

SIGNATURE OF CONTRACTOR'S TOOL PUSHER: Jack M Hunt

DEPTH AT START OF MORNING TOUR	DEPTH AT END OF EVENING TOUR	DAILY PROGRESS	CUMULATIVE ROTATING HOURS	DAYS FROM SPUD	DATE MONTH	DAY	YEAR
3990	4417			10	APRIL	10	1971

DP / DC SIZE	WT / FT	GRADE	MIN. I.D	TOOL JT O.D.	TYPE THREAD
4"	14#	E	2 2/8	5 1/4	F.H.
6 3/4	101#		2 2/8	6 3/4	FH90

PUMP NO.	PUMP MANUFACTURER	TYPE	STROKE LENGTH
1	NAT.	8-P-80	8 1/2"
2	NAT.	8-P-80	8 1/2"

LAST CASING TUBING OR LINER	SIZE	WT. AND GR.	NO. OF JOINTS	FEET	KB TO CSG. HEAD	SET AT	CEMENT USED (SACKS)	REMARKS
	9 5/8	36# X55	38	1204		1201	886	

TIME DISTRIBUTION — HOURS

CODE NO	OPERATION	MORN.	DAY	EVE	TOTAL
1	RIG UP TEAR DOWN				
2	DRILLING ACTUAL	7 1/2	7 3/4	5 1/2	
3	REAMING				
4	CORING				
5	CLEAN TO BOTTOM AND CIRCULATING				
6	TRIPS			1 3/4	
7	RIG SERVICE	1/4		1/4	
8	RIG REPAIR				
9	CUT AND/OR SLIP LINE				
10	DEVIATION SURVEY	1/4		1/2	
11	[redacted] LOG				
12	RUN CASING AND CEMENT				
13	WAIT ON CEMENT				
14	NIPPLE UP B.O.P.				
15	TEST B.O.P.		1/4		
16	DRILL STEM TEST				
17	PLUG BACK				
18	SQUEEZE CEMENT				
19	STUCK OR FISHING				
20	HANDLE TOOLS				
21	CONDITION MUD				
22	[redacted] CIRCULATION				
23					
24					
COMPLETION 40	PERFORATE				
COMPLETION 41	TUBING TRIPS				
COMPLETION 42	TREATING				
COMPLETION 43	SWABBING				
COMPLETION 44	TESTING				
COMPLETION 45					
60	ABANDON				
70	STANDBY				
	TOTALS	8	8	8	
	HOURS FOR SHELL ACCOUNT				
CONTRACTOR EQUIPMENT RENTAL	BOILER #1	8	8	8	
	BOILER #2	8	8	8	

HOLE CONDITION

1	HOLE DRAG (1000#)	
2	TORQUE ON BOTTOM (DP TURNS)	
3	FILL ON BOTTOM (FEET)	

MORNING TOUR

DRILLING ASSEMBLY NO. | CODE AT END OF TOUR

	BIT	ID	OD	FT
1	BS	2 2/8	6 3/4	3.96 FT.
1	SS	2	6 3/4	8.50 FT.
1	DM	3	6 1/16	14.80 FT.
1	SI	2 2/8	6 3/4	4.10 FT.
1	CO	2 2/8	6 3/4	2.10 FT.
			X	FT.
21	DC	2 2/8	6 3/4	648.54 FT.
37	DP STANDS			3445.14 FT.
	DP SINGLES			FT.
	KELLY DOWN			38.00 FT.
	TOTAL			4165.04 FT.

WT. OF DC IN AIR 64M LBS.

WT. OF STRING 110M LBS.

BIT RECORD

BIT NO.	3
SIZE	8 3/4
MFG.	H.W.
TYPE	J44
JETS 1/32"	11 11 11
SERIAL NO.	DJ556
DEPTH OUT	
DEPTH IN	3501
TOTAL FTG.	664
TOTAL HRS. RUN	26 1/4
BIT CONDITION 1/8" T/B/GAGE	1N.
REAMER CUTTER NO.	
REAMER TYPE	

MUD RECORD

TIME	12:00	4:00	7:00
WEIGHT	9.1	9.1	9.0
VIS.-SEC.	30	36	35
PV/YP	/	/	/
GELS.	/	/	/
W.L.-C.C.			
PH			
% SOLIDS			
% SAND			

MUD MATERIALS ADDED

TYPE	AMOUNT	TYPE	AMOUNT
GEL	27 SAX		
BEN-EX	4 SAX		

DRILLING ASSEMBLY NO. | CODE AT END OF TOUR

	BIT	ID	OD	FT
1	BS	2 2/8	6 3/4	3.96 FT.
1	SS	2	6 3/4	8.50 FT.
1	DM	3	6 1/16	14.80 FT.
1	SI	2 2/8	6 3/4	4.10 FT.
1	CO	2 2/8	6 3/4	2.10 FT.
			X	FT.
21	DC	2 2/8	6 3/4	648.54 FT.
39	DP STANDS			3631.26 FT.
	DP SINGLES			FT.
	KELLY DOWN			17.00 FT.
	TOTAL			4330.26 FT.

WT. OF DC IN AIR 64M LBS.

WT. OF STRING 114M LBS.

BIT RECORD

BIT NO.	3
SIZE	8 3/4
MFG.	H.W.
TYPE	J44
JETS 1/32"	11 11 11
SERIAL NO.	DJ556
DEPTH OUT	
DEPTH IN	3501
TOTAL FTG.	829
TOTAL HRS. RUN	34
BIT CONDITION 1/8" T/B/GAGE	1N
REAMER CUTTER NO.	
REAMER TYPE	

MUD RECORD

TIME	8:00	12:00	3:30
WEIGHT	9.0	9.0	9.0
VIS.-SEC.	36	35	36
PV/YP	/	/	/
GELS	/	/	/
W.L.-C.C.			
PH			
% SOLIDS			
% SAND			

MUD MATERIALS ADDED

TYPE	AMOUNT	TYPE	AMOUNT
GEL	-15 SKS		
BEN-EX	- 3 SKS		

DRILLING ASSEMBLY NO. | CODE AT END OF TOUR

	BIT	ID	OD	FT
1	BS	2 2/8	6 3/4	3.96 FT.
1	SS	2"	6 3/4	8.50 FT.
1	DM	3"	6 1/16	14.80 FT.
1	SI	2 2/8	6 3/4	4.10 FT.
1	C/O	2 2/8	6 3/4	2.10 FT.
			X	FT.
21	DC	2 2/8	6 3/4	648.54 FT.
39	DP STANDS			FT.
2	DP SINGLES			369.05 FT.
	KELLY DOWN			42.00 FT.
	TOTAL			4417.05 FT.

WT. OF DC IN AIR 64M LBS.

WT. OF STRING LBS.

BIT RECORD

BIT NO.	3	4
SIZE	8 3/4"	8 3/4
MFG.	H.W.	Sec
TYPE	J44	M88
JETS 1/32"	11 11 11 11 11 11	
SERIAL NO.	DJ556	3H1445
DEPTH OUT	4417'	
DEPTH IN	3501'	4417'
TOTAL FTG.	916'	
TOTAL HRS. RUN	39 1/2	
BIT CONDITION 1/8" T/B/GAGE	9 3/8	
REAMER CUTTER NO.		
REAMER TYPE		

MUD RECORD

TIME	4:00	9:00	
WEIGHT	9.1	9.9	
VIS.-SEC.	35	38	
PV/YP	/	/	/
GELS.	/	/	/
W.L.-C.C.			
PH			
% SOLIDS			
% SAND			

MUD MATERIALS ADDED

TYPE	AMOUNT	TYPE	AMOUNT
GEL	-15 SACKS		
BEN-EX	- 8 BAGS		
WT. MAT	5 BAGS		

FOOTAGE

FROM	TO	ROT HOURS	DR-D RM-R CORE-C	CORE NO.	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT ON BIT (1000#)	PUMP (AIR) PRESS.	AIR VOL (CFM)	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN
3990	4165	7 1/2	175			50	50	2000		6				
					DESILTER 10.2 of 9.1									

DEVIATION RECORD

DEPTH	DEVIATION°	DIRECTION	DEPTH	DEVIATION°	DIRECTION	DEPTH	DEVIATION°	DIRECTION
4014	1°	S80E						

TIME LOG

FROM	TO	ELAPSED TIME	CODE	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
12.00	1.00	1		Drlg.
1.00	1.30	1/2		Rig Serv. & B.O.P.s. Directional Survey.
1.30	8.00	6 1/2		Drlg.
				1 BBL VITREA 41
				1 BBL RIMULA 3-30
				HELD BLOW OUT DRILL WITH CREW.

DRILLER A. Lysowick

FOOTAGE

FROM	TO	ROT HOURS	DR-D RM-R CORE-C	CORE NO.	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT ON BIT (1000#)	PUMP (AIR) PRESS.	AIR VOL (CFM)	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN
4165	4330	7 1/4	165			50	50	2000		6	122	6		
								650		6	60			
					DESILTER 10.2 - 9.1									

DEVIATION RECORD

DEPTH	DEVIATION°	DIRECTION	DEPTH	DEVIATION°	DIRECTION	DEPTH	DEVIATION°	DIRECTION

TIME LOG

FROM	TO	ELAPSED TIME	CODE	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
8.00	8.15			CHECK B.O.P. SER. RIG
8.15	4.00			DRILL
				E. Bengtson 12 hrs.
				HELD B.O.P. MEETING

DRILLER J. Hunt

EVENING TOUR

FOOTAGE

FROM	TO	ROT HOURS	DR-D RM-R CORE-C	CORE NO.	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT ON BIT (1000#)	PUMP (AIR) PRESS.	AIR VOL. (CFM.)	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN
4330'	4417'	5 1/2	87			50	50	2,000		6"	122	6"		
					Desilter 9.5 - 9.0									

DEVIATION RECORD

DEPTH	DEVIATION°	DIRECTION	DEPTH	DEVIATION°	DIRECTION	DEPTH	DEVIATION°	DIRECTION
4417	1°	S83E						

TIME LOG

FROM	TO	ELAPSED TIME	CODE	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
4.00	4.15	1/4		Rig Serv & Swivel
4.15	9.45	5 1/2		Drlg
9.45	10.15	1/2		Run Directional Survey @ 4417'
10.15	12.00	1 3/4		Hoist Bit #3

DRILLER E. Johnson

CP-38 (10/69)

DAILY DRILLING REPORT

WELL NAME: Shell Arctic Red West

LOCATION: G-55

PROVINCE: N.W.T.

OPERATOR: Shell Canada Limited

SIGNATURE OF OPERATOR'S REPRESENTATIVE: Ken Crawford

CONTRACTOR: Gustavson Drlg (1964) LTD.

RIG NO.: 11

SIGNATURE OF CONTRACTOR'S TOOL PUSHER: Jack McLeish

DEPTH AT START OF MORNING TOUR	DEPTH AT END OF EVENING TOUR	DAILY PROGRESS	CUMULATIVE ROTATING HOURS	DAYS FROM SPUD	DATE MONTH	DAY	YEAR
3477	3990	513	20	9	4	9	71

DP./DC. SIZE	WT./FT.	GRADE	MIN. I.D.	TOOL JT O.D.	TYPE THREAD	PUMP NO.	PUMP MANUFACTURER	TYPE	STROKE LENGTH
4"	14#	E	2 7/8	5 1/4	FH	1	Nat	8-P-80	8 1/2
6 3/4	101#		2 7/8	6 3/4	5'H90	2	Nat	8-P-80	8 1/2

LAST CASING TUBING OR LINER

SIZE	WT. AND GR.	NO. OF JOINTS	FEET	KB TO CSG. HEAD	SET AT	CEMENT USED (SACKS)	REMARKS
9 7/8	36# K-55	38	1204		1201	886	

TIME DISTRIBUTION — HOURS

CODE NO.	OPERATION	MORN.	DAY	EVE.	TOTAL
1	RIG UP TEAR DOWN				
2	DRILLING ACTUAL	4 1/2	7 3/4	7 3/4	
3	REAMING				
4	CORING				
5	CLEAN TO BOTTOM AND CIRCULATING				
6	TRIPS	3			
7	RIG SERVICE		1/4		
8	RIG REPAIR				
9	CUT AND/OR SLIP LINE				
10	DEVIATION SURVEY	1/4			
11	WIRE LINE LOG				
12	RUN CASING AND CEMENT				
13	WAIT ON CEMENT				
14	NIPPLE UP B.O.P.				
15	TEST B.O.P.	1/4		1/4	
16	DRILL STEM TEST				
17	PLUG BACK				
18	SQUEEZE CEMENT				
19	STUCK OR FISHING				
20	HANDLE TOOLS				
21	CONDITION MUD				
22	CIRCULATION				
23					
24					
COMPLETION 40	PERFORATE				
COMPLETION 41	TUBING TRIPS				
COMPLETION 42	TREATING				
COMPLETION 43	SWABBING				
COMPLETION 44	TESTING				
COMPLETION 45					
60	ABANDON				
70	STANDBY				
	TOTALS	8	8	8	
	HOURS FOR SHELL ACCOUNT				
CONTRACTOR EQUIPMENT RENTAL	BOILER #1	8	8	8	
	BOILER #2	8	8	8	

HOLE CONDITION

1	HOLE DRAG (1000#)	
2	TORQUE ON BOTTOM (DP TURNS)	
3	FILL ON BOTTOM (FEET)	

DRILLING ASSEMBLY AT END OF TOUR

NO.	CODE		I.D.	O.D.	FT.
1	BS	BIT	2 7/8	6 3/4	3.96
1	SS	2	2	6 3/4	8.50
1	DM	3	2	6 3/4	14.80
1	SI		2 7/8	6 3/4	4.10
1	CO		2 7/8	6 3/4	2.10
			X		
21	DC		2 7/8	6 3/4	648.54
33	DP	STANDS			
1	DP	SINGLES			3103.51
		KELLY DOWN			20
		TOTAL			3805.61
		WT. OF DC IN AIR			64M LBS.
		WT. OF STRING			104M LBS.

