

HB SHELL WEST CAMERON F24

Drilling Authority No. 398
Date Issued 8 January 1970

WELL NAME HB Shell West Cameron ~~8-21~~
FIELD Area:
LOCATION: Unit 8 F Section 24 Grid 60-10-119-15
Latitude 60-07-25.3 N Longitude 119-19-41.6 W
U.W.L.R. 60-05-90 -- 119.32825
U.W.I. 300/216010119150
F

Rig Release Date:
Status:
Information Release Date:

CHANGE OF NAME:

DATE RECEIVED	INDEX
8/2/70	Application for a Drilling Authority.
	Well Completion Data.
	Well History Report.
4/2/70	Application to Amend a Drilling Authority.
	Application to change a Well Name.
2-4-70	Application to Abandon a Well ~~or Suspend Drilling~~ .
	Application to Alter Condition of a Well.
<i>Indicated</i>	Well History Supplement.
	Well Completion Data.
	Work-over Report No.
	Application to Commingle Production before Measurement.
	Data for Back Pressure Test on Natural Gas Wells - Monograph 7 Method.
	Data for Back Pressure Test on Natural Gas Wells - Vitter's Method.
	M.P.R. - Oil - Calculations.
	New Oil Well Report.
	New Gas Well Report.
	Well Inspection Report.
	Rig Inspection Report.
	Battery Inspection Report.
	Equipment Report.
	Well Card.
	New Service Well Report.
	Monthly Water Flood Operations Report
	Monthly Water Receipts and Disposal of Fluids Report
	Logs. Large scale..... Small scale.....



Drilling Authority No. 398
Date issued January 8, 1970

DEPARTMENT OF INDIAN AFFAIRS AND NORTHERN DEVELOPMENT
OIL AND MINERAL DIVISION

WELL COMPLETION DATA

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

Well name and number **HB Shell West Cameron F-24**
Permit No. _____ Lease No. **70-65**
Shell Canada Ltd. Exploratory Licence No. **101**
(Permitter, Licensee, Lessee)

Hudson's Bay Oil & Gas Co. Exploratory Licence No. **1268**
(Operator) **Ltd.**

Location: Unit **F** Section **24** Grid **60°10'N 119°15'W**
Latitude **60°03' 21.25"N** Longitude **119°19' 41.62"W**
Unique well identifier **300-P-246010119150**
Universal Well Location Reference **60.05590°N Lat. 119.32823°W Long.**

	DATE	DEPTH	Pool(s) Keg River, Chinchaga
Spudded	Jan 24/70		Interval(s) open to production NONE
Suspended			
Resumed Operations			
Finished Drilling	Feb 17/70	6234 ft KB	
Deepened			Elevation: Gr. 1995.8 ft KB 3009.0 ft.
Complete (gas/oil)			Rig No. 6
Abandoned	Feb 21/70	Surface	Drilling Contractor Thomson Drilling (1966) Ltd.
Rig released	Feb 21/70		Contractor's Business Licence No. 685

CASING RECORD

Casing Size (Inches)	Grade	Weight	Amount	Set at -	Sacks of Cement and Additives
1. 10 3/4	K-55	40.5#	1179ft.	1174 ft KB	1275 sacks of Type A Construction cement plus 2% CaCl₂. Good cement returns.
2.					
3.					
4.					
5.					
6.					

GEOLOGICAL TOPS

ELEVATION

CORE RECORD

	Depth	Sub-Sec	From	To	Rec.	From	To	Rec.
Banff	1621	+ 388	No cores cut					
Wabamun	1860	+ 149						
Winterburn	2741	- 732						
Jean Marie	3170	-1161						
Fort Simpson	4203	-2194						
Slave Point	5108	-3099						
Watt Mountain	5333	-3324						
Bistcho	5342	-3333						
Presquille	5558	-3549	1	Induction Electrical		6233	1174	
Lower Keg River	5800	-3791	1	Sidewall Neutron Porosity		6233	5000	
Chinchaga	5953	-3944	1	Formation Density		6233	5000	
Detrital	6086	-4077	1	BHC Sonic Gamma		6233	1174	
Pre-Cambrian	6223	-4214	2	Continuous Dipmeter		6229	3100	
Total Depth	6234	-4225	1	Fluid Identification		6233	5000	

CEMENTING RECORD (Plug, Squeeze, etc.)				PERFORATING RECORD (Bullet, Jet)				SERVICING RECORD (Acidizing, Flushing, etc.)			
Date	From	To	Remarks	Date	From	To	Remarks	Date	From	To	Remarks
Abandonment Plugs				NONE				NONE			
Feb. 20/70	6234	5450	Approval Feb. 20/70 Cement 380 sacks. Not felt.								
Feb. 20/70	5150	5050	Cement 75 sacks + 2% CaCl ₂ Felt at 5025 feet KB								
Feb. 21/70	1285	1150	Cement 110 sacks + 2% CaCl ₂ Felt at 1108 feet KB								
5 sacks plug in top of casing. Feb. 21/70 Steel plate welded across casing stub.											

DRILL STEM TESTS

No.	Date	Formation	From	To	V.O. Mins.	I.S.L. Mins.	F.S.L. Mins.	I.S.L.B.H.P.	F.S.L.B.H.P.	L.P.B.H.P.	F.F.B.H.P.	L.H.P.	F.H.P.	REMARKS
1	Feb 11/70	Keg River	5545	5570	60	60	60	2034	2032	354	1437	2738	2719	Misrun Good initial puff. Weak air blow decreasing throughout flow period 450 ft. of gassy drilling fluid 2565 ft. of sulphurous salt water
2	Feb 12/70	Keg River	5545	5570	60	60	60	2034	2032	354	1437	2738	2719	
3	Feb 19/70	Chinchaga	5940	5990	60	45	60	1412	934	69	66	2939	2922	Very weak air blow, dead in 5 minutes 30 feet of drilling fluid

ANALYSIS

ANALYSIS				PRESENT STATUS OF WELL			
Lab. No.	Sample	From	To	Source	Remarks	Oil	(Interval)
CAL-2-1747	Water	5545	5570	DST #2			
CAL-2-1747	Water	5940	5990	DST #3			
						Gas	(Interval)
						Dry and abandoned	
						Susp.	

Company: **Hudson's Bay Oil & Gas Co. Ltd.**

Signed by: *Dunlop*

Title: **District Engineer**

Date:

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



DEPARTMENT OF NORTHERN AFFAIRS AND NATIONAL RESOURCES

~~PROPERTY MANAGEMENT DIVISION~~
OIL & MINERAL 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 HB Shell West Cameron F-24
Location: Unit F Section 24 Grid 60°10', 119°15'
Latitude 60°03' 21.25" N Longitude 119°19' 41.62" N
From Established Reference Marker Shot Point 470 Line 162-762
Universal Well Location Reference: Lat. 60.05590N Long 119.32823W
Permit No. _____ Lease No. 70-65

Exploratory Licence No. 101 SHELL CANADA LTD.
(Permitter, Lessee, Lessor)

Date of commencement of proposed program February 20, 1970

OIL, GAS, AND WATER ENCOUNTERED
(Depths)

Oil at 5545-5570 Slight IN DST
Gas at 5545-5570 Slight IN DST
Water at 5545-5570 Slight IN DST
Total Depth 6234 Date of last operations Feb. 21, 1970
Present condition of well Completed as a dry hole, plugged and abandoned.

CASING RECORD

Casing Size O.D. Inches	Weight	Amount	Set At—	Sack of Cement and Additives	Amount Pulled
1. 10 3/4"	40.5	1179	1174' KBM	1275 Const. "A"	NIL
2.				Plus 2% CaCl	
3.					
4.					
5.					

PROPOSED ABANDONMENT PROGRAM

No.	Plug	Geological Formation	Number of Sacks of Cement	Remarks
	Position			
1	6234-5450	PC - Bistcho	380	Set Feb. 20/70
2	5150-5025	Slave Point/Ft. Simpson Shale	75	Set Feb. 20/70
3	1285-1108	Banff	110	Set Feb. 21/70
4	Surface Plug,	plate and riser with identification marker.		

The following logs have been run DILL, GR, BHC, SONIC, FDC & SNP, POROSITY LITHOLOGY, CONTINUOUS DIPMETER
Other operations proposed Cut off surface casing top 3ft. below ground level & cement with 5 sacks, weld plate on top of casing.
Operations to be carried out by Thomson Drilling (1966) LTD. Contractor Licence No. 685
Address 606-7th Avenue S.W. Calgary Address _____

Responsible Agent in field N. Dease 11630 Kingsway Avenue
Date at Edmonton, this 17 Day of March 1970
Signed by *[Signature]* Company Hudson's Bay Oil & Gas Co. Ltd.
Title District Superintendent Operator's Exploratory Licence No. 1268

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:

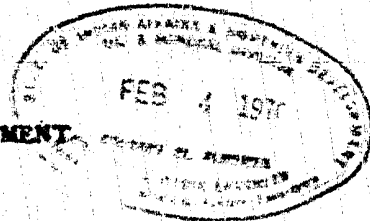
Confirming oral approval given on the 20th February 1970.

