

SHELL HB GRUMBLER I-72

WELL NAME Shell B Gravelier, I-72
FIELD Kilmer
LOCATION: Unit 115-30
Latitude 60-22-12.7 Longitude 115-54-10.1
From Established Reference Marker NE 36-131-10-9

U.N.L.R. 36115 71916
U.N.I. 60-22-12.7 -- 115-54-10.1
3008221030115/00
172 300

Rig Release Date: 4/4/69
Status
Information Release Date

CHANGE OF NAME:

DATE RECEIVED	INDEX
8/1/69	Application for a Drilling Authority.
4-2-69	Well Completion Data.
	Well History Report.
20/3/69	Application to Amend a Drilling Authority.
	Application to change a Well Name.
17/4/69	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 — Yitter'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

CEMENTING RECORD (Plug, Squeeze, etc.)				PERFORATING RECORD (Holes, Jct)				SERVICING RECORD (Acidizing, Flushing, etc.)			
Date	From	To	Remarks	Date	From	To	Remarks	Date	From	To	Remarks
4/4/69	1460	1270	Plug #1 75 Sx. + 2-1/2" CaCl ₂ . Plug down 4:30 A.M. April 4. Felt at 12:30 P.M. April 4 at 1210'.				Nil				Nil
4/4/69	390	Surface	Plug #2 110 Sx. Const. cement. Plug down 1:00 P.M. April 4. Casing cut 3' below G.L. Welded on plate & erected 4' riser and name plate.								

DRILL STEM TESTS

No.	Date	Formation	From	To	V.O. Mins.	I.S.I. Mins.	F.S.I. Mins.	I.S.I.R.H.P.	F.S.I.R.H.P.	L.F.R.H.P.	F.F.R.H.P.	I.H.P.	F.H.P.	REMARKS
1	4/3/69	Steen River	1300	1420	30	30	90	543	521	217	500	630	630	(Field Readings) Recovered 378' water cushion and 30' mud (Fresh).

ANALYSIS

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

Company SHELL CANADA LIMITED

Signed by

P. J. Benn (P. J. Benn) Jd

Title MANAGER - EDMONTON DIVISION PRODUCTION

Date APRIL 8, 1969

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



File No.
Drilling Authority No. 343

DEPARTMENT OF INDIAN AFFAIRS AND NORTHERN DEVELOPMENT
RESOURCE MANAGEMENT DIVISION

Application to Abandon a Well or Suspend Drilling

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

Name and number of well **SHELL E.B. CRUMBLER 1-72**
Location: Unit **I** Section **72** Grid **62° 30' 115° 30'**
Latitude **60° 21' 40.15"** Longitude **115° 43' 03.969"**
From Established Reference Marker **S.I. 34-121-10-5**
Universal Well Location Reference **60.3515° N. Lat. 115.71916° W. Long.**
Permit No. **4148 (31,606 Acres)** Lease No.

Edmonton's Bay Oil and Gas Company
(Permitter, Licensee, Lessee)

Date of commencement of proposed program **April 4, 1969**

OIL, GAS, AND WATER ENCOUNTERED (Depths)

Oil at **Nil**

Gas at **Nil**

Water at **Nil**

Total Depth **2330**

Date of last operations **April 3, 1969**

Present condition of well **Abandoned**

CASING RECORD

Casing Size O.D. Inches	Weight	Amount	Set At—	Sacks of Cement and Additives	Amount Pulled
1. 7" - J-55	209	331.29'	341.29' K.2.	130 Sx. + 32 CaCl ₂	Nil
2.					
3.					
4.					
5.					

PROPOSED ABANDONMENT PROGRAM

Plug		Geological Formation	Number of Sacks of Cement	Remarks
No.	Position			
1	1460-1270	Steen River	75 Sx. + 2-1/2% CaCl ₂	Plug down 4:30 A.M. April 4 Felt at 1210' at 12:30 P.M.
2	390-Surface	In Casing	110 Sx. Const. cement	Plug down at 1:00 P.M., 5 sacks in rat hole, casing cut 3' below C.L. Welded on plate and erected 4' riser and same plate.

The following logs have been run **ILL, Acoustilog, Densitylog, Diplog and Velocity Survey**
Other operations proposed **Nil**

Operations to be carried out by **Sedco Exploration Ltd.** Contractor Licence No. **A-11203 & A2621**
Address **Edmonton, Alberta** Address
Responsible Agent in field **Nel Eagen** **Shell Canada Limited, P.O. Box 186, Edmonton, Alberta**
Dated at **Edmonton, Alberta** this **8th** Day of **April** 19 **69**
Signed by **P. J. Benn (P.J. BENN)** for Company **SHELL CANADA LIMITED**
Title **MANAGER - EDMONTON DIV. PROD.** Operator's Exploratory Licence No. **1881 & 101**

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

(For RESOURCE MANAGEMENT DIVISION use only)

APPROVAL

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

Confirming oral approval given by **Mr. B.H.J. Thorne**
on the **3rd April 1969**.

Dated **17th April**, 19 **69**

(for) Oil Conservation Engineer

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

File No.

Drilling Authority No. 343

Department of Indian Affairs and Northern Development
Resource & Economic Development Group



~~DEPARTMENT OF INDIAN AFFAIRS AND NORTHERN DEVELOPMENT~~

~~RESOURCE & ECONOMIC DEVELOPMENT GROUP~~

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. 343, concerning SHELL H.B. GRIMMER B-62

Lat. 60° 21' 16.28" Long. 115° 56' 42.405"
(Name and Number of Well)

The following amendments are required: Unit and Section Number revised to I-72

GRID revised to 60° 30' 115° 30'

LATITUDE revised to 60° 21' 40.15"

LONGITUDE revised to 115° 43' 08.969"

UNIVERSAL WELL LOCATION revised to 60.36115 N. Lat. 115.71916 W. Long.

GROUND ELEVATION 884.4 TOTAL DEPTH 2450

DRILLING RIG - Sedco Rig #94

PERMIT NUMBER revised to 4148, ACREAGE 31,606

Reasons for the amendments: Review of Seismic Data and current well information.

Dated at EDMONTON, this 17th day of MARCH, 19 69

Signed by P.F. Dunn (P.F. DUNN) for

Title MANAGER

Company SHELL CANADA LIMITED

(For Resource Management Division use only)

APPROVED

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

UNIQUE WELL IDENTIFIER - 3001726030115300

Date 20th March, 19 69

Oil Conservation Engineer

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

Drilling Authority No. **77**

Project No.

File No.



DEPARTMENT OF INDIAN AFFAIRS AND NORTHERN DEVELOPMENT
OIL & MINERAL ~~RESOURCE MANAGEMENT~~ DIVISION

Application for a Drilling Authority

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

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

Name and number of well **SHELL H.B. GEORSLER R-62**
Location: Unit **H** Section **62** Grid **60° 30' 115° 45'**
Latitude **60° 21' 16.28"** Longitude **115° 56' 42.405"**
From Established Reference Marker **M.L. 36-131-10-5**
Universal Well Location Reference **60-35452 N. Lat. 115-94511 W. Long.**
Elevation: Ground **Not Available** K.B. **Not Available** feet above sea-level.
Well is expected to produce from **the Keg River** formation at a depth
of about **1400** feet. Expected total final depth **2000**
Area assigned to well
(For Oil Conservation Engineer's use only)

Permit No. **4149** Lease No. **63212**
Permittee, licensee, or lessee **Hudson's Bay Oil and Gas Company Limited**
Exploratory Licence No. **1096**

Surface owned by Crown or

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

Petroleum and natural-gas rights owned by **Crown**

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

Casing Size O.D. (Inches)	Weight (Lb./Ft.)	Grade	New or Used	Estimated Depth	Sacks of Cement
1. 7"	20#	J-55	New	200 +	90 Sacs.
2.					
3.					
4.					
5.					

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

Slave Point, Keg River

10" Series 900 Mechanical Double Shaeffer

10" Series 600 G.K. Hydril

Well will be drilled with Rotary Rig No. **93** by **Sedco Exploration Ltd.**

(Drilling Contractor or company)

Responsible agent of applicant:—

Contractor's business Licence No. **A-11203**

At well **R. W. Miller**

At registered office **A. M. McLachlin**

Address **Box 186, Edmonton, Alberta** 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 **3rd** day of **January** 19 **69**

Signed by **A. M. McLachlin** Company **SHELL CANADA LIMITED**

Title **MANAGER - EDMONTON DIV. PROD.** Operator's Licence No. **1881**

(For Resource Management Division use only)

APPROVED

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

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

Dated **8th January** 19 **69**

Oil Conservation Engineer

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

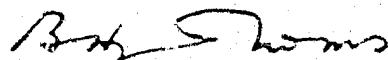
PAND 52-90-1 (3-57)

UNIQUE WELL IDENTIFIER - **30032603011950**

(over)

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 subsurface waters.

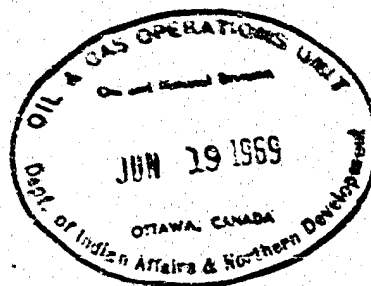
3. We draw your attention to Sections 95 and 96 of the Canada Oil and Gas Land Regulations.