BIT RECORD

BIT NO.	2	3
SIZE	8 3/4	8 3/4
MFG.	H.W.	HW
TYPE	X16	J44
JETS 1/32"	11 11 11	11 11 11
SERIAL NO.	22725	DJ556
DEPTH OUT	3501	
DEPTH IN	2772	3501
TOTAL FTG.	729	69
TOTAL HRS. RUN	23	3 1/4
BIT CONDITION 1/8" T/B/GAGE	T 5 1	Dulg
REAMER CUTTER NO.		
REAMER TYPE		

MUD RECORD

TIME	12 00	5 30	7 00
WEIGHT	9.4	9.4	9.2
VIS.-SEC.	32	32	40
PV/YP	/	/	/
GELS	/	/	/
W.L.-C.C.	15.2		15.2
PH			
% SOLIDS			
% SAND			

MUD MATERIALS ADDED

TYPE	AMOUNT	TYPE	AMOUNT
GEL	17 SKS		
BENEX	25 KS		

FOOTAGE

FROM	TO	ROT HOURS	DR-D RM-R CORE-C	CORE NO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M	WT ON BIT (1000#)	PUMP (AIR) PRESS	AIR VOL (CFM)	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M	METHOD PUMPS RUN
2477	3570	4 1/2	93			60	35	2000		6	130			

DEVIATION RECORD

DEPTH	DEVIATION°	DIRECTION	DEPTH	DEVIATION°	DIRECTION	DEPTH	DEVIATION°	DIRECTION
3501	1°							

MORNING TOUR

TIME LOG FROM	TO	ELAPSED TIME	CODE	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
12 00	12 15	1/4		Rig Ser / BOPs & Kelly Valve.
12 15	1 30	1 1/4		Drlg 8 3/4 Hole. W/B.t #2.
1 30	1 45	1/4		Surv
1 45	4 45	3		Trip for B.T. Pick up 3 DC's
4 45	8 00	3 1/4		Drlg 8 3/4 Hole. W/B.t #3.

DRILLER: D. Tindall

FOOTAGE

FROM	TO	ROT HOURS	DR-D RM-R CORE-C	CORE NO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M	WT ON BIT (1000#)	PUMP (AIR) PRESS	AIR VOL (CFM)	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M	METHOD PUMPS RUN
3570	3805	9 3/4	235			50	40	1980		6	120			

DEVIATION RECORD

DEPTH	DEVIATION°	DIRECTION	DEPTH	DEVIATION°	DIRECTION	DEPTH	DEVIATION°	DIRECTION

DAY TOUR

TIME LOG FROM	TO	ELAPSED TIME	CODE	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
8.00	8.15	1/4		RIG SERV. & KELLY COCK & B.OPS. & RUSSELL 3 hrs.
8.15	4.00	7 3/4		DRLG

DRILLER: A. Lysiuk

FOOTAGE

FROM	TO	ROT HOURS	DR-D RM-R CORE-C	CORE NO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M	WT ON BIT (1000#)	PUMP (AIR) PRESS.	AIR VOL. (CFM.)	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN
3805	3990	13	185		+ SAFTEY MEETING REC	50	50	2000		6	123	6		
					DESILTER 10.7	9.3		700		6	60			

DEVIATION RECORD

DEPTH	DEVIATION°	DIRECTION	DEPTH	DEVIATION°	DIRECTION	DEPTH	DEVIATION°	DIRECTION

EVENING TOUR

TIME LOG FROM	TO	ELAPSED TIME	CODE	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
4.00	4.30			DRILL
4.30	4.45			CHECK B.O.P. SER. RIG.
4.45	12.00			DRILL

DRILLER: J. Hourie

DRILLING ASSEMBLY AT END OF TOUR

NO.	CODE		I.D.	O.D.	FT.
1	BS	BIT	2 7/8	6 3/4	3.96
1	SS	2	2	6 3/4	8.50
1	DM	3	2	6 3/4	14.80
1	SI		2 7/8	6 3/4	4.10
1	CO		2 7/8	6 3/4	2.10
			X		
21	DC		2 7/8	6 3/4	648.54
33	DP	STANDS			
1	DP	SINGLES			3290.03
		KELLY DOWN			18.00
		TOTAL			3990.03
		WT. OF DC IN AIR			64M LBS.
		WT. OF STRING			108M LBS.

BIT RECORD

BIT NO.	3	
SIZE	8 3/4	
MFG.	H.W.	
TYPE	J44	
JETS 1/32"	11 11 11	
SERIAL NO.	DJ556	
DEPTH OUT		
DEPTH IN	3501	
TOTAL FTG.	489	
TOTAL HRS. RUN	18 3/4	
BIT CONDITION 1/8" T/B/GAGE	F N	
REAMER CUTTER NO.		
REAMER TYPE		

MUD RECORD

TIME	8.30	12.30	3.30
WEIGHT	9.2	9.2	9.2
VIS.-SEC.	35	37	35
PV/YP	/	/	/
GELS	/	/	/
W.L.-C.C.			
PH			
% SOLIDS			
% SAND			

MUD MATERIALS ADDED

TYPE	AMOUNT	TYPE	AMOUNT
GEL	13 SKS		
BENEX	3 SKS		

CP-38 (10/69)

DAILY DRILLING REPORT

WELL NAME: Shell Arctic Red West

LOCATION: G-55 | PROVINCE:

OPERATOR: Shell Canada Limited | SIGNATURE OF OPERATOR'S REPRESENTATIVE: [signature]

CONTRACTOR: Gustavson Drlg (1964) Ltd | SIGNATURE OF CONTRACTOR'S TOOL PUSHER: [signature] | RIG NO.: 11

DEPTH AT START OF MORNING TOUR	DEPTH AT END OF EVENING TOUR	DAILY PROGRESS	CUMULATIVE ROTATING HOURS	DAYS FROM SPUD	DATE MONTH	DAY	YEAR
2772	3477	705	21 3/4	8	4	8	71

DP./DC. SIZE	WT./FT.	GRADE	MIN. I.D.	TOOL JT O.D.	TYPE THREAD	PUMP NO.	PUMP MANUFACTURER	TYPE	STROKE LENGTH
4"	14#	E	2 7/8	5 1/4	FH	1	NAT	8-P-80	8 1/2
6 3/4"	101#		2 3/8		5H90	2	NAT	7-P-80	8 1/2

LAST CASING TUBING OR LINER

SIZE	WT. AND GR.	NO. OF JOINTS	FEET	KB. TO CSG. HEAD	SET AT	CEMENT USED (SACKS)	REMARKS
9 5/8	36# K-55	38	1204		1201	886	

TIME DISTRIBUTION — HOURS

CODE NO.	OPERATION	MORN.	DAY	EVE.	TOTAL
1	RIG UP TEAR DOWN				
2	DRILLING ACTUAL	7 1/4	7	7 1/2	
3	REAMING				
4	CORING				
5	CLEAN TO BOTTOM AND CIRCULATING				
6	TRIPS	1/2			
7	RIG SERVICE	1/4	1/4		
8	RIG REPAIR		3/4		
9	CUT AND/OR SLIP LINE				
10	DEVIATION SURVEY			1/2	
11	CORE AND/OR E LOG				
12	RUN CASING AND CEMENT				
13	WAIT ON CEMENT				
14	NIPPLE UP B.O.P.				
15	TEST B.O.P.				
16	DRILL STEM TEST				
17	PLUG BACK				
18	SQUEEZE CEMENT				
19	STUCK OR FISHING				
20	HANDLE TOOLS				
21	CONDITION MUD				
22	LOST CIRCULATION				
23					
24					
COMPLETION 40	PERFORATE				
COMPLETION 41	TUBING TRIPS				
COMPLETION 42	TREATING				
COMPLETION 43	SWABBING				
COMPLETION 44	TESTING				
COMPLETION 45					
60	ABANDON				
70	STANDBY				
	TOTALS	8	8		
	HOURS FOR SHELL ACCOUNT				
CONTRACTOR EQUIPMENTAL	BOILER #1	8	8		
	BOILER #2	8	8		

HOLE CONDITION

1	HOLE DRAG (1000#)
2	TORQUE ON BOTTOM (DP TURNS)
3	FILL ON BOTTOM (FEET)

MORNING TOUR

DRILLING ASSEMBLY AT END OF TOUR

NO.	CODE		I.D.	O.D.	FT.
		BIT			
1	BS		2 7/8	6 3/4	3.96 FT.
1	SS		2	6 3/4	8.50 FT.
1	DM		3	6 3/4	14.80 FT.
1	SI		2 7/8	6 3/4	4.10 FT.
1	CO		2 1/8	6	2.10 FT.
		X			FT.
18	DC		2 7/8	6 3/4	555.55 FT.
26	DP	STANDS			FT.
2	DP	SINGLES			2772.80 FT.
		KELLY DOWN			37.00 FT.
		TOTAL			FT.
		WT. OF DC IN AIR			61,529 LBS.
		WT. OF STRING			87 LBS.

BIT RECORD

BIT NO.	2		
SIZE	8 3/4		
MFG.	H.W.		
TYPE	X1G		
JETS 1/32"	11 11 11		
SERIAL NO.	22725		
DEPTH OUT			
DEPTH IN	2772		
TOTAL FTG.	276		
TOTAL HRS. RUN	7 1/4		
BIT CONDITION 1/8" T/B/GAGE			
REAMER CUTTER NO.			
REAMER TYPE			

MUD RECORD

TIME	1.30	4.00	7.00
WEIGHT	9.3	9.2	9.2
VIS.-SEC.	33	36	33
PV/YP	/	/	/
GELS	/	/	/
W.L.-C.C.			
PH			
% SOLIDS			
% SAND			

MUD MATERIALS ADDED

TYPE	AMOUNT	TYPE	AMOUNT
GEL	10 SKS		
BENEX	2 SKS		

FOOTAGE

FROM	TO	ROT HOURS	DR-D RM-R CORE-C	CORE NO	FORMATION (SHOW CORE RECOVERY)	ROTARY R P M	WT ON BIT (1000#)	PUMP (AIR) PRESS	AIR VOL (CFM)	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S P M	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S P M	METHOD PUMPS RUN
2772	3048	7 1/4	276			80	35	1650		6	120			

DEVIATION RECORD

DEPTH	DEVIATION°	DIRECTION	DEPTH	DEVIATION°	DIRECTION	DEPTH	DEVIATION°	DIRECTION

TIME LOG

FROM	TO	ELAPSED TIME	CODE	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
12.00	12.15	1/4		Rig SERV BOPs.
12.15	12.45	1/2		RUN IN CLEAN TO BOTTOM
12.45	8.00	7 1/4		Drlg 8 3/4 HOLE
		7 1/4 / 8		

DRILLER: D. Lindall

DAYTOUR

DRILLING ASSEMBLY AT END OF TOUR

NO.	CODE		I.D.	O.D.	FT.
		BIT			
1	BS		2 7/8	6 3/4	3.96 FT.
1	SS		2	6 3/4	8.50 FT.
1	DM		3	6 3/4	14.80 FT.
1	SI		2 7/8	6 3/4	4.10 FT.
1	CO		2 1/8	6	2.10 FT.
		X			FT.
18	DC		2 7/8	6 3/4	555.55 FT.
28	DP	STANDS			FT.
2	DP	SINGLES			2670.60 FT.
		KELLY DOWN			.8 FT.
		TOTAL			3280.19 FT.
		WT. OF DC IN AIR			LBS.
		WT. OF STRING			90 M. LBS.

