SHELL HB GRUMBLER L-05

Drilling Authority No. 342
Date Issued 8 January 1969

WELL NAME: Shell HB Grumbler L-05
FIELD: Wildcat
Area:
LOCATION: Unit L Section 5 Grid 60-20, 116-00
Latitude 60-14-41.26 Longitude 116-01-32.29
From Established Reference Marker N.E. 36-131-10-5

U.W.I.I. 60.2479 — 116.02564
U.W.I. 300L056C20116000

Rig Release Date:
Status
Information Release Date

CHANGE OF NAME:

DATE RECEIVED	INDEX
8/1/69	Application for a Drilling Authority.
	Well Completion Data.
	Well History Report.
	Application to Amend a Drilling Authority.
	Application to change a Well Name.
24/3/69	Application to Abandon a Well or Suspend Drilling.
	Application to Alter Condition of a Well.
	Well History Supplement.
8/4/69	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

NANR 52-90 (7-65)

Drilling Authority No. 342
Date Issued January 8, 1969

CANADA

DEPARTMENT OF INDIAN AFFAIRS AND NORTHERN DEVELOPMENT
RESOURCE MANAGEMENT DIVISION

WELL COMPLETION DATA

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

APR 14 1969

Well name and number SHELL H.B. GRUMBLER L-05

Permit No. 4247 Lease No. —

Hudson's Bay Oil & Gas Company Ltd. (Permittee, Licensee, Lessee) Exploratory Licence No. 1096

Shell Canada Limited (Operator) Exploratory Licence No. 1881

Location: Unit L Section 05 Grid 60° 20' 116° 00'

Latitude 60° 14' 41.26" Longitude 116° 01' 32.29"

From Established Reference Marker N.E. 36-131-10-5

Universal Well Location Reference 60.24479 N. Lat. 116.02564 W. Long.

	DATE	DEPTH
Spudded	28/2/69	Surface
Suspended	—	—
Resumed Operations	—	—
Finished Drilling	13/3/69	2472
Deepened	—	—
Complete (gas/oil)	—	—
Abandoned	18/3/69	2472
Rig released	18/3/69	2472

Pool(s) Nil

Interval(s) open to production Nil

Elevation: Gr. 932 K.B. 945

Rig No. Sedco #94

Drilling Contractor Sedco Exploration Ltd.

Contractor's Business Licence No. A-11203

CASING RECORD

Casing Size (Inches)	Grade	Weight	Amount	Set at —	Sacks of Cement and Additives
1. 7"	J-55	20#	334.49	345' K.B.	130 Sacks + 3% $CaCl_2$
2.					+ 1 Sack Celloseal
3.					
4.					
5.					
6.					

GEOLOGICAL TOPS	ELEVATION Depths	ELEVATION Sub-Sea
Slave Point	1388	(- 443)
Ft. Vermilion	1510	(- 565)
Watt Mountain	1586	(- 641)
Steen River	1600	(- 655)
Muskeg	1708	(- 763)
Keg River	2012	(-1067)
Bear Rock	2295	(-1350)
PreCambrian	2456	(-1511)

CORE RECORD

From	To	Rec.	From	To	Rec.
NIL					

LOG RECORD

Run No.	Type of Log	From	To
1	Induction Electrical Log	2468	345
1	Borehole Compensated Sonic	2467	345
1	Formation Density Log	2467	345
1	Continuous Dipmeter	2462	345
1	Seismic Reference Survey	2467	345

IAND 52-9 (2) (3-67)

CEMENTING RECORD (Plug, Squeeze, etc.)

Date	From	To	Remarks
17/3/69	2472	1950	Plug #1 125 Sx. Const. Plug down 7:30 P.M.
17/3/69	1710	1330	Plug #2 148 Sx. Const. + 2% $CaCl_2$. Plug down 8:45 P.M. Felt plug at 1308'.
18/3/69	400	Surface	Plug #3 87 Sx. Const. Plug down 7:15 A.M. Casing cut 3' below G.L. Welded on plate & erected 4' riser and name plate.

PERFORATING RECORD (Bullet, Jet)

Date	From	To	Remarks
			Nil

SERVICING RECORD (Acidizing, Fracing, etc.)

Date	From	To	Remarks
			Nil

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	15/3/69	Steen River	1600	1730										Misrun - Packer failed to seat.
1A	17/3/69	Steen River	1615	1715	90	60	90	637	638	334	637	754	754	Recovered 60' water cushion and 1285' muddy salt water.

ANALYSIS

Lab. No.	Sample	From	To	Source	Remarks
72	Water Dst No. 1A	1615	1715	Steen River	Salinity 15,191 Cl^-

PRESENT STATUS OF WELL

Oil		(Interval)
Gas		(Interval)
Dry		Abandoned
Susp.		

Company: SHELL CANADA LIMITED

Signed by: [signature]

Title: MANAGER - EDMONTON DIVISION PRODUCTION

Date: APRIL 8, 1969

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

File No.
Drilling Authority No. 342

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 H.B. GRIMBLER L-05

Location: Unit L Section 05 Grid 60° 20' 116° 00'

Latitude 60° 14' 41.26" Longitude 116° 01' 32.29"

From Established Reference Marker N.E. 36-131-10-5

Universal Well Location Reference 60.24479 N. Lat. 116.02564 W. Long.

Permit No. 4147 Lease No.

Hudson's Bay Oil & Gas Company Ltd.
(Permittee, Licensee, Lessee)

Date of commencement of proposed program March 17, 1969

OIL, GAS, AND WATER ENCOUNTERED
(Depths)

Oil at Nil
Gas at Nil
Water at 1615-1715 (DST No. 1A) Steen River. Rec. 1285' muddy salt water (21,000 ppm NaCl)
Total Depth 2472 Date of last operations March 18, 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	20#	334.49'	345' K.B.	130 Sx. + 3% $CaCl_2$ + 1 sack Cellosseal	---
2.					
3.					
4.					
5.					

PROPOSED ABANDONMENT PROGRAM

Plug No.	Plug Position	Geological Formation	Number of Sacks of Cement	Remarks
1	2472-1950	Pre-Cambrian, Bear Rock, Methy	125 Sx.	Plug down 7:30 P.M. March 17
2	1710-1330	Steen River, Watt Mountain Ft. Vermilion, Slave Pt.	148 Sx. + 2% $CaCl_2$	Plug Down 8:45 P.M. March 17 Felt at 1204'
3	400-Surface		87 Sx.	Completed at 7:15 A.M. March 18, casing cut 3' below G.L. Steel Riser 4' above G.L. with well name welded on riser

The following logs have been run BHSCN-C, IEL, FDC, CDM, and Velocity Survey
Other operations proposed Nil

Operations to be carried out by Sedco Explorations Ltd. Contractor Licence No. A-11203
Address 630-6th Ave. S.W., Calgary Address 630-6th Ave. S.W., Calgary
Responsible Agent in field Roy Killaly
Dated at Edmonton, Alberta this 19th Day of March 19 69
Signed by P.T. Blue (P.T. Benn) for Company SHELL CANADA LIMITED
Title MANAGER-EDMONTON DIV. PROD. Operator's Exploratory Licence No. 1881

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. G. E. Blue on the 17th March 1969.

Dated 24th March, 19 69

B. H. Toms
Oil Conservation Engineer

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

IAND 52-90 (5) (3-67)

Drilling Authority No. 342

Project No.

File No.

CANADA

DEPARTMENT OF INDIAN AFFAIRS AND NORTHERN DEVELOPMENT

Oil & Mineral [redacted] 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. GRUMBLER L-05

Location: Unit L Section 05 Grid 60° 20' 116° 00'

Latitude 60° 14' 41.26" Longitude 116° 01' 32.29"

From Established Reference Marker N.E. 36-131-10-5

Universal Well Location Reference 60.24479 N. Lat. 116.02564 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. 4147 Lease No. Acreage 63534

Permittee, licensee, or lessee Hudson's Bay Oil and Gas Company Limited

Exploratory Licence No. 1096

Surface owned by Crown or

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

Petroleum and natural-gas rights owned by Crown

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

Casing Size O.D. (Inches)	Weight (Lb./Ft.)	Grade	New or Used	Estimated Depth	Sacks of Cement
1. 7"	20#	J-55	New	200 +	90 Sx.
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 [signature] 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 (over)

Dated 6th January 1969 [signature]

Oil Conservation Engineer

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

IAND 52-90-1 (3-67)

UNIQUE WELL IDENTIFIER - 300L056020116000

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.H.J. Thomas
Oil Conservation Engineer

SHELL HOLDING BY BOREHOLE 1-05

60° 24' 42.22" 122° 21' 32.22"

OIL & GAS OPERATIONS UNIT
Oil and Mineral Division
MAY 20 1986
OTTAWA, CANADA
Dept. of Indian Affairs & Northern Development

WELL HISTORY REPORT

SHELL H.B. GRUMBLER L-05

SHELL CANADA LIMITED

APRIL 10, 1969

WELL HISTORY REPORT

SHELL H.B. GRUMBLER L-05

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SECTION I - SUMMARY OF WELL DATA

(a) Well Name and Number

Shell H.B. Grumbler L-05

(b) Permittee

Hudson's Bay Oil and Gas Company Limited

(c) Operator

Shell Canada Limited
P. O. Box 186
Edmonton, Alberta.

(d) Location

Unit L, Section 05, Grid 60° 20' 116° 00'
Latitude: 60° 14' 41.26"
Longitude: 116° 01' 32.29"

(e) Permit Number

4147

(f) Drilling Contractor

Sedco Exploration Rig No. 94
Rotary

(g) Drilling Authority

Drilling Authority No. 342 issued January 8, 1969

(h) Classification

Wildcat

(i) Elevations

G.L. 932.5'
K.B. 942.5'

(j) Spudded

February 28, 1969 at 1:45 A.M.

(k) Completed Drilling

March 13, 1969

*Universal Well Location Reference - Lat. 60.24479° N., Long.116.02564° W.

Unique Well Identifier - 300L056020116000

(l) Total Depth and Plugged Back Total Depth

T.D. 2472' K.B.
P.B.T.D. Surface

(m) Well Status

Dry and Abandoned

(n) Rig Released

12:00 Noon March 18, 1969

(o) Hole Size

9 7/8"	0 - 118'
8 3/4"	118 - 350'
6 1/4"	350 -2472'

(p) Casing

7" 20# J-55 new casing
set at 345.02' K.B. with 130 sacks + 3% $CaCl_2$ + 1 sack Celloseal

SECTION II - GEOLOGICAL SUMMARY

(a) Formation Tops

Formation	E-log	Sample
Slave Point	1388	1360
Watt Mountain	1586	1585
Steen River	1600	1600
Muskeg	1708	1750
Methy	2012	1975
Bear Rock	2295	2290
Pre-Cambrian	2456	2461

(b) Cored Intervals

No Cores Cut

(c) Sample Description

See Appendix 'A'

SECTION III - ENGINEERING SUMMARY

(a) Drill Stem Tests

No.	Interval (Formation)	Type	Remarks
1	1600-1730	Dual Straddle	Misrun.
1A	1615-1715	Dual Straddle	Positive Test

PF 2 Min. = 334 PSI	FSI 90 Min. = 638 PSI	Recovered
ISI 60 Min. = 637 PSI	IHMP 754 PSI	1345' salt
FF 90 Min. = 637 PSI	FHMP 754 PSI	water

For detailed description, see Appendix 'B'.

(b) Casing Record

7" 20# J-55 new casing set at 345.02' K.B. and cemented with 130 sacks Construction cement + 3% $CaCl_2$ and 1 sack Celloseal. Plug down at 9:45 P.M., March 4, 1969.

(c) Bit Record

No.	Size	Type	Depth Out	Hrs. Run
1A	9-7/8	OSG2	23	5-1/2
2A	9-7/8	----	--	-
3A	9-7/8	----	54	8-1/2
4A	9-7/8	OSC1G	--	-
5A	9-7/8	----	104	5-3/4
6A	9-7/8	OSC-3	---	-
7A	8-3/4	OWV	213	19-3/4
8A	8-3/4	OWV	350	6-1/2
1	6-1/4	OSC3-J	1432	16-1/4
2	6-1/4	OSC1G	1648	14-1/4
3	6-1/4	OWV-J	1805	16-1/4
4	6-1/4	OWV-J	1971	17-3/4
5	6-1/4	OWV-J	2177	21-1/4
6	6-1/4	OWV-J	2324	18
7	6-1/4	OWV-J	2447	14
8	6-1/4	W7	2471	5-3/4

(d) Mud Report

Gel	272 sacks
CMC	4 sacks
Soda Ash	2 sacks
Sawdust	37 sacks
Lime	3-1/2 sacks
Cello-seal	1 sack
Caustic	24 sacks
Speresene	1200 pounds

(e) Deviation Record

Depth	Degrees	Depth	Degrees
98	1/2	1308	1/4
213	1/2	1540	1/2
299	3/4	1789	3/4
630	1/2	1999	1
832	1/2	2075	3/4
1072	1/2	2324	3/4

(f) Abandonment Plugs

Plug No.	Date	Interval	Cement and Additives
1	March 17, 1969	2472-1950	125 sacks cement
2	March 17, 1969	1710-1330	148 sacks cement + 2% CaCl2
3	March 18, 1969	400-Surface	87 sacks cement

Felt @ 1308'

Cut off casing 3' below ground level. Welded on plate & erected 4' riser and name plate.

(g) Lost Circulation Zones

Lost 100 barrels mud to formation 1685-1698.
Mixed 1 sack Cello-seal and 25 sacks sawdust.

(h) Blowouts

None

SECTION IV - LOGS

Type	Interval	Date
IES	2468-345	March 15, 1969
BHCSGR-C	2467-345	March 15, 1969
FDL-C	2467-345	March 15, 1969
CDM	2462-345	March 16, 1969
SRS	2467-345	March 15, 1969

SECTION V - ANALYSIS

(a) Core Analysis

None

(b) Water Analysis

See Appendix 'C' - Lab Report No. 72

(c) Gas Analysis

None

(d) Oil Analysis

None

SECTION VI - COMPLETION SUMMARY

(a) Tubing Record

None

(b) Perforation Record

None

(c) Cementation Record

Plug No.	Date	Interval	Cement and Additives	Remarks
1	3/17/69	2472-1950	125 sacks neat cement	
2	3/17/69	1710-1330	148 sacks cement + 2% $CaCl_2$.	Felt at 1308'
3	3/18/69	400-Surface	87 sacks cement	

(d) Acidization and Fracturing Record

None

(e) Back Pressure and Production Tests

None

A. M. McLachlin, Manager
Edmonton Division Production

APPENDIX 'A'

SWELL [illegible]'S BAY [illegible] 1-5 LATITUDE: 60° 14' 41.26"

K.B. 942.5' LONGITUDE: 116° 02' 32.28"

T.D. 2471'

0' -1000'		SAMPLES MISSING.
1000' -1010'	Shale	Shale.
1010' -1020'	Shale	Shale.
1020' -1030'	Shale	Shale.
1030' -1040'	Shale	Shale.
1040' -1050'	Shale	Shale.
1050' -1060'	Shale	Shale.
1060' -1070'	Shale	Shale.
1070' -1080'	Shale	Shale.
1080' -1090'	Shale	Shale.
1090' -1100'	Shale	Shale.
1100' -1110'	Shale	Shale.
1110' -1120'	Shale	Shale.
1120' -1130'	Shale	Shale.
1130' -1140'	Shale	Shale.
1140' -1150'	Shale	Shale.
1150' -1160'	Shale	Shale.
1160' -1170'	Shale	Shale.

1170' -1180'	Shale	Shale, with traces of limestone.
1180' -1190'	Shale	Shale, with minor limestone.
1190' -1200'	Limestone -Shale	Limestone and shale, with traces of pyrite.
1200' -1210'	Limestone	Limestone, with minor shale.
1210' -1220'	Limestone	Limestone, with minor shale.
1220' -1230'	Shale	Shale, with traces of limestone.
1230' -1240'	Shale	Shale, with traces of limestone.
1240' -1250'	Shale	Shale, with traces of limestone.
1250' -1260'	Shale	Shale, with traces of limestone.
1260' -1270'	Shale	Shale, with traces of limestone.
1270' -1280'	Shale	Shale, with traces of pyrite.
1280' -1290'	Shale	Shale, with traces of pyrite.
1290' -1300'	Shale	Shale, with traces of pyrite.
1300' -1310'	Shale	Shale, with traces of pyrite.
1310' -1320'	Shale	Shale, with traces of pyrite.
1320' -1330'	Shale	Shale, with traces of pyrite.
1330' -1340'	Shale	Shale, with traces of pyrite.
1340' -1350'	Shale	Shale, with traces of limestone.
1350' -1360'	Shale	Shale, with traces of limestone.
1360' -1370'	Limestone	Limestone, with argillaceous content.
1370' -1380'	Limestone	Limestone.
1380' -1390'	Limestone	Limestone.
1390' -1400'	Limestone	Limestone.

1400' -1410'	Limestone	Limestone.
1410' -1420'	Limestone	Limestone.
1420' -1430'	Limestone	Limestone.
1430' -1440'	Limestone	Limestone.
1440' -1450'	Limestone	Limestone.
1450' -1460'	Limestone	Limestone.
1460' -1470'	Limestone	Limestone.
1470' -1480'	Limestone	Limestone.
1480' -1490'	Limestone	Limestone.
1490' -1500'	Limestone	Limestone.
1500' -1510'	Limestone	Limestone.
1510' -1520'	Limestone	Limestone.
1520' -1530'	Limestone -Anhydrite	Limestone and anhydrite.
1530' -1540'	Anhydrite	Anhydrite and minor limestone.
1540' -1550'	Anhydrite	Anhydrite and minor limestone.
1550' -1560'	Shale	Shale, with minor limestone and anhydrite.
1560' -1570'	Shale	Shale, with minor limestone and anhydrite.
1570' -1580'	Shale	Shale, with minor limestone and anhydrite.
1580' -1590'	Shale	Shale, with minor limestone and anhydrite.
1590' -1600'	Shale	Shale, with minor limestone and anhydrite.

1600' -1610'	Dolomite	Dolomite.
1610' -1620'	Dolomite	Dolomite.
1620' -1630'	Dolomite	Dolomite.
1630' -1640'	Dolomite	Dolomite.
1640' -1650'	Dolomite	Dolomite.
1650' -1660'	Dolomite	Dolomite.
1660' -1670'	Dolomite	Dolomite.
1670' -1680'	Dolomite	Dolomite.
1680' -1690'	Dolomite	Dolomite.
1690' -1700'	Dolomite	Dolomite.
1700' -1710'	Dolomite	Dolomite, with traces of sandstones.
1710' -1720'	Dolomite	Dolomite, with traces of sandstones.
1720' -1730'	Dolomite	Dolomite, with traces of sandstones.
1730' -1740'	Dolomite	Dolomite, with traces of anhydrite.
1740' -1750'	Dolomite	Dolomite, with traces of anhydrite.
1750' -1760'	Anhydrite	Anhydrite, with traces of dolomite.
1760' -1770'	Anhydrite	Anhydrite, with traces of dolomite.
1770' -1780'	Anhydrite	Anhydrite, with traces of dolomite.
1780' -1790'	Dolomite	Dolomite, with traces of anhydrite.
1790' -1800'	Dolomite	Dolomite.
1800' -1810'	Dolomite	Dolomite.
1810' -1820'	Dolomite	Dolomite.
1820' -1830'	Dolomite	Dolomite.

1830' -1840'	Dolomite	Dolomite, with traces of anhydrite.
1840' -1850'	Dolomite	Dolomite, with traces of anhydrite.
1850' -1860'	Dolomite	Dolomite, with traces of anhydrite.
1860' -1870'	Dolomite	Dolomite, with traces of anhydrite.
1870' -1880'	Dolomite	Dolomite, with traces of anhydrite.
1880' -1890'	Dolomite	Dolomite, with traces of anhydrite.
1890' -1900'	Dolomite	Dolomite, with traces of anhydrite.
1900' -1910'	Dolomite	Dolomite, with traces of argillaceous cavings.
1910' -1920'	Dolomite	Dolomite, with traces of argillaceous cavings.
1920' -1930'	Dolomite	Dolomite, with traces of argillaceous cavings.
1930' -1940'	Dolomite	Dolomite, with traces of argillaceous cavings.
1940' -1950'	Dolomite	Dolomite, with traces of argillaceous cavings.
1950' -1960'	Dolomite	Dolomite, with traces of argillaceous cavings.
1960' -1970'	Dolomite	Dolomite.
1970' -1980'	Dolomite	Dolomite, with anhydrite band.
1980' -1990'	Dolomite	Dolomite.
1990' -2000'	Dolomite	Dolomite.
2000' -2010'	Dolomite	Dolomite, with minor anhydrite.
2010' -2020'	Dolomite	Dolomite, with minor anhydrite.
2020' -2030'	Dolomite	Dolomite, with minor anhydrite.

2030' -2040'	Dolomite	Dolomite, with minor anhydrite.
2040' -2050'	Dolomite	Dolomite.
2050' -2060'	Dolomite	Dolomite.
2060' -2070'	Dolomite	Dolomite.
2070' -2080'	Dolomite	Dolomite.
2080' -2090'	Dolomite	Dolomite.
2090' -2100'	Dolomite	Dolomite.
2100' -2110'	Dolomite	Dolomite.
2110' -2120'	Dolomite	Dolomite.
2120' -2130'	Dolomite	Dolomite.
2130' -2140'	Dolomite	Dolomite.
2140' -2150'	Dolomite	Dolomite.
2150' -2160'	Dolomite	Dolomite.
2160' -2170'	Dolomite	Dolomite.
2170' -2180'	Dolomite	Dolomite and shale.
2180' -2190'	Dolomite	Dolomite and shale.
2190' -2200'	Dolomite -Shale	Dolomite and Shale.
2200' -2210'	Dolomite	Dolomite, with minor shale.
2210' -2220'	Dolomite	Dolomite, with minor shale.
2220' -2230'	Dolomite	Dolomite, with minor shale.
2230' -2240'	Dolomite	Dolomite, with minor shale.
2240' -2250'	Dolomite	Dolomite, with minor shale and traces of anhydrite.