Dated 2nd April 1970 *[Signature]*
Oil Conservation Engineer

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



DEPARTMENT OF INDIAN AFFAIRS AND NORTHERN DEVELOPMENT
RESOURCE MANAGEMENT DIVISION



Application to Amend a Drilling Authority

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

In compliance with the "Canada Oil and Gas Land Regulations", application is hereby made to amend
Drilling Authority No. 398, concerning HB SHELL WEST CAMERON G-24

(Name and Number of Well)

The following amendments are required:

CHANGE OF WELL NUMBER: From - HB Shell West Cameron G-24
To - HB Shell West Cameron R-24

CHANGE OF LOCATION: From - Lat. $60^{\circ} 01' 20.3''$ N. Long. $119^{\circ} 19' 41.00''$ W.
To - Lat. $60^{\circ} 03' 21.25''$ N. Long. $119^{\circ} 19' 41.62''$ W.

From - Unit G, Section 24, Grid $60^{\circ} 10'; 119^{\circ} 15'$
To - Unit F, Section 24, Grid $60^{\circ} 10'; 119^{\circ} 15'$

CHANGE OF UNIVERSAL WELL LOCATION REFERENCE: From - Lat. 60.05564° N., Long. 119.3283° W.
To - Lat. 60.05590° N., Long. 119.3283° W.

CHANGE OF UNIQUE WELL IDENTIFIER: From - 300G246010119150
To - 300R246010119150

Reasons for the amendments:

Survey by Hamilton & Olsen Surveys Ltd. is now completed.

Dated at Edmonton, this 2nd day of February, 1970

Signed by

Title District Drilling Foreman

Company HEDSONS OIL AND GAS COMPANY LIMITED

(For Resource Management Division use only)

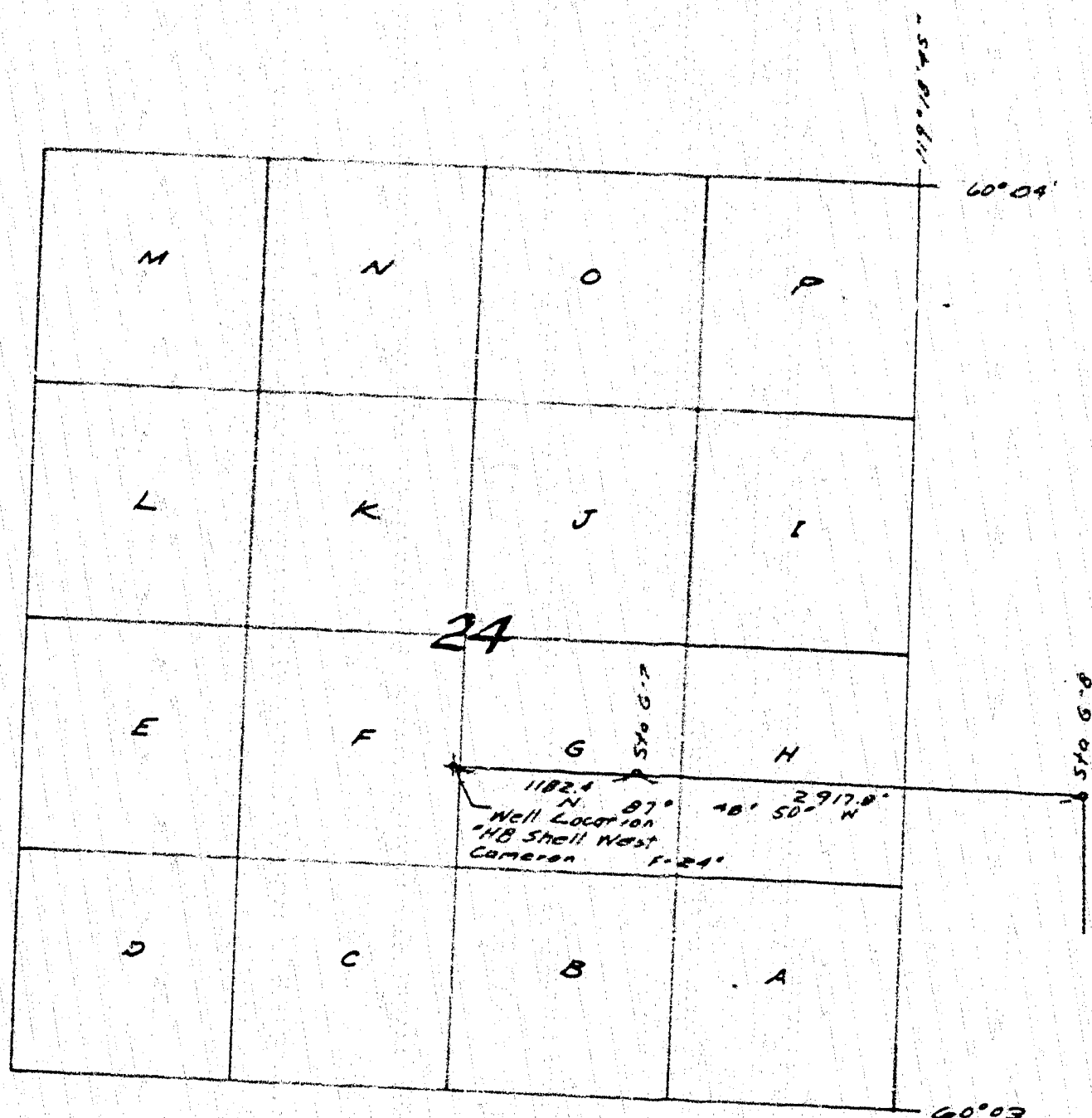
APPROVED

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

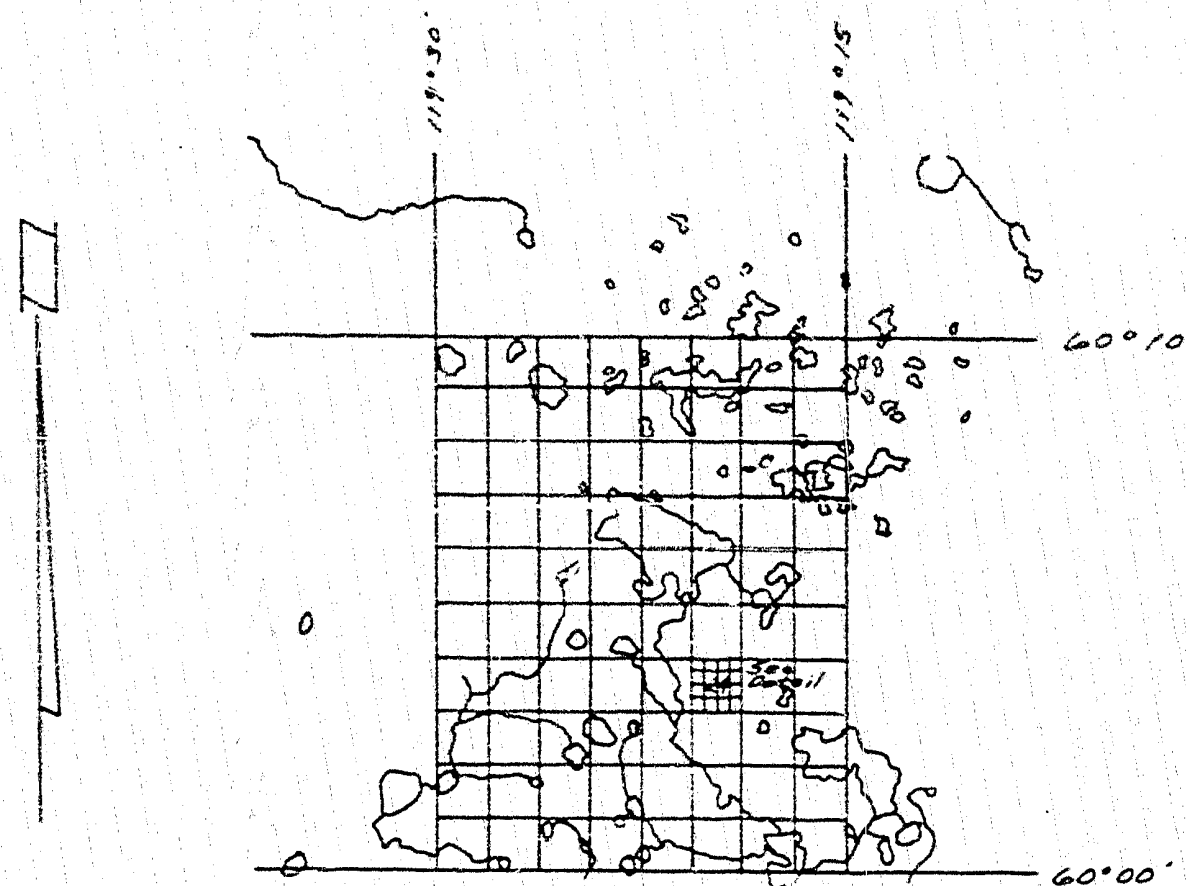
Date Feb 4, 1970

Oil Conservation Engineer

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



Detail
Scale: 1 inch = 1000 Feet



Insert
Scale: 1:250,000

Hudson's Bay Oil and Gas Company Limited
PLAN

SHOWING WELL LOCATION FOR

"HB Shell West Cameron F-24"