BIT RECORD

BIT NO.	2		
SIZE	8 3/4		
MFG.	H.W.		
TYPE	X1G		
JETS 1/32"	11 11 11		
SERIAL NO.	22725		
DEPTH OUT			
DEPTH IN	2772		
TOTAL FTG.	508		
TOTAL HRS. RUN	14 1/4		
BIT CONDITION 1/8" T/B/GAGE	1/1		
REAMER CUTTER NO.			
REAMER TYPE			

MUD RECORD

TIME	8.30	12.30	
WEIGHT	9.2	9.2	9.2
VIS.-SEC.	33	33	35
PV/YP	/	/	/
GELS	/	/	/
W.L.-C.C.			
PH			
% SOLIDS			
% SAND			

MUD MATERIALS ADDED

TYPE	AMOUNT	TYPE	AMOUNT
GEL	18 SAX		
BENEX	3 SAX		

FOOTAGE

FROM	TO	ROT HOURS	DR-D RM-R CORE-C	CORE NO	FORMATION (SHOW CORE RECOVERY)	ROTARY R P M	WT ON BIT (1000#)	PUMP (AIR) PRESS	AIR VOL (CFM)	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S P M	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S P M	METHOD PUMPS RUN
3048	3280	7	232			80	35	1650		6	120			

DEVIATION RECORD

DEPTH	DEVIATION°	DIRECTION	DEPTH	DEVIATION°	DIRECTION	DEPTH	DEVIATION°	DIRECTION

TIME LOG

FROM	TO	ELAPSED TIME	CODE	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
8.00	9.00	1		BREAK OFF VALVE SUB + SAVER SUB TO MAG-NA-FLEX
				RIG SERV. + V BOPS.
9.00	4.00	7 / 8		DRLG

DRILLER: A. Lwosiuk

EVENING TOUR

DRILLING ASSEMBLY AT END OF TOUR

NO.	CODE		I.D.	O.D.	FT.
		BIT			
1	BS		2 7/8	6 3/4	3.96 FT.
1	SS		2	6 3/4	8.50 FT.
1	DM		3	6 3/4	14.80 FT.
1	SI		2 7/8	6 3/4	4.10 FT.
1	CO		2 1/8	6	2.10 FT.
		X			FT.
18	DC		2 7/8	6 3/4	555.55 FT.
30	DP	STANDS			FT.
2	DP	SINGLES			2856.74 FT.
		KELLY DOWN			32.00 FT.
		TOTAL			3477.75
		WT. OF DC IN AIR			LBS.
		WT. OF STRING			96 M LBS.

BIT RECORD

BIT NO.	2		
SIZE	8 3/4		
MFG.	H.W.		
TYPE	X1G		
JETS 1/32"	11 11 11		
SERIAL NO.	22725		
DEPTH OUT			
DEPTH IN	2772		
TOTAL FTG.	705		
TOTAL HRS. RUN	21 3/4		
BIT CONDITION 1/8" T/B/GAGE	1/1		
REAMER CUTTER NO.			
REAMER TYPE			

MUD RECORD

TIME	4.00	8.00	11.00
WEIGHT	9.2	9.2	9.2
VIS.-SEC.	35	34.0	37
PV/YP	/	/	/
GELS	/	/	/
W.L.-C.C.			
PH			
% SOLIDS			
% SAND			

MUD MATERIALS ADDED

TYPE	AMOUNT	TYPE	AMOUNT
GEL	21 SKS		
BENEX	3 SKS		

FOOTAGE

FROM	TO	ROT HOURS	DR-D RM-R CORE-C	CORE NO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT. ON BIT (1000#)	PUMP (AIR) PRESS.	AIR VOL. (CFM)	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN
3280	3477	7 1/2	197			80	35	1700		6	120	6		
								575		6	60			
					DESILTER	10.5		9.3		3 G.P.M.				

DEVIATION RECORD: 3272 | 1 1/4

TIME LOG

FROM	TO	ELAPSED TIME	CODE	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
4.00	4.30	1/2		DRILL
4.30	5.00	1/2		SURVEY B.O.P. RIG SER.
5.00	12.00	7		DRILL

DRILLER: J. Hamil

CP-38 (10/69)

DAILY DRILLING REPORT

WELL NAME		
Shell Arctic Red West		
LOCATION: G-55	PROVINCE: N.W.T.	

OPERATOR	CONTRACTOR	RIG NO.	DEPTH AT START OF MORNING TOUR	DEPTH AT END OF EVENING TOUR	DAILY PROGRESS	CUMULATIVE ROTATING HOURS	DAYS FROM SPUD	DATE MONTH	DAY	YEAR
Shell Canada Limited	Gustafson Drlg (1964) LTD	11	2335	2772	437	31¼	7	4	7	71
SIGNATURE OF OPERATOR'S REPRESENTATIVE: [signature]	SIGNATURE OF CONTRACTOR'S TOOL PUSHER: [signature]									

DP./DC. SIZE	WT./FT.	GRADE	MIN. I.D.	TOOL JT O.D.	TYPE THREAD	PUMP NO.	PUMP MANUFACTURER	TYPE	STROKE LENGTH
4½	14#	E	2⅞	5¼	FH	1	Nat	8-P-80	8½
6¼	101#		2⅞		5 H90	2	Nat	8-P-80	8½

LAST CASING TUBING OR LINER	SIZE	WT. AND GR.	NO. OF JOINTS	FEET	KB. TO CSG HEAD	SET AT	CEMENT USED (SACKS)	REMARKS
	9⅝	36# K-55	38	1204		1201	886	

TIME DISTRIBUTION ~ HOURS

CODE NO.	OPERATION	MORN.	DAY	EVE.	TOTAL
1	RIG UP TEAR DOWN				
2	DRILLING ACTUAL	7¾	7		
3	REAMING				
4	CORING				
5	CLEAN TO BOTTOM AND CIRCULATING				
6	TRIPS			3¼	
7	RIG SERVICE	¼	¼		
8	RIG REPAIR				
9	CUT AND/OR SLIP LINE				
10	DEVIATION SURVEY		½		
11	CORE LOG				
12	RUN CASING AND CEMENT				
13	WAIT ON CEMENT				
14	NIPPLE UP B.O.P.				
15	TEST B.O.P.				
16	DRILL STEM TEST				
17	PLUG BACK				
18	SQUEEZE CEMENT				
19	STUCK OR FISHING				
20	HANDLE TOOLS				
21	CONDITION MUD				
22	LOST CIRCULATION				
23	INSPECT COLLARS			4¾	
24	Work pipe		¼		
40	PERFORATE				
41	TUBING TRIPS				
42	TREATING				
43	SWABBING				
44	TESTING				
45					
60	ABANDON				
70	STANDBY				
	TOTALS	8	8	8	
	HOURS FOR SHELL ACCOUNT				
	CONTRACTOR EQUIP RENTAL: Boiler #1			8	
	#2			8	

HOLE CONDITION

1	HOLE DRAG (1000#)	
2	TORQUE ON BOTTOM (DP TURNS)	
3	FILL ON BOTTOM (FEET)	

MORNING TOUR

Drilling Assembly at End of Tour

NO.	CODE	BIT	FT.
1	BS	2⅞ x 6¼	3.96
1	SS	2 x 6¼	8.50
1	MC	2⅞ x 6¼	2.10
18	DC	2⅞ x 6¼	555.97
21	DP STANDS		
1	DP SINGLES		1986.20
	KELLY DOWN		14.00
	TOTAL		2570
	WT. OF DC IN AIR		61,529 LBS
	WT. OF STRING		82m LBS.

Bit Record

BIT NO.	1
SIZE	8¾
MFG.	H.W.
TYPE	X1G
JETS 1/32"	10 10 10
SERIAL NO.	17637
DEPTH OUT	
DEPTH IN	1201
TOTAL FTG.	1369
TOTAL HRS. RUN	30¼
BIT CONDITION 1/8" T/B/GAGE	IN
REAMER CUTTER NO.	
REAMER TYPE	

Mud Record

TIME	12³⁰	4⁰⁰	7⁰⁰
WEIGHT	9.4	9.3	9.2
VIS.-SEC.	28	28	31
PV/YP	/	/	/
GELS	/	/	/
W.L.-C.C.	/	/	/
PH			
% SOLIDS			
% SAND			

MUD MATERIALS ADDED

TYPE	AMOUNT	TYPE	AMOUNT
Gel	33 SAX		
Benex	3 SAX		

Footage

FROM	TO	ROT HOURS	DR-D RM-R CORE-C	CORE NO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT ON BIT (1000#)	PUMP (AIR) PRESS	AIR VOL (CFM)	PUMP NO. 1 LINER SIZE	S.P.M.	PUMP NO. 2 LINER SIZE	S.P.M.	METHOD PUMPS RUN
2335	2570	7¾	235			80	35	2000		6	120			
								600		6	60			

DEVIATION RECORD: (none)

TIME LOG FROM	TO	ELAPSED TIME	CODE	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
12⁰⁰	12¹⁵	¼		Rig Ser ✓ BOPs.
12¹⁵	8⁰⁰	7¾		Drlg 8¾" Hole.
		8		

DRILLER: D. Tindall

DAY TOUR

Drilling Assembly at End of Tour

NO.	CODE	BIT	FT.
1	BS	2⅞ x 6¼	3.96
1	SS	2 x 6¼	8.50
1	C	2⅞ x 6¼	2.10
18	DC	2⅞ x 6¼	555.97
23	DP STANDS		
1	DP SINGLES		2172.32
	KELLY DOWN		30.00
	TOTAL		2772.85
	WT. OF DC IN AIR		
	WT. OF STRING		84M. LBS.

Bit Record

BIT NO.	1
SIZE	8¾
MFG.	H.W.
TYPE	X1G
JETS 1/32"	10 10 10
SERIAL NO.	17637
DEPTH OUT	2772
DEPTH IN	1201
TOTAL FTG.	1572
TOTAL HRS. RUN	37¼
BIT CONDITION 1/8" T/B/GAGE	7 4 0
REAMER CUTTER NO.	
REAMER TYPE	

Mud Record

TIME	8.00	11.30	3.30
WEIGHT	9.2	9.2	9.2
VIS.-SEC.	33	32	35
PV/YP	/	/	/
GELS	/	/	/
W.L.-C.C.	/	/	/
PH			
% SOLIDS			
% SAND			

MUD MATERIALS ADDED

TYPE	AMOUNT	TYPE	AMOUNT
Gel	30 SAX		
Benex	6 SAX		

Footage

FROM	TO	ROT HOURS	DR-D RM-R CORE-C	CORE NO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT ON BIT (1000#)	PUMP (AIR) PRESS	AIR VOL (CFM)	PUMP NO. 1 LINER SIZE	S.P.M.	PUMP NO. 2 LINER SIZE	S.P.M.	METHOD PUMPS RUN
2570	2772	7	202			80	35	2000		6	120			
								625		6	60			

DEVIATION RECORD

DEPTH	DEVIATION°	DIRECTION
2598	7/8	

TIME LOG FROM	TO	ELAPSED TIME	CODE	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
				10 hr mech - B. Russell
8.00	9.00	1		DRLG.
9.00	9.30	½		WORK TIGHT HOLE RUN SURVEY ✓ B.O.P.S RIG SERVICE
9.30	3.30	6		DRLG
3.30	4.00	½		CIRC + WORK PIPE. DROP SURVEY
		8	4 HRS	OVERTIME. STOCKPILING MUD ON LEASE.
				A. EWASIUK L. SCOTT
				L. BRAZEL R. LANGLOIS.

DRILLER: A. Ewasiuk

EVENING TOUR

Drilling Assembly at End of Tour

NO.	CODE	BIT	FT.
1	BS	2⅞ x 6¼	3.96
1	SS	2 x 6¼	8.50
1	MON	2⅞ x 6¼	14.80
1	SS	2⅞ x 6¼	4.10
1	C	2⅞ x 6¼	2.10
18	DC	2⅞ x 6¼	555.55
23	DP STANDS		
1	DP SINGLES		2174.61
	KELLY DOWN		
	TOTAL		
	WT. OF DC IN AIR		LBS.
	WT. OF STRING		87m LBS.