2250' -2260'	Dolomite -Shale	Dolomite and Shale; with traces of anhydrite.
2260' -2270'	Anhydrite	Anhydrite, with minor shale and dolomite.
2270' -2280'	Anhydrite	Anhydrite, with minor shale and dolomite.
2280' -2290'	Anhydrite	Anhydrite, with minor shale and dolomite.
2290' -2300'	Anhydrite	Anhydrite, with minor shale and dolomite.
2300' -2310'	Anhydrite -Dolomite	Anhydrite and Dolomite.
2310' -2320'	Anhydrite	Anhydrite, with minor shale.
2320' -2330'	Anhydrite	Anhydrite and shale, with traces of dolomite.
2330' -2340'	Anhydrite -Shale	Anhydrite and shale, with traces of dolomite.
2340' -2350'	Anhydrite -Shale	Anhydrite and shale, with traces of dolomite.
2350' -2360'	Anhydrite	Anhydrite, with minor shale.
2360' -2370'	Anhydrite	Anhydrite, with minor shale.
2370' -2380'	Anhydrite	Anhydrite, with minor shale.
2380' -2390'	Anhydrite	Anhydrite, with minor shale and traces of dolomite.
2390' -2400'	Anhydrite	Anhydrite, with traces of shale and dolomite.
2400' -2410'	Anhydrite	Anhydrite, with traces of shale.
2410' -2420'	Anhydrite	Anhydrite, with traces of shale.

2430' -2440'	Anhydrite	Anhydrite, with minor shale and traces of dolomite.
2440' -2450'	Anhydrite	Anhydrite, with minor shale and traces of dolomite.
2450' -2460'	Anhydrite	Anhydrite, with minor shale and traces of dolomite.
2460' -2470'	Anhydrite	Anhydrite, with minor shale and red, micaceous quartz.
2470' -2471'	Anhydrite -Quartz	Anhydrite and pink, white, fresh, micaceous quartz; and minor shale.

APPENDIX 'B'

Shell HB Grumbler L-5

JOHNSTON TESTERS

TEST DATA

Formation		Zone Thickness			Ft
Interval	1600 To	1730	T D	2471	Ft
Type of Test	OPEN HOLE, STRADDLE, BYPASS.				
Time Started in Hole	0530	Hrs	Tool Opened		Hrs
First Flow	0	Min	Initial Shut-In	0	Min
Second Flow	0	Min	Second Shut In		Min
Third Flow		Min	Final Shut In	0	Min
Pulled Loose At	0800	Hrs	Out of Hole	1200	Hrs
Wt. Set on Packers	20,000	#	Pulled Loose Wt	30,000	#

Description of Blow During Test

TOOL SEQUENCE

Tool	Length	O.D.
P. O. SUB.	.50	
D. P. SUB.	.50	
MFE TOOL	10.00	
BYPASS TOOL	3.00	
JARS	6.95	
RECORDER	4.40	
SAFETY JOINT	1.75	
T. C. & PACKER	4.50	
T. C. & PACKER	3.50	
TOTAL	35.10	
STUB	.50	
PERF.	5.00	
R. SUB.	.50	
RECORDER	4.40	
RECORDER	4.40	
DRILL COLLAR	113.19	
T. C. & STUB.	2.00	
TOTAL INTERVAL	129.99	
PACKER	2.50	
PERF.	23.00	
DRILL PIPE	713.46	
B. N. & PERF.	2.00	
TOTAL BELOW INTV.	740.96	
TOTAL LENGTH	906.05	

FLUID RECOVERY

Was Test Reverse Circulated Yes ☐ No ☐

Total Fluid Recovered Ft

Description of Fluid Recovered

GAS BLOW MEASUREMENT

Measured With I.D. Riser

Type of Instrument

Time	Size Choke	Reading psi inches	M Cubic Feet/Day

Elevation NOT REPORTED.

Bottom Hole Choke Size 1/2"

Fluid Cushion Type WATER Amt. 100'

REMARKS MISRUN, SEAT FAILURE.

MUD AND HOLE DATA

Mud Type GEL W.L. 9.6

Filter Cake 2/32 Visc. 53 Wt. 9.1

Time Taken

Contractor SEDCO DRLG. Rig No. 94

Drill Pipe Size 3 1/2 IF

Drill Collar Size 2 ID Length 353'

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 01802 Date MARCH 15, 1969 Test No. 1 J.T. No. 1

Company SHELL CANADA LIMITED Address Box 186

Well Name SHELL HB GRUMBLER #L-05 EDMONTON, ALBERTA

Number 60 14'41.26 Field GRUMBLER Province N.W.T.

116 01'32.29 Co. Rep. R. MILLER

and Interval 1600 - 1730 DST#1 Technician L. STEINBACK

Distribution of Reports

5 - EDMONTON.

JOHNSTON TESTERS

PRESSURE DATA

INSTRUMENT No		AK1-2110	AK1-2085	AK1-2084	
CAPACITY (psig)		4000	4400	4300	
INSTRUMENT DEPTH		1588	1605	1610	
INSTRUMENT OPENING		INSIDE	OUTSIDE	OUTSIDE	
PRESSURE GRADIENT (psi/ft)					
WELL TEMP °F					
INITIAL HYDROSTATIC	A	771#	782#	787#	
FIRST FLOW	B				
INITIAL SHUT IN	C				
SECOND FLOW	D				
		MISRUN, SEAT FAILURE.			
SECOND SHUT IN	E				
THIRD FLOW	F				
FINAL SHUT IN	G				
FINAL HYDROSTATIC	H	771#	782#	787#	

FIELD REPORT No D 01802

TIME DATA

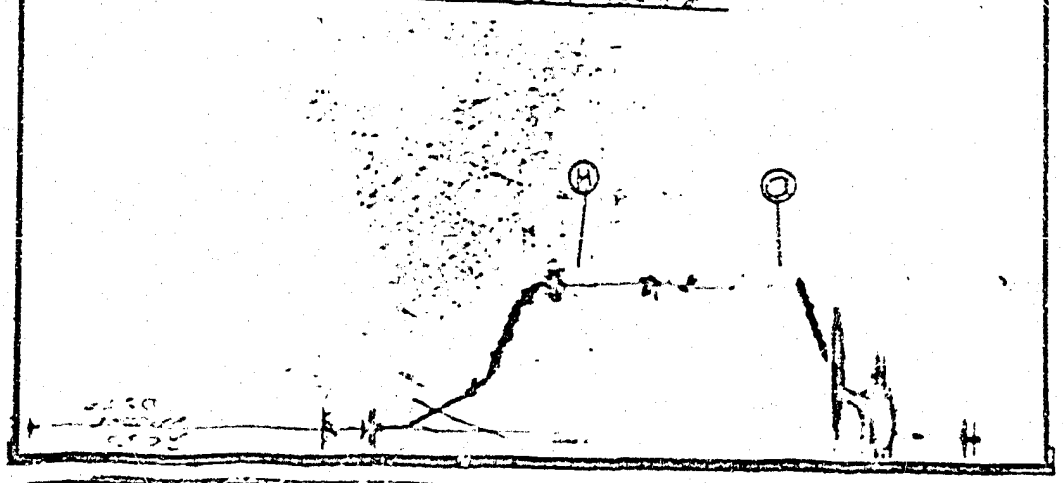
	TIME GIVEN	TIME COMPUTED
FIRST FLOW	MINS	MINS
INITIAL SHUT IN	MINS	MINS
SECOND FLOW	MINS	MINS
SECOND SHUT IN	MINS	MINS
THIRD FLOW	MINS	MINS
FINAL SHUT IN	MINS	MINS
CLOCK TRAVEL		IN/MIN

REMARKS:

PRESSURE INCREMENTS

POINT MINUTES	PRESSURE	$\frac{T + \Delta T}{\Delta T}$	POINT MINUTES	PRESSURE	$\frac{T + \Delta T}{\Delta T}$	POINT MINUTES	PRESSURE	$\frac{T - \Delta T}{\Delta T}$

Do1802 Chi-2082



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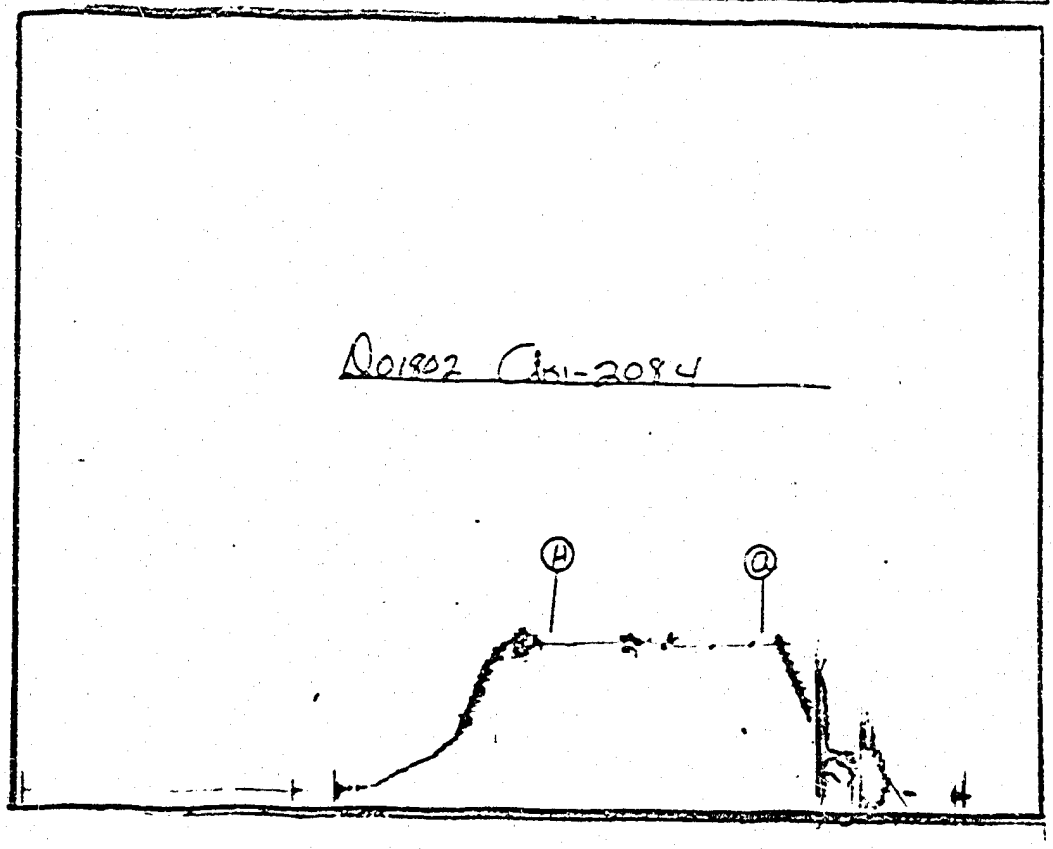
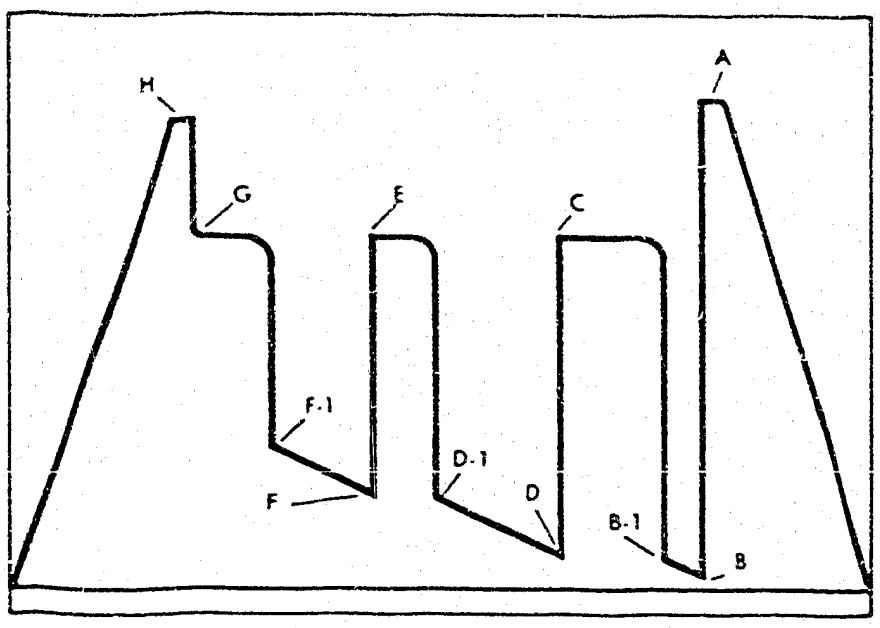


JTL-1 R E-13A

JOHNSTON TESTERS

GUIDE TO IDENTIFICATION OF DRILL STEM TEST PRESSURE CHARTS



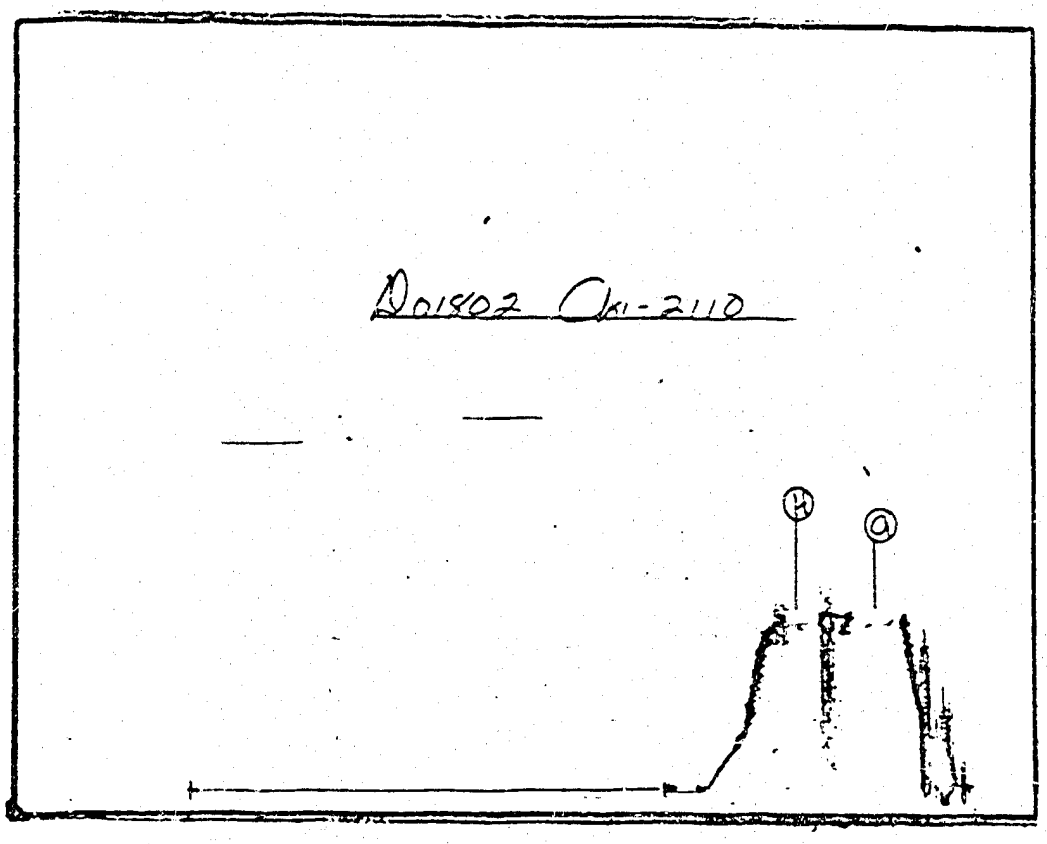
A. Initial Hyd. Mud
B. First Flow
C. Initial Shut-In
D. Second Flow
E. Second Shut-In
F. Third Flow
G. Final Shut-In
H. Final Hyd. Mud

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.

JOHNSTON TESTERS

FIELD REPORT NO.	RECORDER NO.	CAPACITY	REPORTS REQUESTED
D 01802	AK1-2110	4000	5



Shell HB Grumbler L-5

Johnston Testers

TEST DATA

Formation		Zone Thickness			Ft
Interval	1615 To	1715	TD	2471	Ft
Type of Test	OPEN HOLE, STRADDLE, BYPASS.				
Time Started in Hole	0230	Hrs.	Tool Opened	0443	Hrs.
First Flow	2	Min	Initial Shut-In	60	Min
Second Flow	90	Min	Second Shut In		Min
Third Flow		Min	Final Shut In	90	Min
Pulled Loose At	0845	Hrs	Out of Hole	1200	Hrs
Wt. Set on Packers	30,000	#	Pulled Loose Wt	38,000	#

Description of Blow During Test

GOOD BLOW.
DEAD IN 20 MINS.

FLUID RECOVERY

Was Test Reverse Circulated Yes ☐ No X

Total Fluid Recovered 1345 Ft

Description of Fluid Recovered

1345' SALT WATER.

GAS BLOW MEASUREMENT

Measured With I.D. Riser

Type of Instrument

Time	Size Choke	Reading pr. inches	M Cubic Feet, Day

REMARKS TEST SATISFACTORY.

RESISTIVITY			CHLORIDE CONTENT	
Recovery Water	@	°F.	ppm.	
Mud Pit sample filtrate	@	°F.	ppm.	

TOOL SEQUENCE

Tool	Length	O.D.
P. O. SUB.	.50	
D. P. SUB.	.50	
MFE TOOL	10.00	
BYPASS TOOL	3.00	
JARS	6.95	
RECORDER	4.40	
H. SUB.	.50	
SAFETY JOINT	1.75	
S. S. & PACKER	8.00	
T. C. & PACKER	5.50	
TOTAL	41.10	
STUB.	1.00	
PERF.	5.00	
R. SUB.	.50	
RECORDER	4.40	
RECORDER	4.40	
SUB.	.50	
DRILL COLLAR	81.55	
SUB.	.50	
T. C. & STUB.	3.00	
TOTAL INTERVAL	100.85	
PACKER	3.50	
T. C. & PACKER	6.50	
SUB.	.50	
DRILL PIPE	743.00	
SUB.	.50	
B. N. & PERF.	1.50	
TOTAL BELOW INTV.	755.50	
TOTAL LENGTH	897.45	

Elevation NOT REPORTED.

Bottom Hole Choke Size 1/2"

Fluid Cushion Type WATER Amt 100'

MUD AND HOLE DATA

Mud Type W.L. 8.6

Filter Cake 2/32 Visc. 38 Wt. 9.4

Time Taken

Contractor SEDCO DRLG Rig No. 94

Drill Pipe Size 3 1/2 IF

Drill Collar Size 2 ID Length 334'

Main Hole Size 6 1/4"

Rat Hole Size

District HIGH LEVEL Ticket No. D 01803 Date MARCH 17, 1969 Test No 1A J.T. No. 1A

Company SHELL CANADA LIMITED Address Box 186

Well Name SHELL HB GRUMBLER #L-05 EDMONTON, ALBERTA

Number 60 14'41.26 Field GRUMBLER Province N.W.T.

116 01'32.29 Co. Rep. R. MILLER

and Interval 1615 - 1715 DST#1A Technician L. STEINBACK

Distribution of Reports

5 - EDMONTON.