Lat. $60^{\circ}03'21.25''$ N. U.W.L.R.: 60.05590°
Long $119^{\circ}19'41.62''$ W. 119.32823°

NORTHWEST TERRITORIES

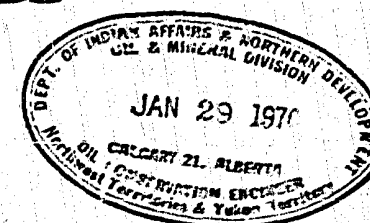
SCALE: As Shown

JANUARY: 1st-7th, 1970.

G.E.: 1995.8' Grid Area Lat $60^{\circ}10'$
Long $119^{\circ}15'$

For:
Hudson's Bay Oil and Gas Company Limited J. HEDINGER ~ D.L.S.

[Signature]
[Signature]



Hamilton & Olsen Surveys Ltd
Edmonton ~ Alberta
W.S. 5029, H40 186-53, 624-29
C.H.R.

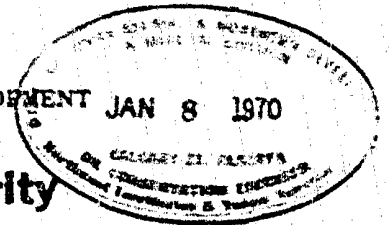
Drilling Authority No. 398

Project No.

File No.



DEPARTMENT OF INDIAN AFFAIRS AND NORTHERN DEVELOPMENT
RESOURCE MANAGEMENT DIVISION



Application for a Drilling Authority

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

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

Name and number of well HB Shell West Cameron G-24
Location: Unit G Section 24 Grid 60° 10' N; 119° 15' W.
Latitude 60° 03' 20.3" N Longitude 119° 19' 41" W.
From Established Reference Marker Shot point 470, Line 162-762
Universal Well Location Reference Lat. 60.05564° N., Long. 119.32806° W.
Elevation: Ground To follow K.B. To follow feet above sea-level.
Well is expected to produce from Middle Devonian formation at a depth of about 6200 feet. Expected total final depth 6225'.
Area assigned to well (for Oil Conservation Engineer's use only)

Permit No. Lease No. 70-65 Acreage 6396

Permittee, licensee, or lessee Shell Canada Ltd.

Exploratory Licence No. 101

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	Notes of Cement
1. 10-3/4"	40.5	K-55	New	500'	Sufficient cement volume plus 2% CaCl ₂ to return to surface.
2.					
3.					
4.					
5.					

Expected water, gas, and oil horizons and type of control equipment.
Anticipated production horizon will be from the Devonian. Control equipment will consist of proper drilling fluid and adequate blowout prevention equipment.

Well will be drilled with Rotary Rig No. 6 by Thomson Drilling (1966) Ltd.
(Drilling Contractor or company)

Responsible agent of applicant: Contractor's business Licence No. To follow.

At well N. Dease At registered office R. L. Levesque

Address 11630 Kingsway Ave. Address same

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

Dated at Edmonton this 6th day of January 1970

Signed by R. L. LEVESQUE Company Hudson's Bay Oil & Gas Co. Ltd.

Title District Superintendent Operator's Licence No. 1268

Dept. of IA&ND-RM Div. (3) (For Resource Management Division use only)
DGS, GCS, Shell, file

APPROVED

- The application has been examined and approved subject to the following conditions:—
The company will submit to this office, on Tuesday of each week, the latest reports received by radio on the progress of the well.
- During well drilling and testing operations, every effort shall be made to ensure

Dated 6th January 1970
Oil Conservation Engineer

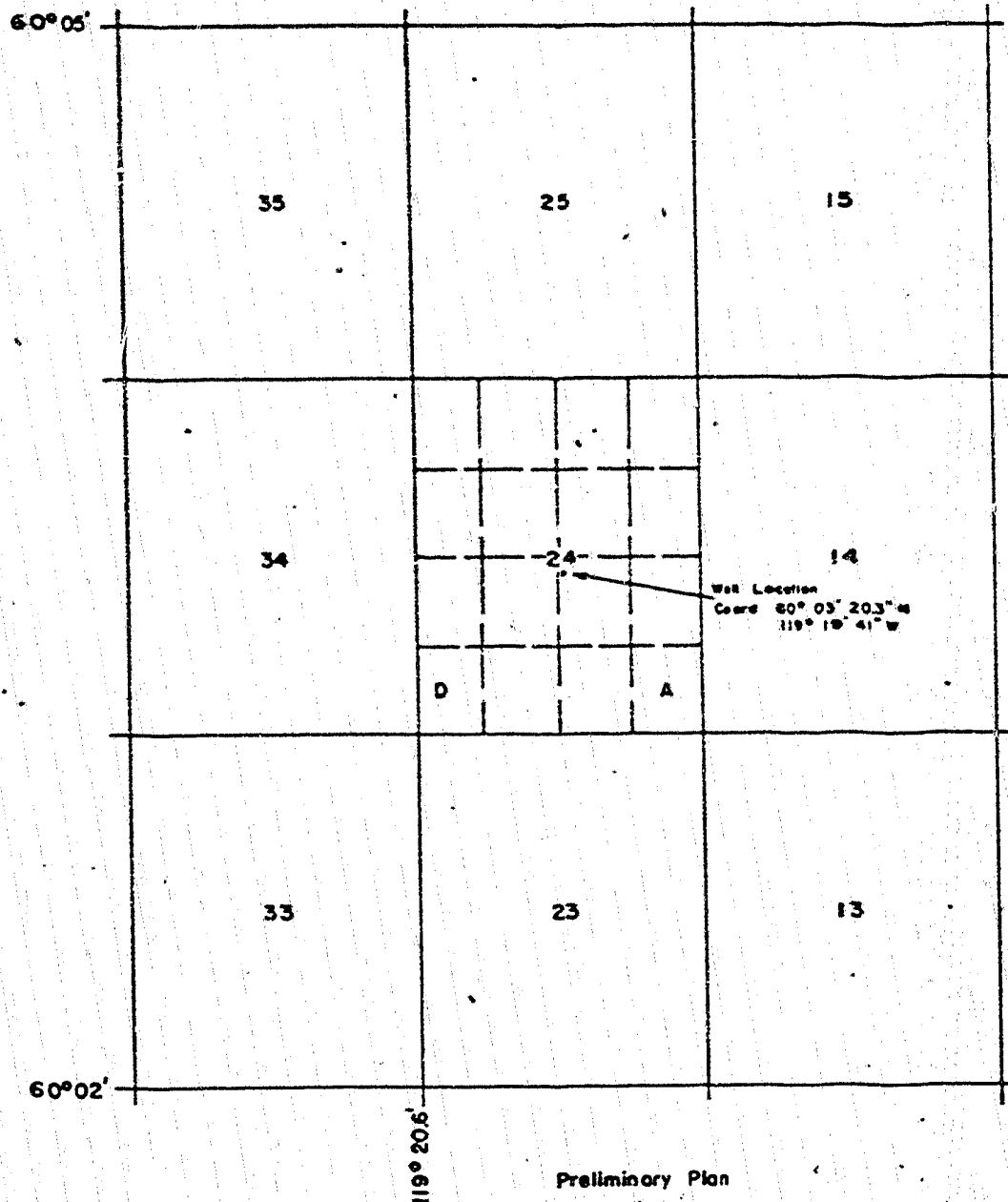
Forms to be submitted to Oil Conservation Engineer,
Department of Indian Affairs and Northern Development, Calgary, Alberta.
UNIQUE WELL IDENTIFIER - 3006246010119150

that drilling fluids, chemicals and wastes shall be disposed of or contained in a manner that will prevent the contamination of adjacent vegetation and surface or sub-surface waters.

3. We draw your attention to Sections 95 and 96 of the Canada Oil and Gas Land Regulations.
4. A description of the actual blowout prevention equipment shall be furnished.