B.J.J. Thomas
Oil Conservation Engineer

WELL HISTORY REPORT

SHELL H.B. GRUMBLER I-72



WELL HISTORY REPORT
SHELL H.B. CRUMBLER I-72
SHELL CANADA LIMITED
APRIL 11, 1969

WELL HISTORY REPORT

SHELL H.B. GRUMBLER I-72

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

Shell H.B. Grumbler I-72

(b) Permittee

Hudson's Bay Oil and Gas Company Limited

(c) OperatorShell Canada Limited
P. O. Box 186
Edmonton, Alberta.(d) LocationUnit I, Section 72, Grid 60° 30' 115° 30'
Latitude: 60° 21' 40.15"
Longitude: 115° 43' 2.969"
Universal Well Location Reference 60.36115 N. Latitude
and 115.71916 W. Longitude.
Unique Well Identifier - 3001726030115300(e) Permit Number

4148

(f) Drilling Contractor

Sedco Exploration Ltd. Rig No. 94

(g) Drilling AuthorityDrilling Authority No. 343 issued 8th January 1969
amended March 20, 1969(h) Classification

Wildcat

(i) ElevationsG.L. 884.4'
K.B. 894.4'(j) Spudded

1:15 P.M. March 20, 1969

(k) Completed Drilling

April 2, 1969

(l) Total Depth and Plugged Back Total Depth

T.D. 2530'
P.B.T.D. Surface

(m) Well Status

Dry and Abandoned

(n) Rig Released

4:00 P.M. April 4, 1969

(o) Hole Size

9-7/8" Surface - 341.29'
6-1/4" 342' - T.D.

(p) Casing

Ran 11 Jts. J-55, 20#, ST&C new 7" casing with
float valve 331.29'. Landed at 341.29' K.B.
Set with 130 sacks cement + 3% CaCl_2 .

SECTION II - GEOLOGICAL SUMMARY(a) Formation Tops

<u>Formation</u>	<u>K.B. Depth</u>	<u>Subsea</u>
Slave Point	1110	(- 216)
Watt Mountain	1310	(- 416)
Steen River	1318	(- 424)
Muskeg	1408	(- 514)
Methy (K-g River)	1790	(- 396)
Bear Rock	2118	(-1224)
PreCambrian	2515	(-1621)
T.D.	2530	(-1636)

(b) Cored Intervals

No Cores Cut

(c) Sample Description

See appendix 'A'

SECTION III - ENGINEERING SUMMARY

(a) Drill Stem Tests

DST #1 1300-1420 Off bottom straddle (Steen River)

PF 5 Min.	= 188 psi	WAB died in 20 minutes.
ISI 30 Min.	= 554 psi	Recovered 30' mud and
FF 30 Min.	= 177 psi	378' water cushion.
FSI 90 Min.	= 528 psi	
IHMP	= 624 psi	
FHMP	= 623 psi	

See Appendix 'E' for details.

(b) Casing Record

Ran 11 Jts. J-55, 20#, ST&C, new 7" casing with float shoe 331.29'. Landed at 341.29' K.B. Cemented with 130 sacks cement + 3% CaCl₂.

(c) Bit Record

No.	Size	Type	Depth Out	Feet Cut	Hours Run
1A	9-7/8"	--	38	38	5
2A	9-7/8"	OWC	154	116	6
3A	9-7/8"	OSC3	345	229	5-1/4
1	6-1/4"	OSC3	1149	804	13
2	6-1/4"	OSC1G	1247	98	10-3/4
3	6-1/4"	OWV	1375	128	16-1/2
4	6-1/4"	OWV	1499	124	17-3/4
5	6-1/4"	SS-5	1935	436	56-1/16
6	6-1/4"	OWV	1983	48	7-1/2
7	6-1/4"	OWC	2075	92	11
8	6-1/4"	SS-5	2418	343	52-1/4
9	6-1/4"	W-7	2530	112	15-3/4

(d) Mud Report

Gel	239 sacks
Lime	2 sacks
Caustic	14 sacks
Spercene	15 sacks
CMC	2 sacks
Soda Ash	8 sacks

(e) Deviation Record

<u>Depth</u>	<u>Degrees</u>	<u>Depth</u>	<u>Degrees</u>
98	1/4°	1310	1/4°
215	1/2°	1548	1/4°
301	1°	1788	1-1/4°
596	1/2°	2027	1-1/2°
833	1/2°	2268	2°
1070	1/4°		

(f) Abandonment Plugs

<u>Plug No.</u>	<u>Date</u>	<u>Interval</u>	<u>Cement and Additives</u>
1	April 4, 1969	1460-1270	75 sacks cement + 2-1/2% CaCl ₂
2	April 4, 1969	390-Surface	110 sacks cement
3	April 4, 1969	Casing cut 3' below G.L. Welded on plate & erected 4' riser and name plate.	
(g)	<u>Lost Circulation Zones</u>		

None

(h) Blowouts

None

SECTION IV - LOGS

April 2, 1969 ran SGR-C, FDL, IEL, CDM, and SRS.

Induction Electric	2524-342'
Densilog	2528-342'
Acoustilog	2523-341'
Diplog	2525-342'
SRS (<i>Acoustilog - Electric</i>)	2523-341'

SECTION V - ANALYSIS

(a) Core Analysis

None

(b) Water Analysis

None

(c) Gas Analysis

None

(d) Oil Analysis

None

SECTION VI - COMPLETION SUMMARY(a) Tubing Record

None

(b) Perforation Record

None

(c) Cementation Record

<u>Plug No.</u>	<u>Date</u>	<u>Interval</u>	<u>Cement and Additives</u>	<u>Remarks</u>
1	April 4/69	1460-1270	75 sacks + 2-1/2% CaCl ₂	Felt at 1210'
2	April 4/69	390-Surface	110 sacks neat cement	

(d) Acidization and Fracturing Record

None

(e) Back Pressure and Production Tests

None

P. J. Bean
for A. M. McLachlin, Manager
Edmonton Division Production

APPENDIX 'A'

SHELL HUDSON'S BAY GRUMBLER I-72

K.B. 895'

T.D. 2530'

LATITUDE: 60° 21' 41.11"

LONGITUDE: 115° 43' 8.93"

0'-1050'		SAMPLES MISSING
1050'-1060'	Shale	Calcareous shale.
1060'-1070'	Shale	Shale, with traces Pyrite, Calcareous shale.
1070'-1080'	Shale	Shale, with traces Pyrite, Calcareous shale.
1080'-1090'	Limestone	Limestone with traces Pyrite, Calcareous shale.
1090'-1100'	Limestone	Limestone with traces Pyrite, Calcareous
1100'-1110'	Limestone	Limestone with traces Pyrite, trace Crinoid.
1110'-1120'	Limestone	Limestone.
1120'-1130'	Limestone	Limestone with trace Pyrite, trace Pyrobitumen.
1130'-1140'	Limestone	Limestone, trace Pyrobitumen.
1140'-1150'	Limestone	Limestone.
1150'-1160'	Limestone	Limestone with trace Pyrite, trace Pyrobitumen.
1160'-1170'	Limestone	Limestone with trace Pyrite.
1170'-1180'	Limestone	Limestone, trace dead oil in pores.
1180'-1190'	Limestone	Limestone, trace dead oil in pores.
1190-1200'	Limestone	Limestone.
1200'-1210'	Limestone	Limestone, trace anhydrite.

1210'-1220'	Limestone	Limestone, trace anhydrite.
1220'-1230'	Anhydrite	Anhydrite, trace limestone.
1230'-1240'	Limestone	Limestone, trace anhydrite.
1240'-1250'	Anhydrite	Anhydrite, trace limestone.
1250'-1260'	Limestone	Limestone, trace anhydrite.
1260'-1270'	Limestone	Limestone, trace Pyrite.
1270'-1280'	Limestone	Limestone, trace Pyrite.
1280'-1290'	Anhydrite	Anhydrite, trace limestone.
1290'-1300'	Anhydrite	Anhydrite, trace limestone.
1300'-1310'	Anhydrite	Anhydrite, trace limestone, green waxy shale.
1310'-1320'	Dolomite	Dolomite, green waxy shale.
1320'-1330'	Dolomite	Dolomite, green waxy shale.
1330'-1340'	Dolomite	Dolomite.
1340'-1350'	Dolomite	Dolomite, trace Pyrite.
1350'-1360'	Dolomite	Dolomite.
1360'-1370'	Dolomite	Dolomite.
1370'-1380'	Dolomite	Dolomite.
1380'-1390'	Dolomite	Dolomite.
1390'-1400'	Dolomite	Dolomite, trace anhydrite.
1400'-1410'	Anhydrite	Anhydrite, trace dolomite.
1410'-1420'	Anhydrite	Anhydrite, trace dolomite.
1420'-1430'	Anhydrite	Anhydrite, trace dolomite.
1430'-1440'	Anhydrite	Anhydrite, trace dolomite.
1440'-1450'	Anhydrite	Anhydrite, trace dolomite.
1450'-1460'	Anhydrite	Anhydrite, trace dolomite.

1460'-1470'	Dolomite	Dolomite, trace anhydrite, trace Pyrobitumen.
1470'-1480'	Anhydrite	Anhydrite, trace dolomite.
1480'-1490'	Dolomite	Dolomite, trace anhydrite.
1490'-1500'	Dolomite	Dolomite, trace anhydrite.
1500'-1510'	Dolomite	Dolomite, trace anhydrite.
1510'-1520'	Dolomite	Dolomite, trace anhydrite, trace Pyrobitumen.
1520'-1530'	Dolomite	Dolomite, trace anhydrite, trace Pyrobitumen.
1530'-1540'	Anhydrite	Anhydrite, trace dolomite.
1540'-1550'	Anhydrite	Anhydrite, trace dolomite.
1550'-1560'	Anhydrite	Anhydrite, trace dolomite.
1560'-1570'	Dolomite	Dolomite, trace anhydrite, trace Pyrobitumen.
1570'-1580'	Dolomite	Dolomite, trace anhydrite, trace Pyrobitumen.
1580'-1590'	Dolomite	Dolomite, trace anhydrite.
1590'-1600'	Dolomite	Dolomite, trace anhydrite.
1600'-1610'	Anhydrite	Anhydrite, trace dolomite.
1610'-1620'	Anhydrite	Anhydrite, trace dolomite.
1620'-1630'	Dolomite	Dolomite, trace anhydrite.
1630'-1640'	Dolomite	Dolomite, trace anhydrite.
1640'-1650'	Dolomite	Dolomite, trace anhydrite.
1650'-1660'	Anhydrite	Anhydrite, trace dolomite.
1660'-1670'	Dolomite	Dolomite, trace anhydrite.
1670'-1680'	Dolomite	Dolomite, trace anhydrite.
1680'-1690'	Dolomite	Dolomite, trace anhydrite.
1690'-1700'	Dolomite	Dolomite, trace anhydrite, trace Pyrobitumen.