637 psi @ 1621 / 1676 FB 975

JOHNSTON TESTERS

PRESSURE DATA

INSTRUMENT No.		AK1-2110	AK1-2094	AK1-2095	
CAPACITY PSIA		4000	4300	4400	
INSTRUMENT DEPTH		1595	1621	1625	
INSTRUMENT OPENING		INSIDE	OUTSIDE	OUTSIDE	
PRESSURE GRADIENT PSI/FT					
WELL TEMP °F		82°	82°	82°	
INITIAL HYDROSTATIC	A	740#	754#	759#	
FIRST FLOW	B	52#	334#	338#	
B-1		52#	334#	338#	
INITIAL SHUT IN	C	625#	637#	640#	
SECOND FLOW	D	341#	467#	468#	
D-1		625#	637#	639#	
SECOND SHUT IN	E				
THIRD FLOW	F				
FINAL SHUT IN	G	626#	638#	641#	
FINAL HYDROSTATIC	H	740#	754#	759#	

FIELD REPORT No. D 01803

TIME DATA

	TIME GIVEN	TIME COMPUTED
	MINS	MINS
	MINS	MINS
	MINS	MINS
	MINS	MINS
	MINS	MINS
	MINS	MINS
	MINS	MINS
CLOCK TRAVEL		IN/MIN

REMARKS:

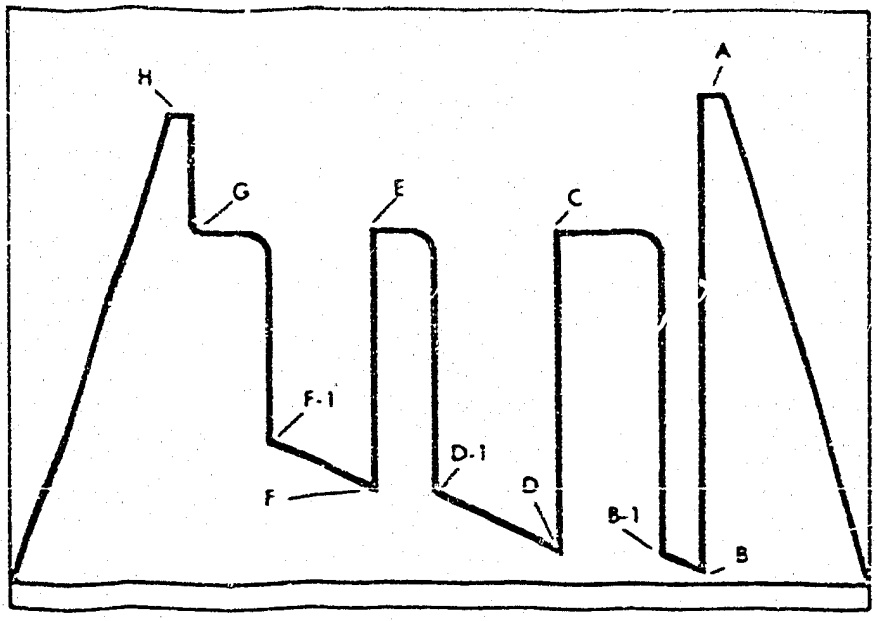
PRESSURE INCREMENTS

POINT MINUTES	PRESSURE	$\frac{T + \Delta T}{\Delta T}$	POINT MINUTES	PRESSURE	$\frac{T + \Delta T}{\Delta T}$	POINT MINUTES	PRESSURE	$\frac{T + \Delta T}{\Delta T}$

JTL-1 & E-12A

JOHNSTON TESTERS

GUIDE TO IDENTIFICATION OF DRILL STEM TEST PRESSURE CHARTS



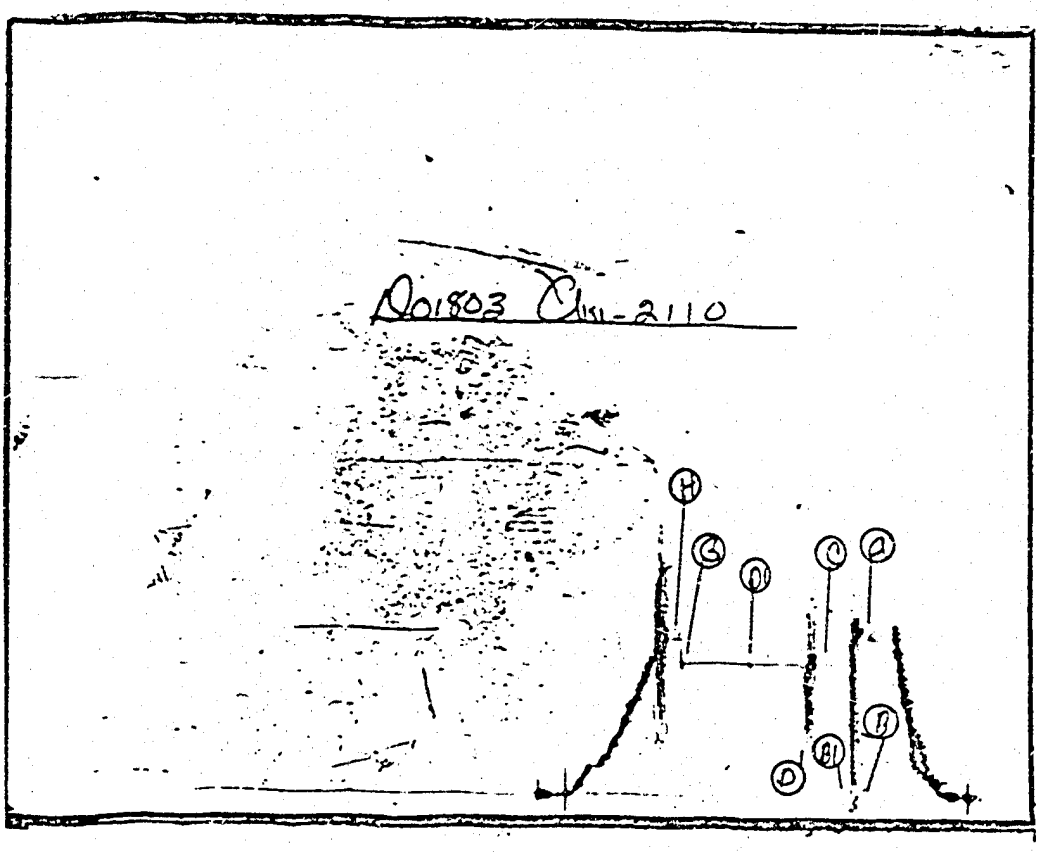
A. Initial Hyd. Mud
B. First Flow
C. Initial Shut-In
D. Second Flow
E. Second Shut-In
F. Third Flow
G. Final Shut-In
H. Final Hyd. Mud

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.

JOHNSTON TESTERS

FIELD REPORT NO.	RECORDER NO.	CAPACITY	REPORTS REQUESTED
D 01803	AK1-2110	4000	5



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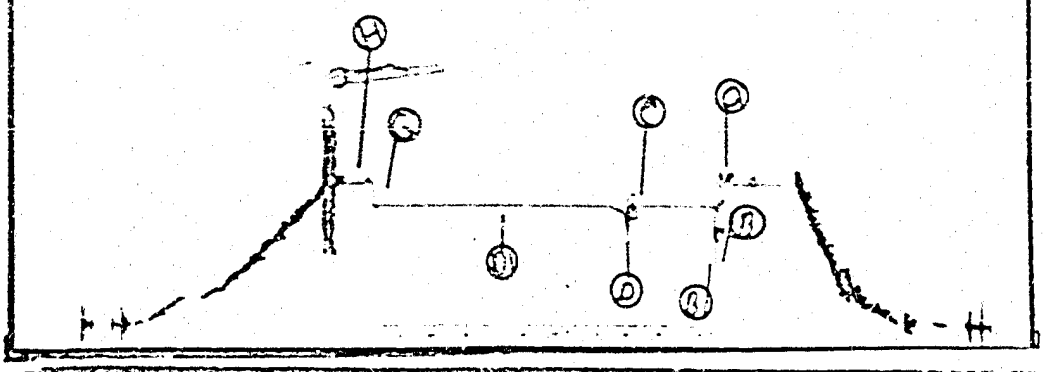

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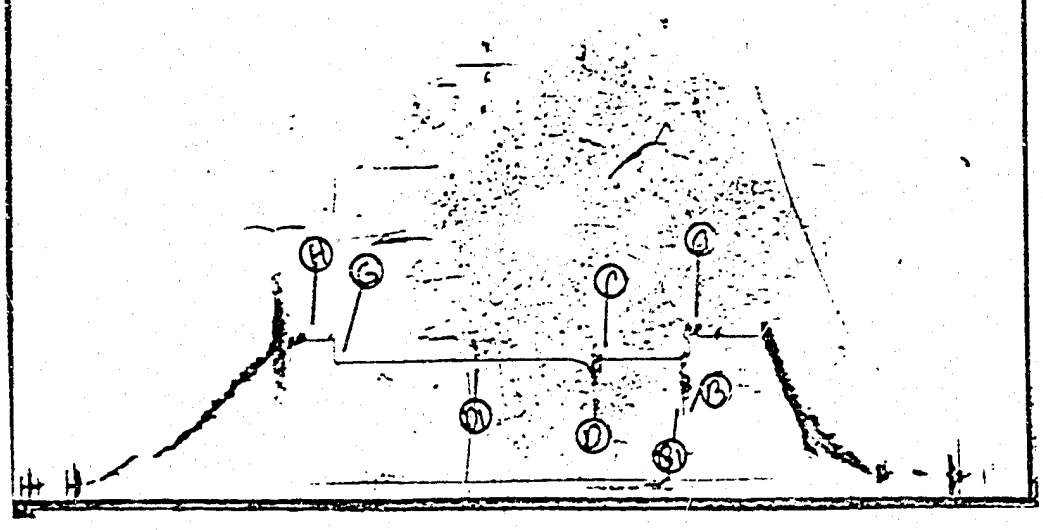


APPENDIX 'C'

SHELL CANADA LIMITED

PRODUCTION LABORATORY ANALYSIS REPORT

CALGARY, ALBERTA

Laboratory Number 72
WATER

Sample Received MARCH 26, 1969
Sample Analyzed MARCH 27, 1969
Results Reported MARCH 28, 1969

Well SHELL-H.B. GRUMBLER L-5, N.W.T LAT. 60° 14' 41.26" LONG. 116 01' 32.29"
Lsd ____ Sec ____ Twp ____ Rge ____ W ____ Formation DEVONIAN STEEN RIVER
Method of production DST #1A 1615-1715'
DST Recovery 60' WATER CUSHION, 340' WATERY MUD, 945' SALT WATER
Sample obtained from TOP OF TOOL FIELD #6 CODE No. 4203

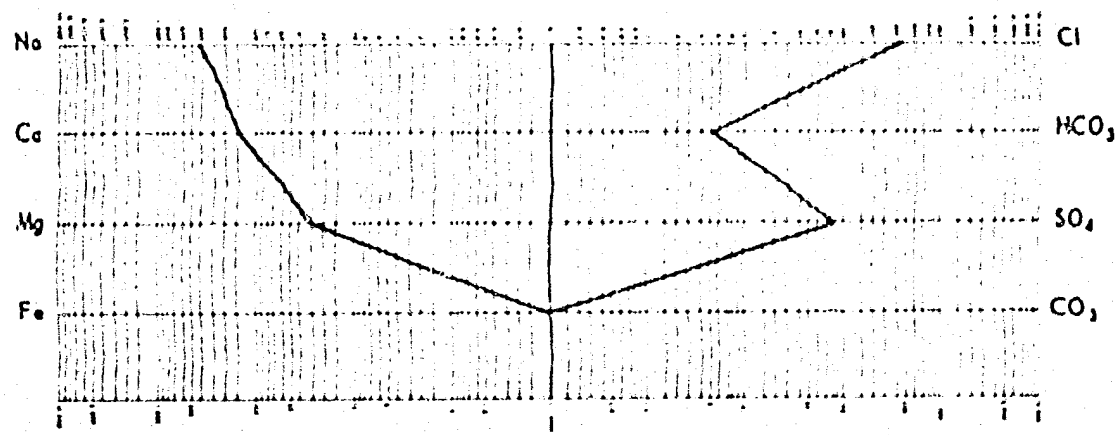
Well K.B. 942' G.L. 932'
T.D. 2471' P.B.T.D. SURFACE
Perfs. or O.H.
Sampled by R. MILLER
Date MAR. 17, 1969 Time

Specific Gravity at 60°F 1.0295 pH 7.1 Resistivity 0.280 ohm-m at 60°F H_2S TRACE? Calculated Total Solids 30,043 Mg/L

	Calc. Na + K	Ca	Mg	Fe				CO_3	HCO_3	SO_4	Cl	
Mg./L	9244	1462	373	TRACE				0	317	3456	15,191	
MEQ./L	401.95	72.95	30.68					0	5.20	71.99	428.39	
MEQ. %	39.76	7.21	3.03					0	0.51	7.12	42.37	

Remarks: FILTRATE CLEAR AMBER.
SO4 PROBABLY HIGH.

Milliequivalents per Litre



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

Chemist N.L. Johnson

00303

TECHNICAL REPORT

JOHNSTON

JOHNSTON TESTERS

TEST DATA

Formation		Total Depth	
Interval	1615	1715	2471
Type of Test	OPEN HOLE, STRADDLE, BYPASS.		
Time Started	0230	Time Closed	0445
Initial Flow	2	Initial Shut-in	60
Second Flow	90	Second Shut-in	
Third Flow		Final Shut-in	90
Hydrostatic Pressure	0445	Bottom Hole Temp.	1200
Wt. Set Packer	30,000	Pulled Wt.	38,000

Gas Measurement Data

WEAK BLOW.
DEAD IN 20 MINS.

FLUID RECOVERY

Amount Fluid Recovered Converted To X

Total Fluid Recovered 1345

Description of Fluid Recovered

1345' SALT WATER.

GAS BLOW MEASUREMENT

Measured With TD Pipe

Type of Instrument

Time	Size Choke	Pressure	M Cubic Feet Day

REMARKS: TEST SATISFACTORY.

RESISTIVITY			CHLORIDE CONTENT
Recovery Water	@	°F.	ppm.
Mud Pit sample filtrate	@	°F	ppm.

TOOL SEQUENCE

	Length
P. O. Sub.	.50
D. P. Sub.	.50
MFE Tool	10.00
Bypass Tool	5.00
Jars	6.95
Recorder	4.40
H. Sub.	.50
Safety Joint	1.75
S. S. & Packer	8.00
T. C. & Packer	5.50
Total	41.10
Stub.	1.00
Perf.	5.00
R. Sub.	.50
Recorder	4.40
Recorder	4.40
Sub.	.50
Drill Collar	81.55
Sub.	.50
T. C. & Stub.	3.00
Total Interval	100.85
Packer	3.50
T. C. & Packer	5.50
Sub.	.50
Drill Pipe	743.00
Sub.	.50
B. N. & Perf.	1.50
Total Below Intv.	755.50
Total Length	897.45

Elevation: NOT REPORTED.

Bottom Hole Choke Size: 1/2"

Fluid Cushion Type: WATER Amt: 100'

MUD AND HOLE DATA

Mud Type: W.L. 8.6

Filter Cake 2/32 Visc 38 Wt 9.4

Time Taken

Contractor: SEDCO DRLG Rig No. 94

Drill Pipe Size: 3 1/2 IF

Drill Collar Size: 2 ID Length 334'

Main Hole Size: 6 1/4"

Rat Hole Size

District: HIGH LEVEL Ticket No. D 01803 Date: MARCH 17, 1969 Test No. 1A J.T. No. 1A

Company: SHELL CANADA LIMITED Address: Box 186

Well Name: SHELL HB GRUMBLER #L-05 EDMONTON, ALBERTA

Number: 60 14'41.26 Field: GRUMBLER Province: N.W.T.

116 01'32.29 Co. Rep. R. MILLER

and Interval: 1615 - 1715 DST#1A Technician: L. STEINBACK

Distribution of Reports

5 - EDMONTON.

JOHNSTON TESTERS

PRESSURE DATA

INSTRUMENT No.		AK1-2110	AK1-2094	AK1-2095	
CAPACITY		4300	4300	4400	FIELD REPORT No. 0 01903
INSTRUMENT DEPTH		1595	1621	1675	
INSTRUMENT OPENING		INSIDE	OUTSIDE	OUTSIDE	
PRESSURE GRADIENT (p.s.i.)					
WELL TEMP. °F		92°	92°	92°	TIME DATA
					TIME GIVEN / TIME COMPUTED
INITIAL HYDROSTATIC	A	740#	754#	758#	
FIRST FLOW	B	52#	334#	338#	MINS / MINS
B-1		52#	334#	338#	
INITIAL SHUT-IN	C	625#	637#	640#	MINS / MINS
SECOND FLOW	D	341#	467#	468#	MINS / MINS
D-1		625#	637#	638#	
SECOND SHUT-IN	E				MINS / MINS
THIRD FLOW	F				MINS / MINS
FINAL SHUT-IN	G	626#	638#	641#	MINS / MINS
FINAL HYDROSTATIC	H	740#	754#	758#	CLOCK TRAVEL IN/MIN

REMARKS

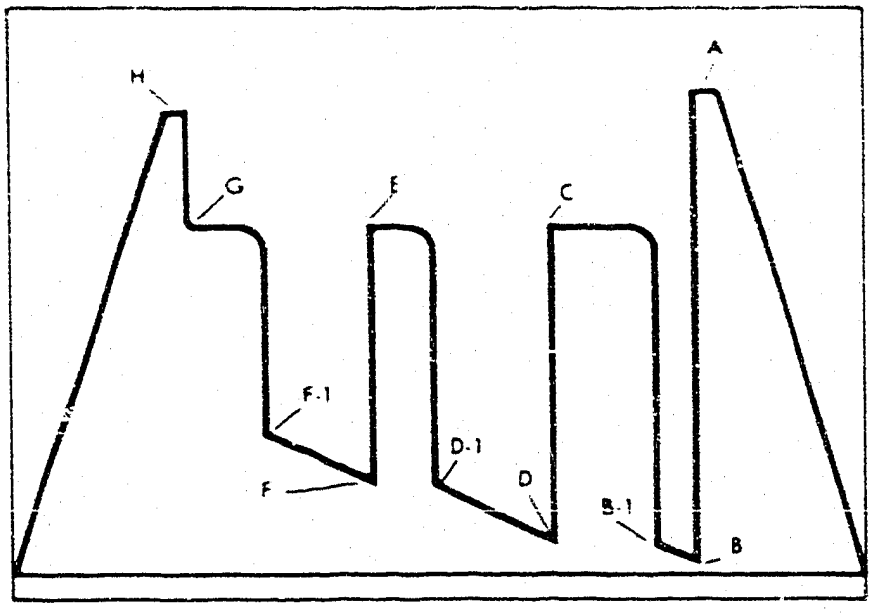
PRESSURE INCREMENTS

POINT MINUTES	PRESSURE	$\frac{T + \Delta t}{\Delta t}$	POINT MINUTES	PRESSURE	$\frac{T + \Delta t}{\Delta t}$	POINT MINUTES	PRESSURE	$\frac{T + \Delta t}{\Delta T}$

JTL-1 & E-13A

JOHNSTON TESTERS

GUIDE TO IDENTIFICATION OF DRILL STEM TEST PRESSURE CHARTS



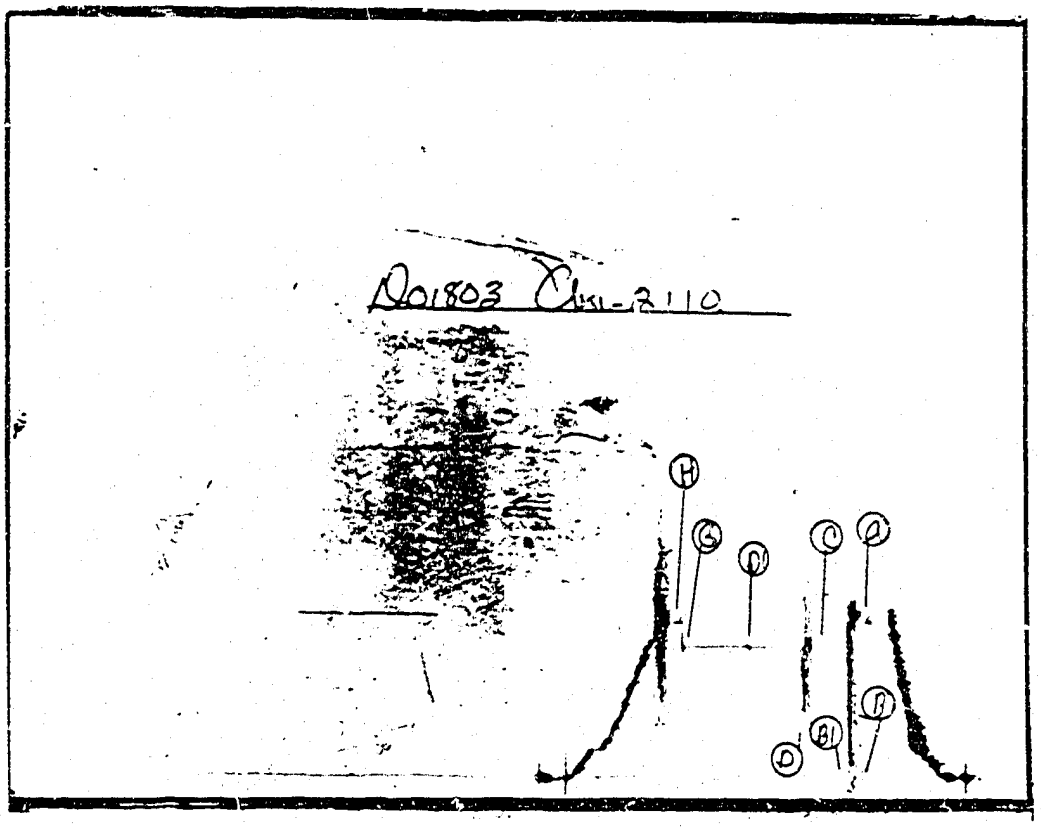
A. Initial Hyd. Mud
B. First Flow
C. Initial Shut-In
D. Second Flow
E. Second Shut-In
F. Third Flow
G. Final Shut-In
H. Final Hyd. Mud

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

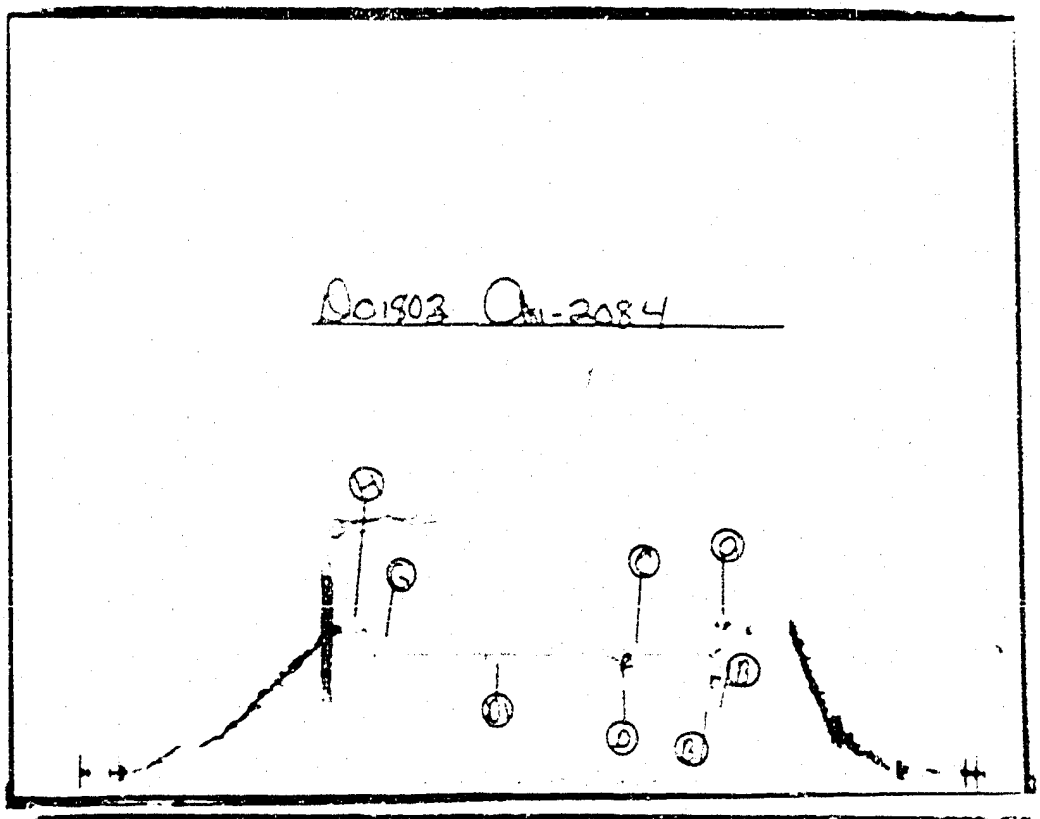
A-1, A-2, A-3, etc. Initial Hyd. Pressures
B, B-1, Initial Flow Pressures
C, Initial Shut-In
D-1, D-2, D-3, etc. Second Flow Pressures
E, Second Shut-In
F, F-1, F-2 Third Flow Pressures
G, Final Shut-In
H, Final Hyd. Pressures
Z — Special pressure points such as pumping pressures recorded for formation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