Bit Record

BIT NO.	2
SIZE	8¾
MFG.	H.W.
TYPE	X1G
JETS 1/32"	11 11 11
SERIAL NO.	22725
DEPTH OUT	
DEPTH IN	2772
TOTAL FTG.	
TOTAL HRS. RUN	
BIT CONDITION 1/8" T/B/GAGE	
REAMER CUTTER NO.	
REAMER TYPE	

Mud Record

TIME			
WEIGHT			
VIS.-SEC.			
PV/YP			
GELS			
W.L.-C.C.			
PH			
% SOLIDS			
% SAND			

MUD MATERIALS ADDED

TYPE	AMOUNT	TYPE	AMOUNT

Footage

FROM	TO	ROT HOURS	DR-D RM-R CORE-C	CORE NO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT ON BIT (1000#)	PUMP (AIR) PRESS	AIR VOL (CFM)	PUMP NO. 1 LINER SIZE	S.P.M.	PUMP NO. 2 LINER SIZE	S.P.M.	METHOD PUMPS RUN
2772														

DEVIATION RECORD

DEPTH	DEVIATION°	DIRECTION
2770	1°	

TIME LOG FROM	TO	ELAPSED TIME	CODE	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
4.00	5.00	1		PULL OUT LAY DOWN 18 SINGLES
5.00	9.45	4¾		INSPECT D.C.S LAY DOWN 3 D.C.
9.45	12.00	2¼		RUN IN PICK UP 3 D.C. MONEL
				+ 1 STAB.
				HELD BLOWOUT DRILL

DRILLER: J. [signature]

CP-38 (10/69)

DAILY DRILLING REPORT

WELL NAME: Shell Arctic Red West

LOCATION: G-55 | PROVINCE: N.W.T.

OPERATOR: Shell Canada Limited | CONTRACTOR: Gustafson Drlg (1964) LTD | RIG NO.: 11

SIGNATURE OF OPERATOR'S REPRESENTATIVE: Ian Crawford | SIGNATURE OF CONTRACTOR'S TOOL PUSHER: W. Sowinski

DEPTH AT START OF MORNING TOUR	DEPTH AT END OF EVENING TOUR	DAILY PROGRESS	CUMULATIVE ROTATING HOURS	DAYS FROM SPUD	DATE MONTH	DAY	YEAR
1201	2335	1134	22½	6	4	6	71

DP. / DC. SIZE	WT./FT.	GRADE	MIN. I.D.	TOOL JT O.D.	TYPE THREAD	PUMP NO.	PUMP MANUFACTURER	TYPE	STROKE LENGTH
4	14	E	2⅞	5¼	4FH	1	Nat	8-P-80	8½
5¾	101	E	2⅞	6¾	5H90	2	Nat	8-P-80	8½

LAST CASING TUBING OR LINER

SIZE	WT. AND GR.	NO. OF JOINTS	FEET	KB. TO CSG. HEAD	SET AT	CEMENT USED (SACKS)	REMARKS
9⅝	36# K-55	38	1204		1201	886	

TIME DISTRIBUTION – HOURS

CODE NO.	OPERATION	MORN.	DAY	EVE.	TOTAL
1	RIG UP TEAR DOWN				
2	DRILLING ACTUAL	7¼	7¾	7½	22½
3	REAMING				
4	CORING				
5	CLEAN TO BOTTOM AND CIRCULATING				
6	TRIPS				
7	RIG SERVICE	¼	¼		½
8	RIG REPAIR				
9	CUT AND/OR SLIP LINE				
10	DEVIATION SURVEY	¼		¼	½
11	[illegible] LOG				
12	RUN CASING AND CEMENT				
13	WAIT ON CEMENT				
14	NIPPLE UP B.O.P.				
15	TEST B.O.P.'s & MANIFOLD	¼		¼	½
16	DRILL STEM TEST				
17	PLUG BACK				
18	SQUEEZE CEMENT				
19	STUCK OR FISHING				
20	HANDLE TOOLS				
21	CONDITION MUD				
22	[illegible] CIRCULATION				
23					
24					
COMPLETION 40	PERFORATE				
COMPLETION 41	TUBING TRIPS				
COMPLETION 42	TREATING				
COMPLETION 43	SWABBING				
COMPLETION 44	TESTING				
COMPLETION 45					
60	ABANDON				
70	STANDBY				
	TOTALS	8	8	8	24
	HOURS FOR SHELL ACCOUNT				
CONTRACTOR EQUIP RENTAL	BOILER #1	8	8		
	Boiler #2	8	8		

HOLE CONDITION

1	HOLE DRAG (1000#)	
2	TORQUE ON BOTTOM (DP TURNS)	
3	FILL ON BOTTOM (FEET)	

MORNING TOUR

DRILLING ASSEMBLY AT END OF TOUR

NO.	CODE		I.D.	O.D.	FT.
1	BS	BIT	2⅞	6¾	3.96
1	SS	2	2	6¾	8.50
1	C	1	2⅞	6¾	2.10
18	DC		2⅞	6¾	555.97
			I.D.	O.D.	
			X		FT.
			I.D.	O.D.	
			X		FT.
			I.D.	O.D.	
			X		FT.
12	DP	STANDS			FT
2	DP	SINGLES			117.74
		KELLY DOWN			1800 FT.
		TOTAL			1766.27
		WT. OF DC IN AIR			61529 LBS.
		WT. OF STRING			72M LBS.

BIT RECORD

BIT NO.	1
SIZE	8¾
MFG.	H.W.
TYPE	X1G
JETS 1/32"	10/10/10
SERIAL NO.	17637
DEPTH OUT	
DEPTH IN	1201
TOTAL FTG.	565
TOTAL HRS. RUN	7¼
BIT CONDITION 1/8" T/B/GAGE	1/N
REAMER CUTTER NO.	
REAMER TYPE	

MUD RECORD

TIME	130	430	630
WEIGHT	8.4	8.6	8.7
VIS.-SEC.	28	30	32
PV/YP	/	/	/
GELS	/	/	/
W.L.-C.C.			
PH			
% SOLIDS			
% SAND			

MUD MATERIALS ADDED

TYPE	AMOUNT	TYPE	AMOUNT
BARCARB	6 SAX		
GEL	20 SAX		
BENEX	4 SAX		

FOOTAGE

FROM	TO	ROT. HOURS	DR-D RM-R CORE-C	CORE NO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT. ON BIT (1000#)	PUMP (AIR) PRESS	AIR VOL. (CFM)	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN
1201	1766	7¼	565			80	30	1800		6	120			

DEVIATION RECORD

DEPTH	DEVIATION°	DIRECTION	DEPTH	DEVIATION°	DIRECTION	DEPTH	DEVIATION°	DIRECTION
1709	½°							

TIME LOG

FROM	TO	ELAPSED TIME	CODE	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
12⁰⁰				PRESSURE TEST Kelly Cock & Kelly Valve to 1500 PSI
	12¹⁵	¼		Test Motor Shut offs OK.
12¹⁵	12³⁰	¼		Rig Ser.
12³⁰	6³⁰	6		Drlg out shoe & Drlg 8¾" Hole.
6³⁰	6⁴⁵	¼		Survey.
6⁴⁵	8⁰⁰	1¼		Drlg 8¾ Hole.

DRILLER: D. Lindall

DAY TOUR

DRILLING ASSEMBLY AT END OF TOUR

NO.	CODE		I.D.	O.D.	FT.
1	BS	BIT	2⅞	6¾	3.96
1	SS	2	2	6¾	8.50
1	C	1	2⅞	6¾	2.10
18	DC		2⅞	6¾	555.97
16	DP	STANDS			FT
1	DP	SINGLES			1520.43
		KELLY DOWN			34.84 FT.
		TOTAL			2126.00 FT.
		WT. OF DC IN AIR			LBS.
		WT. OF STRING			76M LBS.

BIT RECORD

BIT NO.	1
SIZE	8¾
MFG.	H.W.
TYPE	X1G
JETS 1/32"	10/10/10
SERIAL NO.	17637
DEPTH OUT	
DEPTH IN	1201
TOTAL FTG.	925
TOTAL HRS. RUN	15
BIT CONDITION 1/8" T/B/GAGE	1/N
REAMER CUTTER NO.	
REAMER TYPE	

MUD RECORD

TIME	8.00	1200	3.30
WEIGHT	8.9	9.0	9.3
VIS.-SEC.	28	33	35
PV/YP	/	/	/
GELS	/	/	/
W.L.-C.C.			
PH			
% SOLIDS			
% SAND			

MUD MATERIALS ADDED

TYPE	AMOUNT	TYPE	AMOUNT
GEL	35 SAX		
BEN-EX	7 SHV		
CAUSTIC	1 SAK		

FOOTAGE

FROM	TO	ROT HOURS	DR-D RM-R CORE-C	CORE NO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT. ON BIT (1000#)	PUMP (AIR) PRESS	AIR VOL. (CFM)	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN
1766	2126	7¾	360			80	30	2000		6"	120			

DEVIATION RECORD

DEPTH	DEVIATION°	DIRECTION	DEPTH	DEVIATION°	DIRECTION	DEPTH	DEVIATION°	DIRECTION

TIME LOG

FROM	TO	ELAPSED TIME	CODE	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
8.00	8.15	¼		RIG SERV. & V BORS.
8.15	4.00	7¾		DRLG.
				Shaw P. Russell
		~~7~~	4 HRS	OVERTIME LAYING TIMBERS & STOCK PILING CEMENT. A. Ewasiuk. L. Scott.

DRILLER: A. Ewasiuk

EVENING TOUR

DRILLING ASSEMBLY AT END OF TOUR

NO.	CODE		I.D.	O.D.	FT.
1	BS	BIT	2⅞	6¾	3.96
1	SS	2	2	6¾	8.50
1	C	1	2⅞	6¾	2.10
18	DC		2⅞	6¾	555.97
18	DP	STANDS			1738.42
2	DP	SINGLES			72 FT.
		KELLY DOWN			37 FT.
		TOTAL	2		335.95 FT.
		WT. OF DC IN AIR			LBS.
		WT. OF STRING			80M LBS.

BIT RECORD

BIT NO.	1
SIZE	8¾
MFG.	H.W.
TYPE	X1G
JETS 1/32"	10/10/10
SERIAL NO.	17637
DEPTH OUT	
DEPTH IN	1201
TOTAL FTG.	1134
TOTAL HRS. RUN	22½
BIT CONDITION 1/8" T/B/GAGE	1/N
REAMER CUTTER NO.	
REAMER TYPE	

MUD RECORD

TIME	4.00	8.00	
WEIGHT	9.2	9.3	
VIS.-SEC.	35	35	
PV/YP	/	/	/
GELS	/	/	/
W.L.-C.C.			
PH			
% SOLIDS			
% SAND			

MUD MATERIALS ADDED

TYPE	AMOUNT	TYPE	AMOUNT
GEL	~~5~~ 3 sks.		
BENEX	3 SKS		

FOOTAGE

FROM	TO	ROT HOURS	DR-D RM-R CORE-C	CORE NO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT. ON BIT (1000#)	PUMP (AIR) PRESS	AIR VOL. (CFM)	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN
2126	2335	7½	209			90	30	1200		6	120	6		
								600		6	60			

DEVIATION RECORD

DEPTH	DEVIATION°	DIRECTION	DEPTH	DEVIATION°	DIRECTION	DEPTH	DEVIATION°	DIRECTION
2120	1¼							

TIME LOG

FROM	TO	ELAPSED TIME	CODE	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
4.00	4.15	¼		CHECK B.O.P. SER. RIG.
4.15	4.30	¼		DRILL
4.30	4.45	¼		SURVEY
4.45	12.00	7¼		DRILL

DRILLER: J. Homik

CP-38 (10/69)

DAILY DRILLING REPORT

WELL NAME: SHELL ARCTIC RED ~~RIVER~~ WEST.

LOCATION: G-55 PROVINCE: N.W.T.

OPERATOR: Shell Canada Limited

SIGNATURE OF OPERATOR'S REPRESENTATIVE: L. Brown

CONTRACTOR: GUSTAVSON RIG NO.: 11

SIGNATURE OF CONTRACTOR'S TOOL PUSHER: M. Smith

DEPTH AT START OF MORNING TOUR	DEPTH AT END OF EVENING TOUR	DAILY PROGRESS	CUMULATIVE ROTATING HOURS	DAYS FROM SPUD	DATE MONTH	DAY	YEAR
1201				5	4	5	71

DP. / DC. SIZE	WT. / FT.	GRADE	MIN. I.D.	TOOL JT O.D.	TYPE THREAD	PUMP NO.	PUMP MANUFACTURER	TYPE	STROKE LENGTH

LAST CASING TUBING OR LINER: SIZE 9 3/8 | WT. AND GR. 36# K55 | NO. OF JOINTS 38 | FEET 1204 | KB. TO CSG. HEAD | SET AT 1201 | CEMENT USED (SACKS) 886 SKS PERMOFROST 267, PORTLAND 619 | REMARKS

TIME DISTRIBUTION – HOURS

CODE NO.	OPERATION	MORN.	DAY	EVE.	TOTAL
1	RIG UP TEAR DOWN				
2	DRILLING ACTUAL FLOAT			3/4	3/4
3	REAMING				
4	CORING				
5	CLEAN TO BOTTOM AND CIRCULATING			1/2	1/2
6	TRIPS			2 1/4	2 1/4
7	RIG SERVICE				
8	RIG REPAIR				
9	CUT AND/OR SLIP LINE				
10	DEVIATION SURVEY				
11	[illegible] LOG				
12	RUN CASING AND CEMENT	3			3
13	WAIT ON CEMENT				
14	NIPPLE UP B.O.P.	5	8	3 1/2	16 1/2
15	TEST B.O.P.			1	1
16	DRILL STEM TEST				
17	PLUG BACK				
18	SQUEEZE CEMENT				
19	STUCK OR FISHING				
20	HANDLE TOOLS				
21	CONDITION MUD				
22	[illegible] CIRCULATION				1
23					
24					1
COMPLETION 40	PERFORATE				
41	TUBING TRIPS				
42	TREATING				
43	SWABBING				
44	TESTING				
45					
60	ABANDON				
70	STANDBY				
	TOTALS	8	8	8	24
	HOURS FOR SHELL ACCOUNT	8	8	8	24
CONTRACTOR EQUIP. RENTAL	BOILER 1	8		8	
	2	8		8	
	CODE 232 B.				