1700'-1710'	Dolomite	Dolomite, trace anhydrite, trace Pyrobitumen.
1710'-1720'	Anhydrite	Anhydrite, trace dolomite, trace Pyrobitumen.
1720'-1730'	Dolomite	Dolomite, trace anhydrite.
1730'-1740'	Dolomite	Dolomite, trace anhydrite, trace Pyrobitumen.
1740'-1750'	Dolomite	Dolomite, trace anhydrite.
1750'-1760'	Anhydrite	Anhydrite, trace dolomite.
1760'-1770'	Dolomite	Dolomite, trace anhydrite.
1770'-1780'	Dolomite	Dolomite, trace anhydrite.
1780'-1790'	Dolomite	Dolomite, trace anhydrite.
1790'-1800'	Dolomite	Dolomite and anhydrite.
1800'-1810'	Dolomite	Dolomite, anhydrite with evidence of vugs or fractures.
1810'-1820'	Dolomite	Dolomite, anhydrite, trace Pyrite.
1820'-1830'	Dolomite	Dolomite, trace anhydrite.
1830'-1840'	Dolomite	Dolomite, trace anhydrite.
1840'-1850'	Dolomite	Dolomite.
1850'-1860'	Dolomite	Dolomite, trace anhydrite.
1860'-1870'	Dolomite	Dolomite, trace anhydrite, trace vugs.
1870'-1880'	Dolomite	Dolomite.
1880'-1890'	Dolomite	Dolomite.
1890'-1900'	Dolomite	Dolomite, trace mineral fluor.
1900'-1910'	Dolomite	Dolomite.

1910'-1920'	Dolomite	Dolomite, traces of vugs and fractures.
1920'-1930'	Dolomite	Dolomite, traces of vugs and fractures.
1930'-1940'	Dolomite	Dolomite, traces of vugs and fractures.
1940'-1950'	Dolomite	Dolomite, traces of vugs and fractures.
1950'-1960'	Dolomite	Dolomite, traces of vugs and fractures.
1960'-1970'	Dolomite	Dolomite, traces of vugs and fractures.
1970'-1980'	Dolomite	Dolomite, traces of vugs and fractures.
1980'-1990'	Dolomite	Dolomite, traces of vugs and fractures.
1990'-2000'	Dolomite	Dolomite.
2000'-2010'	Dolomite	Dolomite, trace Pyrite, traces of vugs and fractures.
2010'-2020'	Dolomite	Dolomite, trace Anhydrite.
2020'-2030'	Dolomite	Dolomite, trace Pyrite, traces of vugs and fractures.
2030'-2040'	Dolomite	Dolomite, traces of vugs and fractures.
2040'-2050'	Dolomite	Dolomite, traces of vugs and fractures, trace anhydrite.
2050'-2060'	Dolomite	Dolomite, trace anhydrite.
2060'-2070'	Dolomite	Dolomite, trace pyrite, pyrite infill.
2070'-2080'	Dolomite	Dolomite, trace anhydrite.
2080'-2090'	Dolomite	Dolomite.
2090'-2100'	Dolomite	Dolomite.

2100'-2110'	Dolomite	Dolomite.
2110'-2120'	Anhydrite	Anhydrite, trace dolomite.
2120'-2130'	Anhydrite	Anhydrite, trace dolomite, trace Pyrite infill.
2130'-2140'	Anhydrite	Anhydrite, trace dolomite, trace Pyrite infill.
2140'-2150'	Anhydrite	Anhydrite, trace dolomite.
2150'-2160'	Anhydrite	Anhydrite, trace dolomite.
2160'-2170'	Anhydrite	Anhydrite, trace dolomite.
2170'-2180'	Anhydrite	Anhydrite.
2180'-2190'	Anhydrite	Anhydrite.
2190'-2200'	Anhydrite	Anhydrite.
2200'-2210'	Anhydrite	Anhydrite.
2210'-2220'	Anhydrite	Anhydrite.
2220'-2230'	Anhydrite	Anhydrite.
2230'-2240'	Anhydrite	Anhydrite.
2240'-2250'	Anhydrite	Anhydrite.
2250'-2260'	Anhydrite	Anhydrite.
2260'-2270'	Anhydrite	Anhydrite.
2270'-2280'	Anhydrite	Anhydrite.
2280'-2290'	Anhydrite	Anhydrite.
2290'-2300'	Anhydrite	Anhydrite.
2300'-2310'	Anhydrite	Anhydrite.
2310'-2320'	Anhydrite	Anhydrite.
2320'-2330'	Anhydrite	Anhydrite, traces of red silty shale, slightly calcareous.

2330'-2340'	Shale	Red Silty Shale, slightly calcareous, traces anhydrite.
2340'-2350'	Shale	Red Silty Shale, slightly calcareous, traces anhydrite.
2350'-2360'	Shale	Red Silty Shale, slightly calcareous, traces argillaceous dolomite.
2360'-2370'	Shale	Red Silty Shale, slightly calcareous, traces argillaceous dolomite.
2370'-2380'	Shale	Red Silty Shale, slightly calcareous, traces argillaceous dolomite.
2380'-2390'	Shale	Red Silty Shale, slightly calcareous, traces argillaceous dolomite.
2390'-2400'	Shale	Red Silty Shale, slightly calcareous, traces argillaceous dolomite.
2400'-2410'	Dolomite	Dolomite, traces argillaceous dolomite.
2410'-2420'	Dolomite	Dolomite, traces anhydrite, evidence of vugs and fractures.
2420'-2430'	Dolomite	Dolomite, trace coal.
2430'-2440'	Dolomite	Argillaceous Dolomite or Dolomitic shale, traces of Pyrite infilling - traces of mica, greyish color.
2440'-2450'	Dolomite	Dolomite, traces anhydrite.
2450'-2460'	Shale	Reddish Calcareous shale with traces quartz.
2460'-2470'	Shale	Reddish Calcareous shale with traces quartz.
2470'-2480'	Shale	Reddish Calcareous shale, trace round quartz grains.
2480'-2490'	Quartz	Quartz grains, few feldspars, dolomite.

2490'-2500'	Quartz	Quartz, granite, feldspars, mica.
2500'-2510'	Quartz	Quartz, granite, feldspars, mica.
2510'-2520'	Quartz	Quartz, granite, feldspars, mica.
2520'-2530'	Quartz	Quartz, granite, feldspars, mica.

APPENDIX 'B'

TEST DATA				TOOL SEQUENCE		
Formation	Zone Thickness		Fl	Test	Length	O.D.
Interval	1300 To	1420 To	2530 Fl	P.O. SUB	.50	4 3/4"
Type of Test	OPEN HOLE, STRADDLE, BYPASS			D.P. SUB	.50	4 3/4"
Time Started in Hole	1500 Hrs	Tool Opened	1640 Hrs	MFE TOOL	9.10	5"
First Flow	5 Min	Initial Shut-In	30 Min	BYPASS TOOL	3.00	5"
Second Flow	30 Min	Second Shut-In	Min	JARS	6.95	4 3/4"
Third Flow	Min	Final Shut-In	90 Min	RECORDER	4.40	4 3/4"
Pulled Loose In	1845 Hrs	Out of Hole	2200 Hrs	H. SUB	.50	4 3/4"
Wt. Set on Packers	22,000 =	Pulled Loose Wt	15,000 =	SAFETY JOINT	1.75	4 3/4"
Description of Blow During Test				S.S. & PACKER	8.00	4 3/4"
WEAK AIR BLOW, DEAD IN 25 MINS.				T.C. & PACKER	5.50	4 3/4"
TOOL WAS CHASED 6' DURING TEST PERIOD.				TOTAL	40.20	
FLUID RECOVERY				STUD	1.50	4 3/4"
Was Test Reverse Circulated Yes ☐ No ☐				PERF	16.00	4 3/4"
Total Fluid Recovered 408 Fl				R. SUB	.50	4 3/4"
Description of Fluid Recovered				RECORDER	4.40	4 3/4"
30' DRILLING FLUID				RECORDER	4.40	4 3/4"
378' WATER CUSHION				SUB	.50	4 3/4"
				DRILL COLLAR	88.60	4 3/4"
				SUB	.50	4 3/4"
				T.C. & STUD	3.50	4 3/4"
				TOTAL INTERVAL	119.90	
GAS BLOW MEASUREMENT						
Measured With I.D. Riser				PACKER	3.50	
Type of Instrument				T.C. & PACKER	6.50	
Time	Spec. Choke	Reading psi inches	M Cubic Feet Day	PERF	25.00	
				SUB	.50	
				DRILL PIPE	1072.00	
				SUB	.50	
				B.N. & PERF	1.50	
				TOTAL BELOW INTV	1109.50	
				TOTAL LENGTH	1269.60	
				Elevation	NOT REPORTED	
				Bottom Hole Choke Size	1 1/2"	
REMARKS				Fluid Cushion Type	WATER	Amr. 378'
TEST SATISFACTORY				MUD AND HOLE DATA		
				Mud Type	GEL	WL. 14.2
				Filter Cake	2/32	Visc. 48 Wt. 9.2
				Time Taken		
				Contractor	SEDCO DRILLING	Rig No. 94
				Drill Pipe Size	3 1/2" IF	
				Drill Collar Size	1 7/8" ID Length	378'
				Main Hole Size	6 1/4"	
				Rat Hole Size		
RESISTIVITY				CHLORIDE CONTENT		
Recovery Water	@	°F.	ppm.			
Mud Pit sample filtrate	@	°F.	ppm.			
District	HIGH LEVEL		Ticket No.	D-01809	Date	APRIL 3, 1969
Company	SHELL CANADA LIMITED				Test No	1
Well Name	SHELL HB GRUMBLER I-72				J.T. No.	1
Number	#60°21'41.11" NL				Address	Box 186
Formation	115°43'8.93" WL				EDMONTON, ALBERTA	
and Interval	1300 - 1420		DST#:		Field	WILDCAT
Distribution of Reports					Province	N.W.T.
				Co. Rep.	M. ENGEN	
				Technician	L. STEINBACK	
				5 - EDMONTON		