JOHNSTON TESTERS

FIELD REPORT NO.	RECORDER NO.	CAPACITY	REPORTS REQUESTED
D 01803	AK1-2110	4000	5



D01803 OKI-2084



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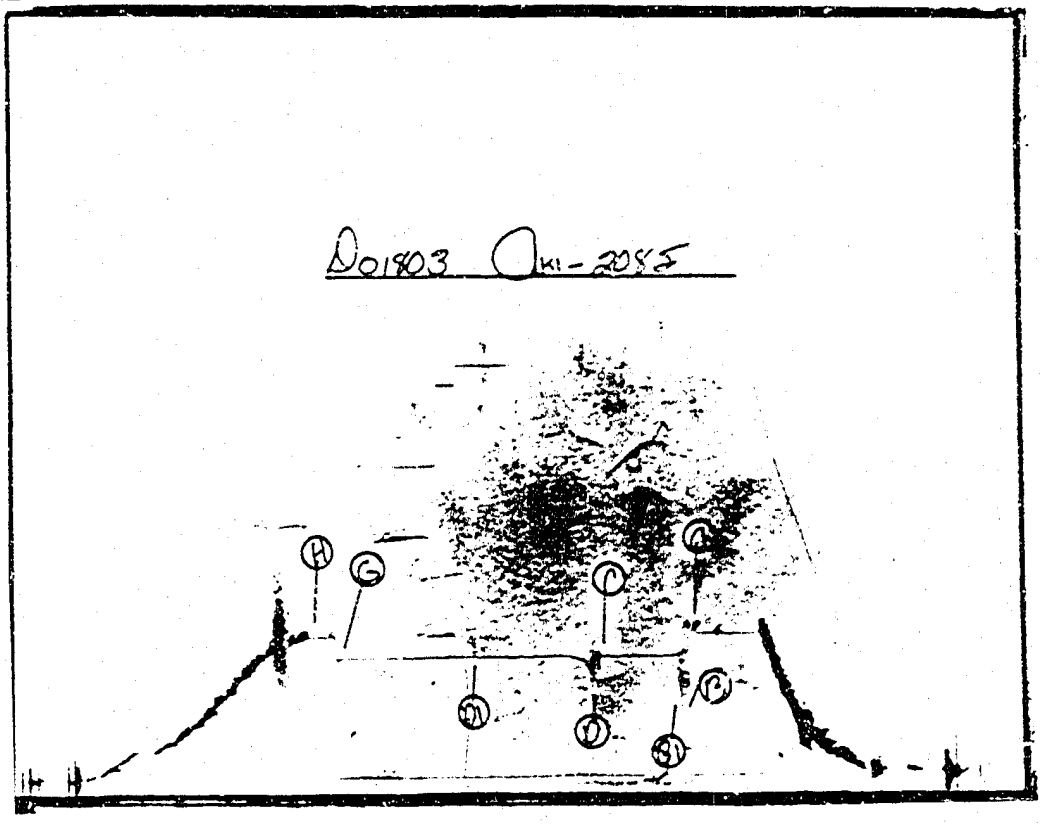


TECHNICAL REPORT

JOHNSTON

SPECIAL DATA ANALYSIS

JOHNSTON TESTERS

TEST DATA

Formation	Line Tension	
Interval 1600 To 1730 To 2471 Ft		
Type of Test OPEN HOLE, STRADDLE, BYPASS.		
Time Started in Hole 0530 Hrs	Time Opened Hrs	
First Flow 0 Min	Initial Shut In 0 Min	
Second Flow 0 Min	Second Shut In Min	
Third Flow Min	Final Shut In 0 Min	
Pulled Loose at 0800 Hrs	Out of Hole 1200 Hrs	
Wt. Set on Packer 20,000 #	Pulled Loose Wt. 30,000 #	
Description of Blow During Test		

TOOL SEQUENCE

	Length	OD
P. O. SUB.	.50	
D. P. SUB.	.50	
MFE TOOL	10.00	
BYPASS TOOL	3.00	
JARS	6.95	
RECORDER	4.40	
SAFETY JOINT	1.75	
T. C. & PACKER	4.50	
T. C. & PACKER	5.50	
TOTAL	35.10	
STUB.	.50	
PERF.	5.00	
R. SUB.	.50	
RECORDER	4.40	
RECORDER	4.40	
DRILL COLLAR	113.19	
T. C. & STUB.	2.00	
TOTAL INTERVAL	129.99	
PACKER	2.50	
PERF.	23.00	
DRILL PIPE	713.46	
B. N. & PERF.	2.00	
TOTAL BELOW INTV.	740.96	

FLUID RECOVERY

Amt. Test Reverse Circulated Bbls

Total Fluid Recovered Ft

Description of Fluid Recovered

GAS BLOW MEASUREMENT

Measured With ID Orifice

Type of Instrument

Time	Size Choke	Reading or Orifice	M Cubic Feet Day

TOTAL LENGTH 906.05

Elevation NOT REPORTED.

Bottom Hole Choke Size 1/2"

Fluid Cushion Type WATER Amt 100'

REMARKS MISRUN, SEAT FAILURE.

MUD AND HOLE DATA

Mud Type GEL W.L. 9.6

Filter Cake 2/32 Visc 53 Wt 9.1

Time Taken

Contractor SEDCO DRLG. Rig No 94

Drill Pipe Size 3 1/2 IF

Drill Collar Size 2 ID Length 353'

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 01802 Date MARCH 15, 1969 Test No 1 J.T. No 1

Company SHELL CANADA LIMITED Address BOX 186

Well Name SHELL HB GRUMBLER #L-05 EDMONTON, ALBERTA

Number 60 14'41.26 Field GRUMBLER Province N.W.T.

116 01'32.29 Co. Rep R. MILLER

and Interval 1600 - 1730 DST#1 Technician L. STEINBACK

Distribution of Reports

5 - EDMONTON.

JOHNSTON TESTERS

PRESSURE DATA

INSTRUMENT No.		AK1-2110	AK1-2085	AK1-2084	
[illegible]		4000	4400	4300	
INSTRUMENT DEPTH		1588	1605	1610	
INSTRUMENT OPENING		INSIDE	OUTSIDE	OUTSIDE	
PRESSURE GRADIENT (psi/ft)					
WELL TEMP °F					
INITIAL HYDROSTATIC	A	771#	782#	787#	
FIRST FLOW	B				
INITIAL SHUT-IN	C				
SECOND FLOW	D				
		MISRUN, SEAT FAILURE.			
SECOND SHUT-IN	E				
THIRD FLOW	F				
FINAL SHUT-IN	G				
FINAL HYDROSTATIC	H	771#	782#	787#	

FIELD REPORT No. 0 01402

TIME DATA

	TIME GIVEN	TIME COMPUTED
	MINS	MINS
	MINS	MINS
	MINS	MINS
	MINS	MINS
	MINS	MINS
	MINS	MINS
CLOCK TRAVEL		IN/MIN

REMARKS

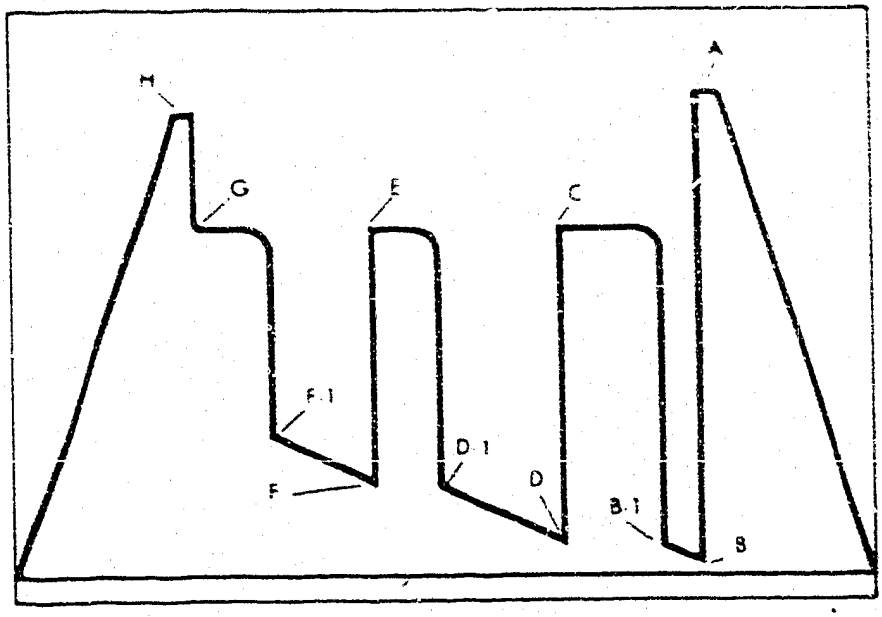
PRESSURE INCREMENTS

POINT MINUTES	PRESSURE	$\frac{T \cdot \Delta T}{\Delta T}$	POINT MINUTES	PRESSURE	$\frac{T \cdot \Delta T}{\Delta T}$	POINT MINUTES	PRESSURE	$\frac{T \cdot \Delta T}{\Delta T}$

JTL-1 & Z 13A

JOHNSTON TESTERS

GUIDE TO IDENTIFICATION OF DRILL STEM TEST PRESSURE CHARTS



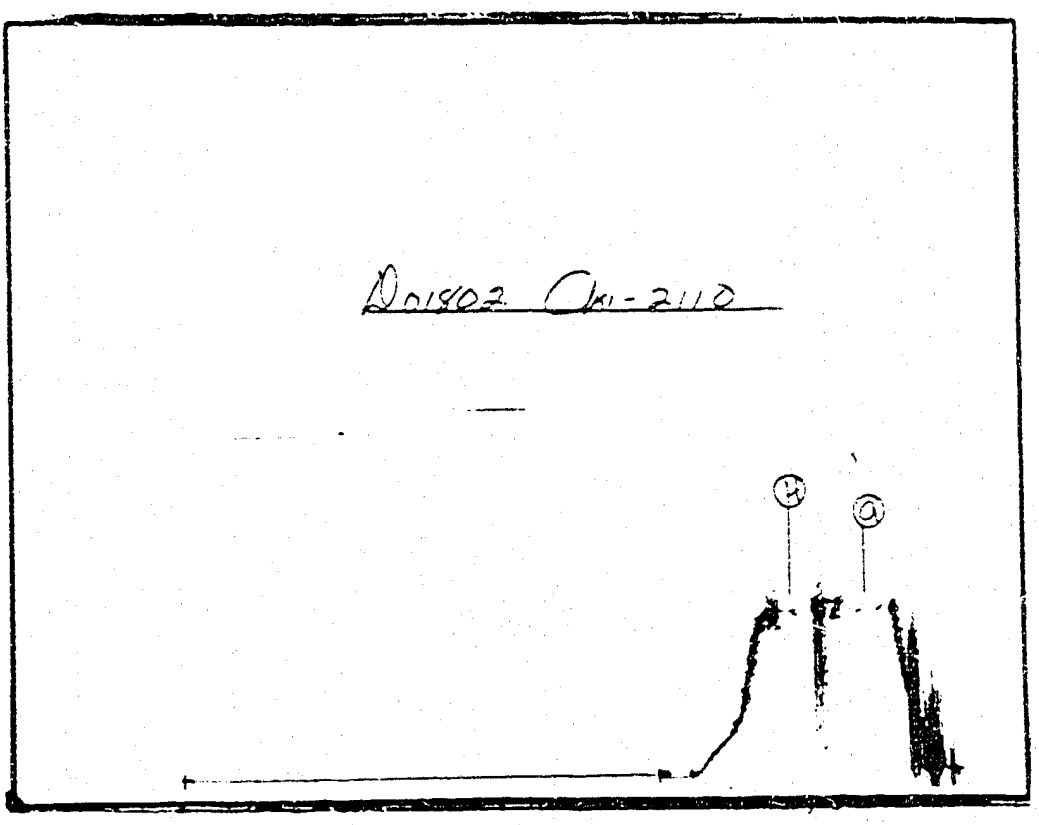
A. Initial Hyd. Mud
B. First Flow
C. Initial Shut-In
D. Second Flow
E. Second Shut-In
F. Third Flow
G. Final Shut-In
H. Final Hyd. Mud

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

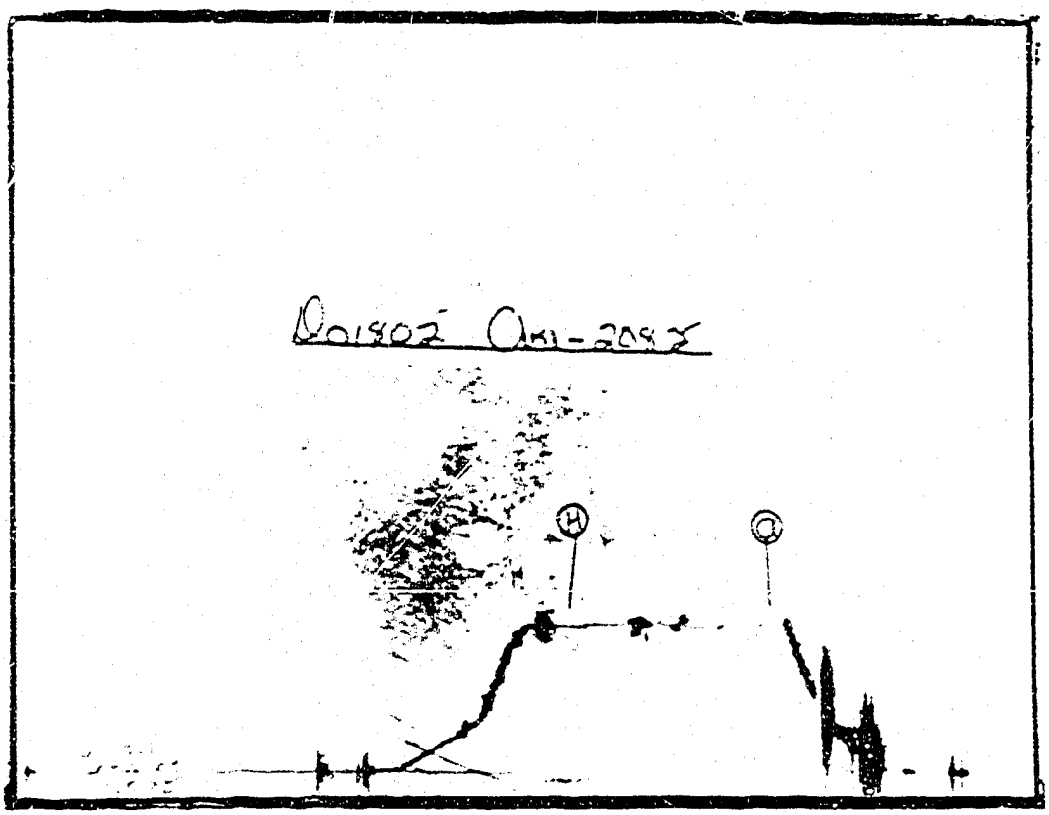
A-1, A-2, A-3, etc. Initial Hyd. Pressures
B, B-1, Initial Flow Pressures
C, Initial Shut-In
D-1, D-2, D-3, etc. Second Flow Pressures
E, Second Shut-In
F, F-1, F-2, Third Flow Pressures
G, Final Shut-In
H, Final Hyd. Pressures
Z — Special pressure points such as pumping pressures recorded for formation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

JOHNSTON TESTERS

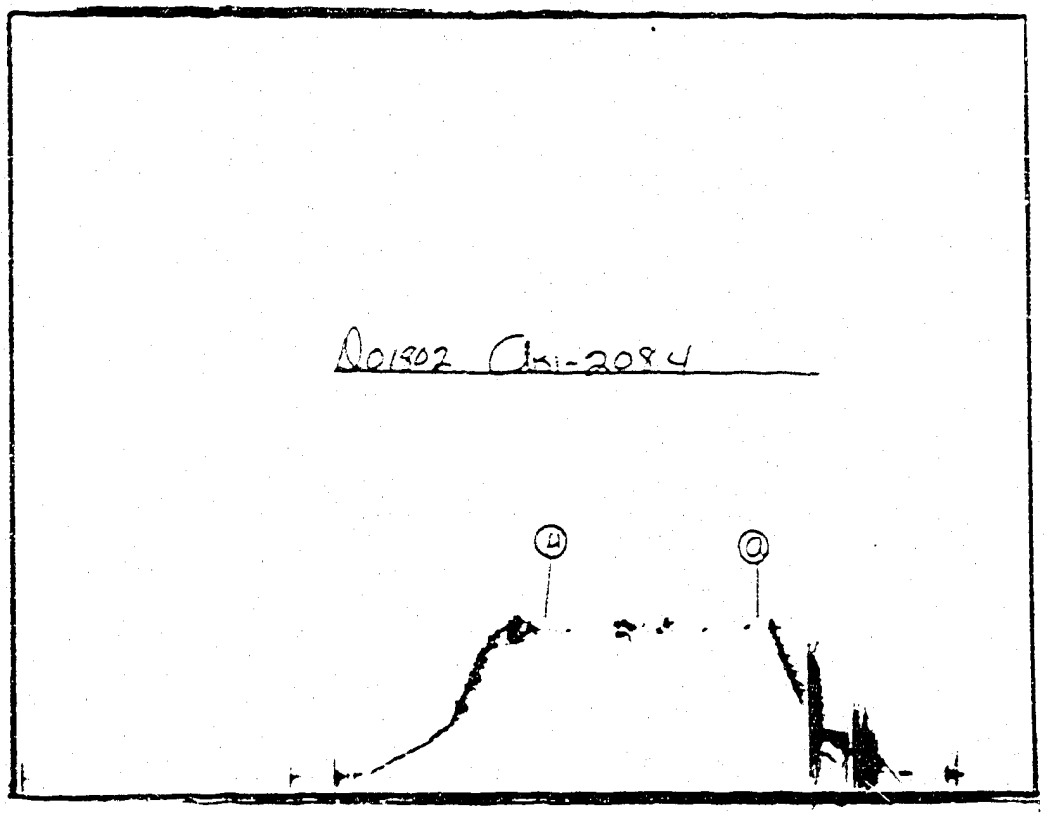
FIELD REPORT NO	RECORDER NO	CAPACITY	REPORTS REQUESTED
D 01502	AK1-2110	4000	5



D01802 CKI-2085



D01802 CKI-2084



C.P.—38 (10/63)

DAILY DRILLING REPORT

REPORT NO. DATE Jan 18

OPERATOR	LOCATION LSD.	SEC.	TWP.	RGE.	W.	WELL NAME	No.	PROVINCE
SHELL CANADA LIMITED	L-5					Shell H.15 Grumbler	L-5	N.W.T.

CONTRACTOR	RIG No.	DRILL PIPE STRING NO. SIZE	TOOL JOINT OD / TYPE THD.
Sedco	94		

OPERATOR'S REPRESENTATIVE	CONTRACTOR'S TOOL PUSHER
RW Mills.	K. Kielaty.

PUMPS

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

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

TIME DISTRIBUTION—HOURS

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

TIME SUMMARY (OFFICE USE ONLY)

CONTRACTOR'S TIME HRS:

OPERATOR'S TIME:

HRS. W/D.P:

HRS WO/D.P:

HRS STANDBY

WIRE LINE RECORD

REEL NO

NO OF LINES SIZE

FEET SLIPPED

FEET CUT OFF

PRESENT LENGTH

TON MI. or TRIPS SINCE LAST CUT

CUMULATIVE TON MI. or TRIPS

NO. OF DAYS FROM SPUD

CUMULATIVE ROTATING HRS.

MORNING TOUR

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

DRILLER

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

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

REMARKS

12:00	4:00	W.O.C.
4:00	4:45	Run in to find Plug. Plug at 1308'
4:45	6:15	Circ
6:15	7:15	Run in to 409' & run plug #3
7:15	8:00	Pull out of hole

Run Plug #3 409'-surface @ 87 sxs cement

Plug down @ 7:15 A.M.

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

MUD & CHEMICALS ADDED TYPE	AMT.	TYPE	AMT.

DAY TOUR

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

DRILLER

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

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

REMARKS

Lay down pipe & tear out B.O.P. 8:00 - 12:00

Drawing out rig 12:00 - 4:00

(Moving Camp)

Rig Released @ 12:00 noon

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

MUD & CHEMICALS ADDED TYPE	AMT.	TYPE	AMT.

EVENING TOUR

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

DRILLER C. L. Paquette

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

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

REMARKS

Move ~~out~~ Tear out

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

MUD & CHEMICALS ADDED TYPE	AMT.	TYPE	AMT.

C.P.—38 (10/63)

DAILY DRILLING REPORT

REPORT NO. | DATE March 17/69

OPERATOR	LOCATION LSD.	SEC.	TWP.	RGE.	W.	WELL NAME	No.	PROVINCE
SHELL CANADA LIMITED	1-05					Shell H.B. Crimpler	1-05	N.W.T.