B.H. Thomas

B.H. Thomas, Oil Conservation Engineer



Hudson's Bay Oil and Gas Company Limited

H. R. Smith
Production Engineer

J. H. Smith
District Analyst

Hudson's Bay Oil and Gas Company Limited
Production Dept. Pemberton District

Plan Showing Location of Wellsite
H.B. SHELL WEST CAMERON
G 24
REFERENCE 60°10' 119°15'W

Scale 3" = 2 mi. Drawn M.R. Drawing by
Date JAN. 5/70 Check

CHEMICAL ANALYSIS

FOR

HUDSON'S BAY OIL AND GAS COMPANY LIMITED

**HB SHELL WEST CAMERON F-24
EISTCHO LAKE AREA
NORTHWEST TERRITORIES**

CORE LABORATORIES - CANADA LTD.

Petroleum Reservoir Engineering

CALGARY - EDMONTON - REGINA



CORE LABORATORIES - CANADA LTD.
PETROLEUM RESERVOIR ENGINEERING
WATER ANALYSIS



File CAL-2-1747 Page 1 of 6

Company Hudson's Bay Oil and Gas Company Limited
Well HB Shell West Cameron F-24 K.B. Grd.
Location 60 03'21.25 N.L.
119 19'41.62 W.L. Field Bistcho Lake Area Province N.W.T.
Formation Keg River Interval 5545' - 5570'
Sampled from DST #2 (370' Above Tool) by Dale Clifton, Johnston Testers
Date sampled Feb. 12/70 Date analysed March 10/70 Analyst DS
Recovery 450' Sulphurous Gas-Cut, Oil-Flecked Mud, 2565' Sulphurous Salt Water.
Mud type Gel Water cushion Nil

Resistivity 0.07 Ohm-meters @ 75 °F
Specific gravity 1.0800 @ 80°F
pH 6.6 H₂S Present
Refractive Index 1.362 @ 70°F
Total Solids:
Calculated 117,041 mg/liter
By evaporation @ 110°C - mg/liter
By evaporation @ 180°C - mg/liter
At Ignition - mg/liter

MILLIGRAMS PER LITER

Na+K	Ca	Mg	Fe	Ba	Br	I	Cl	HCO ₃	SO ₄	CO ₃	OH
33,318	9,004	1,732	*Pres.	Abs.	-	-	71,163	1,010	814	Nil	Nil

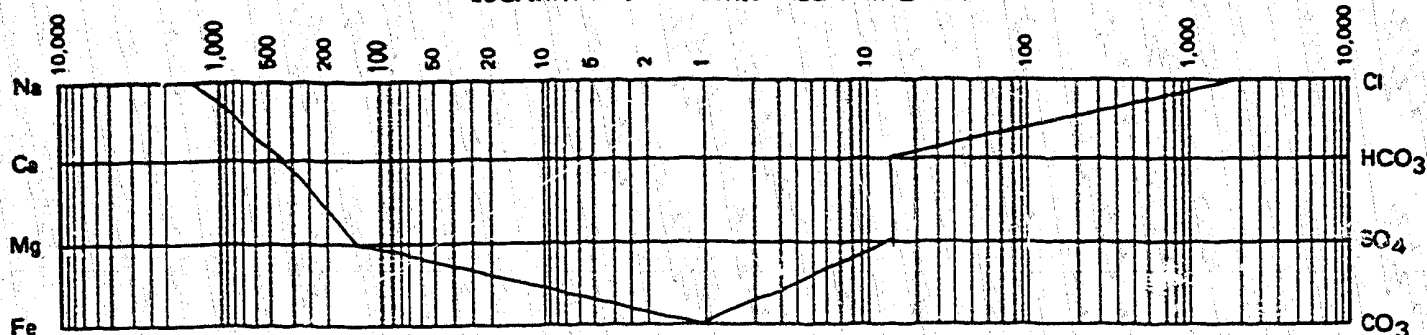
PER CENT CALCULATED SOLIDS

28.4	7.7	1.5	*Pres.	Abs.	-	-	60.8	0.9	0.7	Nil	Nil
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MEQ PER LITER

1448.6	449.3	142.4	*Pres.	Abs.	-	-	2006.8	16.6	16.9	Nil	Nil
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LOGARITHMIC PATTERN MEQ PER LITER





CORE LABORATORIES - CANADA LTD.
PETROLEUM RESERVOIR ENGINEERING
WATER ANALYSIS



File CAL-2-1747 Page 2 of 6

Company Hudson's Bay Oil and Gas Company Limited
Well HB Shell West Cameron F-24 K.B. Grd.
Location 60 03'21.25 N.L.
119 19'41.62 W.L. Field Bietcho Lake Area Province N.W.T.
Formation Keg River Interval 5545' - 5570'
Sampled from DST #2 (2665' Above Tool) by Dale Clifton, Johnston Testers
Date sampled Feb. 12/70 Date analysed March 10/70 Analyst DS
Recovery 450' Sulphurous Gas-Cut, Oil-Flecked Mud, 2565' Sulphurous Salt Water.

Mud type Gel Water cushion Nil
Total Solids:
Resistivity 0.073 Ohm-meters @ 74 °F Calculated 105,462 mg/liter
Specific gravity 1.0720 @ 60°F By evaporation @ 110°C mg/liter
pH 6.8 H₂S Present By evaporation @ 180°C mg/liter
Refractive Index 1.353 @ 70°F At ignition mg/liter

MILLIGRAMS PER LITER

Na+K	Ca	Mg	Fe	Ba	Br	I	Cl	HCO ₃	SO ₄	CO ₃	OH
29,764	7,878	1,820	*Pres.	Abs.	-	-	63,865	976	946	Nil	Nil

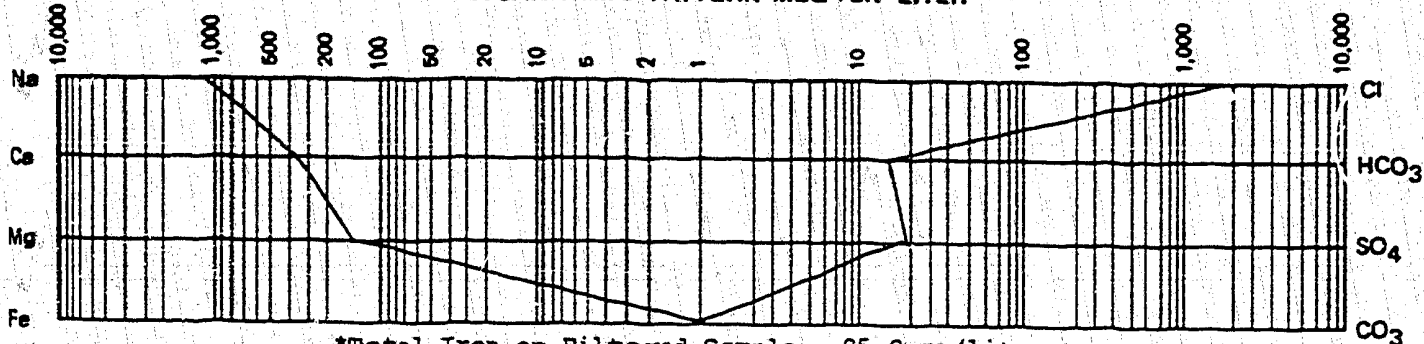
PER CENT CALCULATED SOLIDS

28.3	7.5	1.7	*Pres.	Abs.	-	-	60.7	0.9	0.9	Nil	Nil
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MEQ PER LITER

1294.1	393.1	149.6	*Pres.	Abs.	-	-	1801.0	16.0	19.8	Nil	Nil
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LOGARITHMIC PATTERN MEQ PER LITER



*Total Iron on Filtered Sample = 85.0 mg/liter



CORE LABORATORIES - CANADA LTD.
PETROLEUM RESERVOIR ENGINEERING
WATER ANALYSIS



File CAL-2-1747 Page 3 of 6

Company Hudon's Bay Oil and Gas Company Limited
Well HB Shell West Cameron F-24 K.B. Cnd.
Location 60 03'21.25 N.L.
119 19'41.62 W.L. Field Bistcho Lake Area Province N.W.T.
Formation Keg River Interval 5545' - 5570'
Sampled from DST #2 (Top of Fluid-3025' Above Tool) by Dale Clifton, Johnston Testers
Date sampled Feb. 12/70 Date analyzed March 10/70 Analyst DS
Recovery 450' Sulphurous Gas-Cut, Oil-Flecked Mud, 2565' Sulphurous Salt Water.
Mud type Gel Water cushion Nil

Resistivity 0.120 Ohm-meters @ 74 of

Specific gravity 1.0385 @ 60°F

pH 7.1 H₂S Absent

Refractive Index 1.342 @ 70°F

Total Solids:

Calculated 56,386 mg/liter

By evaporation @ 110°C - mg/liter

By evaporation @ 180°C - mg/liter

At ignition - mg/liter

MILLIGRAMS PER LITER

Na + K	Ca	Mg	Fe	Ba	Br	I	Cl	HCO ₃	SO ₄	CO ₃	OH
12,924	5,106	2,238	*Pres.	Abs.	-	-	34,441	1,215	462	Nil	Nil

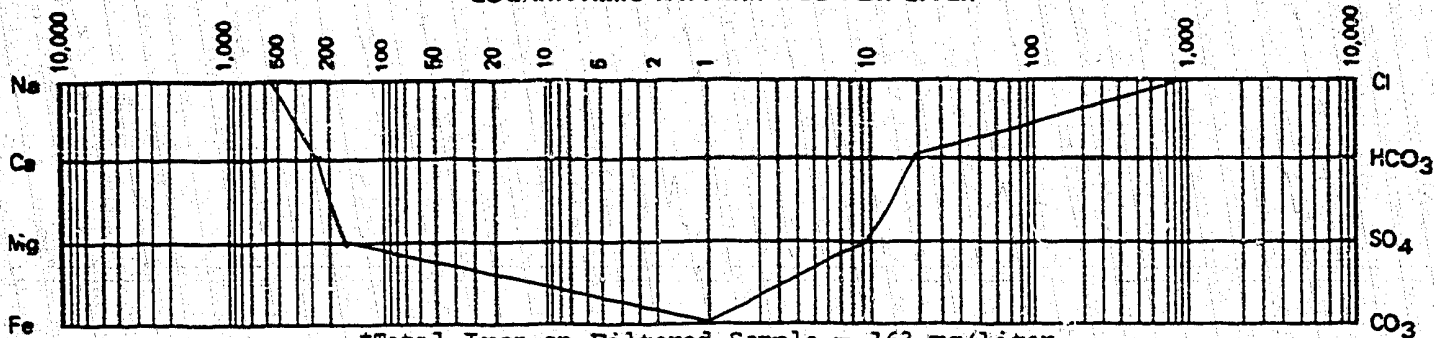
PER CENT CALCULATED SOLIDS

22.9	9.1	4.0	*Pres.	Abs.	-	-	61.0	2.2	0.8	Nil	Nil
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MEQ PER LITER

561.9	254.8	184.0	*Pres.	Abs.	-	-	971.2	19.9	9.6	Nil	Nil
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LOGARITHMIC PATTERN MEQ PER LITER





CORE LABORATORIES - CANADA LTD.
PETROLEUM RESERVOIR ENGINEERING
WATER ANALYSIS



File CAL-2-1747 Page 4 of 6

Company Hudson's Bay Oil and Gas Company Limited
Well MB Shell West Cameron F-24 K.B. Grd.
Location 60 03'21.25 N.L.
119 19'41.62 W.L. Field Bistcho Lake Area Province N.W.T.
Formation Keg River Interval 5545' - 5570'
Sampled from DST #2 (Top of Tool) by Dale Clifton, Johnston Testers
Date sampled Feb. 2/70 Date analysed March 10/70 Analyst DS
Recovery 450' Sulphurous Gas-Cut, Oil-Flecked Mud, 2565' Sulphurous Salt Water.
Mud type Gel Water cushion Nil

Resistivity 0.064 Ohm-meters @ 76 of
Specific gravity 1.0806 @ 80°F
pH 6.5 H₂S Present
Refractive index 1.356 @ 70°F

Total Solids:

Calculated 118,846 mg/liter
By evaporation @ 110°C - mg/liter
By evaporation @ 180°C - mg/liter
At ignition - mg/liter

MILLIGRAMS PER LITER

Na + K	Ca	Mg	Fe	Ba	Br	I	Cl	HCO ₃	SO ₄	CO ₃	OH
33,764	9,025	1,884	*Pres.	Abs.	-	-	72,258	991	924	Nil	Nil

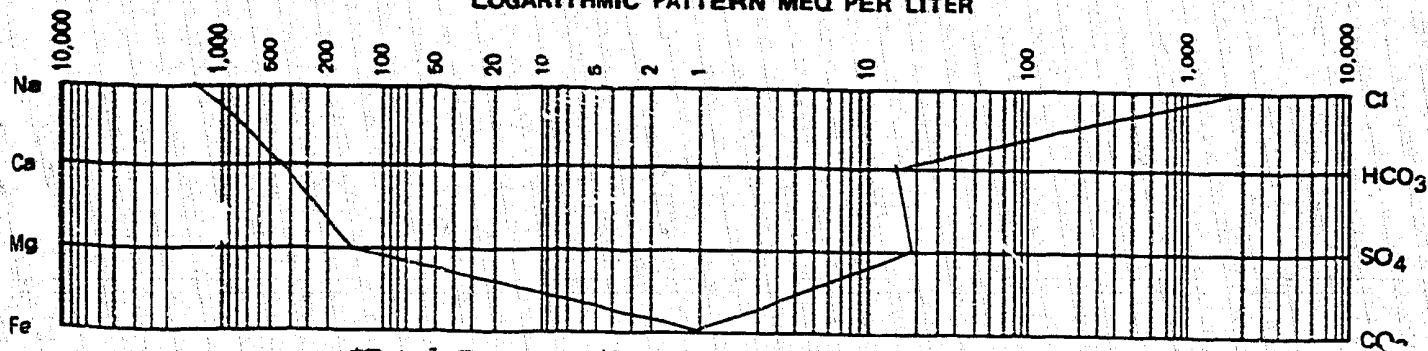
PER CENT CALCULATED SOLIDS

28.4	7.6	1.6	*Pres.	Abs.	-	-	60.8	0.8	0.8	Nil	Nil
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MEQ PER LITER

1468.0	450.3	154.9	*Pres.	Abs.	-	-	2037.7	16.3	19.2	Nil	Nil
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LOGARITHMIC PATTERN MEQ PER LITER



*Total Iron on Filtered Sample = 5.0 mg/liter



CORE LABORATORIES - CANADA LTD.
PETROLEUM RESERVOIR ENGINEERING



Company Hudson's Bay Oil and Gas Company Limited Page 5 of 6
Well HB Shell West Cameron F-24 File CAL-2-1747
Field Bistcho Lake Area, Northwest Territories Analyst DS
Location 60 03'21.25 N.L.
119 19'41.62 W.L. Elevation: K.B. _____ Grd. _____
Formation Chinchaga Depth 5940' - 5990-
Sampled from DST #3 (Top Sample) by Dale Clifton,
Johnston Testers
Sampling pressure _____ psig Sampling temp. _____ °F Ambient temp. _____ °F
Date sampled _____ Date received March 2/70 Date analysed March 10/70
Container pressure _____ Mud Gel Water cushion Nil
Recovery or flowrate: 30' Mud

Chloride 2,394 mg/l_{ce}

Resistivity 0.720 Ohm-meters @ 75°F



CORE LABORATORIES - CANADA LTD.
PETROLEUM RESERVOIR ENGINEERING



Company Hudson's Bay Oil and Gas Company Limited Page 6 of 6
Well HB Shell West Cameron F-24 File CAL-2-1747
Field Bistcho Lake Area, Northwest Territories Analyst DS
Location 60 03'21.25 N.L.
119 19'41.62 W.L. Elevation: K.B. _____ Grd. _____
Formation Chinchaga Depth 5940' - 5990'
Sampled from DST #3 (Bottom Sample @ Tool) by Dale Clifton
Johnston Testers
Sampling pressure _____ psig Sampling temp. _____ °F Ambient temp. _____ °F
Date sampled _____ Date received March 2/70 Date analysed March 10/70
Container pressure _____ Mud Cal Water cushion Nil
Recovery or flowrate: 30' Mud

Chloride 1,942 mg/liter

Resistivity 0.750 Ohm-meters @ 75°F

OIL AND GAS CONSERVATION BOARD (PROVINCE OF ALBERTA)

STANDARD SAMPLE INFORMATION SHEET

INFORMATION TO BE FORWARDED WITH EACH SAMPLE OF WATER, OIL OR GAS

(Please supply as much of the following information as possible. Please print clearly.)

Kind of sample (water, oil or gas): MUDMarks on sample container: # 1 - 2 - 3 + 4 WELL MARK & NUMBER FORMATION
+ INTERVALSample container: TRANSITION TESTER
DATE: FEB. 12/70Date: FEB. 12/70Operator: Hudson's Bay Oil & Gas Co. Ltd.Mailing address for results: 11630 Kingsway Ave Edmonton AB T6AWell name: NW 1/4 WEST CAMERONField or Area: NWT
WEST CAMERON HILL K.B. 20-7Located in: Twp. F 24 Sec. 24 Rge. W Mer. 114 Elev. 1145 Grd. 1145Sample obtained from (line, tubing, separator, etc.): DSTPressure: (a) at point of sampling psig (b) Gas Bomb pressure psigTemperature: (a) at point of sampling 120°F (b) Separator OF (c) Treater OFName of zone and formation: KRC RIVERMethod of Production: D.S.T. , Pump , Flowing , Swabbing , Other (specify) D.S.T. # 2, Interval 5545 to 5570 Water Cushion ft.Mud Type: lime , gyp base , salt , fresh water , oil base , other (specify) GELRecovery: 450' Sulfurous GAS-LT OIL FINERED MUD
2565' Sulfurous SALT WATERHeight sample taken above tool: # 1 - 3015' # 2 2650' # 3 1500'
4 AT TOP OF TUBSample chosen using hydrometer to show maximum or minimum density: Yes , No Well production at sampling time: Oil bpd; Gas MCFD; Water bpd.