0-01309

PRESSURE DATA

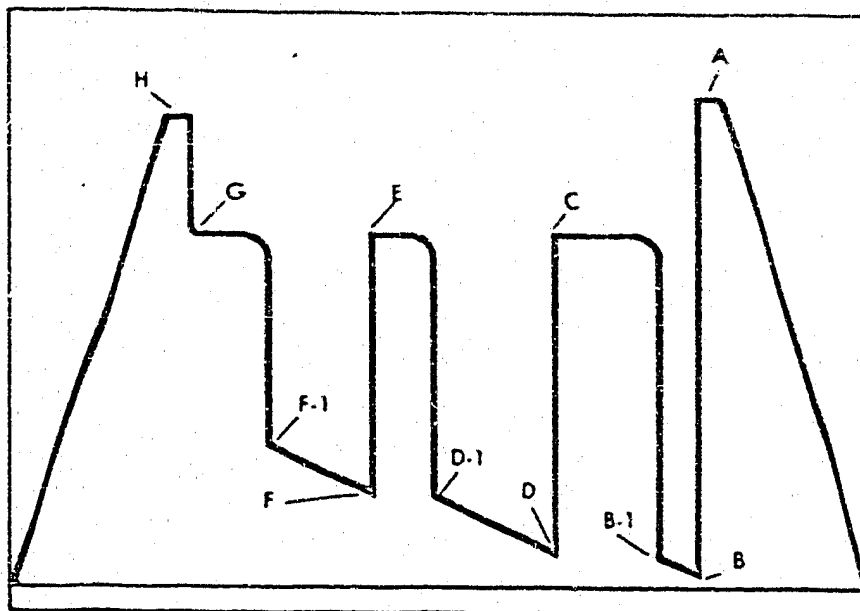
FLUID SAMPLE REPORT

TEST DATA				FLUID SAMPLE REPORT	
INSTRUMENT No.		AK1-2525	AK1-2084	AK1-2085	Sample No.
CAPACITY (pung)		3200	4300	4400	Type
INSTRUMENT DEPTH		1280	1318	1322	Depth
INSTRUMENT OPENING		INSIDE	OUTSIDE	OUTSIDE	Volume
PRESSURE GRADIENT psi/ft					
WELL TEMP °F		63°	63°	63°	
INITIAL HYDROSTATIC	A	612#	624#	629#	Sample Pressure
FIRST FLOW	B-1	112#	188#	193#	60
		177#	295#	303#	psi at Surface
INITIAL SHUT IN	C	540#	554#	560#	Gravity
SECOND FLOW	D-1	177#	177#	180#	API Gr
		181#	129#	131#	Gas Oil Ratio
SECOND SHUT IN					Cu Ft. bbl
THIRD FLOW					
					Recovery
					Cu. Ft. Gas
					cc Oil
					cc Water
					cc Mud
					Total Liquid cc
FINAL SHUT IN	G	511#	528#	532#	
FINAL HYDROSTATIC	H	609#	623#	624#	
REMARKS					

PRESSURE INCREMENTS ON RECORDER AK1-2034

[illegible]

GUIDE TO IDENTIFICATION OF DRILL STEM TEST PRESSURE CHARTS



- A. Initial Hyd. Mud
- B. First Flow
- C. Initial Shut-In
- D. Second Flow
- E. Second Shut-In
- F. Third Flow
- G. Final Shut-In
- H. Final Hyd. Mud

The following points are either fluctuating pressures or points indicating other packer settings (testing different zones).

- A-1, A-2, A-3, etc. Initial Hyd. Pressures
- B, B-1, Initial Flow Pressures
- C, Initial Shut-In
- D-1, D-2, D-3, etc. Second Flow Pressures
- E, Second Shut-In
- F, F-1, F-2, Third Flow Pressures
- G, Final Shut-In
- H, Final Hyd. Pressures
- Z — Special pressure points such as pumping pressures recorded for formation breakdown.

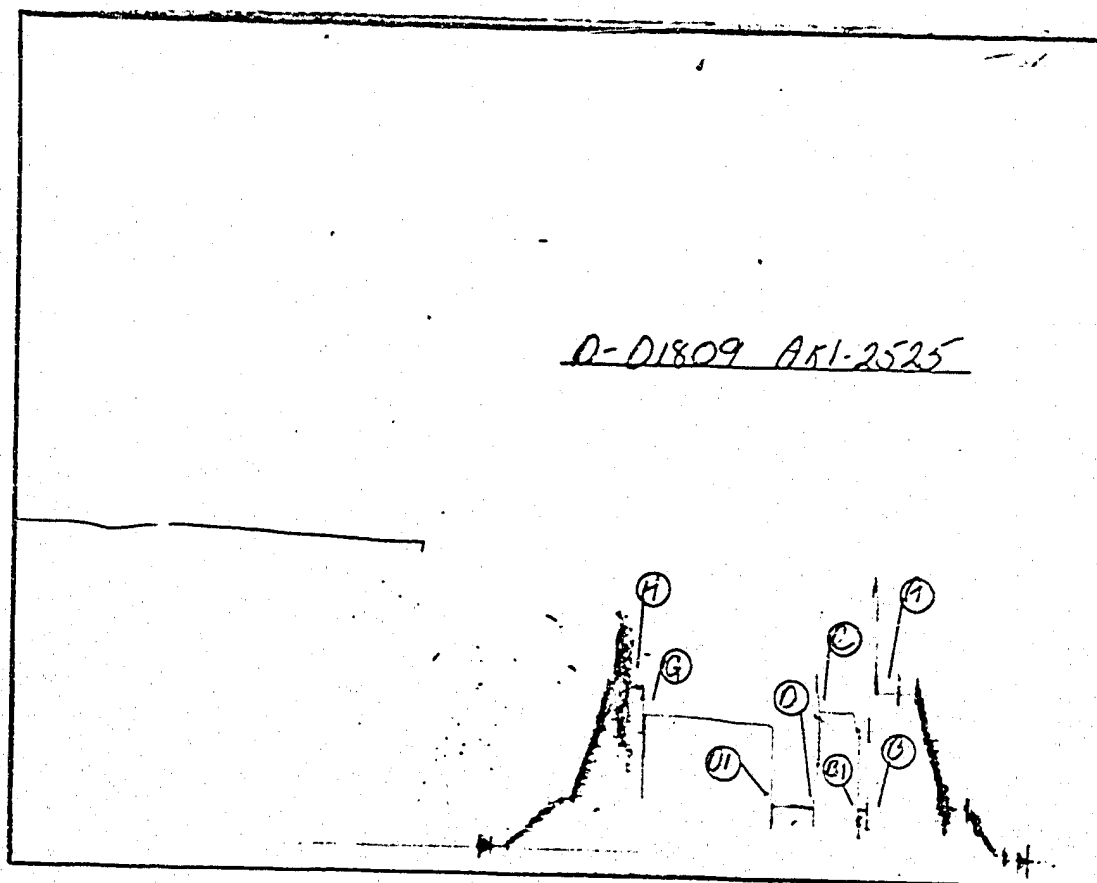


FIELD
REPORT NO.
D-01809

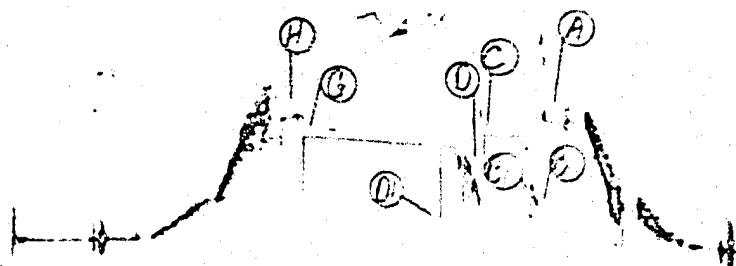
RECORDER NO.
AK1-2525

CAPACITY
3200

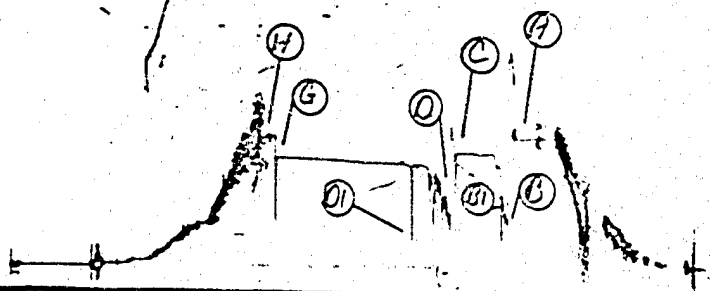
REPORTS
REQUESTED
5



D-01809 AKI-2084



D-01809 AKI-2085



Low Plug #1
1460' - 1240' @ 75 sack cement
2 1/2 % CaCl₂ Plug down @ 4:30 A.M. by Jones