CONTRACTOR	RIG No.	DRILL PIPE STRING NO. SIZE	TOOL JOINT OD / TYPE THD.
Sedco	94		

OPERATOR'S REPRESENTATIVE	CONTRACTOR'S TOOL PUSHER
RW Mills	R. Kelly

PUMPS

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

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

TIME DISTRIBUTION—HOURS

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

TIME SUMMARY (OFFICE USE ONLY)

CONTRACTOR'S TIME HRS: 5

OPERATOR'S TIME: 19

HRS. W/D.P:

HRS WO/D.P:

HRS STANDBY

WIRE LINE RECORD

REEL NO

NO OF LINES SIZE

FEET SLIPPED

FEET CUT OFF

PRESENT LENGTH

TON MI. or TRIPS SINCE LAST CUT

CUMULATIVE TON MI. or TRIPS

NO. OF DAYS FROM SPUD

CUMULATIVE ROTATING HRS.

MORNING TOUR

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

DRILLER: J. G. Degenhardt

HRS. DRLD.	CORE NO.	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT. ON BIT 1000#	PUMP PRESS.	PUMP 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 2472 | DEV. | DIRECTION | DEPTH | DEV. | DIRECTION | DEPTH | DEV. | DIRECTION

REMARKS

12:00 12:15 Service Rig + check B.O.P.
12:15 4:00 Make up packer + Run in
4:00 4:45 Head up to test
4:45 8:00 Testing

MUD RECORD

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

MUD & CHEMICALS ADDED: TYPE | AMT. | TYPE | AMT.

DAY TOUR

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

DRILLER: Steve Scott

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

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

REMARKS

8:00 9:00 TESTING
9:00 12:30 HOIST + BREAK DOWN PACKER + LOAD OUT.
12:30 1:15 HOIST TAIL PIPE.
1:15 2:30 LAY DOWN COLLARS
2:30 4:00 WAIT ON ORDERS
RAN DST #1A 16:15-17:15 DUAL STRADDLE BYPASS BHT 22°F
Preflow 2 min. IST 60 min. TO 90 min FST 90 min. FIP GAS dev to dead in 20 min
Rec + Rec'd: 0.33 Bbls W.C. ; Rec'd: 340' (2.5 Bbls) watery mud and 945' (5.0 Bbls) SW

MUD RECORD

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

MUD & CHEMICALS ADDED: TYPE | AMT. | TYPE | AMT.

EVENING TOUR

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

DRILLER

HRS. DRLD.	CORE NO.	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT. ON BIT 1000#	PUMP PRESS	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN
RAN PLUG #1 2472'-1950' @ 125 SAX CONST. CEMENT												
PLUG DOWN @ 7:30 P.M. BY HOWCO												

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

REMARKS

4:00 5:30 W.O.O.
5:30 7:00 TRIP IN OPEN END.
7:00 7:30 RIG TO RUN + RUN PLUG #1
7:30 8:15 TRIP OUT 25 JTS.
8:15 - 8:45 RUN PLUG #2.
8:45 - 12:00 LAY DOWN PIPE + WAIT TO KEEP PLUG 2
RAN PLUG #2 1710'-1330' @ 148 SAX CONST CEMENT + 2% $CaCl_2$ PLUG DOWN @ 8:45 P.M.

MUD RECORD

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

MUD & CHEMICALS ADDED: TYPE | AMT. | TYPE | AMT.

C.P.—38 (10/63)

DAILY DRILLING REPORT

REPORT NO. DATE March 16/69

OPERATOR	LOCATION LSD.	SEC.	TWP.	RGE.	W.	WELL NAME	No.	PROVINCE
SHELL CANADA LIMITED	L-5					Shell H.B. Grumbler	L-5	N.W.T.

CONTRACTOR	RIG No.	DRILL PIPE STRING NO. SIZE	TOOL JOINT OD / TYPE THD.
Sedco	94		

OPERATOR'S REPRESENTATIVE: R.W. Miller

CONTRACTOR'S TOOL PUSHER: L. Kielaty

PUMPS

NO.	MANUFACTURER	TYPE	STROKE LENGTH
1.	National	C-150	12
2.			
3.			

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

TIME DISTRIBUTION—HOURS

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

TIME SUMMARY (OFFICE USE ONLY)

CONTRACTOR'S TIME HRS: ½

OPERATOR'S TIME: 23½

HRS. W/D.P:

HRS W/O D.P:

HRS STANDBY

WIRE LINE RECORD

REEL NO

NO OF LINES SIZE

FEET SLIPPED

FEET CUT OFF

PRESENT LENGTH

TON MI. or TRIPS SINCE LAST CUT

CUMULATIVE TON MI. or TRIPS

NO. OF DAYS FROM SPUD

CUMULATIVE ROTATING HRS.

MORNING TOUR

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

DRILLER: C.G. Degenhardt

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

DEVIATION RECORD:

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

REMARKS

12:00 3:00 Logging

3:00 7:15 Wait for velocity ~~Survey~~ Service *

7:15 8:00 Rig up for velocity Survey *

MUD RECORD

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

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

DAY TOUR

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

DRILLER: Stan Scott

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

DEVIATION RECORD:

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

REMARKS

8:00 1:45 LOGGING + VELOCITY SURVEY *

1:45 3:15 RUN IN W/ BIT

3:15 4:00 CIRC. WAIT ON ORDERS.

Ran w/ Schlumberger:

IES 2469 - 345 2"+5" scales (1 hr.) | CDM (4½ hrs)

BSGR-C 2469-345 2"+5" scales (2 hr) | SRS (1 hrs)

*FDC 2468-345 2"+5" scales (2½ hr)

MUD RECORD

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

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

EVENING TOUR

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

DRILLER: C. L. Paquette

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

DEVIATION RECORD:

DEPTH	DEV.	DIRECTION	DEPTH	DEV	DIRECTION	DEPTH	DEV	DIRECTION
2472	1°							

REMARKS

4:00 4:15 RIG SERV.

4:15 9:45 FIRE. W.O.O.

9:45 10:00 SURVEY

10:00 12:00 TRIP OUT ~~TO LOGGERS~~

~~[illegible]~~ ~~W.O.O~~

MUD RECORD

TIME	6 PM	8 PM		
WEIGHT	9.0	9.1		
VISC	38	53		
W.L.-C.C.				
FLTR CK.				
PH				
SD. CONT				

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
GELL	#600		
CAUSTIC	#50		

C.P.—38 (10/63)

DAILY DRILLING REPORT

REPORT NO. | DATE March 15/69

OPERATOR	LOCATION LSD.	SEC.	TWP.	RGE.	W.	WELL NAME	No.	PROVINCE
SHELL CANADA LIMITED	2-5					Shell H.B. Crumbler 2-5	2-5	N.W.T.

CONTRACTOR	RIG No.	DRILL PIPE STRING NO. SIZE	TOOL JOINT OD / TYPE THD.
Sedco	94		

OPERATOR'S REPRESENTATIVE: R.J. Miller

CONTRACTOR'S TOOL PUSHER: L. Kelly

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

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

TIME DISTRIBUTION—HOURS

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

TIME SUMMARY (OFFICE USE ONLY)

CONTRACTOR'S TIME HRS:

OPERATOR'S TIME:

HRS. W/D.P:

HRS WO/D.P:

HRS STANDBY

WIRE LINE RECORD

REEL NO

NO OF LINES SIZE

FEET SLIPPED

FEET CUT OFF

PRESENT LENGTH

TON MI. or TRIPS SINCE LAST CUT

CUMULATIVE TON MI. or TRIPS

NO. OF DAYS FROM SPUD

CUMULATIVE ROTATING HRS.

MORNING TOUR

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

DRILLER: L. G. Degenhardt

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

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

REMARKS

12:00	12:15	Service Rig + Check B.O.P.
12:15	2:00	Hoist to
2:00	5:30	Pick up Packer + Run in
5:30	7:00	Steam out flare line + head up to test
7:00	7:30	Setting Packer
7:30	8:00	(Mixing) Prepare to hoist.

MUD RECORD

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

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

DAY TOUR

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

DRILLER: Steve Scott

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

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

REMARKS

6:00	8:15	RIG SER.
8:15	12:00	LAY DOWN HEAD + HOIST + BREAK DOWN PACKER
12:00	1:00	WAIT ON ORDERS
1:00	2:30	RUN IN W/ Bit
2:30	3:00	BREAK CIRC.
3:00	4:00	CIRC. MIX MUD

RAN DST #1 1600-1730 DUAL STRADDLE BYPASS

PACKERS FAILED TO SET ON TWO ATTEMPTS — MISRUN

RWM

MUD RECORD

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

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

EVENING TOUR

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

DRILLER: C. L. Paquette

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

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

REMARKS

4:00	5:15	MIX MUD · SERV. RIG
5:15	7:00	TRIP OUT.
7:00	12:00	RIG UP TO LOG + LOG.

MUD RECORD

TIME	6 PM		
WEIGHT	9.0		
VISC	52		
W.L.-C.C.			
FLTR CK.			
PH			
SD. CONT			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
MELL	500		

C.P.—38 (10/63) **DAILY DRILLING REPORT** REPORT NO. DATE March 14/69

OPERATOR	LOCATION LSD.	SEC.	TWP.	RGE.	W.	WELL NAME	No.	PROVINCE
SHELL CANADA LIMITED	L-5					Shell H.B. Crumbler	L-5	N.W.T.

CONTRACTOR	RIG No.	DRILL PIPE STRING NO. SIZE	TOOL JOINT OD / TYPE THD.
Sedco.	94		

OPERATOR'S REPRESENTATIVE	CONTRACTOR'S TOOL PUSHER
R.W. Mellor	R. Kelly.

PUMPS

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

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

TIME DISTRIBUTION—HOURS

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

TIME SUMMARY (OFFICE USE ONLY)

CONTRACTOR'S TIME HRS:

OPERATOR'S TIME:

HRS. W/D.P:

HRS WO/D.P:

HRS STANDBY

WIRE LINE RECORD

REEL NO

NO OF LINES SIZE

FEET SLIPPED

FEET CUT OFF

PRESENT LENGTH

TON MI. or TRIPS SINCE LAST CUT

CUMULATIVE TON MI. or TRIPS

NO. OF DAYS FROM SPUD

CUMULATIVE ROTATING HRS.

MORNING TOUR

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

DRILLER C. G. Degenhardt

HRS. DRLD.	CORE NO.	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT. ON BIT 1000#	PUMP PRESS.	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN
		2472										

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

REMARKS *

12.00-6.00 wait on Tester

6.00 8.00 work on Light Plant.

MUD RECORD

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

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

DAY TOUR

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

DRILLER Steve Scott

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

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

REMARKS

4:00	8:15	RIG SER
8:15	10:30	HOIST TO TEST (Double Strap)
10:30	12:30	WAIT ON TESTER
12:30	2:00	MAKE UP PACKER + RUN TAIL PIPE
2:00	3:15	LAY DOWN " + HOIST TAIL PIPE
3:15	4:00	WORK ON TRANS.

Tally 2471.73
Double SLM 2471.00
Diff 0.73
No Correction made RWM.

Late to pull packer in daylight - Drop in @ bit + circ while waiting to run packer.

MUD RECORD

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

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

EVENING TOUR

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

DRILLER C. L. Paquette

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

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

REMARKS

~~RIG SER.~~
~~HOIST TO TEST (DOUBLE STRAP)~~
~~WAIT ON TESTER~~
~~LAY~~

4:00	6:30	WORK ON TORQUE DRIVE - FIBSERV. THAW FROZEN AIR LINES
6:30	8:00	TRIP IN W/ BIT
8:00	8:30	REAM 12' TO BOTTOM.
8:30	12:00	WIRE TO ~~SEND FOR~~ PACKER WAIT TO TEST

MUD RECORD

TIME	8. PM	10: PM
WEIGHT	9.0	9.1
VISC	44	53
W.L.-C.C.		
FLTR. CK.		
PH		
SD. CONT		

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
GEL	400		

C.P.—38 (10/63) **DAILY DRILLING REPORT** REPORT NO. DATE Mar 13/69.

OPERATOR	LOCATION LSD. SEC. TWP. RGE. W.	WELL NAME	No.	PROVINCE
SHELL CANADA LIMITED		Shell HB Grumbler L-05		N.W.T

CONTRACTOR	RIG No.	DRILL PIPE STRING NO. SIZE	TOOL JOINT OD / TYPE THD.
Sedco Drilling	94	3½	7F

OPERATOR'S REPRESENTATIVE	CONTRACTOR'S TOOL PUSHER
R.W. Mills.	L. Kirby.

PUMPS

NO.	MANUFACTURER	TYPE	STROKE LENGTH
1.	NAT	C150B	12
2.			
3.			

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

TIME DISTRIBUTION—HOURS

	MORN	DAY	EVE
DRILLING ACTUAL	1½	2¾	
REAMING			
CIRCULATING			
TRIPS			
DEVIATION SURVEY			
TEST B.O.P		¼	
CUT OFF DRILL LINE			
REPAIR RIG	4½	¾	
CORING			
WIRE LINE LOGGING			
OTHER Fire	½		
FISHING			
COMPLETING (A) PERFORATING			
(B) RUNNING TUBING			
(C) SWABBING			
(D) TESTING			
(E) ACIDIZING			
(F) ADDITIONAL			
TOTALS	8.		

TIME SUMMARY (OFFICE USE ONLY)

CONTRACTOR'S TIME HRS:

OPERATOR'S TIME:

HRS. W/D.P:

HRS WO/D.P:

HRS STANDBY

WIRE LINE RECORD

REEL NO

NO OF LINES SIZE

FEET SLIPPED

FEET CUT OFF

PRESENT LENGTH

TON MI. or TRIPS SINCE LAST CUT

CUMULATIVE TON MI. or TRIPS

NO. OF DAYS FROM SPUD

CUMULATIVE ROTATING HRS.

MORNING TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD	
	STANDS DP	FT.	RUN NO.	8.
	SNGLS. DP	FT.	SIZE	6¼
16.	D.C. 1⅞ ID 4¾ OD	466.33 FT.	MFG.	HW
			TYPE	W7
	RMR BODY OD	FT.	NOZ. NO.	2 1
	STB BODY OD	FT.	SIZE	13 12
1	SUBS OD	1.00 FT.	SER. NO	DC327
	BIT OR C.B.	FT.	DEPTH OUT	
		FT.	CUMULATIVE HOURS RUN	3.
	KELLY DOWN	FT.	COND. OF BIT	
	TOTAL	FT.	REAMER CUTTER NO.	
WT. OF STRING		LBS.	TYPE	

DRILLER L. Ross.

HRS. DRLD.	CORE NO.	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT. ON BIT 1000#	PUMP PRESS.	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN
1½		2458.	2460.		75.	20.	850	5.				

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

REMARKS

1200. Rig Started around floor Motor put out & Check air & fuel Lines
200. Repair fuel & Air lines.
600. Drill.
615 Work on Air line
630 Drill
745. Work on Air Lines.

MUD RECORD

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

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

DAY TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD	
16	STANDS DP	FT.	RUN NO.	8
	SNGLS. DP	FT.	SIZE	6¼
16	D.C. 1¾ ID 4¾ OD	466.33 FT.	MFG.	HW.
			TYPE	W7
	RMR BODY OD	FT.	NOZ. NO	2-13
	STB BODY OD	FT.	SIZE	2-12
	SUBS OD	FT.	SER. NO.	DC327
	BIT OR C.B.	FT.	DEPTH OUT	2472
		FT.	CUMULATIVE HOURS RUN	5¾
	KELLY DOWN	3.5 FT.	COND. OF BIT	
	TOTAL	2472 FT.	REAMER CUTTER NO.	
WT. OF STRING		34.00 LBS.	TYPE	

DRILLER C. G. Degenhardt.

HRS. DRLD.	CORE NO.	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT. ON BIT 1000#	PUMP PRESS.	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN
2¾		2464	2471		75	20M	850	5	64.			

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

REMARKS

8.00 - 8.15 Service Rig + Check B.O.P.
8.15 - 8.45 Repair air lines
8.45 - 9.15 Drill
9.15 - 9.30 Repair water to compressor.
1943 0 41 1945 Lickdatte + wait on ~~[illegible]~~ loggers*

MUD RECORD

TIME	9.00	12.00	2.00
WEIGHT	9.4	9.4	9.4
VISC	41	42.	
W.L.-C.C.		10.4	
FLTR. CK.		3/32	
PH		9.5	
SD. CONT.			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
Gel	900 lb		

EVENING TOUR

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

DRILLER Steve Scott

HRS. DRLD.	CORE NO.	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT. ON BIT 1000#	PUMP PRESS	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN
		2472										

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

REMARKS

4:00 12:00 CIRC + WAIT ON ~~[illegible]~~ LOGGERS *

MUD RECORD

TIME	6:00		
WEIGHT	8.4		
VISC	53		
W.L.-C.C.			
FLTR CK.			
PH			
SD. CONT			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT
Gel	500		

* Schlumberger

C.P.—38 (10/63) **DAILY DRILLING REPORT** REPORT NO. DATE Mar 12 / 69.

OPERATOR	LOCATION LSD.	SEC.	TWP.	RGE.	W.	WELL NAME	No.	PROVINCE
SHELL CANADA LIMITED						Shell HB Grumbler 2-05		N.W.T.

CONTRACTOR	RIG No.	DRILL PIPE STRING NO.	SIZE	TOOL JOINT OD	TYPE THD.
Ledco Drilling	94.		3½		FF

OPERATOR'S REPRESENTATIVE: R.W. Mills. CONTRACTOR'S TOOL PUSHER: R. Kelaly.

PUMPS

NO.	MANUFACTURER	TYPE	STROKE LENGTH
1.	NAT	C150B	12
2.			
3.			

CASING & LINER RECORD

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

TIME DISTRIBUTION—HOURS

	MORN	DAY	EVE
DRILLING ACTUAL	7½	6	
REAMING		½	
CIRCULATING			
TRIPS		1½	
DEVIATION SURVEY		½	
TEST B.O.P	¼	¼	
CUT OFF DRILL LINE		¼	
REPAIR RIG Service	¼	¼	
CORING			
WIRE LINE LOGGING			
OTHER			
FISHING			
COMPLETING (A) PERFORATING			
(B) RUNNING TUBING			
(C) SWABBING			
(D) TESTING			
(E) ACIDIZING			
(F) ADDITIONAL			
TOTALS	8.	8.	

TIME SUMMARY (OFFICE USE ONLY)

CONTRACTOR'S TIME HRS:

OPERATOR'S TIME:

HRS. W/D.P:

HRS WO/D.P:

HRS STANDBY

WIRE LINE RECORD

REEL NO

NO OF LINES SIZE

FEET SLIPPED

FEET CUT OFF

PRESENT LENGTH

TON MI. or TRIPS SINCE LAST CUT

CUMULATIVE TON MI. or TRIPS

NO. OF DAYS FROM SPUD

CUMULATIVE ROTATING HRS.

MORNING TOUR

NO.	DRILLING ASSEMBLY			BIT RECORD	
64	STANDS DP		FT.	RUN NO.	7.
	SNGLS. DP		FT.	SIZE	6¼
16.	D.C. 1⅞ ID 4¾ OD	466.33	FT.	MFG.	HW.
				TYPE	DW2
	RMR BODY OD		FT.	NOZ. NO.	1 2
	STB BODY OD		FT.	NOZ. SIZE	13 12
1	SUBS OD	1.00	FT.	SER. NO	HK935
	BIT OR C.B.		FT.	DEPTH OUT	
			FT.	CUMULATIVE HOURS RUN	8.
	KELLY DOWN		FT.	COND. OF BIT	
	TOTAL		FT.	REAMER CUTTER NO.	
WT. OF STRING		34000	LBS.	TYPE	

DRILLER: L. Rose.

HRS. DRLD.	CORE NO.	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT. ON BIT 1000#	PUMP PRESS.	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN
7½		2328.	2411		80-90		850	5.	64			

DEVIATION RECORD:

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

REMARKS

700	Serv Rig & V B.O.P	
1230	Drill.	

MUD RECORD

	12 Mn.	2AM	4AM
TIME			
WEIGHT	9.2	9.2	9.2
VISC	44.	44	43.
W.L.-C.C.	9.6		
FLTR. CK.	2/32		
PH	10.5		
SD. CONT.			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

DAY TOUR

NO.	DRILLING ASSEMBLY			BIT RECORD	
	STANDS DP		FT.	RUN NO.	7
	SNGLS. DP		FT.	SIZE	6¼
16	D.C. 1⅞ ID 4¾ OD	466.37	FT.	MFG.	H.W.
				TYPE	6 W V-J
	RMR BODY OD		FT.	NOZ. NO.	2 2
	STB BODY OD		FT.	NOZ. SIZE	13 13
	SUBS OD		FT.	SER. NO.	HK935
	BIT OR C.B.		FT.	DEPTH OUT	2447
			FT.	CUMULATIVE HOURS RUN	14.
	KELLY DOWN	11	FT.	COND. OF BIT	
	TOTAL		FT.	REAMER CUTTER NO.	
WT. OF STRING		34.000	LBS.	TYPE	

DRILLER: C. G. Degenhardt.