Perforations or open hole interval:

Pressures: Reservoir , Tubing , Casing , Separator

REMARKS:

P. C. Stewart
(Signed)Hudson's Bay Oil & Gas Co. Ltd.
(Company)

OIL AND GAS CONSERVATION BOARD (PROVINCE OF ALBERTA)

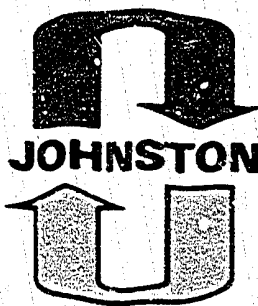
STANDARD SAMPLE INFORMATION SHEET

INFORMATION TO BE FORWARDED WITH EACH SAMPLE OF WATER, OIL OR GAS

(Please supply as much of the following information as possible. Please print clearly.)

Kind of sample (water, oil or gas): MudMarks on sample container: DST # 3 HB Shell West PARKROY F. 24
Interval 5740 - 5790 T.P. + B.T. Test Rec 30'Sample obtained from (line, tubing, separator, etc.): Date: Feb 17/70Operator: Hudsons Bay oil & Gas Co Ltd.Mailing address for results: 11630 Kingsway Ave EDMONTON ALTAWell name HB Shell West PARKROY F. 24 Field or Area: B.T.cho 24th
Located in: Ed. F Sec. 24 Twp. N Rge. W Mer. Elev. K.B. 2000.30
Grd. 2002.00Sample obtained from (line, tubing, separator, etc.): DRILL STEM TESTPressure: (a) at point of sampling psig (b) Gas Bomb pressure psigTemperature: (a) at point of sampling °F (b) Separator °F (c) Treater °FName of Zone and Formation: CHINCHENMethod of Production: D.S.T., Pump, Flowing, Swabbing, Other (specify) _____B.S.T. 3, Interval 5740 to 5790 Water Cushion _____ ft.Mud Type: lime _____, gyp base _____, salt _____, fresh water _____, oil base _____, other (specify) CEI BaseRecovery 30' " 1 " 2Height sample taken above tool: 30' and at top of TestSample chosen using hydrometer to show maximum or minimum density: Yes _____, No _____Well production at sampling time: Oil _____ bpd; Gas _____ MCFD; Water _____ bpd.Perforations or open hole interval: _____Pressure: Reservoir _____, Tubing _____, Casing _____, Separator _____REMARKS: _____Ch. Stewart
(Signed)Hudson's Bay oil & Gas Co. Ltd.
(Company)

TECHNICAL REPORT



TEST DATA						TOOL SEQUENCE		
Formation	Zone Thickness			Ft	Tool	Length	O.D.	
Interval	5545 To	5570 To	5570	Ft	P.O. SUB	1.10		
Type of Test	OPEN HOLE, BOTTOM HOLE.				D.P. SUB	.70		
Time Started in Hole	0700	Hrs	Tool Opened	Hrs	MFE TOOL	9.10		
First Flow	0	Min	Initial Shut In	0	BYPASS TOOL	3.00		
Second Flow	0	Min	Second Shut In		JARS	6.90		
Third Flow		Min	Final Shut In	0	SAFETY JOINT	1.75		
Pumped Loose Wt		Hrs	Out of Hole	1200	S.S. & PACKER	9.10		
Wt. Set on Packers		"	Pumped Loose Wt		T.C. & PACKER	5.40		
Description of Blow During Test					TOTAL	37.05		
NIL					STUB.	1.10		
					PERF.	8.00		
FLUID RECOVERY Was Test Reverse Circulated Yes					RECORDERS (2)	8.80		
Total Fluid Recovered					PERF.	5.00		
Description of Fluid Recovered					B.H. & PERF.	2.00		
NIL					TOTAL INTERVAL	24.90		

771 WEST AVERAGE ST. - CALGARY 26, ALBERTA. - PH. 354-1151

D 03842		PRESSURE DATA		FLUID SAMPLE REPORT	
INSTRUMENT NO.	AK1-2086	AK1-2115		Sample No.	
CAPACITY (cu. ft.)	4400	4600		Type	
INSTRUMENT DEPTH FT.	5454	5458		Depth	ft.
INSTRUMENT OPENING	OUTSIDE	CUTSIDE		Volume	
PRESSURE GRADIENT psi/ft.					
WELL TEMP. °F					
INITIAL HYDROSTATIC	A			Sample Pressure	psi at Surface
FIRST FLOW	B			Gravity	API (°) °F
	B-1			Gas-Oil Ratio	Cu. Ft. bbl.
INITIAL SHUT-IN	C				
SECOND FLOW	D				
	D-1 MISRUN, UNABLE TO REACH			Recovery	
SECOND SHUT-IN	E	BOTTOM.		Cu. Ft. Gas	
THIRD FLOW	F			cc. Oil	
	F-1			cc. Water	
FINAL SHUT-IN	G			cc. Mud	
FINAL HYDROSTATIC	H			Total Liquid cc	

PRESSURE INCREMENTS

[illegible]

38-11-4-16

HUDSON'S BAY OIL AND GAS CO. LTD.

WELL HISTORY REPORT

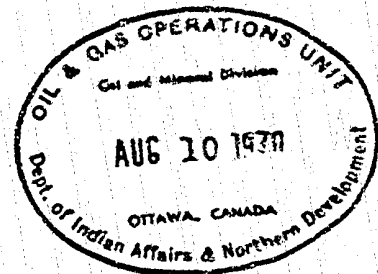
HB SHELL WEST CAMERON F-24

38-11-4-16

HUDSON'S BAY OIL AND GAS COMPANY LIMITED

WELL HISTORY REPORT

HB SHELL WEST CAMERON F-24

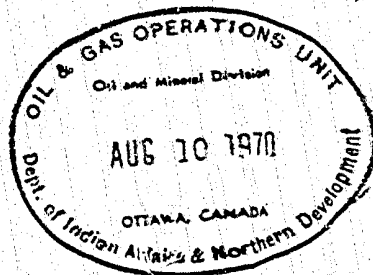


SIGNED:

L. P. [Signature]
DISTRICT SUPERINTENDENT

DATE:

April 27/70



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Section I	SUMMARY OF WELL DATA	Page I
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HB SHELL WEST CAMERON F-24

WELL HISTORY REPORT

Section I

SUMMARY OF WELL DATA

- a) Well Name and Number: HB Shell West Cameron F-24
- b) Permittee, Licencee or Lessee: Shell Canada Ltd.
- c) Name of Operator: Hudson's Bay Oil & Gas Co. Ltd.
11630 Kingsway Avenue
Edmonton 25, Alberta.
- d) Location: Unit F, Section 24, Grid Area:
60°10' N, 119°15' W.
Latitude: 60°03' 21.25"N
Longitude: 119°19' 41.62"W
- e) Co-ordinates: Lat. 60°03' 21.25"N
Long. 119°19' 41.26"W

Universal Well Location Reference:
60.05590°N Lat.
119.32823°W Long.
Unique Well Identifier: 300F246010119150
- f) Lease No. : 70-65
- g) Drilling Contractor: Thomson Drilling (1966) Ltd.
Rig No. 6
- h) Drilling Authority: No. 398 issued 8th January 1970.
- i) Classification: Exploratory
- j) Elevations: Ground - 1995.8 feet
KB - 2009.0 feet
- k) Spudded: January 24, 1970
- l) Completed Drilling: February 17, 1970
- m) Total Depth: 6234 feet KB
Plug Back Depth: To surface
- n) Well Status: Completed as a dry hole, plugged and abandoned
- o) Rig Released: February 21, 1970
- p) Hole Size: Surface - 15 inches 0 to 1174 feet KB
Final - 8 3/4" 1174 to 6234 feet KB
- q) Casing: Surface 10 3/4 inch OD, K-55, 40.5 lb.
Set at 1174 feet KB

Section IIGEOLOGICAL SUMMARY

a) Formation Tops:

<u>Marker</u>	<u>Log Depth</u>		<u>Sample Depth</u>	
	<u>Feet</u>	<u>KB</u>	<u>Feet</u>	<u>KB</u>
Banff	1621	+ 388		
Wabamun	1860	+ 149		
Winterburn	2741	- 732		
Jean Marie	3170	-1161		
Fort Simpson	4203	-2194	4194	-2185
Slave Point	5108	-3099	5110	-3101
Watt Mountain	5333	-3324	5403	-3394
Bistcho	5342	-3333		
Presquille	5558	-3549	5560	-3551
Lower Keg River	5800	-3791		
Chinchaga	5953	-3944	5980	-3971
Detrital	6086	-4077	6130	-4121
Pre-Cambrian	6223	-4214	6230	-4221
Total Depth	6234	-4225		

b) Cored Intervals:

No cores were cut.