APRIL 3, 1969

OPERATOR		LOCATION		SEC.	TWP.	RGE.	W.	WELL NAME		No.	PROVINCE								
SHELL CANADA LIMITED		SEDFO		94				H.B. SHELL DRUMBLER 272			N.W.T.								
CONTRACTOR		RIG No.	DRILL PIPE STRING NO. SIZE	TOOL JOINT 3 1/2 OD	PUMPS			CASING & LINER RECORD	SIZE	WT. & GR.	DEPTH SET FROM TO	PERFORATIONS FROM TO	CEMENT USED	OTHER					
SEDFO		94		TYPE THD. 1 F	1. N.A.T.			E 150 B.	12										
OPERATOR'S REPRESENTATIVE		CONTRACTOR'S TOOL PUSHER																	
MGE		L. Ross																	
TIME DISTRIBUTION—HOURS		NO. DRILLING ASSEMBLY		BIT RECORD		HRS. DRLD.	CORE NO.	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTA-RY R.P.M.	WT. ON BIT 1000#	PUMP PRESS.	PUMP NO. 1 LINER SIZE S.P.M.	PUMP NO. 2 LINER SIZE S.P.M.	METHOD PUMPS RUN	MUD RECORD		
MORN DAY EVE		STANDS DP		FT.	RUN NO.													TIME	
DRILLING ACTUAL		SNGLS. DP		FT.	SIZE													WEIGHT	
REAMING		D.C. ID			MFG.													VISC	
CIRCULATING		OD		FT.	TYPE													W.L.C.C.	
TRIPS		PMR BODY OD		FT.	NO. NO.													FLTR. CK.	
DEVIATION SURVEY T.P.S.		STB BODY OD		FT.	NOZ. SIZE													PH	
TEST B.O.P.		SUBS OD		FT.	SER. NO.													SD. CONT.	
CUT OFF DRILL LINE		BIT OR C.B.		FT.	DEPTH OUT														
REPAIR RIG				FT.	CUMULATIVE HOURS RUN														
CORING		KELLY DOWN		FT.	COND. OF BIT														
WIRE LINE LOGGING		TOTAL		FT.	REAMER CUTTER NO.														
OTHER		WT. OF STRING		LBS.	TYPE														
FISHING		DRILLER																	
COMPLETING (A) PERFORATING		C. L. Pagnette																	
(B) RUNNING TUBING		NO. DRILLING ASSEMBLY		BIT RECORD		HRS. DRLD.	CORE NO.	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTA-RY R.P.M.	WT. ON BIT 1000#	PUMP PRESS.	PUMP NO. 1 LINER SIZE S.P.M.	PUMP NO. 2 LINER SIZE S.P.M.	METHOD PUMPS RUN	MUD RECORD		
(C) SWABBING		STANDS DP		FT.	RUN NO.													TIME	
(D) TESTING		SNGLS. DP		FT.	SIZE													WEIGHT	
(E) ACIDIZING		D.C. ID			MFG.													VISC	
(F) ADDITIONAL		OD		FT.	TYPE													W.L.C.C.	
TOTALS		RMR BODY OD		FT.	NO. NO.													FLTR. CK.	
TIME SUMMARY (OFFICE USE ONLY)		STB BODY OD		FT.	NOZ. SIZE													PH	
CONTRACTOR'S TIME HRS: 3 3/4		SUBS OD		FT.	SER. NO.													SD. CONT.	
OPERATOR'S TIME: 20 1/4		BIT OR C.B.		FT.	DEPTH OUT														
HRS. W/D.P.: 20 1/4				FT.	CUMULATIVE HOURS RUN														
HRS. WO/D.P.		KELLY DOWN		FT.	COND. OF BIT														
HRS. STANDBY		TOTAL		FT.	REAMER CUTTER NO.														
WIRE LINE RECORD		WT. OF STRING		LBS.	TYPE														
REEL NO		DRILLER																	
NO. OF LINES SIZE		NO. DRILLING ASSEMBLY		BIT RECORD		HRS. DRLD.	CORE NO.	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTA-RY R.P.M.	WT. ON BIT 1000#	PUMP PRESS.	PUMP NO. 1 LINER SIZE S.P.M.	PUMP NO. 2 LINER SIZE S.P.M.	METHOD PUMPS RUN	MUD RECORD		
FEET SLIPPED		STANDS DP		FT.	RUN NO.													TIME	
FEET CUT OFF		SNGLS. DP		FT.	SIZE													WEIGHT	
PRESENT LENGTH		D.C. ID			MFG.													VISC	
TON MI. OF TRIPS SINCE LAST CUT		OD		FT.	TYPE													W.L.C.C.	
CUMULATIVE TON MI. OF TRIPS		RMR BODY OD		FT.	NO. NO.													FLTR. CK.	
NO. OF DAYS FROM SPUD		STB BODY OD		FT.	NOZ. SIZE													PH	
CUMULATIVE ROTATING HRS.		SUBS OD		FT.	SER. NO.													SD. CONT.	
		BIT OR C.B.		FT.	DEPTH OUT														
				FT.	CUMULATIVE HOURS RUN														
		KELLY DOWN		FT.	COND. OF BIT														
		TOTAL		FT.	REAMER CUTTER NO.														
		WT. OF STRING		LBS.	TYPE														
		DRILLER																	
		Steve Scott																	

APRIL 2

OPERATOR		LOCATION	LSD.	SEC.	TWP.	RGE.	W.	WELL NAME	No.	PROVINCE												
SHELL CANADA LIMITED								H. B. GRUBBLER I-72	I-72	N. W. T.												
CONTRACTOR		RIG No.	DRILL PIPE STRING NO. SIZE	TOOL JOINT	PUMPS			CASING & LINER RECORD	SIZE	WT. & GR.	DEPTH SET	PERFORATIONS	CEMENT USED	OTHER								
Sedro		94	3 1/2	4 1/4 OD	NO. MANUFACTURER TYPE STROKE LENGTH				7"		FROM TO	FROM TO										
OPERATOR'S REPRESENTATIVE		CONTRACTOR'S TOOL-PUSHER		1. NAT. C-150-B			12"															
MGE		Jim Ross																				
TIME DISTRIBUTION—HOURS		NO. DRILLING ASSEMBLY		BIT RECORD		HRS. DRLD.		CORE NO.	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTA-RY R.P.M.	WT. ON BIT 1000#	PUMP PRESS.	PUMP NO. 1	PUMP NO. 2	METHOD PUMPS RUN	MUD RECORD				
MORN DAY EVE		STANDS DP		FT. RUN NO.		5 1/4			2474	2530		60	20	700	5"	68		TIME	12:00	4:00	6:00	
DRILLING ACTUAL		SNGLS. DP		FT. SIZE														WEIGHT	9.2	9.2	9.2	
REAMING		D.C. ID		MFG.														VISC	44	52	48	
CIRCULATING		4 1/4 OD		FT. TYPE														W.L.C.C.			14.2	
TRIPS		RMR BODY OD		FT. NOZ. NO.		3		DEVIATION RECORD:		DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	FLTR. CK.			2.2
DEVIATION SURVEY		STB BODY OD		FT. NOZ. SIZE		13												PH			11.0	
TEST B.O.P.		1 SUBS 4 1/4 OD		1.00 FT. SER. NO.		4277		12:00 12:15		RIG SERVICE								SD. CONT.				
CUT OFF DRILL LINE		BIT OR C.B.		FT. DEPTH OUT		9530		12:15 5:30		DRIEL												
REPAIR RIG				FT. CUMULATIVE HOURS RUN		153 1/4		5:30 6:00		DUMMY TRIP												
CORING		KELLY DOWN		6 FT. COND. OF BIT		11:00 6:20		6:00 6:20		CIRCULATE												
WIRE LINE LOGGING		TOTAL		1530 FT. REAMER CUTTER NO.		1		6:30 8:00		STAP OUT TO LOG												
OTHER		WT. OF STRING		33 LBS. TYPE		112																
FISHING		DRILLER		C. L. Pagnotta																		
COMPLETING (A) PERFORATING		NO. DRILLING ASSEMBLY		BIT RECORD		HRS. DRLD.		CORE NO.	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTA-RY R.P.M.	WT. ON BIT 1000#	PUMP PRESS.	PUMP NO. 1	PUMP NO. 2	METHOD PUMPS RUN	MUD RECORD				
(B) RUNNING TUBING		STANDS DP		FT. RUN NO.														TIME				
(C) SWABBING		SNGLS. DP		FT. SIZE														WEIGHT				
(D) TESTING		D.C. ID		MFG.														VISC				
(E) ACIDIZING		4 1/4 OD		FT. TYPE														W.L.C.C.				
(F) ADDITIONAL		RMR BODY OD		FT. NOZ. NO.				DEVIATION RECORD:		DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	FLTR. CK.			
TOTALS		STB BODY OD		FT. NOZ. SIZE														PH				
TIME SUMMARY (OFFICE USE ONLY)		1 SUBS 4 1/4 OD		1.00 FT. SER. NO.		8:00		3:30 - STRAP OUT TO LOG		8:30		4:00		Rig To Log				SD. CONT.				
CONTRACTOR'S TIME HRS:		BIT OR C.B.		FT. DEPTH OUT		8:30		4:00		Rig To Log												
OPERATOR'S TIME:				FT. CUMULATIVE HOURS RUN																		
HRS. W/D.P.:		KELLY DOWN		6 FT. COND. OF BIT		STRAP 2530.29																
HRS. WO/D.P.:		TOTAL		2536 FT. REAMER CUTTER NO.		1		TALLY 2530:00 NO Change														
HRS. STANDBY		WT. OF STRING		33 LBS. TYPE																		
WIRE LINE RECORD		DRILLER		E. L. Larr																		
REEL NO		NO. DRILLING ASSEMBLY		BIT RECORD		HRS. DRLD.		CORE NO.	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTA-RY R.P.M.	WT. ON BIT 1000#	PUMP PRESS.	PUMP NO. 1	PUMP NO. 2	METHOD PUMPS RUN	MUD RECORD				
NO OF LINES SIZE		STANDS DP		FT. RUN NO.														TIME				
FEET SLIPPED		SNGLS. DP		FT. SIZE														WEIGHT				
FEET CUT OFF		D.C. ID		MFG.														VISC				
PRESENT LENGTH		4 1/4 OD		FT. TYPE														W.L.C.C.				
TON MI. or TRIPS SINCE LAST CUT		RMR BODY OD		FT. NOZ. NO.				DEVIATION RECORD:		DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	FLTR. CK.			
CUMULATIVE TON MI. or TRIPS		STB BODY OD		FT. NOZ. SIZE														PH				
NO. OF DAYS FROM SPUD		SUBS OD		FT. SER. NO.		4:00 12:00		LOG										SD. CONT.				
CUMULATIVE ROTATING HRS.		BIT OR C.B.		FT. DEPTH OUT				RAN DRESSER ATLAS LOGS														
				FT. CUMULATIVE HOURS RUN				SGR-C FDL IEL CDM SRS.														
		KELLY DOWN		FT. COND. OF BIT		2530 - SURFACE		2" + 5" SCALES.														
		TOTAL		FT. REAMER CUTTER NO.																		
		WT. OF STRING		LBS. TYPE																		
		DRILLER		S. Scott																		