HRS. DRLD.	CORE NO.	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT. ON BIT 1000#	PUMP PRESS.	PUMP 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.		2411	2447		80	20	850	5	64			—

DEVIATION RECORD:

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

REMARKS

8.00-8.15	Rig Service + check B.O.P.	
8.15	8.30	Repairing leak in mud line
8.30	2.30	Drill
2.30	4.00	Trip for Bit

MUD RECORD

	8.00		8.00
TIME			
WEIGHT	9.3		9.3
VISC	41.		39
W.L.-C.C.	9.4		
FLTR. CK.	2/32		
PH	10.		
SD. CONT.			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
Water			

EVENING TOUR

NO.	DRILLING ASSEMBLY			BIT RECORD	
	STANDS DP		FT.	RUN NO	8
	SNGLS. DP		FT.	SIZE	6¼
66	D.C. ID OD		FT.	MFG.	HW
				TYPE	W7
	RMR BODY 7⅞ OD		FT.	NOZ. NO.	3
16	STB BODY 4¾ OD	466.33	FT.	NOZ. SIZE	13 13 12
	SUBS OD		FT.	SER NO	DC377
	BIT OR C.B.		FT	DEPTH OUT	
		1.00	FT.	CUMULATIVE HOURS RUN	1½
	KELLY DOWN		FT.	COND. OF BIT	R
	TOTAL	20	FT.	REAMER CUTTER NO.	
WT OF STRING			LBS.	TYPE	

DRILLER: Lane Scott

HRS. DRLD.	CORE NO.	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT. ON BIT 1000#	PUMP PRESS	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN
1½		2447	2458		75	20	800	5"	64			

DEVIATION RECORD:

DEPTH	DEV.	DIRECTION	DEPTH	DEV	DIRECTION	DEPTH	DEV	DIRECTION

REMARKS

4:00	4:30	RIG SER & B.O.P
4:30	7:00	TRIP
7:00	9:30	WORK ON PUMP
9:30	10:30	CLEAN TO BOTTOM
10:30	12:00	DRILL

MUD RECORD

	4:30
TIME	
WEIGHT	
VISC	37
W.L.-C.C.	
FLTR CK.	
PH	
SD. CONT	

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

C.P.—38 (10/63)

DAILY DRILLING REPORT

REPORT NO.

DATE Mar 11/69.

OPERATOR	LOCATION LSD. SEC. TWP. RGE. W.	WELL NAME	No.	PROVINCE
SHELL CANADA LIMITED		Shell H.B. Grumbler L-05		NWT

CONTRACTOR	RIG No.	DRILL PIPE STRING NO.	SIZE	TOOL JOINT OD	TYPE THD.
Ledco Drilling	94.		3½		IF

OPERATOR'S REPRESENTATIVE	CONTRACTOR'S TOOL PUSHER
R.W. Mills	L. Kelly

PUMPS

NO.	MANUFACTURER	TYPE	STROKE LENGTH
1.	NAT	C150	12.
2.			
3.			

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

TIME DISTRIBUTION—HOURS

	MORN	DAY	EVE
DRILLING ACTUAL	7¾	7¾	
REAMING			
CIRCULATING			
TRIPS			
DEVIATION SURVEY			
TEST B.O.P			
CUT OFF DRILL LINE			
REPAIR RIG Slow	¼	¼	
CORING			
WIRE LINE LOGGING			
OTHER			
FISHING			
COMPLETING (A) PERFORATING			
(B) RUNNING TUBING			
(C) SWABBING			
(D) TESTING			
(E) ACIDIZING			
(F) ADDITIONAL			
TOTALS	8	8	

TIME SUMMARY (OFFICE USE ONLY)

CONTRACTOR'S TIME HRS:

OPERATOR'S TIME:

HRS. W/D.P:

HRS WO/D.P:

HRS STANDBY

WIRE LINE RECORD

REEL NO

NO OF LINES SIZE

FEET SLIPPED

FEET CUT OFF

PRESENT LENGTH

TON MI. or TRIPS SINCE LAST CUT

CUMULATIVE TON MI. or TRIPS

NO. OF DAYS FROM SPUD

CUMULATIVE ROTATING HRS.

MORNING TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD	
59	STANDS DP	FT.	RUN NO.	6
	SNGLS. DP	FT.	SIZE	6¼
16.	D.C. 1⅞ ID 4¾ OD	466.33 FT.	MFG.	HW
			TYPE	OWU
	RMR BODY OD	FT.	NOZ. NO.	1 2
	STB BODY OD	FT.	SIZE	13/12
1	SUBS OD	1.00. FT.	SER. NO	HK936
	BIT OR C.B.	FT.	DEPTH OUT	
		FT.	CUMULATIVE HOURS RUN	8¾.
	KELLY DOWN	FT.	COND. OF BIT	
	TOTAL	FT.	REAMER CUTTER NO.	
WT. OF STRING	32 000 LBS.		TYPE	

DRILLER L. Ross

HRS. DRLD.	CORE NO.	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT. ON BIT 1000#	PUMP PRESS.	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN
7¾		2185.	2247.		90.	2000	850	5.				

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

REMARKS

12 00	2 30	Drill
2 30	2 45	Serv Rig.
2 45		Drill.

MUD RECORD

TIME	2AM	4AM	6AM
WEIGHT	9.0	9.1	9.0.
VISC	37	45	40.
W.L.-C.C.	9.7.		
FLTR. CK.	2/32		
PH	10.5		
SD. CONT.			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
Gel.	1100.		
Sheren.	200.		
Caustic	100		
CMC.	50.		

DAY TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD	
	STANDS DP	FT.	RUN NO.	6
61	SNGLS. DP	FT.	SIZE	6¼
16	D.C. 1⅞ ID 4¾ OD	466.33	MFG.	H.W
		FT.	TYPE	O W V-J
	RMR BODY OD	FT.	NOZ. NO	1 2
	STB BODY OD	FT.	SIZE	13 12
	SUBS OD	FT.	SER. NO.	HK 936
	BIT OR C.B.	FT.	DEPTH OUT	1
		FT.	CUMULATIVE HOURS RUN	16½
	KELLY DOWN	26 FT.	COND. OF BIT	
	TOTAL	2312 FT.	REAMER CUTTER NO.	
WT. OF STRING	32.000 LBS.		TYPE	

DRILLER

HRS. DRLD.	CORE NO.	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT. ON BIT 1000#	PUMP PRESS.	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN
7¾		2247	2312		90	20	850	5	54			

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

REMARKS

8.00	- 8 15	Service Rig + Drill
8.15	- 4.00	Drilling

MUD RECORD

TIME	8.00	12.00	2.00
WEIGHT	9.1	9.1	9.2
VISC	37	41	38
W.L.-C.C.			12.2
FLTR. CK.	3/32		2/32
PH	10.5		7
SD. CONT.			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
Caustic	50#		
Gel	600#		

EVENING TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD		
	STANDS DP	FT.	RUN NO	6	6
	SNGLS. DP	FT.	SIZE	6¼	6¼
16	D.C 1⅞ ID 4¾ OD	466.33 FT.	MFG.	HW	HW
			TYPE	OWU	OWU
	RMR BODY OD	FT.	NOZ. NO.	3	3
	STB BODY OD	FT.	SIZE	2/12 1/3	2/12 1/3
	SUBS OD	1.00 FT.	SER NO	HK936	HK935
	BIT OR C.B.	FT	DEPTH OUT	2324	
		FT.	CUMULATIVE HOURS RUN	18	
	KELLY DOWN	38.60 FT.	COND. OF BIT	5-4-1	
	TOTAL	FT.	REAMER CUTTER NO.		
WT OF STRING		LBS.	TYPE		

DRILLER Fred Scott

HRS. DRLD.	CORE NO.	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT. ON BIT 1000#	PUMP PRESS	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN
		2312	2328		80	20						

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

		2324	3/4°

REMARKS

4:00	5:30	DRILL
5:30	6:00	RIG SER + SURVEY
6:00	7:00	WORK ON LIGHT PLANT
7:00	10:15	TRIP (STRAP)
10:15	10:45	WORK ON SHAKER + LIGHTS
10:45	11:30	CLEAN TO BOTTOM
		DRILL

SLM ~~Tally~~ 2328.50
Tally 2326.44
Diff 2.06
Corrected to 2328.50
RWM

MUD RECORD

TIME	6:00	
WEIGHT	9.2	
VISC	38	TID
W.L.-C.C.		
FLTR CK.		
PH		
SD. CONT		

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
Caustic	50		
Sodabicb	100		

C.P.—38 (10/63)

DAILY DRILLING REPORT

REPORT NO. DATE Mar 10/69.

OPERATOR	LOCATION LSD. SEC. TWP. RGE. W.	WELL NAME	No.	PROVINCE
SHELL CANADA LIMITED		Shell HB Grumbler L-05		N.W.T.

CONTRACTOR	RIG No.	DRILL PIPE STRING NO. SIZE	TOOL JOINT OD / TYPE THD.
Sedco Drilling	94	3½	I F

OPERATOR'S REPRESENTATIVE: R.W. Miller

CONTRACTOR'S TOOL PUSHER: R. Kinsly.

PUMPS

NO.	MANUFACTURER	TYPE	STROKE LENGTH
1.	NAT	C150B	12
2.			
3.			

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

TIME DISTRIBUTION—HOURS

	MORN	DAY	EVE
DRILLING ACTUAL	7½	7½	4½
REAMING			
CIRCULATING			3
TRIPS			
DEVIATION SURVEY	¼	¼	
TEST B.O.P		¼	
CUT OFF DRL LINE		¼	
REPAIR RIG	¼		¼
CORING			
WIRE LINE LOGGING			
OTHER			
FISHING			
COMPLETING (A) PERFORATING			
(B) RUNNING TUBING			
(C) SWABBING			
(D) TESTING			
(E) ACIDIZING			
(F) ADDITIONAL			
TOTALS	8	16	8

TIME SUMMARY (OFFICE USE ONLY)

CONTRACTOR'S TIME HRS:

OPERATOR'S TIME:

HRS. W/D.P:

HRS WO/D.P:

HRS STANDBY

WIRE LINE RECORD

REEL NO

NO OF LINES SIZE

FEET SLIPPED

FEET CUT OFF

PRESENT LENGTH

TON MI. or TRIPS SINCE LAST CUT

CUMULATIVE TON MI. or TRIPS

NO. OF DAYS FROM SPUD

CUMULATIVE ROTATING HRS.

MORNING TOUR

NO.	DRILLING ASSEMBLY			BIT RECORD	
55	STANDS DP		FT.	RUN NO.	5
	SNGLS. DP		FT.	SIZE	6¼
16	D.C. 1¾ ID / 4¾ OD	466.33	FT.	MFG.	HW
				TYPE	DWU
	RMR BODY OD		FT.	NOZ. NO.	2 1
	STB BODY OD		FT.	NOZ. SIZE	12 13
	SUBS OD	1.00	FT.	SER. NO	HK 924
	BIT OR C.B.		FT.	DEPTH OUT	
			FT.	CUMULATIVE HOURS RUN	10½
	KELLY DOWN		FT.	COND. OF BIT	
	TOTAL		FT.	REAMER CUTTER NO.	
	WT. OF STRING	32000	LBS.	TYPE	

DRILLER: [illegible]

HRS. DRLD.	CORE NO.	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT. ON BIT 1000#	PUMP PRESS.	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN
7½		1999	2073		100	20M	850.	5				

DEVIATION RECORD:	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION
	1999	1°							

REMARKS

1200 1230 Serv Rig + BOP + Survey
1230 8⁰⁰ Drill

MUD RECORD			
TIME	2 AM	4AM	6AM
WEIGHT	9.0	9.0	9.0
VISC	39	38.	40.
W.L.-C.C.			
FLTR. CK.			
PH			
SD. CONT.			

MUD & CHEMICALS ADDED TYPE	AMT.	TYPE	AMT.
Gel	800		

DAY TOUR

NO.	DRILLING ASSEMBLY			BIT RECORD	
56	STANDS DP		FT.	RUN NO.	5
	SNGLS. DP		FT.	SIZE	6¼
16	D.C. 1¾ ID / 4¾ OD	466.33	FT.	MFG.	H.W
				TYPE	DWU-J
	RMR BODY OD		FT.	NOZ. NO.	2 1
	STB BODY OD		FT.	NOZ. SIZE	12 13
	SUBS OD	1.00.	FT.	SER. NO.	HK 924
	BIT OR C.B.		FT.	DEPTH OUT	
			FT.	CUMULATIVE HOURS RUN	18
	KELLY DOWN	16	FT.	COND. OF BIT	Drilling
	TOTAL		FT.	REAMER CUTTER NO.	
	WT. OF STRING	30000	LBS.	TYPE	

DRILLER: C. G. Degenhardt

HRS. DRLD.	CORE NO.	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT. ON BIT 1000#	PUMP PRESS.	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN
7½		2073	2154		100	20M	800	5	62			

DEVIATION RECORD:	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION
	2075	3/4							

REMARKS

8⁰⁰-8:15 Run Survey
8:15-8:30 Service Rig + check B.O.P.s
8:30 11⁰⁰ Drilling

MUD RECORD			
TIME	~~8:00~~ 9.1	~~10:00~~ 9.2	~~2.00~~ 9.2
WEIGHT	9.8	9.2	9.2
VISC	38	36	38
W.L.-C.C.			
FLTR. CK.	7/32		
PH	10.		
SD. CONT.			

MUD & CHEMICALS ADDED TYPE	AMT.	TYPE	AMT.
Gel.	100#		

EVENING TOUR

NO.	DRILLING ASSEMBLY			BIT RECORD		
57	STANDS DP		FT.	RUN NO		
	SNGLS. DP		FT.	SIZE	5	6
16	D.C. 1¾ ID / 4¾ OD	466.33	FT.	MFG.	6¼	6¼
				TYPE	H.W.	HW
	RMR BODY OD		FT.	NOZ. NO.	DWU	DWU
	STB BODY OD	1.00	FT.	NOZ. SIZE	3	3
	SUBS OD		FT.	SER NO	13	13 104
	BIT OR C.B.		FT	DEPTH OUT	HK 924	HK 924
			FT.	CUMULATIVE HOURS RUN	77	1
	KELLY DOWN		FT.	COND. OF BIT	2	R
	TOTAL	15	FT.	REAMER CUTTER NO.		
	WT OF STRING		LBS.	TYPE		

DRILLER: [illegible]

HRS. DRLD.	CORE NO.	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT. ON BIT 1000#	PUMP PRESS	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN
		2154	2185									

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

REMARKS

5:00 5:30 DRILL
5:30 5:45 RIG SER
5:45 7:45 DRILL
7:45 10:45 TRIP
10:45 11:00 CLEAN TO BOTTOM
11:00 DRILL

MUD RECORD			
TIME		6:00	
WEIGHT	9.0	9.2	
VISC	36	38	
W.L.-C.C.			
FLTR. CK.			KRP
PH			
SD. CONT			

MUD & CHEMICALS ADDED TYPE	AMT.	TYPE	AMT.
Gel.	1100		

Shell Scott

C.P.—38 (10/63)

DAILY DRILLING REPORT

REPORT NO. 1 DATE Mar 9/69

OPERATOR	LOCATION	WELL NAME	No.	PROVINCE
SHELL CANADA LIMITED	LAT 60° 14' 41.26" LONG 119° 01' 32.99" LSD. NE 36 SEC. 36 TWP. 13 RGE. 10 W. 5	Shell HB Grumbler ~~P-25~~	L-5	NWT

CONTRACTOR	RIG No.	DRILL PIPE STRING NO.	SIZE	TOOL JOINT OD	TYPE THD.
Sedco Drilling	94	1	3½		IF

OPERATOR'S REPRESENTATIVE: H. Hinshall

CONTRACTOR'S TOOL PUSHER: [illegible]

PUMPS

NO.	MANUFACTURER	TYPE	STROKE LENGTH
1.	NAT	C150B	12
2.			
3.			

CASING & LINER RECORD

SIZE	WT. & GR.	DEPTH SET FROM	DEPTH SET TO	PERFORATIONS FROM	PERFORATIONS TO	CEMENT USED	OTHER
7	20# J-55	KB	345			130	3% CACL2

TIME DISTRIBUTION—HOURS

	MORN	DAY	EVE
DRILLING ACTUAL	7¾	7¾	~~5~~
REAMING			
CIRCULATING			
TRIPS			2¾
DEVIATION SURVEY			
TEST B.O.P			
CUT OFF DRILL LINE			
REPAIR RIG	¼		¼
CORING			
WIRE LINE LOGGING			
OTHER		½	
FISHING	8	½	
COMPLETING (A) PERFORATING			
(B) RUNNING TUBING			
(C) SWABBING			
(D) TESTING			
(E) ACIDIZING			
(F) ADDITIONAL			
TOTALS	8	8	8

TIME SUMMARY (OFFICE USE ONLY)

CONTRACTOR'S TIME HRS: 24

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 10

CUMULATIVE ROTATING HRS.

MORNING TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD	
46	STANDS DP	1325.02 FT.	RUN NO	4
	SNGLS. DP	FT.	SIZE	6¼
16	D.C. 1¾ ID 4¾ OD	466.33 FT.	MFG.	HW
			TYPE	OWV
	RMR BODY OD	FT.	NOZ. NO.	3
	STB BODY OD	FT.	NOZ. SIZE	12
1	SUBS OD	1.00 FT.	SER. NO	98349
	BIT OR C.B.	FT.	DEPTH OUT	
		FT.	CUMULATIVE HOURS RUN	8.
	KELLY DOWN	Down FT.	COND. OF BIT	
	TOTAL	1880.02 FT.	REAMER CUTTER NO.	
WT. OF STRING		30000 LBS.	TYPE	

DRILLER: Lin Ross.

HRS. DRLD.	CORE NO.	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT. ON BIT 1000#	PUMP PRESS.	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN
7¾		1804.	1880.		100.	20	850.	5				

DEVIATION RECORD:

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

REMARKS

12⁰⁰	1⁰⁰	Drill
1⁰⁰	1¹⁵	Lower Rig
1¹⁵	8⁰⁰	Drill

MUD RECORD

TIME	2 AM	4 AM	6 AM
WEIGHT	9.0	9.0	9.0
VISC	42	38.	42.
W.L.-C.C.	~~9.8~~	9.8	9.8
FLTR. CK.	2/32	2/32	
PH	10.5	10.5	10.5
SD. CONT.			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
Gel	1000		
CMC	50		
Questic	100		
Spersene	200		

DAY TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD	
	STANDS DP	FT.	RUN NO.	4
	SNGLS. DP	FT.	SIZE	6¼
16	D.C. 1¾ ID 4¾ OD	466.33 FT.	MFG.	HW
			TYPE	OWV-J
	RMR BODY OD	FT.	NOZ. NO	3
	STB BODY OD	FT.	NOZ. SIZE	12
	SUBS OD	1.00 FT.	SER. NO.	98349
	BIT OR C.B.	FT.	DEPTH OUT	
		FT.	CUMULATIVE HOURS RUN	1.5¾
	KELLY DOWN	FT.	COND. OF BIT	Drilling
	TOTAL	FT.	REAMER CUTTER NO.	
WT. OF STRING		LBS.	TYPE	

DRILLER: C. G. Degenhardt.

HRS. DRLD.	CORE NO.	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT. ON BIT 1000#	PUMP PRESS.	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN
7¾		1880	1960		100	20M	800	5	62			

DEVIATION RECORD:

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

REMARKS

8.00-8.15 Service Rig + Check B.O.P.
8.15-4.00 Drilling

MUD RECORD

TIME	8.00	12.00	2.00
WEIGHT	9.0	9.2	9.1
VISC	39	38	38
W.L.-C.C.			11.
FLTR. CK.	2/32		2/32
PH	10.5		10.5
SD. CONT.			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
~~Gel~~			
Gel	800#		
water			

EVENING TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD		
50	STANDS DP	FT.	RUN NO	4	5
	SNGLS. DP	FT.	SIZE	6¼	6¼
16	D.C. 1¾ ID 4¾ OD	466.33 FT.	MFG.	HW	HW
			TYPE	OWVJ	OWV
	RMR BODY OD	FT.	NOZ. NO.	3	3
	STB BODY OD	1.00 FT.	NOZ. SIZE	12	11/12 11/13
	SUBS OD	FT.	SER NO	98349	HK934
	BIT OR C.B.	FT	DEPTH OUT	1771	
		FT.	CUMULATIVE HOURS RUN	17¾	
	KELLY DOWN	36 FT.	COND. OF BIT	7-4-1	R.
	TOTAL	FT.	REAMER CUTTER NO.		
WT OF STRING		LBS.	TYPE		

DRILLER: Steve Scott

HRS. DRLD.	CORE NO.	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT. ON BIT 1000#	PUMP PRESS	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN
5		1960	1999		100	20	700	5	66			

DEVIATION RECORD:

DEPTH	DEV.	DIRECTION	DEPTH	DEV	DIRECTION	DEPTH	DEV	DIRECTION

REMARKS

4:00	6:00	
6:00	6:15	DRILLER
6:15	9:00	TRIP
9:00	12:00	DRILL FOR BIT

MUD RECORD

TIME	4:00	6:00	10:00
WEIGHT	9.2	9.2	9.1
VISC	35	40	36
W.L.-C.C.			
FLTR CK.			
PH			
SD. CONT			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
Gel	1400		

C.P.—38 (10/63)

DAILY DRILLING REPORT

REPORT NO. 10 DATE Mar. 8/69

OPERATOR	LOCATION LSD. SEC. TWP. RGE. W.	WELL NAME	No.	PROVINCE
SHELL CANADA LIMITED	LAT. 60° 14' 41.26" LONG. 116° 01' 32.29"	Shell H.B. Grumbler Z-05	L-5	N/W.T.

CONTRACTOR	RIG No.	DRILL PIPE STRING NO.	SIZE	TOOL JOINT OD	TYPE THD.
Sedco Drilling	94		3½		IF

OPERATOR'S REPRESENTATIVE	CONTRACTOR'S TOOL PUSHER
H. Marshall	R. Kulaly

PUMPS

NO.	MANUFACTURER	TYPE	STROKE LENGTH
1.	NAT	C150B	12
2.			
3.			

CASING & LINER RECORD

SIZE	WT. & GR.	DEPTH SET FROM	DEPTH SET TO	PERFORATIONS FROM	PERFORATIONS TO	CEMENT USED	OTHER
7"	20# J-55	KB	345			130	3% CACL2

TIME DISTRIBUTION—HOURS

	MORN	DAY	EVE
DRILLING ACTUAL	5¼	7	7¾
REAMING			
CIRCULATING			
TRIPS	13		
DEVIATION SURVEY			
TEST B.O.P		¼	¼
CUT OFF DRILL LINE			
REPAIR RIG	¼		
CORING			
WIRE LINE LOGGING			
OTHER Lost Circ	3¼	¼	¼
FISHING			
COMPLETING (A) PERFORATING			
(B) RUNNING TUBING			
(C) SWABBING			
(D) TESTING			
(E) ACIDIZING			
(F) ADDITIONAL			
TOTALS	8	8	8

TIME SUMMARY (OFFICE USE ONLY)

CONTRACTOR'S TIME HRS: 24

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 9

CUMULATIVE ROTATING HRS.