Sample Description

- 4600 shale 100%, grayish green in color, generally fissile, slightly calcareous in part, soft. Occasional traces of greenish white micro-micaceous siltstone and dark brown shale. Also varying amounts (1 & 5%) of med. gy, soft chunky alightly calcareous shale.
- 4940-4950 shale 100%, 50% grayish gn. shale and dk. brown shale as above.
50% medium gray shale, micromicaceous, slightly calcareous, massive, hard, and brittle.
- (Note: drilling break at 4903')
Traces of light brown cryptocrystalline limestone.
- 5040 shale 100%, medium to dark brownish gray, slightly calcareous, dark speckled, massive, soft, silty.
- 5050 shale 100%, as above, trace of grayish white cryptocrystalline limestone.
- 5060 shale 100%, as above.
- 5070 shale 98% as above.
limestone 2%, light tan, cryptocrystalline.
- 5080 shale 96%, as above.
limestone 4%, cryptocrystalline, argillaceous, grayish white, tight.
- 5090 shale 98%, as above.
limestone 2%, as above.
- 5100 shale 98%, dark gray to black, blocky, soft.
limestone 2%, as above.
- 5110 shale 100%, dark gray to black, as above, phosphate nodules.
TOP SLAVE POINT (5110')
- 5120 shale 85%, as above.
limestone 15%, light grayish white, microcrystalline, no evidence of fossils or stain, tight.
- 5130 limestone 70%, as above.
(Slave Point) 30%, medium tan, microcrystalline to very fine, fossil remains (coral, molluscs), a slight amount of clear calcite infilling, tight, arenaceous. Half of a brachiopod shell.
- 5130 (circulated 50 minutes)
limestone 100%, white to tan, microcrystalline to very fine grained with the occasional very coarse shell, arenaceous, a trace of spar infilling, tight. Trace of dead stain upon dissolving and also appears very slightly dolomitic. Traces appear almost pelletal.
- 5140 limestone 100%, as above but no longer arenaceous.

- 5150 limestone 100%, tan, cryptocrystalline-microcrystalline with a very few v.f. particles.
Noticable lack of fossil debris of any kind, no stain, tight. Appears slightly dolomitic in part.
- 5160 limestone 100%, grayish white to tan, crypto-microcrystalline, slightly dolomitic in part. Lime mud with no fossil debris, clean and tight, trace spar, argillaceous.
- 5170 limestone 80% as above.
chert 20%, dark brown to black chert.
- 5180 limestone 90%, as above, with a very little, very fine crystalline. L.S. with some very poor intercrystalline porosity with bitumen.
chert 10%, chert, as above.
- 5190 limestone 100%, white to tan, crypto-micro x'ln, slightly dolomitic. Lime mud, scarce fossil evidence, appears to have some infilling with spar, slight indication of gastropods and algal remains, trace of pinpoint porosity with a trace of what appears to be calcite lining a vug.
- 5200 (trip sample)
limestone 100%, crypto-microcrystalline, light gray to tan, tight.
- 5210 limestone 100%, grayish white to medium brown, cryptocrystalline with some microcrystalline, evidence of spar filled fractures, very little fossil indication, clean and tight.
- 5220 limestone 100%, as above.
- 5230 limestone 10 %, as above, becoming dolomitic in part, trace of very poor intercrystalline porosity with bitumen, spar infilling.
- 5240 limestone 100%, as above, trace of white dolomite, some pieces entirely or partially coated with bitumen (possibly fractures).
- 5250 limestone 100%, as above.
- 5260 limestone 100%, light tan (slightly dolomitic) and medium brown, crypto-crystalline-microcrystalline, a few micro fractures bitumen infilled, only ghosts of a very few fossils, tight.
- 5270 limestone 100%, as above for 85%, plus 15% fine grained fossiliferous ls. infilled with spar.
- 5280 limestone 100%, dark brown crypto x'ln limestone with ghosts of fossil debris. A very little calcite infilling but predominantly no porosity.
- 5290 limestone 100%, grayish white to dark brown, predominantly crypto and micro-crystalline, some evidence of bitumen filled micro fractures, lithographic to ghostly fossiliferous and tight. Some bitumen and calcite infilling

in part slightly dolomitic.

- 5300 limestone 100%, as above.
- 5310 limestone 100%, as above.
- 5320 limestone 100%, white to grayish white, crypto to micro-crystalline, generally lithographic, non-fossiliferous, tight. Some evidence of calcite infilling.
- 5330 limestone 100%, white to light tan, crypto to micro crystalline, generally lithographic to chalky, some indication of molluscan fragments, some calcite infilling, tight.
- 5340 limestone 100%, as above.
- 5350 limestone 100%, as above.
- 5360 limestone 100%, white to light tan, chalky, crypto-microcrystalline, some calcite inclusions, tight.
- 5370 limestone 100%, as above, with 5% fine crystalline with poor to fair inter-crystalline porosity.
- 5380 limestone 100%, white to light tan, chalky to lithographic, crypto-micro-crystalline, some calcite blades and inclusions, tight.
- 5390 limestone 100%, as above.
- TOP WATT MTN. (5390?)
- 5400 limestone 100%, as above plus trace of very fine crystalline white limestone with poor intercrystalline porosity.
- 5410 limestone 100%, grayish white to medium tan, crypto to microcrystalline, lithographic to chalky, calcite inclusions. Tight. The grey lithographic limestone has some indication of being in contact with green shale. (Watt Mtn.?)
- TOP BISTCHO (5403'?)
- 5420 limestone 100%, as above, with some indication of bitumen filled micro-fractures.
- 5430 limestone 100%, as above.
- 5440 limestone 97%, as above, becoming very dolomitic. dolomite 3%, white cryptocrystalline, clean, tight.
- 5450 limestone 95%, light tan, crypto to microcrystalline, very dolomitic, some calcite inclusions, some indication of bitumen filled microfractures, clean tight.
- dolomite 5%, clean, white to light tan, microcrystalline, tight.

- 5460 limestone 65%, white cryptocrystalline, tight, scattered calcite infilling, very dolomitic.
dolomite 35%, white cryptocrystalline, tight.
- 5470 limestone 100%, white cryptocrystalline, lithographic, tight, clean.
- 5480 limestone 75%, white cryptocrystalline, scattered calcite infillings, lithographic, very dolomitic in part, clean tight.
dolomite 25%, white cryptocrystalline, clean, tight.
- 5490 limestone 50%, dolomitic, as above.
dolomite 50%, limey, as above, trace clear secondary ds.
- 5500 limestone 80%, dolomitic, as above.
dolomite 20%, limey, as above, trace clean secondary dolomite.
- 5510 dolomite 75%, light tan, cryptocrystalline, tight, limey.
limestone 25%, white to light tan, crypto-microcrystalline, lithographic to chalky, tight, dolic.
- 5520 dolomite 50%, as above.
limestone 50%, as above.
- 5530 dolomite 50%, as above with calcite infilling.
limestone 50%, as above.
- 5540 dolomite 70%, as above.
limestone 30%, as above, trace of clear white secondary dolomite.
- 5550 dolomite 80%, as above.
limestone 20%, as above, trace clean white secondary dolomite, tight.
- TOP PRESQU'ILE DOLOMITE (5554')
- 5560 dolomite 90%, pinkish white, limey, cryptocrystalline, some indication of vugs filled with calcite and clean white secondary anhydrite, tight.
limestone 10%, as above.
- 5570 dolomite 100%, pinkish white to white secondary, generally cryptocrystalline with micro to occasional very fine to coarse. White secondary dolomite could possibly line vugs. Also 1/2 to 1/4 inch chunks of bitumen coming over shaker. Drill bit dropped one foot at 5554'. Appears to drill rough and fast. Probably vuggy porosity with much bitumen infilling.
- 5580 dolomite 100% -
50% as above, good vuggy porosity.
50% fine grained, light tan, fair intercrystalline porosity (5%)
- 5590 (poor sample)
dolomite 100%, as above, fair to good vuggy porosity.