[illegible]

MARCH 28

OPERATOR		LOCATION		LS.	SEC.	TWP.	RGE.	W.	WELL NAME	No.	PROVINCE				
SHELL CANADA LIMITED									SHELL H.B. GRUMBLES	I 72	NWT				
CONTRACTOR		RIG No.	DRILL PIPE STRING NO. & SIZE	TOOL JOINT	OD	PUMPS			CASING & LINER RECORD	SIZE	WT. & GR.	DEPTH SET FROM TO	PERFORATIONS FROM TO	CEMENT USED	OTHER
SEDCO		94				MANUFACTURER			TYPE	STROKE LENGTH					
OPERATOR'S REPRESENTATIVE		CONTRACTOR'S TOOL PUSHER		1.			NAT			C15013	12				
MGE		Jim Ross		2.											
				3.											

TIME DISTRIBUTION—HOURS				NO. DRILLING ASSEMBLY		BIT RECORD		HRS. DRLD.	CORE NO.	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTA- RY R.P.M.	WT. ON BIT 1000±	PUMP PRESS.	PUMP NO. 1 LINER SIZE S.P.M.	PUMP NO. 2 LINER SIZE S.P.M.	METHOD PUMPS RUN	MUD RECORD			
DRILLING ACTUAL	7 1/2	5 3/4	6 1/2	49	STANDS DP	FT.	RUN NO.	5	6										TIME	12:00		
REAMING	7/4				SNGLS. DP	FT.	SIZE	6 1/4	6 1/4		1930	1948							WEIGHT	9.1		
CIRCULATING				16	D.C. 1 1/8 ID 4 3/4 OD	466.33	FT.	MFG.	Smith HW										VISC	36		
TRIPS	3 1/4	1 1/2	1/4		RMR BODY OD	FT.	NO.	3	3										W.L.C.C.			
DEVIATION SURVEY			1/4		STB BODY OD	FT.	NOZ.	SIZE	13										FLTR. CK.			
TEST B.O.P.					SUBS OD	1.00	FT.	SER. NO.	N9173	10915	12:00	12:30	DRILL						PH			
CUT OFF DRILL LINE					BIT OR C.B.	FT.	DEPTH OUT	1935			12:30	1:15	RIG SER. & THAW OUT FILL UP! ENE						SD. CONT.			
REPAIR RIG						FT.	CUMULATIVE HOURS RUN	5 1/4	2		1:15	4:30	TRIP FOR BIT									
CORING					KELLY DOWN	20	FT.	COND. OF BIT	56 1/4	2	4:30	5:15	THAW OUT SWIVEL									
WIRE LINE LOGGING					TOTAL	FT.	REAMER CUTTER NO.				5:15	6:00	REAM TO BOTTOM & WORK JUNK SUB.									
OTHER					WT. OF STRING	LBS.	TYPE				6:00	8:00	DRILL									
FISHING					DRILLER				Steve Scott													

TIME DISTRIBUTION—HOURS				NO. DRILLING ASSEMBLY		BIT RECORD		HRS. DRLD.	CORE NO.	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTA- RY R.P.M.	WT. ON BIT 1000±	PUMP PRESS.	PUMP NO. 1 LINER SIZE S.P.M.	PUMP NO. 2 LINER SIZE S.P.M.	METHOD PUMPS RUN	MUD RECORD			
DRILLING ACTUAL				50	STANDS DP	FT.	RUN NO.	6											TIME	8:AM	12:00	2:15
REAMING					SNGLS. DP	FT.	SIZE	6 1/4			1948	1983		60	20	700	5	68	WEIGHT	9.1	9.0	9.0
CIRCULATING				16	D.C. 1 1/8 ID 4 3/4 OD	466.33	FT.	MFG.	H.W.										VISC	33	33	38
TRIPS					RMR BODY OD	FT.	NO.	3											W.L.C.C.	10.4		
DEVIATION SURVEY					STB BODY OD	FT.	NOZ.	SIZE	13										FLTR. CK.	7/32		
TEST B.O.P.					SUBS OD	1.00	FT.	SER. NO.	10815		8:00	10:30	DRILL						PH	9.0		
CUT OFF DRILL LINE					BIT OR C.B.	FT.	DEPTH OUT				10:30	10:45	SERV. RIG CHECK B.O.P.						SD. CONT.			
REPAIR RIG						FT.	CUMULATIVE HOURS RUN	7 1/2			10:45	1:15	DRILL									
CORING					KELLY DOWN	15	FT.	COND. OF BIT	3-2-1		1:15	1:30	WORK ON PUMP									
WIRE LINE LOGGING					TOTAL	1983	FT.	REAMER CUTTER NO.			1:30	2:15	DRILL									
OTHER					WT. OF STRING	LBS.	TYPE				2:15	4:00	TRIP FOR BIT									
FISHING					DRILLER				O. L. Paputh													

TIME DISTRIBUTION—HOURS				NO. DRILLING ASSEMBLY		BIT RECORD		HRS. DRLD.	CORE NO.	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTA- RY R.P.M.	WT. ON BIT 1000±	PUMP PRESS.	PUMP NO. 1 LINER SIZE S.P.M.	PUMP NO. 2 LINER SIZE S.P.M.	METHOD PUMPS RUN	MUD RECORD			
DRILLING ACTUAL				52	STANDS DP	1592	FT.	RUN NO.	7										TIME	6:00	4:00	10:00
REAMING					SNGLS. DP	2 1/2	FT.	SIZE	6 1/4					60	20	700	5	68	WEIGHT	9.1	9.1	9.1
CIRCULATING				16	D.C. 1 1/8 ID 4 3/4 OD	466.33	FT.	MFG.	A.W.										VISC	39	37	38
TRIPS					RMR BODY OD	FT.	NO.	3											W.L.C.C.			
DEVIATION SURVEY					STB BODY OD	FT.	NOZ.	SIZE	13										FLTR. CK.			
TEST B.O.P.					SUBS OD		FT.	SER. NO.	AT053		4:00	4:15	Rig Service						PH			
CUT OFF DRILL LINE					BIT OR C.B.	FT.	DEPTH OUT				4:15	5:15	Run in with bit # 7						SD. CONT.			
REPAIR RIG						FT.	CUMULATIVE HOURS RUN	6 1/2			5:15	10:45	DRILL									
CORING					KELLY DOWN	24	FT.	COND. OF BIT			10:45	11:00	SURVEY									
WIRE LINE LOGGING					TOTAL		FT.	REAMER CUTTER NO.			11:00	12:00	DRILL									
OTHER					WT. OF STRING	28 m	LBS.	TYPE														
FISHING					DRILLER				E. Leer													

DAILY DRILLING REPORT

REPORT NO.