HOLE CONDITION

1	HOLE DRAG (1000#)	
2	TORQUE ON BOTTOM (DP TURNS)	
3	FILL ON BOTTOM (FEET)	

DRILLING ASSEMBLY NO. | CODE AT END OF TOUR

BIT				FT.
		I.D.	O.D.	FT.
		X		FT.
DP	STANDS			FT.
DP	SINGLES			FT.
KELLY DOWN				FT.
TOTAL				FT.
WT. OF DC IN AIR				LBS.
WT. OF STRING				LBS.

BIT RECORD

BIT NO.	RE CEMENT
SIZE	RAN 1" x TAGGED CEMENT @ 190'
MFG.	HUNG 1" PIPE @ 190' KB
TYPE	CEMENTED W/ 77 SACKS
JETS 1/32"	PERMOFROST CEMENT
SERIAL NO.	89 SAXS PORTLAND CEMENT
DEPTH OUT	GOOD CEMENT RETURNS
DEPTH IN	TO SURFACE.
TOTAL FTG.	
TOTAL HRS. RUN	
BIT CONDITION 1/8" T/B/GAGE	
REAMER CUTTER NO.	
REAMER TYPE	

MUD RECORD

TIME	CSG OUTSIDE
WEIGHT	CEMENT @ 190'
VIS-SEC	@ 190' KB
PV/YP	
GELS	CEMENT
W.L.-C.C.	PORTLAND CEMENT
PH	
% SOLIDS	
% SAND	

MUD MATERIALS ADDED

TYPE	AMOUNT	TYPE	AMOUNT

MORNING TOUR

FOOTAGE

FROM	TO	ROT HOURS	DR-D RM-R CORE-C	CORE NO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT. ON BIT (1000#)	PUMP (AIR) PRESS.	AIR VOL. (CFM)	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN
1201														

DEVIATION RECORD

DEPTH	DEVIATION°	DIRECTION	DEPTH	DEVIATION°	DIRECTION	DEPTH	DEVIATION°	DIRECTION

TIME LOG

FROM	TO	ELAPSED TIME	CODE	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
12:00				Rig up 1 in LINE TO CEMENT Csg ON outside.
	3:00	3		& Cement Csg w/ 89 sacks of INLAND cement.
3:00				WOC. CLEAN CELLAR 77 SAXS PERMOFROST CEMENT & WELD ON Csg BOWL.
	8:00	5		PRESSURE TEST Csg BOWL TO 3000 PSI.
				HEAD up BOPs.

DRILLER: D. Lundell

DAY TOUR

FOOTAGE

FROM	TO	ROT HOURS	DR-D RM-R CORE-C	CORE NO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT. ON BIT (1000#)	PUMP (AIR) PRESS.	AIR VOL. (CFM)	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN
1201														

DEVIATION RECORD

DEPTH	DEVIATION°	DIRECTION	DEPTH	DEVIATION°	DIRECTION	DEPTH	DEVIATION°	DIRECTION

TIME LOG

FROM	TO	ELAPSED TIME	CODE	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
8:00				PICK UP B.O.P.S NIPPLE UP
	4:00	8.		MAKE UP & LAY FLARE LINES.
				WELDER – LEON CASAUMANT 4 HRS OVERTIME
				4 HRS. OVERTIME CLEANING YARD & STACKING CEMENT
				A. EWASIUK L. SCOTT.
				L. BRAZEL R. LANGLOIS.

DRILLER: A. Ewasiuk

EVENING TOUR

FOOTAGE

FROM	TO	ROT HOURS	DR-D RM-R CORE-C	CORE NO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT. ON BIT (1000#)	PUMP (AIR) PRESS.	AIR VOL. (CFM)	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN
1201								1800		6	120			
					TAGGED FLOAT COLLAR AT 1165'			575		6	60			

DEVIATION RECORD

DEPTH	DEVIATION°	DIRECTION	DEPTH	DEVIATION°	DIRECTION	DEPTH	DEVIATION°	DIRECTION

TIME LOG

FROM	TO	ELAPSED TIME	CODE	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
4.00	7.30	3 1/2		NIPPLE UP.
7.30	8:00	1/2		PRESSURE BLIND RAMS & MANIFOLD TO 1500 P.S.I. O.K. CHECKED D.C.'S
8.00	10.15	2 1/4		PICK UP S.S. & D.C. & RUN IN.
10.15	10.45	1/2		DISPLACE HEAVY MUD IN CSG TO WATER
10.45	11.15	1/2		PRESSURE HYDRIL & PIPE RAMS TO 1500 P.S.I. O.K.
11.15	12.00	3/4		DRILL ON FLOAT

DRILLER: J. Homick

DRILLING ASSEMBLY NO. | CODE AT END OF TOUR

BIT				FT.
1	BS	I.D. 2 8	O.D. 6 4	3.96 FT.
1	SS	I.D. 2	O.D. 6 4	8.50 FT.
1	C	I.D. 2 8	O.D. 6 4	2.10 FT.
		I.D.	O.D.	FT.
		I.D.	O.D.	FT.
		X		FT.
18	DC	I.D. 2 8	O.D. 6 4	555.97
6	DP	STANDS		557.40
	DP	SINGLES		FT.
KELLY DOWN				40.00
TOTAL				1168.93
WT. OF DC IN AIR				LBS.
WT. OF STRING				LBS.

BIT RECORD

BIT NO.	1
SIZE	8 3/4
MFG.	H.W.
TYPE	X1G
JETS 1/32"	10 10 10
SERIAL NO.	17637
DEPTH OUT	
DEPTH IN	1201
TOTAL FTG.	
TOTAL HRS. RUN	
BIT CONDITION 1/8" T/B/GAGE	IN
REAMER CUTTER NO.	
REAMER TYPE	

MUD RECORD

TIME	
WEIGHT	
VIS.-SEC.	
PV/YP	
GELS	
W.L.-C.C.	
PH	
% SOLIDS	
% SAND	

MUD MATERIALS ADDED

TYPE	AMOUNT	TYPE	AMOUNT

CP-38 (10/69)

DAILY DRILLING REPORT

WELL NAME: Shell Artic Red River west

LOCATION: G-55

PROVINCE: N.W.T.

OPERATOR: **Shell Canada Limited**

CONTRACTOR: Gustavson Drlg (1964) Ltd

RIG NO.: 11

SIGNATURE OF OPERATOR'S REPRESENTATIVE: D. Brown

SIGNATURE OF CONTRACTOR'S TOOL PUSHER: M. Sawitz

DEPTH AT START OF MORNING TOUR	DEPTH AT END OF EVENING TOUR	DAILY PROGRESS	CUMULATIVE ROTATING HOURS	DAYS FROM SPUD	DATE MONTH	DAY	YEAR
				4	4	4	71

DP./DC. SIZE	WT./FT.	GRADE	MIN. I.D.	TOOL JT O.D.	TYPE THREAD	PUMP NO.	PUMP MANUFACTURER	TYPE	STROKE LENGTH

LAST CASING TUBING OR LINER	SIZE	WT. AND GR.	NO. OF JOINTS	FEET	KB TO CSG. HEAD	SET AT	CEMENT USED (SACKS)	REMARKS
	9 5/8	36# K55	38	1204		1201	720	190 Sacks Permo 530 Portland.

TIME DISTRIBUTION – HOURS

CODE NO.	OPERATION	MORN.	DAY	EVE.	TOTAL
1	RIG UP CSG / TEAR DOWN	2			2
2	DRILLING ACTUAL				
3	REAMING				
4	CORING				
5	CLEAN TO BOTTOM AND CIRCULATING	1			1
6	TRIPS				
7	RIG SERVICE				
8	RIG REPAIR				
9	CUT AND/OR SLIP LINE				
10	DEVIATION SURVEY				
11	WIRE LINE LOG				
12	RUN CASING AND CEMENT	5	4		9
13	WAIT ON CEMENT		3	8	11
14	NIPPLE UP B.O.P.				
15	TEST B.O.P.				
16	DRILL STEM TEST				
17	PLUG BACK				
18	SQUEEZE CEMENT				
19	STUCK OR FISHING				
20	HANDLE TOOLS				
21	CONDITION MUD		1		1
22	LOST CIRCULATION				
23					
24					
40	PERFORATE				
41	TUBING TRIPS				
42	TREATING				
43	SWABBING				
44	TESTING				
45					
60	ABANDON				
70	STANDBY				
	TOTALS	8	8	8	24
	HOURS FOR SHELL ACCOUNT	8	8	8	24
	CONTRACTOR RENTAL: BOILER				

Code 232 B.

HOLE CONDITION

1	HOLE DRAG (1000#)	
2	TORQUE ON BOTTOM (DP TURNS)	
3	FILL ON BOTTOM (FEET)	

MORNING TOUR

DRILLING ASSEMBLY AT END OF TOUR / BIT RECORD / MUD RECORD: (blank)

MUD MATERIALS ADDED: Peltex 5 sacks.

FOOTAGE FROM	TO
1201	

Remarks: C. Lewis, C. Greff, Swebsdale, 2 hrs overtime, help running cement.

TIME LOG FROM	TO	ELAPSED TIME	CODE	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
12^00	2^00	2		Lay Down Bottom Hole 9" DC & Rig up To Run 9 5/8" Csg.
2^00	7^00	5		Run in 1200 feet of 9 5/8 surface Csg
7^00	8^00	1		Break Circ & Circ to Con mud Lower vis to 45
				Ran 38 Jts 9 5/8 36# K55 Csg Total 1204' Set @ 1201'

DRILLER: D. Tindall

DAY TOUR

BIT RECORD / MUD RECORD (written across):

Cement 9 5/8 Csg.
Pumped 40 BBLs water ahead
Mixed 70 sacks Portland cement
Followed By 190 sacks Permo lost
Followed By 460 sacks (460)
Portland cement
No cement returns to surface.
Lost returns after 430 sacks mixed
Cement slurry 15.0 - 15.5
Cement in place 12:30 PM
4-4-71

MUD MATERIALS ADDED: Peltex 5 sack

FOOTAGE FROM	TO
1201	

TIME LOG FROM	TO	ELAPSED TIME	CODE	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
				Lower vis to 45 — C.B. Russell 4 hrs.
8.00	9.00	1		Cond mud + work casing — Work on power tongs
9.00	11.00	2		Run in 8 stds + pick up 14 singles with adapter to run cement + hook up Halliburton unit.
11.00	12.00	1		Run cement + Displace
12.00	1.00	1		Trip out Pipe w/ 13.5 BBLs water
1.00	4.00	3		W.O.C.