MORNING TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD	
44	STANDS DP	FT.	RUN NO.	3.
	SNGLS. DP	FT.	SIZE	6¼
4	D.C. 1⅞ ID 4¾ OD	466.33 FT.	MFG.	HW
16.			TYPE	OWV
	RMR BODY OD	FT.	NOZ. NO.	3
	STB BODY OD	FT.	SIZE	12
1	SUBS OD	1.00 FT.	SER. NO	98495
	BIT OR C.B.	FT.	DEPTH OUT	
		FT.	CUMULATIVE HOURS RUN	5¼
	KELLY DOWN	FT.	COND. OF BIT	Rung
	TOTAL	FT.	REAMER CUTTER NO.	
	WT. OF STRING	28000 LBS.	TYPE	

DRILLER [illegible]

HRS. DRLD.	CORE NO.	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT. ON BIT 1000#	PUMP PRESS.	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN
5¼		1648	1712		100	18000	850	5.	64			

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

REMARKS

12:00	1:45	Trip (Slow).
1:45	2:00.	Break Circ + Serv Rig
2:00.	6:00	Drill
6:00.	6:45.	Lost Circ + Mix Lost Circ Mat.
6:45.	8:00.	Drill.

Lost 100 bbls mud to formation 1685' - 1699'

MUD RECORD

TIME	3 AM	4 AM
WEIGHT	9.0	9.0.
VISC	35	40.
W.L.-C.C.	9.2	9.2
FLTR. CK.	2/.	2/.
PH	10.5	
SD. CONT.		

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
Cellond	2 sks		
Sawdust	25 sks		
Gel	30 sks		
Caustic	1 sks		

DAY TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD	
	STANDS DP	FT.	RUN NO.	3
	SNGLS. DP	FT.	SIZE	6¼
16	D.C. 1⅞ ID 4¾ OD	466.33 FT.	MFG.	H.W
			TYPE	OWV-2
	RMR BODY OD	FT.	NOZ. NO	3
	STB BODY OD	FT.	SIZE	12
	SUBS OD	100 FT.	SER. NO.	98495
	BIT OR C.B.	FT.	DEPTH OUT	3
		FT.	CUMULATIVE HOURS RUN	12¼
	KELLY DOWN	30 FT.	COND. OF BIT	
	TOTAL	FT.	REAMER CUTTER NO.	
	WT. OF STRING	LBS.	TYPE	

DRILLER C. Degenhardt

HRS. DRLD.	CORE NO.	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT. ON BIT 1000#	PUMP PRESS.	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN
7½		1712	1768		100	18000	800	5"	64			

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

REMARKS

8:00	8:15	Rig Ser + check B.O.P.
8:15	1:15	Drilling
1:15	1:30	Check Mud Pump
1:30	4:00	Drilling

MUD RECORD

TIME	8:00	10:00	2:00
WEIGHT	8.7	8.7	8.8
VISC	35	39	38
W.L.-C.C.			
FLTR. CK.	3/32		
PH	12		
SD. CONT.			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
Caustic	100#		
Spersene	200#		

EVENING TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD		
44	STANDS DP	FT.	RUN NO	3	4
	SNGLS. DP	FT.	SIZE	6¼	6¼
16	D.C. 1⅞ ID 4¾ OD	466.33 FT.	MFG.	HW	HW
			TYPE	OWV	OWV
	RMR BODY OD	FT	NOZ. NO.	3	3
	STB BODY OD	FT.	SIZE	12	12
	SUBS OD	1.00 FT.	SER NO	98495	95349
	BIT OR C.B.	FT	DEPTH OUT	1465	
		FT.	CUMULATIVE HOURS RUN	12¼	1¼
	KELLY DOWN	27 FT.	COND. OF BIT	5-4-1	2
	TOTAL	FT.	REAMER CUTTER NO.		
	WT OF STRING	LBS.	TYPE		

DRILLER Stan Scott

HRS. DRLD.	CORE NO.	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT. ON BIT 1000#	PUMP PRESS	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN
		1778	1809									

DEVIATION RECORD: DEPTH 1789. DEV. ¾° | DIRECTION | DEPTH | DEV | DIRECTION | DEPTH | DEV | DIRECTION

REMARKS

4:00	5:00	DRILL
5:00	5:15	RR SER.
5:15	8:15	DRILL
8:15	8:45	WORK ON LIGHT PLANT
8:45	11:45	TRIP (SLOW)
11:45	2:00	DRILL

MUD RECORD

TIME	4:00	8:00
WEIGHT	8.7	5.8
VISC	39	40
W.L.-C.C.		
FLTR CK.		
PH		
SD. CONT		

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
Gel	800		

C.P.—38 (10/63)

DAILY DRILLING REPORT

REPORT NO. 9 DATE Mar 7/69.

OPERATOR	LOCATION LSD. SEC. TWP. RGE. W.	WELL NAME	No.	PROVINCE
SHELL CANADA LIMITED	LAT. 60° 14' 41.26" LONG 116° 01' 32.24"	SHELL H.B. Grumble	L-5	N.W.T.

CONTRACTOR	RIG No.	DRILL PIPE STRING NO. SIZE	TOOL JOINT OD / TYPE THD.
SEDCO	94		

OPERATOR'S REPRESENTATIVE: H. Hershall

CONTRACTOR'S TOOL PUSHER: R. Kelly.

PUMPS

NO.	MANUFACTURER	TYPE	STROKE LENGTH
1.	NAT.	C-150	12"
2.			
3.			

CASING & LINER RECORD

SIZE	WT. & GR.	DEPTH SET FROM	DEPTH SET TO	PERFORATIONS FROM	PERFORATIONS TO	CEMENT USED	OTHER
7"	20 J-55	KB	345			130	3% CACL2

TIME DISTRIBUTION—HOURS

	MORN	DAY	EVE
DRILLING ACTUAL	4 3/4	4	6 3/4
REAMING			
CIRCULATING			
TRIPS	2 1/2		1
DEVIATION SURVEY			
TEST B.O.P			1/4
CUT OFF DRILL LINE			
REPAIR RIG	1/2	4	
CORING			
WIRE LINE LOGGING			
OTHER	1/4		1/4
FISHING			
COMPLETING (A) PERFORATING			
(B) RUNNING TUBING			
(C) SWABBING			
(D) TESTING			
(E) ACIDIZING			
(F) ADDITIONAL			
TOTALS	8	8	8

TIME SUMMARY (OFFICE USE ONLY)

CONTRACTOR'S TIME HRS: 24

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 8

CUMULATIVE ROTATING HRS.

MORNING TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD		
33	STANDS DP	984.32 FT.	RUN NO.	1	2
	SNGLS. DF	FT.	SIZE	6 1/4	6 1/4
16	D.C. 1 3/4 ID 4 3/4 OD	466.33 FT.	MFG.	H.W	H.W.
			TYPE	OSC3	OSC16
	RMR BODY OD	FT.	NOZ. NO.	3	3
	STB BODY OD	FT.	NOZ. SIZE	11	12
1	SUBS 4 3/4 OD	1.00 FT.	SER. NO	986	7714
	BIT OR C.B.	FT.	DEPTH OUT	1432	
		FT.	CUMULATIVE HOURS RUN	16 1/4	3 3/4
	KELLY DOWN	31 FT.	COND. OF BIT	3-2-1	
	TOTAL	1483 FT.	REAMER CUTTER NO.		
	WT. OF STRING	24 LBS.	TYPE		

DRILLER: C. L. Paquette

HRS. DRLD.	CORE NO.	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT. ON BIT 1000#	PUMP PRESS.	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN
4 3/4		1423	1483		120	15	850	5 1/2	64			

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

REMARKS

12:00	DRILL. 12:30	
12:30	12:45	SERVICE RIG
12:45	1:45	DRILL.
1:45	3:45	TRIP FOR BIT
3:45	5:00	DRILL
5:00	5:30	W. O. PUMP
5:30	8:00	DRILL.

MUD RECORD

TIME	12:00	4:00	6:00
WEIGHT	9.4	9.5	9.5
VISC	35	38	39
W.L.-C.C.			5.8
FLTR. CK.			12.0
PH			9/32
SD. CONT.			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
GEL	600		

DAY TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD		
	STANDS DP	FT.	RUN NO.	2	
	SNGLS. DP	FT.	SIZE	6 1/4	
16	D.C. 1 3/4 ID 4 3/4 OD	466.33 FT.	MFG.	HW.	
			TYPE	OSC-16	
	RMR BODY OD	FT.	NOZ. NO	3	
	STB BODY OD	FT.	NOZ. SIZE	12	
1.	SUBS OD	1.00 FT.	SER. NO.	7714	
	BIT OR C.B.	FT.	DEPTH OUT		
		FT.	CUMULATIVE HOURS RUN	9 3/4	
	KELLY DOWN	FT.	COND. OF BIT	Running	
	TOTAL	FT.	REAMER CUTTER NO.		
	WT. OF STRING	26000 LBS.	TYPE		

DRILLER: Jim Ross.

HRS. DRLD.	CORE NO.	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT. ON BIT 1000#	PUMP PRESS.	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN
4		1483	1540.		110.	18000	850	5	62			

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

REMARKS

8:00	8:15	Drill
8:15	12:15	Serv Rig & Work on Trans.
12:15	4:00	Drill.

MUD RECORD

TIME	8:00 AM	12 noon	2 PM
WEIGHT	9.2	9.2	9.2
VISC	42	36.	38.
W.L.-C.C.	7.8.		
FLTR. CK.	9/32		
PH	11.5		
SD. CONT.			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
Gel	2100		

EVENING TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD		
	STANDS DP	FT.	RUN NO	2	
	SNGLS. DP	FT.	SIZE	6 1/4	
16	D.C. 1 3/4 ID 4 3/4 OD	466.33 FT.	MFG.	H.W	
			TYPE	Jet	OSC-16
	RMR BODY OD	FT.	NOZ. NO.	3	
	STB BODY OD	FT.	NOZ. SIZE	12	
	SUBS OD	FT.	SER NO	7714	
	BIT OR C.B.	FT	DEPTH OUT	1648	
		FT.	CUMULATIVE HOURS RUN	14 1/4	
	KELLY DOWN	17. FT.	COND. OF BIT		
	TOTAL	FT.	REAMER CUTTER NO.		
	WT OF STRING	28000 LBS.	TYPE		

DRILLER: L. E. Desenhardt.

HRS. DRLD.	CORE NO.	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT. ON BIT 1000#	PUMP PRESS	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN
6 1/2		1240	1648		100	18.	850	5	68			

DEVIATION RECORD: DEPTH 1540 | DEV. 1/2 | DIRECTION | DEPTH | DEV | DIRECTION | DEPTH | DEV | DIRECTION

REMARKS

4:00	4:30	Rig + Check BOP & Survey
4:30	11:00	Drill
11:00	12:00	Hoist for Bit

MUD RECORD

TIME	4:00	6:00	8:00
WEIGHT	9.1	9.0	9.1
VISC	37	35	37
W.L.-C.C.			
FLTR CK.			
PH			
SD. CONT			

Lost 30 bbls mud to formation 1635'-1645'

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
Gel	$8.00		
Lignite	$2.00		
Spersene	$100		
Saw Dust	7 sacks.		

C.P.—38 (10/63)

DAILY DRILLING REPORT

REPORT NO. 8 DATE March 6/69

OPERATOR	LOCATION LSD.	SEC.	TWP.	RGE.	W4	WELL NAME	No.	PROVINCE
SHELL CANADA LIMITED	LAT 60° 14'	41.26"	20N	116° 01'	32.29"	SHELL H.B GRUMBLER	L-5	~~A~~ NWT.

CONTRACTOR	RIG No.	DRILL PIPE STRING NO. SIZE	TOOL JOINT OD / TYPE THD.
SEDCO	94		

OPERATOR'S REPRESENTATIVE: H. Kershell

CONTRACTOR'S TOOL PUSHER: L. Kulaly

PUMPS

NO.	MANUFACTURER	TYPE	STROKE LENGTH
1.	NAT	C-150	12
2.			
3.			

CASING & LINER RECORD

SIZE	WT. & GR.	DEPTH SET FROM	DEPTH SET TO	PERFORATIONS FROM	PERFORATIONS TO	CEMENT USED	OTHER
7	20 J-55	KB	345			130	3% CACL2

TIME DISTRIBUTION—HOURS

	MORN	DAY	EVE
DRILLING ACTUAL	3¾	4.	7¾
REAMING			
CIRCULATING			
TRIPS			
DEVIATION SURVEY	¼	½	¼
TEST	2½		¼
CUT DR			
R.	½	¾	
CO			
WIRE LINE LOGGING			
OTHER Drill plug & shoe		2¾	
FISHING			
COMPLETING (A) PERFORATING			
(B) RUNNING TUBING			
(C) SWABBING			
(D) TESTING			
(E) ACIDIZING			
(F) ADDITIONAL			
TOTALS	8	8	8

TIME SUMMARY (OFFICE USE ONLY)

CONTRACTOR'S TIME HRS: 24

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 7

CUMULATIVE ROTATING HRS.

MORNING TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD	
11	STANDS DP	FT.	RUN NO.	
	SNGLS. DP	FT.	SIZE	
16	D.C. 1¾ ID 4¾ OD	486.32½ FT.	MFG.	
			TYPE	
	RMR BODY OD	FT.	NOZ. NO.	
	STB BODY OD	FT.	SIZE	
1	SUBS 4¾ OD	1.00 FT.	SER. NO	
	BIT OR C.B.	FT.	DEPTH OUT	
		FT.	CUMULATIVE HOURS RUN	
	KELLY DOWN	8. FT.	COND. OF BIT	
	TOTAL	805. FT.	REAMER CUTTER NO.	
	WT. OF STRING	20. LBS.	TYPE	

DRILLER C. L. Paquette.

HRS. DRLD.	CORE NO.	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT. ON BIT 1000#	PUMP PRESS.	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN
3¾		345	805		180	15	800	5	68			

DEVIATION RECORD: DEPTH 670 DEV. ½ | DEPTH | DEV. | DIRECTION | DEPTH | DEV. | DIRECTION

REMARKS

12:00	~~2:30~~	PRESSURE TEST PIPE RAMS & HYDRILL TO 1000 P.S.I.
	2:30	FIX LEAKS & TEST M.S.O.
2:30	3:00	WORK ON LIGHT PLANT.
3:00	4:00	DRILL OUT CEMENT PLUG + SHOE - WORK ON PUMP
4:00	6:45	DRILL
6:45	7:00	SURVEY
7:00	8:00	DRILL.

Pressure Test:
Blind rams: manifold, 1000 PSI, 15 min.
Kelly cock, Pipe rams, hydril, 1000 PSI
Test motor shut off.
W.R.A.

MUD RECORD

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

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

DAY TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD	
21	STANDS DP	FT.	RUN NO.	1
	SNGLS. DP	FT.	SIZE	6¼
16	D.C. ID 1 OD	466.33 FT.	MFG.	HW
			TYPE	OSC3J
	RMR BODY OD	FT.	NOZ. NO	3
	STB BODY OD	FT.	SIZE	11
1.	SUBS OD	1.00 FT.	SER. NO.	986
	BIT OR C.B.	FT.	DEPTH OUT	
		FT.	CUMULATIVE HOURS RUN	7¾
	KELLY DOWN	FT.	COND. OF BIT	
	TOTAL	1129. FT.	REAMER CUTTER NO.	
	WT. OF STRING	22000 LBS.	TYPE	

DRILLER

HRS. DRLD.	CORE NO.	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT. ON BIT 1000#	PUMP PRESS.	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN
		805	1129		160.	2000	850	5.				

DEVIATION RECORD: DEPTH 832 DEV. ½° | DEPTH 1072 DEV. 1½° | DIRECTION | DEPTH | DEV. | DIRECTION

REMARKS

800.	815	Drill
815.	845	Serv Rig & Survey.
845	1045	Drill
1045	100.	Dump Tanks & Mud up.
100	130	Work on Pump.
130.	200	Mix Mud.
200	245	Drill. 300-400 Drill.
245	300	Survey

MUD RECORD

TIME	2 PM.
WEIGHT	9.0
VISC	44.
W.L.-C.C.	9.8.
FLTR. CK.	3/32
PH	9.0
SD. CONT.	

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
Gel	2000.		
Caustic	100.		
Sperseene	200.		
CMC.	100		

EVENING TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD	
	STANDS DP	FT.	RUN NO	1
31	SNGLS. DP	FT.	SIZE	6¼
16	D.C ID OD	466.33 FT.	MFG.	H.W
			TYPE	OSC3J
	RMR BODY OD	FT.	NO.	3
	STB BODY OD	FT.	SIZE	11
	SUBS OD	1.00 FT.	SER NO	986
	BIT OR C.B.	FT	DEPTH OUT	
		FT.	CUMULATIVE HOURS RUN	15¼
	KELLY DOWN	34. FT.	COND. OF BIT	
	TOTAL	1423 FT.	REAMER CUTTER NO.	
	WT OF STRING	26.000 LBS.	TYPE	

DRILLER G. G. Degenhardt.

HRS. DRLD.	CORE NO.	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT. ON BIT 1000#	PUMP PRESS	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN
7½		1129	1423		130	15M	900	5	68			

DEVIATION RECORD: DEPTH 1308 DEV. ¼ | DEPTH | DEV | DIRECTION | DEPTH | DEV | DIRECTION

REMARKS

4.00	4.15	Rig Serve + Check B.O.P.
4.15	7.45	Drilling
7.45	8.00	Survey
8.00	-12.00	Drilling

MUD RECORD

TIME	6.00	8.00
WEIGHT	9	9.1
VISC	39	40
W.L.-C.C.	7.3	7.3
FLTR. CK.	2/32	
PH	11	
SD. CONT		

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
Sperseene	#300		
Caustic	#50		

C.P.—38 (10/63)

DAILY DRILLING REPORT

REPORT NO. 7 DATE March 5/69

OPERATOR	LOCATION LSD. SEC. TWP. RGE. W.	WELL NAME	No.	PROVINCE
SHELL CANADA LIMITED	Lat. 60° 14' 44.26" Long. 116° 01' 32.29"	Shell H.B. Gambler L-05	L-5	N.W.T.

CONTRACTOR	RIG No.	DRILL PIPE STRING NO. SIZE	TOOL JOINT OD / TYPE THD.
SEDCO			

OPERATOR'S REPRESENTATIVE	CONTRACTOR'S TOOL PUSHER
H. Henshall	R. Kielaly

PUMPS

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

CASING & LINER RECORD	SIZE	WT. & GR.	DEPTH SET FROM	DEPTH SET TO	PERFORATIONS FROM	PERFORATIONS TO	CEMENT USED	OTHER
	7	20# J-55	0	345			130	37. Ca Cl2 1 sack Calcond

TIME DISTRIBUTION—HOURS

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

TIME SUMMARY (OFFICE USE ONLY)

CONTRACTOR'S TIME HRS: 24

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 6

CUMULATIVE ROTATING HRS.

MORNING TOUR

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

DRILLER C. L. Paquette.

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

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

REMARKS

12:00 8:00 W.O.E.

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

MUD & CHEMICALS ADDED: TYPE / AMT. / TYPE / AMT.

DAY TOUR

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

DRILLER L. Ross.

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

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

REMARKS

8:00 4:00 Nipple up.

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

MUD & CHEMICALS ADDED: TYPE / AMT. / TYPE / AMT.

EVENING TOUR

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

DRILLER C. G. Degenhardt

HRS. DRLD.	CORE NO.	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT. ON BIT 1000#	PUMP PRESS	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN
		350:										

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

REMARKS

4.00 6.30 Nipple up.
6.30 8.00 Change Larkin Ell in Mudline.
8.00 8.30 Pressure Test Blind Rams @ 1000 Hold Okay
8.30 10.00 Run in Hole.
10.00 11.00 Thaw out rat Hole + Try to get same Lower.
11.00 11.30 Install Kelly Cock
11.30 11.45 Pressure Test Kelly Cock.
11.45 12.00 Pick up Single + Prepare to Test Pipe Rams.

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

MUD & CHEMICALS ADDED: TYPE / AMT. / TYPE / AMT.

C.P.—38 (10/63)

DAILY DRILLING REPORT

REPORT NO. 6 DATE Mar. 4/69

OPERATOR	LOCATION LSD. 41 SEC. TWP. RGE. W.	WELL NAME	No.	PROVINCE
SHELL CANADA LIMITED	Lat 60°14' 26" Long 116° 61' 32.29"	Shell H.B. Chamber 2-05	L-5	NWT

CONTRACTOR	RIG No.	DRILL PIPE STRING NO. SIZE	TOOL JOINT OD / TYPE THD.
SEDCO	94		

OPERATOR'S REPRESENTATIVE	CONTRACTOR'S TOOL PUSHER
J. Marshall	R. Ridaly.

PUMPS

NO.	MANUFACTURER	TYPE	STROKE LENGTH
1.	Ell NAT.	C-150-8	12
2.			
3.			