DATE MARCH 27

OPERATOR SHELL CANADA LIMITED		LOCATION LSD.		SEC.		TWP.		RGE.		W.		WELL NAME SHELL H.B. GRUMBLER		No. I 72.		PROVINCE N.W.T.																							
CONTRACTOR SEDCO		RIG No. 94		DRILL PIPE STRING NO. SIZE		TOOL JOINT		OD		PUMPS		CASING & LINER RECORD		SIZE		WT. & GR.		DEPTH SET FROM TO		PERFORATIONS FROM TO		CEMENT USED		OTHER															
OPERATOR'S REPRESENTATIVE MGE		CONTRACTOR'S TOOL PUSHER Jim Ross		NO.		MANUFACTURER		TYPE		STROKE LENGTH		1.		2.		3.																							
TIME DISTRIBUTION—HOURS		MORN		DAY		EVE		NO.		DRILLING ASSEMBLY		BIT RECORD		HRS. DRLD.		CORE NO.		FROM		TO		FORMATION (SHOW CORE RECOVERY)		ROTA- RY R.P.M.		WT. ON BIT 1000#		PUMP PRESS.		PUMP NO. 1 LINER SIZE S.P.M.		PUMP NO. 2 LINER SIZE S.P.M.		METHOD PUMPS RUN		MUD RECORD			
DRILLING ACTUAL		7 1/2		7 1/4		7 1/4		44		STANDS DP		FT. RUN NO. 5						1785		1796				80		25		700		5						TIME 12:00 4:00 6:00			
REAMING								6		D.C. 1 1/2 ID		MFG. Smith																						WEIGHT 9.1 9.1 9.1					
CIRCULATING								16		D.C. 4 3/4 OD		466.33 FT.		TYPE 55-5																				VISC 34 36 37					
TRIPS								1		RMR BODY OD		FT. NO. 3																						W.L.C.C.					
DEVIATION SURVEY		1/4						1		STB BODY OD		FT. NO. 13																						FLTR. CK.					
TEST B.O.P.								1		SUBS 4 1/2 OD		1.00 FT.		SER. NO. N9173																				PH					
CUT OFF DRILL LINE								1		BIT OR C.B.		FT. DEPTH OUT																						SD. CONT.					
REPAIR RIG								1		KELLY DOWN		18 FT.		COND. OF BIT R.																									
CORING								1		TOTAL		FT. REAMER CUTTER NO.																											
WIRE LINE LOGGING								1		WT. OF STRING		LBS. TYPE																											
OTHER		1/4		1/4		1/4		1		DRILLER		Steve Scott																											
FISHING								1		NO.		DRILLING ASSEMBLY		BIT RECORD		HRS. DRLD.		CORE NO.		FROM		TO		FORMATION (SHOW CORE RECOVERY)		ROTA- RY R.P.M.		WT. ON BIT 1000#		PUMP PRESS.		PUMP NO. 1 LINER SIZE S.P.M.		PUMP NO. 2 LINER SIZE S.P.M.		METHOD PUMPS RUN		MUD RECORD	
COMPLETING (A) PERFORATING								16		STANDS DP		FT. RUN NO. 5						1796		1862						45		20		7.00		5		68				TIME 8 AM 12:00 2:00 PM	
(B) RUNNING TUBING								16		SNGLS. DP		FT. SIZE 6 1/4																								WEIGHT 9.1 9.0 9.0			
(C) SWABBING								16		D.C. 1 1/2 ID		MFG. Smith																						VISC 37 36 37					
(D) TESTING								16		D.C. 4 3/4 OD		466.33 FT.		TYPE 55-5																				W.L.C.C.					
(E) ACIDIZING								1		RMR BODY OD		FT. NO. 3																						FLTR. CK.					
(F) ADDITIONAL								1		STB BODY OD		FT. NO. 13																						PH					
TOTALS								1		SUBS 4 1/2 OD		1.00 FT.		SER. NO. N9173																				SD. CONT.					
TIME SUMMARY (OFFICE USE ONLY)								1		BIT OR C.B.		FT. DEPTH OUT																											
CONTRACTOR'S TIME HRS: 24																																							

[illegible]

DATE MARCH 25

[illegible]

DATE MARCH 24

38 (10/83)		DAILY DRILLING REPORT		REPORT NO.		DATE		THRU		WELL NAME		No.		PROVINCE																									
OPERATOR		SHELL CANADA LIMITED		LOCATION		LSD.		SEC.		TWP		RGE		W.		SHELL H.B. GRUMBLER		I - 72		N.W.T.																			
CONTRACTOR		SEDCO		RIG No.		94		DRILL PIPE STRING NO. SIZE		TOOL JOINT		OD		PUMPS		CASING & LINER RECORD		SIZE		WT. & GR.		DEPTH SET		PERFORATIONS		CEMENT USED		OTHER											
OPERATOR'S REPRESENTATIVE		RW M. Lh.		CONTRACTOR'S TOOL PUSHER		K. K. Lh.		NO.		MANUFACTURER		TYPE		STROKE LENGTH		1.		2.		3.																			
TIME DISTRIBUTION—HOURS		MORN		DAY		EVE		NO.		DRILLING ASSEMBLY		BIT RECORD		HRS. DRLD.		CORE NO.		FROM		TO		FORMATION (SHOW CORE RECOVERY)		ROTA- RY R.P.M.		WT. ON BIT 1000±		PUMP PRESS.		PUMP NO. 1		PUMP NO. 2		METHOD PUMPS RUN		MUD RECORD			
DRILLING ACTUAL		7 1/4		7 1/4		5 1/2		24		STANDS DP		FT. RUN NO. 3						1251		1320				80		10		5		68				TIME 12:00 2:00 6:00					
REAMING								16		D.C. 1 1/2 ID 4 3/4 OD		466.33 FT. TYPE DWU																				WEIGHT 8.9 8.8 8.9							
CIRCULATING								16		RMR BODY OD		FT. NO. 3																				VISC 40 38 37							
TRIPS						2		16		STB BODY OD		FT. NO. 11																				W.L.C.C.							
DEVIATION SURVEY		1/4						16		SUBS OD		1.00 FT. SER. NO. HK928		13:00		13:30		RIG SER. WORK ON AIR LINES														FLTR. CK.							
TEST B.O.P								16		BIT OR C.B.		FT. DEPTH OUT		12:30		7:00		DRILL														PH							
CUT OFF DRILL LINE								16		KELLY DOWN		19 FT. COND. OF BIT R.		7:15		8:00		DRILL														SD. CONT.							
REPAIR RIG						1/2		16		TOTAL		FT. REAMER CUTTER NO.																				MUD & CHEMICALS ADDED							
CORING								16		WT. OF STRING		LBS. TYPE																				TYPE		AMT.					
WIRE LINE LOGGING								16		DRILLER		Steve Scott																				TYPE		AMT.					
OTHER 25		1/2		4 1/2				16		NO.		DRILLING ASSEMBLY		BIT RECORD		HRS. DRLD.		CORE NO.		FROM		TO		FORMATION (SHOW CORE RECOVERY)		ROTA- RY R.P.M.		WT. ON BIT 1000±		PUMP PRESS.		PUMP NO. 1		PUMP NO. 2		METHOD PUMPS RUN		MUD RECORD	
FISHING								16		30		STANDS DP		FT. RUN NO. 3						1320		1370				80		20		850		5				TIME 8:00 10:00 12:00			
COMPLETING (A) PERFORATING								16		D.C. 1 1/2 ID 4 3/4 OD		466.33 FT. TYPE DWU																						WEIGHT 8.8 8.9 8.9					
(B) RUNNING TUBING								16		RMR BODY OD		FT. NO. 3																						VISC 34 35 38					
(C) SWABBING								16		STB BODY OD		FT. NO. 11																						W.L.C.C.					
(D) TESTING								16		SUBS OD		1.00 FT. SER. NO. HK928		8:00		8:30		DRILL														FLTR. CK.							
(E) ACIDIZING								16		BIT OR C.B.		FT. DEPTH OUT		8:30		8:45		SERVICE RIG																PH					
(F) ADDITIONAL								16		KELLY DOWN		9 FT. COND. OF BIT 13		8:45		9:00		DRILL														SD. CONT.							
TOTALS								16		TOTAL		1370 FT. REAMER CUTTER NO.																						MUD & CHEMICALS ADDED					
TIME SUMMARY (OFFICE USE ONLY)								16</																															

DATE		TIME		LOCATION		LSD.		SEC.		TWP.		RGE.		W.		WELL NAME		No.		PROVINCE																	
OPERATOR		SHELL CANADA LIMITED		CONTRACTOR		RIG No.		DRILL PIPE STRING NO. SIZE		TOOL JOINT		OD		PUMPS		CASING & LINER RECORD		SIZE		WT. & GR.		DEPTH SET FROM TO		PERFORATIONS FROM TO		CEMENT USED		OTHER									
S.E.D.C.O.		CONTRACTOR'S REPRESENTATIVE		R.W. Mill.		CONTRACTOR'S TOOL PUSHER		K. Kelly		TYPE THD.		NO.		MANUFACTURER		TYPE		STROKE LENGTH																			
TIME DISTRIBUTION—HOURS		MORN		DAY		EVE		NO.		DRILLING ASSEMBLY		BIT RECORD		HRS. DRLD.		CORE NO.		FROM		TO		FORMATION (SHOW CORE RECOVERY)		ROTA- RY R.P.M.		WT.ON BIT 1000#		PUMP PRESS.		PUMP NO. 1 LINER SIZE S.P.M.		PUMP NO. 2 LINER SIZE S.P.M.		METHOD PUMPS RUN		MUD RECORD	
DRILLING ACTUAL		5 1/4		6 1/2		5 1/2		16		STANDS DP		FT. RUN NO. 1						10 1/2		11 1/4														TIME 2 4 6			
REAMING								16		SHGLS. DP		FT. SIZE 6 1/4																						WEIGHT 8.6 8.6 8.7			
CIRCULATING								16		D.C. 1 1/2 ID		MFG. HW																						VISC 41 38 36			
TRIPS		3/4		1		1 1/4		16		RMR BODY OD		FT. NO. 3																						W.L.C.C.			
DEVIATION SURVEY		1/4						16		STB BODY OD		FT. NO. 11																						FLTR. CK.			
TEST B.O.P.								16		SUBS OD		FT. SER. NO. 988																						PH			
CUT OFF DRILL LINE								16		BIT OR C.B.		FT. DEPTH OUT 1149																						SD. CONT.			
REPAIR RIG		1/4		1/2		3/4		16		KELLY DOWN		FT. COND. OF BIT 3-2-1																						MUD & CHEMICALS ADDED			
CORING								16		TOTAL		FT. REAMER CUTTER NO.																						TYPE AMT. TYPE AMT.			
WIRE LINE LOGGING								16		WT. OF STRING		LBS. TYPE																						Hel 1400			
FISHING								16		DRILLER		Scott																						Caustic 100			
COMPLETING (A) PERFORATING								16		NO. DRILLING ASSEMBLY		BIT RECORD		HRS. DRLD.		CORE NO.		FROM		TO		FORMATION (SHOW CORE RECOVERY)		ROTA- RY R.P.M.		WT.ON BIT 1000#		PUMP PRESS.		PUMP NO. 1 LINER SIZE S.P.M.		PUMP NO. 2 LINER SIZE S.P.M.		METHOD PUMPS RUN		MUD RECORD	
(B) RUNNING TUBING								16		STANDS DP		FT. RUN NO. 2						11 1/4		12 1/4				80		15		850		5 1/2 67				TIME 10:45 12:45 2 PM			
(C) SWABBING								16		SHGLS. DP		FT. SIZE 6 1/4																						WEIGHT 8.8 8.9 8.8			
(D) TESTING								16		D.C. 1 1/2 ID		MFG. HW																						VISC 36 40 41			
(E) ACIDIZING								16		RMR BODY OD		FT. NO. 3																						W.L.C.C.			
(F) ADDITIONAL								16		STB BODY OD		FT. NO. 11																						FLTR. CK.			
TOTALS		8		8		8		16		SUBS 4 1/2 OD		FT. SER. NO. 7705																						PH			
TIME SUMMARY (OFFICE USE ONLY)								16		BIT OR C.B.		FT. DEPTH OUT 6 1/2																						SD. CONT.			
CONTRACTOR'S TIME HRS:								16		KELLY DOWN		FT. COND. OF BIT RUN																						MUD & CHEMICALS ADDED			