1 HR. OVERTIME. A. Ewasiuk L Scott. L Brazel

DRILLER: A. Ewasiuk

EVENING TOUR

DRILLING ASSEMBLY AT END OF TOUR / BIT RECORD / MUD RECORD: (blank)

FOOTAGE FROM	TO
1201	

TIME LOG FROM	TO	ELAPSED TIME	CODE	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
4.00	12^00	8		W. O. C.
				Cut off CsG Lay Down Hydrill
				Run in 1" pipe to cement top of surface hole

7 hrs Running CsG. — J. Magnuson, E. Hennerbichler, P. Treptow

DRILLER: J. Horinek

CP-38 (10/69)

DAILY DRILLING REPORT

WELL NAME	PROVINCE
Shell ~~Artec~~ Red River West	
LOCATION: G-55	N.W.T

OPERATOR	CONTRACTOR	RIG NO.	DEPTH AT START OF MORNING TOUR	DEPTH AT END OF EVENING TOUR	DAILY PROGRESS	CUMULATIVE ROTATING HOURS	DAYS FROM SPUD	DATE MONTH	DAY	YEAR
Shell Canada Limited	Gustavson Drlg (1964) Ltd	11	854	1201	347	154	3	4	3	71
SIGNATURE OF OPERATOR'S REPRESENTATIVE: L. Brown	SIGNATURE OF CONTRACTOR'S TOOL PUSHER: M. Sointz									

DP./DC. SIZE	WT./FT.	GRADE	MIN. I.D.	TOOL JT O.D.	TYPE THREAD	PUMP NO.	PUMP MANUFACTURER	TYPE	STROKE LENGTH
9 3/4	101		2 7/8		7" H90 / 5" H90	1	NSCO	8-P-80	8 1/2
4	14#	E	2 7/8	5 1/4	FH	2	NSCO	8-P-80	8 1/2

LAST CASING TUBING OR LINER	SIZE	WT. AND GR.	NO. OF JOINTS	FEET	KB TO CSG HEAD	SET AT	CEMENT USED (SACKS)	REMARKS

TIME DISTRIBUTION — HOURS

CODE NO	OPERATION	MORN.	DAY	EVE.	TOTAL
1	RIG UP TEAR DOWN				
2	DRILLING ACTUAL	7 1/2	7 1/4	3/4	15 1/2
3	REAMING				
4	CORING				
5	CLEAN TO BOTTOM AND CIRCULATING			3/4	3/4
6	TRIPS			6 1/4	6 1/4
7	RIG SERVICE	1/4	1/4		1/2
8	RIG REPAIR				
9	CUT AND/OR SLIP LINE				
10	DEVIATION SURVEY	1/4	1/4	1/4	3/4
11	WIRE LINE LOG				
12	RUN CASING AND CEMENT				
13	WAIT ON CEMENT				
14	NIPPLE UP B.O.P.				
15	TEST B.O.P.				
16	DRILL STEM TEST				
17	PLUG BACK				
18	SQUEEZE CEMENT				
19	STUCK OR FISHING				
20	HANDLE TOOLS				
21	CONDITION MUD				
22	LOST CIRCULATION				
23					
24					
COMPLETION 40	PERFORATE				
41	TUBING TRIPS				
42	TREATING				
43	SWABBING				
44	TESTING				
45					
60	ABANDON				
70	STANDBY				
	TOTALS	8	8	8	24
	HOURS FOR SHELL ACCOUNT	8	8	8	24
CONTRACTOR EQUIPMENT RENTAL	Boiler #1	8	8	8	
	Boiler #2	8	8	8	
	Code 232 B.				

HOLE CONDITION

1	HOLE DRAG (1000#)	
2	TORQUE ON BOTTOM (DP TURNS)	
3	FILL ON BOTTOM (FEET)	

MORNING TOUR

Drilling Assembly at End of Tour

NO	CODE	BIT / I.D. x O.D.	FT.
		4A BIT	
1	BS	3 x 9	3.97
1	C/O	2 7/8 x 9	2.50
1	C/O	2 7/8 x 6 1/4	2.10
3	DC	2 3/4 x 9	85.89
9	DC	2 3/4 x 6 3/4	279.66
8	DP	STANDS	
2	DP	SINGLES	619.85
		KELLY DOWN	32.00
		TOTAL	1025.97
		WT. OF DC IN AIR	LBS.
		WT. OF STRING	58m LBS.

Bit Record

BIT NO.	4A
SIZE	12 1/4
MFG.	REED
TYPE	YT1AG
JETS 1/32"	14 14 16
SERIAL NO	862898
DEPTH OUT	
DEPTH IN	832
TOTAL FTG.	193
TOTAL HRS. RUN	9
BIT CONDITION 1/8" T/B/GAGE	
REAMER CUTTER NO.	
REAMER TYPE	

Mud Record

TIME	12:00	4:00	7:00
WEIGHT	9.6	9.6	9.6
VIS.-SEC.	70	85	70
PV/YP	/	/	/
GELS	/	/	/
W.L.-C.C.			
PH			
% SOLIDS			
% SAND			

Mud materials added: GEL 10 sxs.

Footage

FROM	TO	ROT HOURS	DR-D RM-R CORE-C	CORE NO	FORMATION	ROTARY R.P.M.	WT ON BIT (1000#)	PUMP PRESS	AIR VOL	PUMP NO. 1 LINER SIZE	S P M	PUMP NO. 2 LINER SIZE	S.P.M.	METHOD PUMPS RUN
854	1025	7 1/2	171			60	20	1450		6	90	6	90	Comp

Deviation Record: Depth 973, Deviation 1°

FROM	TO	ELAPSED TIME	CODE	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
12:00	4:00	4		Drlg 12 1/4 surface hole.
4:00	4:15	1/4		Rig Ser ✓ Hydril
4:15	5:30	1 1/4		Drlg 12 1/4" surface hole
5:30	5:45	1/4		Survey
5:45	8:00	2 1/4		Drlg 12 1/4 surface hole

DRILLER: D. Tindall

DAY TOUR

Drilling Assembly at End of Tour

NO	CODE	BIT / I.D. x O.D.	FT.
1	BS	3 x 9	3.97
1	CO	2 7/8 x 9	2.50
1	CO	2 7/8 x 6 3/4	2.10
3	DC	2 3/4 x 9	85.89
9	DC	2 3/4 x 6 3/4	279.66
8	DP	STANDS	
1	DP	SINGLES	774.71
		KELLY DOWN	32.00
		TOTAL	1180.83
		WT. OF DC IN AIR	LBS.
		WT. OF STRING	59M LBS.

Bit Record

BIT NO.	4A
SIZE	12 1/4
MFG.	REED
TYPE	YT1AGJ
JETS 1/32"	14 14 16
SERIAL NO.	862898
DEPTH OUT	
DEPTH IN	832
TOTAL FTG.	348
TOTAL HRS. RUN	16 1/2
BIT CONDITION 1/8" T/B/GAGE	
REAMER CUTTER NO.	
REAMER TYPE	

Mud Record

TIME	8:00	
WEIGHT	9.6	9.6
VIS.-SEC.	80	85
PV/YP	/	/
GELS	/	/

Mud materials added: GEL 20 sacks

Footage

FROM	TO	ROT HOURS	DR-D RM-R CORE-C	CORE NO	FORMATION	ROTARY R.P.M.	WT ON BIT (1000#)	PUMP PRESS	AIR VOL	PUMP NO. 1 LINER SIZE	S P M	PUMP NO. 2 LINER SIZE	S.P.M.	METHOD PUMPS RUN
1025	1188		163			55-65	24	1475		6	90	6	90	COMP.

Deviation Record: Depth 1098, Deviation 3/4°

FROM	TO	ELAPSED TIME	CODE	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
8.00	8.15	1/4		Rig Serv ✓ Hydril. (B. Russell Hi... overtime)
8.15	11.15	3		Drlg
11.15	11.30	1/4		Survey.
11.30	~~3.30~~ 4:00	4		Drlg.
~~3.30~~	4:00	1/2		
		8		

DRILLER: A. Ewasiuk

EVENING TOUR

Drilling Assembly at End of Tour

NO	CODE	BIT / I.D. x O.D.	FT.
1	BS	3 x 9	3.97
1	Reamer	2 7/8 x 9	5.58
1	C/O	2 7/8 x 9	2.50
1	C/O	3 x 6 3/4	2.10
3	DC	2 7/8 x 9	85.89
9	DC	2 7/8 x 6 3/4	279.66
8	DP	STANDS	
2	DP	SINGLES	807.50
		KELLY DOWN	15
		TOTAL	1201.70
		WT. OF DC IN AIR	LBS.
		WT. OF STRING	60M LBS.

Bit Record

BIT NO.	4
SIZE	12 1/4
MFG.	REED
TYPE	YT1AGJ
JETS 1/32"	14 14 16
SERIAL NO.	862898
DEPTH OUT	1201
DEPTH IN	832
TOTAL FTG.	369
TOTAL HRS. RUN	17 1/4
BIT CONDITION 1/8" T/B/GAGE	4 4 1
REAMER CUTTER NO.	
REAMER TYPE	

Mud Record

TIME	4:00	8:00
WEIGHT	9.6	9.6
VIS.-SEC.	80	100
PV/YP	/	/

Mud materials added: GEL 10 sacks

Footage

FROM	TO	ROT HOURS	DR-D RM-R CORE-C	CORE NO	FORMATION	ROTARY R.P.M.	WT ON BIT (1000#)	PUMP PRESS	AIR VOL	PUMP NO. 1 LINER SIZE	S P M	PUMP NO. 2 LINER SIZE	S.P.M.	METHOD PUMPS RUN
1188	1201	3/4	13		STRAP 1190.58 / BOARD 1188.83 / DIFF 1.75	60	20	1400		6	90	6	90	

Deviation Record: Depth 1201, Deviation 1 1/8°

FROM	TO	ELAPSED TIME	CODE	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
4.00	6.15	2 1/4		Measure out tight hole
6.15	7.30	1 1/4		Pick up reamer + run in
7.30	8.15	3/4		Drill
8.15	8.30	1/4		Cir. con. hole
8.30	9.15	3/4		Dummy trip to D.C.s
9.15	9.45	1/2		Cir. con. hole
9.45	12.00	2 1/4		Survey pull out. Lay down 9" D.C.s

DRILLER:

CP-38 (10/59)

DAILY DRILLING REPORT

WELL NAME	LOCATION	PROVINCE
Shell Artic Red River West	G-55	N.W.T.

OPERATOR	CONTRACTOR	RIG NO.	DEPTH AT START OF MORNING TOUR	DEPTH AT END OF EVENING TOUR	DAILY PROGRESS	CUMULATIVE ROTATING HOURS	DAYS FROM SPUD	DATE MONTH	DAY	YEAR
Shell Canada Limited	Gustavson (Drlg 1964 Ltd)	11	570	854			2	April	2	1971

SIGNATURE OF OPERATOR'S REPRESENTATIVE: D. Brower
SIGNATURE OF CONTRACTOR'S TOOL PUSHER: W. Sowinsto

DP./DC. SIZE	WT./FT.	GRADE	MIN. I.D.	TOOL JT O.D.	TYPE THREAD	PUMP NO.	PUMP MANUFACTURER	TYPE	STROKE LENGTH
4½"	14#	E	2⅞"		F.H.	1	Nat.	8P80	8½"
6¾"	101#		2⅞"		5"H90	2	Nat.	8P80	8½"

LAST CASING TUBING OR LINER	SIZE	WT. AND GR.	NO. OF JOINTS	FEET	KB. TO CSG. HEAD	SET AT	CEMENT USED (SACKS)	REMARKS

TIME DISTRIBUTION – HOURS

CODE NO.	OPERATION	MORN.	DAY	EVE.	TOTAL
1	RIG UP TEAR DOWN				
2	DRILLING ACTUAL	6	6¼	3½	15¾
3	REAMING Tight Hole	¼	1¼		1½
4	CORING				
5	CLEAN TO BOTTOM AND CIRCULATING				
6	TRIPS	1¼		3	4¼
7	RIG SERVICE	¼	¼		½
8	RIG REPAIR			1	1
9	CUT AND/OR SLIP LINE				
10	DEVIATION SURVEY	¼	¼	½	1
11	LOG				
12	RUN CASING AND CEMENT				
13	WAIT ON CEMENT				
14	NIPPLE UP B.O.P.				
15	TEST B.O.P.				
16	DRILL STEM TEST				
17	PLUG BACK				
18	SQUEEZE CEMENT				
19	STUCK OR FISHING				
20	HANDLE TOOLS				
21	CONDITION MUD				
22	LOST CIRCULATION				
23					
24					
40	PERFORATE				
41	TUBING TRIPS				
42	TREATING				
43	SWABBING				
44	TESTING				
45					
60	ABANDON				
70	STANDBY				
	TOTALS	8	8	8	24
	HOURS FOR SHELL ACCOUNT	8	8	8	24
CONTRACTOR RENTAL	Boiler #1	8	8	8	24
	Boiler #2	8	8	8	24

Code 232 B.