CASING & LINER RECORD	SIZE	WT. & GR.	DEPTH SET FROM	DEPTH SET TO	PERFORATIONS FROM	PERFORATIONS TO	CEMENT USED	OTHER
	7	20#	0	345'			130	3% Ca Cl2
								1 inch Cellosead

TIME DISTRIBUTION—HOURS

	MORN	DAY	EVE
DRILLING ACTUAL	7 3/4	5 3/4	2
REAMING			
CIRCULATING			1/2
TRIPS		1/2	1
DEVIATION SURVEY		1/2	
TEST B.O.P			
CUT OFF DRILL LINE			
REPAIR RIG			
~~CORING~~ Casing			1 1/2
WIRE LINE LOGGING			
OTHER W.O.C.			2 1/4
FISHING			
COMPLETING (A) PERFORATING			
(B) RUNNING TUBING			
(C) SWABBING			
(D) TESTING			
(E) ACIDIZING			
(F) ADDITIONAL			
TOTALS	8	8	8

TIME SUMMARY (OFFICE USE ONLY)

CONTRACTOR'S TIME HRS: 24

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. 5

MORNING TOUR

NO.	DRILLING ASSEMBLY			BIT RECORD	
	STANDS DP		FT.	RUN NO.	7A
	SNGLS. DP		FT.	SIZE	8 3/4
6	D.C. ID			MFG.	H.W.
	D.C. OD	175	FT.	TYPE	OWV
	RMR BODY OD		FT.	NOZ. NO.	
	STB BODY OD		FT.	NOZ. SIZE	
	SUBS OD		FT.	SER. NO	9206
	BIT OR C.B.		FT.	DEPTH OUT	
			FT.	CUMULATIVE HOURS RUN	18 1/2
	KELLY DOWN	38	FT.	COND. OF BIT	Run
	TOTAL	213	FT.	REAMER CUTTER NO.	
	WT. OF STRING	12	LBS.	TYPE	

DRILLER C. L. Paquette.

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

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

REMARKS

12:00	12:15 SERVICE RIG
12:15	8:00 DRILL

Ran 11 jts J-55 20# ST&C new 7" casing @ float shoe + 1 centralizer 334.49' Landed @ landing jt. @ 345.02' K.B.
Cemented @ 130 sax const. cement + 3% Ca Cl2 + 1 inch Cellosead
Plug down @ 9:45 P.M. By Howco Good Returns - Hole stayed full.

MUD RECORD

TIME		2 AM	8 A.M
WEIGHT		8.7	8.7
VISC		29	29
W.L.-C.C.			
FLTR. CK.			
PH			
SD. CONT.			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

DAY TOUR

NO.	DRILLING ASSEMBLY			BIT RECORD		
	STANDS DP		FT.	RUN NO.	7A	8A
	SNGLS. DP		FT.	SIZE	8 3/4	8 3/4
7	D.C. ID			MFG.	HW	HW
	D.C. OD		FT.	TYPE	OWV	OWV
	RMR BODY OD		FT.	NOZ. NO		
	STB BODY OD		FT.	NOZ. SIZE		
	SUBS OD		FT.	SER. NO.	9206	9201
	BIT OR C.B.		FT.	DEPTH OUT	213	
			FT.	CUMULATIVE HOURS RUN	19 1/2	
	KELLY DOWN		FT.	COND. OF BIT		
	TOTAL		FT.	REAMER CUTTER NO.		
	WT. OF STRING	14000	LBS.	TYPE		

DRILLER Jim Ross.

HRS. DRLD.	CORE NO.	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT. ON BIT 1000#	PUMP PRESS.	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN
		213.			120.	all		5.				

DEVIATION RECORD: DEPTH 213. / DEV. 1/2 / DIRECTION / DEPTH 299 / DEV. 3/4 / DIRECTION / DEPTH / DEV. / DIRECTION

REMARKS

800	Serv Rig & Survey.
830	Drill
945	Trip for Bit
1015	Drill
1215	Lost Gas & Mix Mud.
115	Drill
130	Survey.
145.	Drill.

MUD RECORD

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

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

EVENING TOUR

NO.	DRILLING ASSEMBLY			BIT RECORD	
	STANDS DP		FT.	RUN NO	8A
	SNGLS. DP		FT.	SIZE	8 3/4
11	D.C. ID			MFG.	H.W
	D.C. OD		FT.	TYPE	OWV
	RMR BODY OD		FT.	NOZ. NO.	3
	STB BODY OD		FT.	NOZ. SIZE	
	SUBS OD		FT.	SER NO	9201
	BIT OR C.B.		FT	DEPTH OUT	350
			FT.	CUMULATIVE HOURS RUN	6 1/2
	KELLY DOWN		FT.	COND. OF BIT	Used.
	TOTAL	1	FT.	REAMER CUTTER NO.	
	WT OF STRING	14000	LBS.	TYPE	

DRILLER C. G. Degenhardt.

HRS. DRLD.	CORE NO.	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT. ON BIT 1000#	PUMP PRESS	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN
2		325	350		120	all		5				

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

REMARKS

4.00	4.15	Rig Service
4.15	6.15	Drill
6.15	6.30	Condition mud
6.30	7.00	Dummy trips
7.00	7.15	Circulate
7.15	7.45	Hoist to run casing
7.45	8.45	Rig to run casing
9.15	9.45	Cement and displacement plug

945-12.00 W.O.C.
Plug down @ 9.45 P.M.
Rig casing 9.45-9.15

MUD RECORD

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

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
Cell	300#		
Caustic	50#		

C.P.—38 (10/63)

DAILY DRILLING REPORT

REPORT NO. 5 DATE Mar. 3/69

OPERATOR	LOCATION LSD.	SEC.	TWP.	RGE.	W.	WELL NAME	No.	PROVINCE
SHELL CANADA LIMITED	Lat. 60° 14'	4,20	LONG 116° 01'	32.24"		H.B. Gumbler L-05	L-5	N.W.T.

CONTRACTOR	RIG No.	DRILL PIPE STRING NO. SIZE	TOOL JOINT OD / TYPE THD.
SEDCO			

OPERATOR'S REPRESENTATIVE: H. Henshall

CONTRACTOR'S TOOL PUSHER: R. Kelly

PUMPS

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

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

TIME DISTRIBUTION—HOURS

	MORN	DAY	EVE
DRILLING ACTUAL		7½	7¾
REAMING	7¾		
CIRCULATING			
TRIPS		½	
DEVIATION SURVEY			
TEST B.O.P			
CUT OFF DRILL LINE			
REPAIR RIG			
CORING			
WIRE LINE LOGGING			
OTHER	¼		¼
FISHING			
COMPLETING (A) PERFORATING			
(B) RUNNING TUBING			
(C) SWABBING			
(D) TESTING			
(E) ACIDIZING			
(F) ADDITIONAL			
TOTALS			

TIME SUMMARY (OFFICE USE ONLY)

CONTRACTOR'S TIME HRS: 24

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 4

CUMULATIVE ROTATING HRS.

MORNING TOUR

NO.	DRILLING ASSEMBLY			BIT RECORD	
	STANDS DP		FT.	RUN NO.	
	SNGLS. DP		FT.	SIZE	
	D.C. ID			MFG.	
	D.C. OD		FT.	TYPE	
	RMR BODY OD		FT.	NOZ. NO.	
	STB BODY OD		FT.	NOZ. SIZE	
	SUBS OD		FT.	SER. NO	
	BIT OR C.B.		FT	DEPTH OUT	
			FT.	CUMULATIVE HOURS RUN	
	KELLY DOWN		FT.	COND. OF BIT	
	TOTAL	104	FT.	REAMER CUTTER NO.	
WT. OF STRING			LBS.	TYPE	

DRILLER: C. G. Paquette

HRS. DRLD.	CORE NO.	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT. ON BIT 1000#	PUMP PRESS.	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN
					120	10		5"				

DEVIATION RECORD:

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

REMARKS

12.00 12:15 RIG SERVICE

12:15 8:00 REAM 7⅞ TO 9⅞

MUD RECORD

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

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

DAY TOUR

NO.	DRILLING ASSEMBLY			BIT RECORD		
	STANDS DP		FT.	RUN NO.	6.	7
	SNGLS. DP		FT.	SIZE	9⅞	8¾
	D.C. ID			MFG.	HW.	HW.
	D.C. OD		FT.	TYPE		DWU
	RMR BODY OD		FT.	NOZ. NO		
	STB BODY OD		FT.	NOZ. SIZE		
	SUBS OD		FT.	SER. NO.	3033	9206
	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: Jim Loss

HRS. DRLD.	CORE NO.	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT. ON BIT 1000#	PUMP PRESS.	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN
7½		104	118.		110	all.		5.				

DEVIATION RECORD:

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

REMARKS

8.00 12.30 Drill

12.30 1.00 Hoist for Bit + Run in New Bit.

1.00 Drill.

MUD RECORD

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

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

EVENING TOUR

NO.	DRILLING ASSEMBLY			BIT RECORD	
	STANDS DP		FT.	RUN NO	7
	SNGLS. DP		FT.	SIZE	8¾
4	D.C. ID	114.		MFG.	H.W
	D.C. OD		FT.	TYPE	G.W.V.
	RMR BODY OD		FT.	NOZ. NO.	
	STB BODY OD		FT.	NOZ. SIZE	
	SUBS OD		FT.	SER NO	9206
	BIT OR C.B.		FT	DEPTH OUT	
			FT.	CUMULATIVE HOURS RUN	16¾
	KELLY DOWN	260	FT.	COND. OF BIT	
	TOTAL	134	FT.	REAMER CUTTER NO.	
WT OF STRING			LBS.	TYPE	

DRILLER: C. G. Dornhardt.

HRS. DRLD.	CORE NO.	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT. ON BIT 1000#	PUMP PRESS	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN
7¾		118	134	Clay	110	all.	150	5	66			

DEVIATION RECORD:

DEPTH	DEV.	DIRECTION	DEPTH	DEV	DIRECTION	DEPTH	DEV	DIRECTION
/								

REMARKS

4.00 4.15 Rig Service.

4.15 12.00 Drill

MUD RECORD

TIME			
WEIGHT	8.60		
VISC	86		
W.L.-C.C.	44.		
FLTR CK.			
PH			
SD. CONT			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

C.P.—38 (10/63)

DAILY DRILLING REPORT

REPORT NO. 4 DATE March 2/69

OPERATOR	LOCATION	WELL NAME	No.	PROVINCE
SHELL CANADA LIMITED	LSD. Lat. 60° 14' SEC. 41.26" TWP. Long 116° RGE. 01 W. 32.29"	Shell H.B. Drumble L-5		NWT

CONTRACTOR: SEDCO — RIG No. 94

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

OPERATOR'S REPRESENTATIVE: H. Kendall — CONTRACTOR'S TOOL PUSHER: K. Kelly

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

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

TIME DISTRIBUTION—HOURS

	MORN	DAY	EVE
DRILLING ACTUAL	7	7¾	3
REAMING			
CIRCULATING			
TRIPS	¼	¼	½
DEVIATION SURVEY			¼
TEST B.O.P			
CUT OFF DRILL LINE			
REPAIR RIG SER.	¼		¼
CORING			
WIRE LINE LOGGING			
OTHER	½		2
FISHING			
COMPLETING (A) PERFORATING			
(B) RUNNING TUBING			
(C) SWABBING			
(D) TESTING			
(E) ACIDIZING			
(F) ADDITIONAL			
TOTALS	8	8	8

TIME SUMMARY (OFFICE USE ONLY)

CONTRACTOR'S TIME HRS: 24

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 3

CUMULATIVE ROTATING HRS.

MORNING TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD	
	STANDS DP	FT.	RUN NO.	4
	SNGLS. DP	FT.	SIZE	9⅞
	D.C. ID		MFG.	
	D.C. OD	FT.	TYPE	OSC1G
	RMR BODY OD	FT.	NOZ. NO.	
	STB BODY OD	FT.	NOZ. SIZE	
	SUBS OD	FT.	SER. NO	RR
	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: C. L. Pagnotta

HRS. DRLD.	CORE NO.	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT. ON BIT 1000#	PUMP PRESS.	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN
7		72	82		120							

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

REMARKS

12:00	12:15	RIG SERVICE.
12:15	12:30	DRILL.
12:30	1:00	HOLE CAVING MAKE CONN.
1:00	4:45	DRILL
4:45	5:00	TRIP TO CHECK BIT
5:00	8:00	DRILL

MUD RECORD

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

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

DAY TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD		
	STANDS DP	FT.	RUN NO.	4	5
	SNGLS. DP	FT.	SIZE	9⅞	7⅞
	D.C. ID		MFG.		
	D.C. OD	FT.	TYPE	OSC-1G	
	RMR BODY OD	FT.	NOZ. NO		
	STB BODY OD	FT.	NOZ. SIZE		
	SUBS OD	FT.	SER. NO.	RR	RR
	BIT OR C.B.	FT.	DEPTH OUT		
		FT.	CUMULATIVE HOURS RUN		
	KELLY DOWN	FT.	COND. OF BIT		
	TOTAL	FT.	REAMER CUTTER NO.		
	WT. OF STRING	LBS.	TYPE		

DRILLER: [illegible]

HRS. DRLD.	CORE NO.	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT. ON BIT 1000#	PUMP PRESS.	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN
7¾		82	94									

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

REMARKS

8.00	Drill 9⅞ hole.
3.00	Hoist & Run 7⅞
3.15	Drill 7⅞ hole.

MUD RECORD

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

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
Gel	1500#		
Caustic	50#		
Lime	50#		

EVENING TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD		
	STANDS DP	FT.	RUN NO	5	6
	SNGLS. DP	FT.	SIZE	7⅞	9⅞
2	D.C. 27D		MFG.	H.W.	OSC-3
	D.C. 6" OD	52 FT.	TYPE		R-1
	RMR BODY OD	FT.	NOZ. NO.		
	STB BODY OD	FT.	NOZ. SIZE		
	SUBS OD	FT.	SER NO	R.R.	R.T.
	BIT OR C.B.	FT	DEPTH OUT	104	
		FT.	CUMULATIVE HOURS RUN	5¾	
	KELLY DOWN	FT.	COND. OF BIT	Dull	
	TOTAL	98 FT.	REAMER CUTTER NO.		
	WT OF STRING	LBS.	TYPE		

DRILLER: C. G. Degenhardt.

HRS. DRLD.	CORE NO.	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT. ON BIT 1000#	PUMP PRESS	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN
5		94	104	Limestone + Dolomite	80	all	150	5"				

DEVIATION RECORD: DEPTH 98 / DEV. ½ / DIRECTION / DEPTH / DEV / DIRECTION / DEPTH / DEV / DIRECTION

REMARKS

4.00-5.00	Drill
5.00	5.15 Rig Service
5.15-3.30	Run Survey + Conn.
3.30-9.30	Drill 7⅞ Hole
9.30-10.00	Trip for Bit
10.00	Ream 7⅞ Hole To 9⅞

MUD RECORD

TIME	6.00		
WEIGHT	8.6		
VISC	32		
W.L.-C.C.			
FLTR CK.			
PH			
SD. CONT			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
Gel	#1000		
Lime	#25		
Sawdust	5 sx		

C.P.—38 (10/63) **DAILY DRILLING REPORT** REPORT NO. DATE March 1/69

OPERATOR: SHELL CANADA LIMITED	LOCATION LSD. SEC. TWP. RGE. W.	WELL NAME: Shell H.B. Dumble L-5	No. / PROVINCE: NWT
CONTRACTOR: Ledco	RIG No. 94	DRILL PIPE STRING NO. SIZE	TOOL JOINT OD / TYPE THD.
OPERATOR'S REPRESENTATIVE: RW Miller	CONTRACTOR'S TOOL PUSHER: R. Kilcaly.		

PUMPS

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

CASING & LINER RECORD

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

TIME DISTRIBUTION—HOURS

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

TIME SUMMARY (OFFICE USE ONLY)

CONTRACTOR'S TIME HRS:

OPERATOR'S TIME:

HRS. W/D.P:

HRS WO/D.P:

HRS STANDBY

WIRE LINE RECORD

REEL NO

NO OF LINES SIZE

FEET SLIPPED

FEET CUT OFF

PRESENT LENGTH

TON MI. or TRIPS SINCE LAST CUT

CUMULATIVE TON MI. or TRIPS

NO. OF DAYS FROM SPUD

CUMULATIVE ROTATING HRS.

MORNING TOUR

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

DRILLER: C. L. Pagnotta.

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

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

REMARKS

12:00	3:00	DRILL RAT HOLE
3:00	4:00	HOLE CAVING - MIX MUD.
4:00	7:00	DRILL RAT HOLE.
7:00	8:00	WORK KELLY SOCK INTO RAT HOLE.

MUD RECORD

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

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
GEL	2000		
CAUSTIC	50		
Lime	50		

DAY TOUR

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

DRILLER

HRS. DRLD.	CORE NO.	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT. ON BIT 1000#	PUMP PRESS.	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN
6¼		32.	48.									

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

REMARKS

800.	Serv Rig
815.	Rig out Rotary Swivel
945.	Drill 9⅞ hole.

MUD RECORD

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

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

EVENING TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD		
	STANDS DP	FT.	RUN NO	3A.	4A.
	SNGLS. DP	FT.	SIZE	9⅞	9⅞
2	D.C. ID / OD	26.20 FT.	MFG.	H.W.	Fa
			TYPE		X16
	RMR BODY OD	FT.	NOZ. NO.		
	STB BODY OD	FT.	NOZ. SIZE		
	SUBS OD	FT.	SER NO	R.T.	R.T.
	BIT OR C.B.	FT	DEPTH OUT	54	
		FT.	CUMULATIVE HOURS RUN	8½	4¾
	KELLY DOWN	72. FT.	COND. OF BIT		
	TOTAL	72. acct.	REAMER CUTTER NO.		
WT OF STRING		LBS.	TYPE		

DRILLER: C. G. Degenhardt.

HRS. DRLD.	CORE NO.	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT. ON BIT 1000#	PUMP PRESS	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN
7¼		48	72		110.	all	150	6½	62			

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

REMARKS

4.00		Rig Serv
4.15	- 6.30	Drill
6.30	6.45	Change Bits
6.45	11.30	Drill
11.30	12.00	Make Connection (Hole Caving.

MUD RECORD

TIME	8.00		
WEIGHT	8.7		
VISC	33		
W.L.-C.C.			
FLTR CK.			
PH			
SD CONT			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

C.P.—38 (10/63)

DAILY DRILLING REPORT

REPORT NO. DATE Feb 28/69

OPERATOR	SHELL CANADA LIMITED
CONTRACTOR	SEDCO
RIG No.	94
OPERATOR'S REPRESENTATIVE	RW Miller.
CONTRACTOR'S TOOL PUSHER	R. Kealy.
LOCATION LSD. SEC. TWP. RGE. W.	
WELL NAME	SHELL HB GR UMBLER
No.	L-5
PROVINCE	NWT.

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

PUMPS

NO.	MANUFACTURER	TYPE	STROKE LENGTH
1.	NAT	C150B	12.
2.			
3.			

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

TIME DISTRIBUTION—HOURS

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

TIME SUMMARY (OFFICE USE ONLY)

CONTRACTOR'S TIME HRS:

OPERATOR'S TIME:

HRS. W/D.P:

HRS WO/D.P:

HRS STANDBY

WIRE LINE RECORD

REEL NO

NO OF LINES SIZE

FEET SLIPPED

FEET CUT OFF

PRESENT LENGTH

TON MI. or TRIPS SINCE LAST CUT

CUMULATIVE TON MI. or TRIPS

NO. OF DAYS FROM SPUD

CUMULATIVE ROTATING HRS.

MORNING TOUR

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

DRILLER Steve Scott

HRS. DRLD.	CORE NO.	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT. ON BIT 1000#	PUMP PRESS.	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN
		0	20									

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

REMARKS

12:00	12:15	RIG SER.
12:15	1:45	RIG TO SPUD & BREAK SUBS.
1:45	4:00	DRILL

SPUDDED @ 1:45 A.M.

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

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
water.			

DAY TOUR

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

DRILLER C. L. Paquette

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

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

REMARKS

8:00	3:00	DRILL
3:00	4:00	RIG UP POWER SWIVEL TO DRILL RAT HOLE

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

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

EVENING TOUR

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

DRILLER

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

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

REMARKS

4[illegible]	Drill Rat Hole w/ Power Swivel.
12[illegible]	

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

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
Gel	700 #		
Caustic	100 #		
Lime	50 #		

C.P.—38 (10/63)

DAILY DRILLING REPORT

[redacted] REPORT NO. DATE FEB '27

OPERATOR	LOCATION LSD. SEC. TWP. RGE. W.	WELL NAME	No.	PROVINCE
SHELL CANADA LIMITED		SHELL HB ERUMBLER	L-5	NWT.

CONTRACTOR	RIG No.	DRILL PIPE STRING NO. SIZE	TOOL JOINT OD / TYPE THD.
SEDCO			

OPERATOR'S REPRESENTATIVE: R.W. Miller.

CONTRACTOR'S TOOL PUSHER: R. Kielaly.

PUMPS NO.	MANUFACTURER	TYPE	STROKE LENGTH
1.	NAT.	C-150 B	12.
2.			
3.			

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

TIME DISTRIBUTION—HOURS

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

TIME SUMMARY (OFFICE USE ONLY)

CONTRACTOR'S TIME HRS:

OPERATOR'S TIME:

HRS. W/D.P:

HRS. WO/D.P:

HRS STANDBY

WIRE LINE RECORD

REEL NO

NO OF LINES SIZE

FEET SLIPPED

FEET CUT OFF

PRESENT LENGTH

TON MI. or TRIPS SINCE LAST CUT

CUMULATIVE TON MI. or TRIPS

NO. OF DAYS FROM SPUD

CUMULATIVE ROTATING HRS.

MORNING TOUR

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

DRILLER: Skip Scott

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

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

REMARKS

12:00	12:05	RIG SER.
12:15	2:30	DIG RAT HOLE
2:30	3:15	WORK ON CATHEAD + PUMP
3:15	6:00	DIG RAT HOLE

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

MUD & CHEMICALS ADDED TYPE	AMT.	TYPE	AMT.

DAY TOUR

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

DRILLER: C. L. Paquette

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

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

REMARKS

8:00	8:15	RIG SERV.
8:15	4:00.	DIG RAT HOLE

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

MUD & CHEMICALS ADDED TYPE	AMT.	TYPE	AMT.

EVENING TOUR

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

DRILLER: L. Rosa.

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

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

REMARKS

400.	415	Serv Rig
415	900.	Drill at Rat Hole.
905	1200.	Brake Lock & Rig to Spud.

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

MUD & CHEMICALS ADDED TYPE	AMT.	TYPE	AMT.