[illegible]

OPERATOR		SHELL CANADA LIMITED		LOCATION		USD.	SEC.	TWP.	RGE.	W.	WELL NAME		No.		PROVINCE																																
CONTRACTOR		RIG No.		DRILL PIPE STRING NO. SIZE		TOOL JOINT		OD		PUMPS			CASING & LINER RECORD		DEPTH SET		PERFORATIONS		CEMENT USED		OTHER																										
OPERATOR'S REPRESENTATIVE		CONTRACTOR'S TOOL PUSHER		NO.		MANUFACTURER		TYPE		STROKE LENGTH		SIZE		WT. & GR.		FROM		TO		FROM		TO																									
1.		2.		3.		1.		2.		3.		1.		2.		3.		1.		2.		3.																									
TIME DISTRIBUTION—HOURS		MORN		DAY		EVE		NO.		DRILLING ASSEMBLY		BIT RECORD		HRS. DRLD.		CORE NO.		FROM		TO		FORMATION (SHOW CORE RECOVERY)		ROTA- RY R.P.M.		WT.ON BIT 1000#		PUMP PRESS.		PUMP NO. 1		PUMP NO. 2		METHOD PUMPS RUN		MUD RECORD											
DRILLING ACTUAL		REAMING		CIRCULATING		TRIPS		DEVIATION SURVEY		TEST B.O.P		CUT OFF DRILL LINE		REPAIR RIG		CORING		WIRE LINE LOGGING		OTHER		FISHING		COMPLETING (A) PERFORATING		(B) RUNNING TUBING		(C) SWABBING		(D) TESTING		(E) ACIDIZING		(F) ADDITIONAL		TOTALS											
TIME SUMMARY (OFFICE USE ONLY)		CONTRACTOR'S TIME HRS:		OPERATOR'S TIME:		HRS. W/D.P:		HRS. WO/D.P:		HRS. STANDBY		WIRE LINE RECORD		REEL NO		NO OF LINES		SIZE		FEET SLIPPED		FEET CUT OFF		PRESENT LENGTH		TON MI. or TRIPS SINCE LAST CUT		CUMULATIVE TON MI. or TRIPS		NO. OF DAYS FROM SPUD		CUMULATIVE ROTATING HRS.		NO. OF DAYS FROM SPUD		CUMULATIVE ROTATING HRS.											
1.		2.		3.		1.		2.		3.		1.		2.		3.		1.		2.		3.		1.		2.		3.		1.		2.		3.		1.		2.		3.							
12:00 12:15 Service R. 9		12:15 Finish Rigging up.		2:15 3:15 Dig Rat Hole.		3:45 Repair oil line on Motor		3:50 Dig Rat Hole.		REMARKS		12:00 12:15 Service R. 9		12:15 Finish Rigging up.		2:15 3:15 Dig Rat Hole.		3:45 Repair oil line on Motor		3:50 Dig Rat Hole.		REMARKS		12:00 12:15 Service R. 9		12:15 Finish Rigging up.		2:15 3:15 Dig Rat Hole.		3:45 Repair oil line on Motor		3:50 Dig Rat Hole.		REMARKS		12:00 12:15 Service R. 9		12:15 Finish Rigging up.		2:15 3:15 Dig Rat Hole.		3:45 Repair oil line on Motor		3:50 Dig Rat Hole.		REMARKS	
12:00 12:15 Service R. 9		12:15 Finish Rigging up.		2:15 3:15 Dig Rat Hole.		3:45 Repair oil line on Motor		3:50 Dig Rat Hole.		REMARKS		12:00 12:15 Service R. 9		12:15 Finish Rigging up.		2:15 3:15 Dig Rat Hole.		3:45 Repair oil line on Motor		3:50 Dig Rat Hole.		REMARKS		12:00 12:15 Service R. 9		12:15 Finish Rigging up.		2:15 3:15 Dig Rat Hole.		3:45 Repair oil line on Motor		3:50 Dig Rat Hole.		REMARKS		12:00 12:15 Service R. 9		12:15 Finish Rigging up.		2:15 3:15 Dig Rat Hole.		3:45 Repair oil line on Motor		3:50 Dig Rat Hole.		REMARKS	
12:00 12:15 Service R. 9		12:15 Finish Rigging up.		2:15 3:15 Dig Rat Hole.		3:45 Repair oil line on Motor		3:50 Dig Rat Hole.		REMARKS		12:00 12:15 Service R. 9		12:15 Finish Rigging up.		2:15 3:15 Dig Rat Hole.		3:45 Repair oil line on Motor		3:50 Dig Rat Hole.		REMARKS		12:00 12:15 Service R. 9		12:15 Finish Rigging up.		2:15 3:15 Dig Rat Hole.		3:45 Repair oil line on Motor		3:50 Dig Rat Hole.		REMARKS		12:00 12:15 Service R. 9		12:15 Finish Rigging up.		2:15 3:15 Dig Rat Hole.		3:45 Repair oil line on Motor		3:50 Dig Rat Hole.		REMARKS	
12:00 12:15 Service R. 9		12:15 Finish Rigging up.		2:15 3:15 Dig Rat Hole.		3:45 Repair oil line on Motor		3:50 Dig Rat Hole.		REMARKS		12:00 12:15 Service R. 9		12:15 Finish Rigging up.		2:15 3:15 Dig Rat Hole.		3:45 Repair oil line on Motor		3:50 Dig Rat Hole.		REMARKS		12:00 12:15 Service R. 9		12:15 Finish Rigging up.		2:15 3:15 Dig Rat Hole.		3:45 Repair oil line on Motor		3:50 Dig Rat Hole.		REMARKS		12:00 12:15 Service R. 9		12:15 Finish Rigging up.		2:15 3:15 Dig Rat Hole.		3:45 Repair oil line on Motor		3:50 Dig Rat Hole.		REMARKS	
12:00 12:15 Service R. 9		12:15 Finish Rigging up.		2:15 3:15 Dig Rat Hole.		3:45 Repair oil line on Motor		3:50 Dig Rat Hole.		REMARKS		12:00 12:15 Service R. 9		12:15 Finish Rigging up.		2:15 3:15 Dig Rat Hole.		3:45 Repair oil line on Motor		3:50 Dig Rat Hole.		REMARKS		12:00 12:15 Service R. 9		12:15 Finish Rigging up.		2:15 3:15 Dig Rat Hole.		3:45 Repair oil line on Motor		3:50 Dig Rat Hole.		REMARKS		12:00 12:15 Service R. 9		12:15 Finish Rigging up.		2:15 3:15 Dig Rat Hole.		3:45 Repair oil line on Motor		3:50 Dig Rat Hole.		REMARKS	
12:00 12:15 Service R. 9		12:15 Finish Rigging up.		2:15 3:15 Dig Rat Hole.		3:45 Repair oil line on Motor		3:50 Dig Rat Hole.		REMARKS		12:00 12:15 Service R. 9		12:15 Finish Rigging up.		2:15 3:15 Dig Rat Hole.		3:45 Repair oil line on Motor		3:50 Dig Rat Hole.		REMARKS		12:00 12:15 Service R. 9		12:15 Finish Rigging up.		2:15 3:15 Dig Rat Hole.		3:45 Repair oil line on Motor		3:50 Dig Rat Hole.		REMARKS		12:00 12:15 Service R. 9		12:15 Finish Rigging up.		2:15 3:15 Dig Rat Hole.		3:45 Repair oil line on Motor		3:50 Dig Rat Hole.		REMARKS	
12:00 12:15 Service R. 9		12:15 Finish Rigging up.		2:15 3:15 Dig Rat Hole.		3:45 Repair oil line on Motor		3:50 Dig Rat Hole.		REMARKS		12:00 12:15 Service R. 9		12:15 Finish Rigging up.		2:15 3:15 Dig Rat Hole.		3:4																													