HOLE CONDITION

1	HOLE DRAG (1000#)	
2	TORQUE ON BOTTOM (OF TURNS)	
3	FILL ON BOTTOM (FEET)	

MORNING TOUR

Drilling Assembly at End of Tour

NO.	CODE	ITEM	FT.
1	BS	3" x 9"	3.97
1	CD	2⅞ x 9	2.50
1	CD	2⅞ x 6¾	2.10
3	DC	2⅞ x 9"	85.89
9	DC	2⅞ x 6¾	278.66
3	DP	STANDS	277.77
	DP	SINGLES	
		KELLY DOWN	43.00
		TOTAL	693.89
		WT. OF DC IN AIR	
		WT. OF STRING	56m

Bit Record

BIT NO.	3A
SIZE	12¼"
MFG.	Reed
TYPE	YT1AGJ
JETS 1/32"	14 14 16
SERIAL NO.	653738
DEPTH OUT	
DEPTH IN	570'
TOTAL FTG.	123
TOTAL HRS. RUN	6
BIT CONDITION 1/8" T/B/GAGE	
REAMER CUTTER NO.	
REAMER TYPE	

Mud Record

TIME	1:00	6:00
WEIGHT	9.9	9.7
VIS.-SEC.	50	47
PV/YP	/	/
GELS	/	/
W.L.-C.C.		
PH		
% SOLIDS		
% SAND		

MUD MATERIALS ADDED

TYPE	AMOUNT	TYPE	AMOUNT
GEL	55 Bags		

Footage

FROM	TO	ROT HOURS	DR-D RM-R CORE-C	CORE NO	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	WT ON BIT (1000#)	PUMP PRESS.	AIR VOL (CFM)	PUMP NO. 1 LINER SIZE	S.P.M.	PUMP NO. 2 LINER SIZE	S.P.M.	METHOD PUMPS RUN
570'	693'	6	123'			120 150	15-20			6"	150			

Deviation Record

DEPTH	DEVIATION°	DIRECTION	DEPTH	DEVIATION°	DIRECTION	DEPTH	DEVIATION°	DIRECTION
663'	½°							

Time Log

FROM	TO	ELAPSED TIME	CODE	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
12:00				Finished out & worked Tight spots
	1:15	1¼		Running & cleaned to Bottom 20'
1:15	1:30	¼		Serv Rig & swivel
1:30	5:00	3½		Drlg 12¼" Hole
5:00	5:30	½		Work Tight Hole & survey
5:30	7:00	1½		Drlg 12¼" Hole
7:00	8:00	1		Working Tight Hole on Connection

DRILLER: G. Johnson

DAY TOUR

Drilling Assembly at End of Tour

NO.	CODE	ITEM	FT.
	3A	BIT	
1	BS	3 x 9	3.97
1	CD	2⅞ x 9	2.50
1	CD	2⅞ x 6¾	2.10
3	DC	2⅞ x 9	85.89
9	DC	2⅞ x 6¾	279.66
4	DP	STANDS	
1	DP	SINGLES	402.57
		KELLY DOWN	25'
		TOTAL	800.'
		WT. OF DC IN AIR	38
		WT. OF STRING	58

Bit Record

BIT NO.	3A
SIZE	12¼
MFG.	REED
TYPE	YT1AGJ
JETS 1/32"	14 14 16
SERIAL NO.	653738
DEPTH OUT	
DEPTH IN	570
TOTAL FTG.	230
TOTAL HRS. RUN	12¼
BIT CONDITION 1/8" T/B/GAGE	
REAMER CUTTER NO.	
REAMER TYPE	

Mud Record

TIME	9:00	12:00	3:00
WEIGHT	9.6	9.6	9.6
VIS.-SEC.	115	120	100
PV/YP	/	/	/
GELS	/	/	/
W.L.-C.C.			
PH			
% SOLIDS			
% SAND			

MUD MATERIALS ADDED

TYPE	AMOUNT	TYPE	AMOUNT
GEL	20 sks.		

Footage

FROM	TO	ROT HOURS	DR-D RM-R CORE-C	CORE NO	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	WT ON BIT (1000#)	PUMP PRESS.	AIR VOL (CFM)	PUMP NO. 1 LINER SIZE	S.P.M.	PUMP NO. 2 LINER SIZE	S.P.M.	METHOD PUMPS RUN
693	800	6¼	107			60	20	1400		6	100	6	100	Comp.

OPENED 1 BB of Rimula #10, Rimula #20, & Rimula #30
1 BB of Tellus #17, Omala #33 & Vitrea #41.

Deviation Record

DEPTH	DEVIATION°	DIRECTION	DEPTH	DEVIATION°	DIRECTION	DEPTH	DEVIATION°	DIRECTION
756	1°							

Time Log

FROM	TO	ELAPSED TIME	CODE	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
8:00	8:15	¼		WORK Tight Hole.
8:15	11:30	3¼		Drlg 12¼" Hole. B. RUSSELL
11:30	11:45	¼		Survy. 4 HRS OVERTIME
11:45	12:00	¼		Rig SER. & Hydril
12:00	1:30	1½		Drlg 12¼ Hole.
1:30	2:30	1		WORK Tight Hole.
2:30	4:00	1½		Drlg

DRILLER: D. Tindall

EVENING TOUR

Drilling Assembly at End of Tour

NO.	CODE	ITEM	FT.
1	BS	3 x 9	3.97
1	CD	2⅞ x 9	2.50
1	CD	2⅞ x 6¾	2.10
3	DC	2⅞ x 9	85.89
9	DC	2⅞ x 6¾	279.66
5	DP	STANDS	464.07
	DP	SINGLES	
		KELLY DOWN	27.00
		TOTAL	854.19
		WT. OF DC IN AIR	59M
		WT. OF STRING	59M

Bit Record

BIT NO.	3A	4A
SIZE	12¼	12¼
MFG.	REED	REED
TYPE	YT1AGJ	YT1AGJ
JETS 1/32"	14 14 16	14 14 16
SERIAL NO.	653738	812898
DEPTH OUT	832	
DEPTH IN	570	832
TOTAL FTG.	262	
TOTAL HRS. RUN	14½	
BIT CONDITION 1/8" T/B/GAGE	4 2 1	
REAMER CUTTER NO.		
REAMER TYPE		

Mud Record

TIME	4.00	11.30
WEIGHT	9.6	9.7
VIS.-SEC.	80	95
PV/YP	/	/
GELS	/	/
W.L.-C.C.		
PH		
% SOLIDS		
% SAND		

MUD MATERIALS ADDED

TYPE	AMOUNT	TYPE	AMOUNT
GEL	18 BAGS		

Footage

FROM	TO	ROT HOURS	DR-D RM-R CORE-C	CORE NO	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	WT ON BIT (1000#)	PUMP PRESS.	AIR VOL (CFM)	PUMP NO. 1 LINER SIZE	S.P.M.	PUMP NO. 2 LINER SIZE	S.P.M.	METHOD PUMPS RUN
800	854	3	54			60	20	1400		6	90	6	90	COMP

Deviation Record

DEPTH	DEVIATION°	DIRECTION	DEPTH	DEVIATION°	DIRECTION	DEPTH	DEVIATION°	DIRECTION
850	½°							

Time Log

FROM	TO	ELAPSED TIME	CODE	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
4.00	5.00	1		DRLG
5.00	5.30	½		WORK ON CLUTCH + RIG SERV.
5.30	6.30	1		DRLG
6.30	9.30	3.		TRIP OUT + IN WORK TIGHT SPOTS OUT WITH PUMP REAM DOWN 4 SINGLES.
9.30	11.00	1½		DRLG
11.00	11.30	½		RUN SURVEY + WORK ON AIR LINE
11.30	12.00	½		

DRILLER: A. Ewasiuk

CP-38 (10/69)

DAILY DRILLING REPORT

WELL NAME		PROVINCE
Shell Artic Red River West		
LOCATION	G-55	N.W.T

OPERATOR	CONTRACTOR	RIG NO
Shell Canada Limited	Gustavson Drlg 1964 LTd	11
SIGNATURE OF OPERATOR'S REPRESENTATIVE: D. Brown	SIGNATURE OF CONTRACTOR'S TOOL PUSHER: [illegible]	

DEPTH AT START OF MORNING TOUR	DEPTH AT END OF EVENING TOUR	DAILY PROGRESS	CUMULATIVE ROTATING HOURS	DAYS FROM SPUD	DATE MONTH	DAY	YEAR
80'	570	490'	21	1	April	1	1971

DP. / DC. SIZE	WT./FT.	GRADE	MIN. I.D.	TOOL JT O.D.	TYPE THREAD	PUMP NO.	PUMP MANUFACTURER	TYPE	STROKE LENGTH
6 3/4"			2 7/8			1	Nat.	8P80	8 1/2"
9"			2 7/8			2	Nat	8P80	8 1/2"

LAST CASING TUBING OR LINER	SIZE	WT. AND GR.	NO. OF JOINTS	FEET	KB. TO CSG. HEAD	SET AT	CEMENT USED (SACKS)	REMARKS

TIME DISTRIBUTION — HOURS

CODE NO.	OPERATION	MORN.	DAY	EVE.	TOTAL
1	RIG UP TEAR DOWN				1
2	DRILLING ACTUAL	7 1/2	6 1/4	5 1/2	19 1/4
3	REAMING				
4	CORING				
5	CLEAN TO BOTTOM AND CIRCULATING				3
6	TRIPS		1 1/4	1 3/4	~~3~~
7	RIG SERVICE	1/4		1/4	1/2
8	RIG REPAIR				
9	CUT AND/OR SLIP LINE				
10	DEVIATION SURVEY	1/4	1/2	1/2	1 1/4
11	... LOG				
12	RUN CASING AND CEMENT				
13	WAIT ON CEMENT				
14	NIPPLE UP B.O.P.				
15	TEST B.O.P.				
16	DRILL STEM TEST				
17	PLUG BACK				
18	SQUEEZE CEMENT				
19	STUCK OR FISHING				
20	HANDLE TOOLS				
21	CONDITION MUD				
22	...CULATION				
23					
24					
COMPLETION 40	PERFORATE				
41	TUBING TRIPS				
42	TREATING				
43	SWABBING				
44	TESTING				
45					
60	ABANDON				
70	STANDBY				
	TOTALS	8	8	8	24
	HOURS FOR SHELL ACCOUNT	8	8	8	24
CONTRACTOR EQUIP RENTAL	BOILER #1	8	8	8	24
	Boiler #2	8	8	8	24
	Code 232B				

HOLE CONDITION

1	HOLE DRAG (1000#)	
2	TORQUE ON BOTTOM (DP TURNS)	
3	FILL ON BOTTOM (FEET)	

MORNING TOUR

DRILLING ASSEMBLY AT END OF TOUR

NO.	CODE	BIT (I.D. x O.D.)	FT.
1	BS	3" x 9"	3.97
1	90	2 7/8 x 9"	2.50
1	90	2 7/8 x 6 3/4	2.10
		x	
		x	
3	DC	2 7/8 x 9"	85.89
2	DC	2 7/8 x 6 3/4	61.93
	DP	STANDS	
	DP	SINGLES	
		KELLY DOWN	26.00
		TOTAL	182.41
		WT. OF DC IN AIR	36M LBS.
		WT. OF STRING	Same LBS.

BIT RECORD

BIT NO.	1
SIZE	12 1/4"
MFG.	Smith
TYPE	DTJ
JETS 1/32"	1/2 1/2 1/2
SERIAL NO.	EE944
DEPTH OUT	
DEPTH IN	0
TOTAL FTG.	182
TOTAL HRS. RUN	9 1/4
BIT CONDITION 1/8" T/B/GAGE	IN
REAMER CUTTER NO.	
REAMER TYPE	

MUD RECORD

TIME			
WEIGHT			
VIS.-SEC.			
PV/YP	/	/	/
GELS	/	/	/
W.L.-C C			
PH			
% SOLIDS			
% SAND			

MUD MATERIALS ADDED

TYPE	AMOUNT	TYPE	AMOUNT

FOOTAGE

FROM	TO	ROT HOURS	DR-D RM-R CORE-C	CORE NO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT ON BIT (1000#)	PUMP (AIR) PRESS.	AIR VOL (CFM)	PUMP NO 1 LINER SIZE	PUMP NO 1 S.P.M.	PUMP NO 2 LINER SIZE	PUMP NO 2 S.P.M.	METHOD PUMPS RUN
80'	182'	7 1/2	102'		1 Keg of Spirax #75	150	10-20	500		6"	140	6"	140	

DEVIATION RECORD

DEPTH	DEVIATION °	DIRECTION	DEPTH	DEVIATION °	DIRECTION	DEPTH	DEVIATION °	DIRECTION
168'	Bulls Eye							

TIME LOG

FROM	TO	ELAPSED TIME	CODE	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
12^00	2^00	2		Drlg 12 1/4" Surface Hole
2^00	2^15	1/4		Serv Rig & Swivel.
2^15	6^30	4 1/4		Drlg 12 1/4" Hole
6^30	6^45	1/4		Survey
6^45	8^00	1 1/4		Drlg 12 1/4" Hole Loading mud on Sleigh's @ Air Strip;

4 HRS OverTime E. Johnson A. Lundle H. Haydon laying pads for mud. C. Greff H. Farrell

DRILLER: E. Johnson

DAY TOUR

DRILLING ASSEMBLY AT END OF TOUR

NO.	CODE	BIT (I.D. x O.D.)	FT.
1	BS	3 x 9	3.97
1	90	2 7/8 x 9	2.50
1	90	2 7/8 x 6 3/4	2.10
		x	
3	DC	2 7/8 x 9	85.89
		x	
9	DC	2 1/2 x 6 3/4	278.66
	DP	STANDS	
	DP	SINGLES	
		KELLY DOWN	24
		TOTAL	397.12
		WT. OF DC IN AIR	53m LBS.
		WT. OF STRING	53m LBS.

BIT RECORD

BIT NO.	1A	2A
SIZE	12 1/4	12 1/4
MFG.	Smith	H.W
TYPE	DTJ	X1G
JETS 1/32"	16 16 16	16 16 16
SERIAL NO.	EE944	TB129
DEPTH OUT	184	
DEPTH IN	0	184
TOTAL FTG.	184	213
TOTAL HRS. RUN	9 1/2	6
BIT CONDITION 1/8" T/B/GAGE	Locked	DRLS
	ON RATHOLE TEETH	
REAMER CUTTER NO.		
REAMER TYPE		

MUD RECORD

TIME	8^00	12^00	4^00
WEIGHT	9.6	9.8	9.5
VIS.-SEC.	120	100	110
PV/YP	/	/	/
GELS	/	/	/
W.L.-C C			
PH			
% SOLIDS			
% SAND			

MUD MATERIALS ADDED

TYPE	AMOUNT	TYPE	AMOUNT

FOOTAGE

FROM	TO	ROT HOURS	DR-D RM-R CORE-C	CORE NO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT ON BIT (1000#)	PUMP (AIR) PRESS.	AIR VOL (CFM)	PUMP NO 1 LINER SIZE	PUMP NO 1 S.P.M.	PUMP NO 2 LINER SIZE	PUMP NO 2 S.P.M.	METHOD PUMPS RUN
182	397	215	6 1/4			80	20m	700		6	150			

DEVIATION RECORD

DEPTH	DEVIATION °	DIRECTION	DEPTH	DEVIATION °	DIRECTION	DEPTH	DEVIATION °	DIRECTION
294	0		384	3/4				

TIME LOG

FROM	TO	ELAPSED TIME	CODE	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
8^00	8^15	1/4		DRLG 12 1/4 SURFACE HOLE
8^15	9^30	1 1/4		TRIP for BIT 5hrs. Overtime - B. Russell
9^30	12^30	3		DRLG 12 1/4 B. woods, S. Webadale
12^30	12^45	1/4		SURVEY 4hrs. overtime Moving
12^45	3^15	2 1/2		DRLG 12 1/4 Cement.
3^15	3^30	1/4		SURVEY
3^30	4^00	1/2		DRLG 12 1/4

DRILLER: D. [illegible]

EVENING TOUR

DRILLING ASSEMBLY AT END OF TOUR

NO.	CODE	BIT (I.D. x O.D.)	FT.
1	BS	3 x 9	3.97
1	CO	2 7/8 x 9	2.50
1	CO	2 7/8 x 6 3/4	2.10
		x	
		x	
3	DC	2 7/8 x 9	85.89
9	DC	2 7/8 x 6 3/4	278.66
2	DP	STANDS	184.76
	DP	SINGLES	
		KELLY DOWN	
		TOTAL	
		WT. OF DC IN AIR	LBS.
		WT. OF STRING	LBS.

BIT RECORD

BIT NO.	2A
SIZE	12 1/4
MFG.	H.W.
TYPE	X1G
JETS 1/32"	16 16 16
SERIAL NO.	TB.129
DEPTH OUT	570
DEPTH IN	184
TOTAL FTG.	386
TOTAL HRS. RUN	11 1/2
BIT CONDITION 1/8" T/B/GAGE	T4 B1 0
REAMER CUTTER NO.	
REAMER TYPE	

MUD RECORD

TIME	4.30	8.00	
WEIGHT	9.5	9.7	
VIS.-SEC.	35	43	
PV/YP	/	/	/
GELS	/	/	/
W.L.-C.C.			
PH			
% SOLIDS			
% SAND			

MUD MATERIALS ADDED

TYPE	AMOUNT	TYPE	AMOUNT

FOOTAGE

FROM	TO	ROT HOURS	DR-D RM-R CORE-C	CORE NO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT. ON BIT (1000#)	PUMP (AIR) PRESS.	AIR VOL (CFM)	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN
~~397~~					Rimula 30	120	18M	800		6	150			
397	570	5 1/2	173											

DEVIATION RECORD

DEPTH	DEVIATION °	DIRECTION	DEPTH	DEVIATION °	DIRECTION	DEPTH	DEVIATION °	DIRECTION
418	1/2°		570	3/4				

TIME LOG

FROM	TO	ELAPSED TIME	CODE	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
4.00	4.45	3/4		DRLG
4.45	5.00	1/4		CONN - RIG SERV
5.00	6.45	1 3/4		~~CONN - RUN SURVEY.~~ DRLG
6.45	7.00	1/4		CONN. + RUN SURVEY.
7.00	10.00	3		DRLG
10.00	12.00	2		RUN SURVEY TRIP OUT WORK TIGHT SPOTS OUT.
		8		4 HRS OVERTIME L. SCOTT R. BERG

DRILLER: A. Ewarids

CP-38 (10/69)

DAILY DRILLING REPORT

WELL NAME: Shell Artic Red River West

LOCATION: ~~E-55~~ G-55 PROVINCE: N.W.T

OPERATOR: Shell Canada Limited

SIGNATURE OF OPERATOR'S REPRESENTATIVE: D. Brown

CONTRACTOR: Gustavson Dtlg 1964 LTD RIG NO.: 11

SIGNATURE OF CONTRACTOR'S TOOL PUSHER: Jack M. Smith

DEPTH AT START OF MORNING TOUR	DEPTH AT END OF EVENING TOUR	DAILY PROGRESS	CUMULATIVE ROTATING HOURS	DAYS FROM SPUD	DATE MONTH	DAY	YEAR
					March	31	1971

DP./DC. SIZE	WT./FT.	GRADE	MIN. I.D.	TOOL JT O.D.	TYPE THREAD

PUMP NO.	PUMP MANUFACTURER	TYPE	STROKE LENGTH

LAST CASING TUBING OR LINER	SIZE	WT. AND GR.	NO OF JOINTS	FEET	KB TO CSG. HEAD	SET AT	CEMENT USED (SACKS)	REMARKS

TIME DISTRIBUTION — HOURS

CODE NO.	OPERATION	MORN.	DAY	EVE.	TOTAL
1	RIG UP ~~TEAR DOWN~~	~~[illegible]~~	~~[illegible]~~	6½	22¼
2	DRILLING ACTUAL		12	1½	13½
3	REAMING				
4	CORING				
5	CLEAN TO BOTTOM AND CIRCULATING				
6	TRIPS				
7	RIG SERVICE				
8	RIG REPAIR				
9	CUT AND/OR SLIP LINE				
10	DEVIATION SURVEY			1/4	1/4
11	[illegible] LOG				
12	RUN CASING AND CEMENT				
13	WAIT ON CEMENT				
14	NIPPLE UP B.O.P.				
15	TEST B.O.P.				
16	DRILL STEM TEST				
17	PLUG BACK				
18	SQUEEZE CEMENT				
19	STUCK OR FISHING				
20	HANDLE TOOLS				
21	CONDITION MUD				
22	[illegible]CULATION				
23					
24					
COMPLETION 40	PERFORATE				
COMPLETION 41	TUBING TRIPS				
COMPLETION 42	TREATING				
COMPLETION 43	SWABBING				
COMPLETION 44	TESTING				
COMPLETION 45					
60	ABANDON				
70	STANDBY				
	TOTALS	~~[illegible]~~	~~[illegible]~~	8	24
	HOURS FOR SHELL ACCOUNT	8	8	8	24
CONTRACTOR	BOILER #1	8	8	8	
CONTRACTOR	Boiler #2	8	8	8	
CONTRACTOR	Code		230		
CONTRACTOR	Code		232	B.	

HOLE CONDITION

1	HOLE DRAG (1000#)	
2	TORQUE ON BOTTOM (DP TURNS)	
3	FILL ON BOTTOM (FEET)	

DRILLING ASSEMBLY AT END OF TOUR

NO.	CODE		I.D.	O.D.		
1		BIT				397 FT.
1		C.D.	2¼	9		9.50 FT.
1		C.D.	2¼	6¾		2.10 FT.
						FT.
1		DC	2¼	8½		28.74 FT.
		DP STANDS				FT.
		DP SINGLES				FT.
		KELLY DOWN				43.00 FT.
		TOTAL				80.21 FT.
		WT. OF DC IN AIR				25M LBS.
		WT. OF STRING				LBS.

BIT RECORD

BIT NO.	1
SIZE	12¼
MFG.	SMITH
TYPE	D.T.T
JETS 1/32"	½ ½ ½
SERIAL NO.	EE944
DEPTH OUT	
DEPTH IN	0
TOTAL FTG.	80
TOTAL HRS. RUN	1¾
BIT CONDITION 1/8" T/B/GAGE	
REAMER CUTTER NO.	
REAMER TYPE	

MUD RECORD

TIME	
WEIGHT	
VIS.-SEC.	
PV/YP	/ / /
GELS	/ / /
W.L.-C.C.	
PH	
% SOLIDS	
% SAND	

MUD MATERIALS ADDED

TYPE	AMOUNT	TYPE	AMOUNT

MORNING TOUR

FOOTAGE

FROM	TO	ROT HOURS	DR-D RM-R CORE-C	CORE NO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT. ON BIT (1000#)	PUMP (AIR) PRESS.	AIR VOL (CFM)	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN

DEVIATION RECORD

DEPTH	DEVIATION°	DIRECTION	DEPTH	DEVIATION°	DIRECTION	DEPTH	DEVIATION°	DIRECTION

TIME LOG FROM	TIME LOG TO	ELAPSED TIME	CODE	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
1200				Cutting & Welding Conductor pipe
				Case Rat Hole Head up Desilter & Sample Box
				Unload Gel & Cement OFF Trucks Spot pipe Racks
				lay pads For Gel & Cement & mix mud
	1200	12		4 HRS overtime Rigging up F. Johnson A. Lundle H. Haydon
				C. Greff H. Foxall

DRILLER: D. Johnson

DAY TOUR

FOOTAGE

FROM	TO	ROT HOURS	DR-D RM-R CORE-C	CORE NO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT. ON BIT (1000#)	PUMP (AIR) PRESS.	AIR VOL (CFM)	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN
					6 hrs. Over Time - B. Russell									
					USED ONE BBL of Tulus T 17.									
					9 ONE BBL of Romula 20-20.									

DEVIATION RECORD

DEPTH	DEVIATION°	DIRECTION	DEPTH	DEVIATION°	DIRECTION	DEPTH	DEVIATION°	DIRECTION

TIME LOG FROM	TIME LOG TO	ELAPSED TIME	CODE	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
				Work on Mud Pumps.
				Pick up Hydril & Bolt on To Con BBLs
				Lay Flare Lines
				String Sand Line & Babatt Rope Socket on
				Pick up Kelly, Hook up Kelly Hose & Put on Bushing
				Haul Cement from Air Strip. D. Lindall, B. Wood C. Lewis
				D. Deuben, Swebsdale 4 Hrs overtime Rigging up

DRILLER: D. Lindall

EVENING TOUR

FOOTAGE

FROM	TO	ROT HOURS	DR-D RM-R CORE-C	CORE NO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT. ON BIT (1000#)	PUMP (AIR) PRESS.	AIR VOL. (CFM)	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN
	80	1½			U. Trace 41#	80	SM	600		6	70			
					Donax T6#									
					Spud 10100 PM MARCH 31-71									

DEVIATION RECORD

DEPTH	DEVIATION°	DIRECTION	DEPTH	DEVIATION°	DIRECTION	DEPTH	DEVIATION°	DIRECTION
80	¾							

TIME LOG FROM	TIME LOG TO	ELAPSED TIME	CODE	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
12.00				BUILD PADS + STACK MUD OFF TRUCKS
	9.00	9.		MAKE UP FLARE LINES
9.00	10.00	1		PICKUP 9" COLLAR. DRILL 12¼ HOLE
10.00	11.00	1		DRLG
11.00	11.15	¼		RUN SURVEY @ 80FT.
11.15	12.00	¾ / 12		DRLG. 4 HRS. OVERTIME A. FWASIUK D. L. SCOTT
				R. BERG L. BRAZEL R. LANGLOIS.

DRILLER: D. Lindall