- 5600 dolomite 100% - 25% coarse white dolomite, fair to good vuggy porosity.
- 75% fine, medium tan, dolomite fair to poor intercrystalline porosity (5%).
- 5610 dolomite 100% - 40% coarse white dolomite, fair to good vuggy porosity.
60% fine to coarse, medium tan dolomite, fair to poor intercrystalline porosity (3%).
- 5620 dolomite 100% - 40% coarse white dolomite, poor to fair vuggy porosity.
- 60% fine, medium tan dolomite, poor inter x'ln porosity (3%).
- 5630 dolomite 100% - 95% fine crystalline, light tan, poor intercrystalline porosity (3%).
5% coarse crystalline, white poor to fair vuggy porosity.
- 5640 dolomite 100%, as above.
- 5650 dolomite 100%, as above.
- 5660 dolomite 100%, as above.
- 5670 dolomite 100%, as above.
- 5680 dolomite 100%, as above.
- 5690 dolomite 100%, as above.
- 5700 dolomite 100%, as above.
- 5710 dolomite 100% - 5% coarse crystalline, white poor to fair vuggy porosity.
90% light tan, fine crystalline, tight to poor intercrystalline porosity (3%).
5% dark brown, microcrystalline, tight.
- 5720 dolomite 100%, dark brown, microcrystalline, tight, a few traces of clear, medium coarse secondary dolomite on some chips - infilling (could be poor vuggy porosity).
- 5730 dolomite 100%, as above.
- 5740 dolomite 100%, dark brown, microcrystalline to very fine, hard, tight except for some white secondary dolomite indicating poor (3%) porosity.
- 5750 dolomite 100%, as above.
- 5760 dolomite 100%, light gray to light tan, micro to very fine grained, tight, some well formed selenite crystals (could have poor to fair vuggy porosity 5%)
Traces of white secondary dolomite.
- 5770 dolomite 100%, light tan, fine to medium grained, fair (5-8%) intercrystalline porosity, traces of white secondary dolomite and abundant selenite crystals (lining of vugs) with fair to good (8-10%) vuggy porosity.

- 5780 dolomite 100%, as above, becoming poor porosity to tight, micro to fine grained.
- 5790 dolomite 100%, light tan to dark brown, micro to medium grained, some white secondary dolomite infilling, few selenite crystals, poor intercrystalline porosity to tight, poor to fair vuggy porosity.
- 5800 (poor sample)
dolomite 100%, generally as above, becoming fine grained (micro) lighter in color, tight.
- 5810 (trip sample - poor)
dolomite 100% - 60% dark brown, cryptocrystalline, tight.
40% light gray to tan, micro to very fine crystalline,
poor (3%) intercrystalline porosity, some secondary white dolomite and
selenite indicating poor (5%) vuggy porosity.
- 5820 dolomite 100%, light tan to dark brown, micro to medium crystalline, poor intercrystalline porosity, white secondary dolomite and selenite indicating poor to fair vuggy porosity, slightly calcareous, very argillaceous.
- 5830 dolomite 50%, as above.
limestone 40%, grayish brown, dirty appearance, microcrystalline, fossil remnants appear as white calcite, dolomitic, slightly argillaceous, somewhat chalky in nature, tight.
- 5840 dolomite 50%, as above.
limestone 50%, as above.
- 5850 dolomite 60%, as above.
limestone 40%, as above.
- 5860 dolomite 65%, as above.
limestone 35%, as above.
- 5870 dolomite 50%, as above.
limestone 50%, as above.
- 5880 dolomite 50%, dark brown to black, microcrystalline, very argillaceous, becoming dolomitic shale, tight.
limestone 50%, light gray, microcrystalline, argillaceous, tight, calcite fossiliferous remains, crinoids, dolomitic.
- 5890 dolomite 30%, as above, becoming almost dolomitic silstone.
limestone 70%, as above.
- 5900 dolomite 20%, dark brown, crypto to microcrystalline, slightly argillaceous, tight.
limestone 70%, light gray, microcrystalline, somewhat chalky, slightly argillaceous, few calcite infilled fossil remnants, soft, tight.

TOP LIMESTONE (5897')

- 5910 limestone 100%, dark gray to dark brown, microcrystalline, very argillaceous in part, chalky in part, crinoids, indication of large mollusks or brachs, tight.
- 5920 limestone 100%, as above.
- 5930 limestone 100%, as above.
- 5940 limestone 100%, as above.
- 5950 limestone 100%, as above.
- 5960 limestone 100%, light gray to light brown, crypto to microcrystalline, chalky to dense, scattered clear calcite infillings, tight.

TOP CHINCHAGA (5969')

- 5970 limestone 100%, as above.
- 5980 limestone 50%, as above.
dolomite 50%, light gray to light brown, cryptocrystalline to microcrystalline, slightly calcareous, tight.
- 5990 dolomite 100%, light brown to light gray, microcrystalline, soft, tight.
Trace of secondary white dolomite, slightly anhydritic with some white anhydrite, some dark argillaceous streaks.
- 6000 dolomite 95%, as above.
anhydrite 5%, white, infillings and blebs, trace of chert.
- 6010 dolomite 95%, as above.
anhydrite 5%, as above.
- 6020 dolomite 90%, as above.
anhydrite 10%, as above.
- 6030 dolomite 65%, as above.
anhydrite 35%, as above.
- 6040 (very poor sample, but would appear to be as above)
- 6050 (very poor sample, contaminated with chemical, cavings)
dolomite 90%, as above.
anhydrite 10%, as above.
- 6060 (no sample)

Note: 6040 - 6060 - Shaker turned off as mud too badly clobbered, anhydrite could be as high as 70-80%.

- 6070 40% dolomite light grayish brown, crypto to microcrystalline, tight.
60% white massive anhydrite.
- 6080 60% dolomite as above.
40% white anhydrite.
- 6090 70% dolomite, light gray to light tan, cryptocrystalline, tight.
30% white anhydrite.
(Possibly some green shale?)
- 6100 60% dolomite, as above
30% anhydrite
10% green shale, fissile, pyritic. trace of quartz gns. in kaolin matrix?
- 6110 50% dolomite, light tan, dark brown, cryptocrystalline, tight.
18% anhydrite
30% green shale, generally massive, floating quartz grains.
2% free, subang coarse quartz grains.
- 6120 45% dolomite, light tan, dark brown, gray, cryptocrystalline, tight.
45% green shale, as above, floating quartz grains.
10% anhydrite as above.
- 6130 clastic detrital 100%, quartz grains, loose cemented, angular, pink and
green shale, possibly few feldspar grains, light to medium brown dolomitic
(caving?). Unable to tell if porous, but drilled fast - could have been
due to hardness (button bit).
- 6140 clastic detrital 100% - 90% clear coarse quartz grains, pink feldspar gns.
appears well silicified and tight.
10% green shale and medium brown limey dolomite.
- 6150 detrital - quartz 80%, coarse, clear, silicified, tight, some feldspar.
shale 20%, green, red, gray, fiss.
- 6160 detrital - quartz 80%, as above with some red feld.
shale 20%, red, green, floating quartz grains (red beds -
drilling fluid turned red)
- 6170 dolomite 80%, brownish white to light tan, cryptocrystalline, tight (cavings?)
detrital 20%, quartz, red and green shale as above, tight, feldspar trace
of white anhydrite.
- 6180 quartz 50%, m-c, clear and frosted.
shale 50%, red, abundant floating quartz gns.
- 6190 quartz 70%, as above.
shale 30%, red, as above.
- 6200 shale 100%, red, green, abundant floating quartz and feldspar gns.
- 6210 shale 100%, as above.
- 6220 shale 100%, as above.

6230

shale 95%, as above.
granite 5%, pink quartz, biotite, feldspar.

PRECAMBRIAN (6223')

6234

granite 100%, as above.

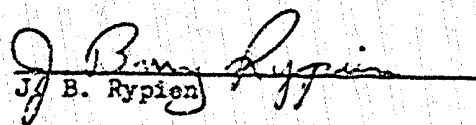
6234

(circulated 1 hour)
granite 100%, as above.

T.D. 6234'

Note: Samples not lagged, tops lagged.

Submitted by:


J. B. Rypien

JBR:ls

Section IIIENGINEERING SUMMARY

a) Report of Drill Stem Tests:

Three copies of DST's #1, 2 and 3 were forwarded to your Calgary office on April 21, 1970.

Chronological Summary of Drill Stem Tests
(Pressure Recorder Readings)

	<u>DST No. 1</u> <u>Feb. 11/70</u>	<u>DST No. 2</u> <u>Feb. 12/70</u>	<u>DST No. 3</u> <u>Feb. 19/70</u>
Formation	Keg River	Keg River	Chinchaga
Interval (Ft.-KB)	5545-5570	5545-5570	5940-5990
Initial Flow Times (Mins.)	M	5	5
Initial Shut-in Time (Mins.)	I	60	45
Final Flow Time (Mins.)	S	60	60
Final Shut-in Time (Mins.)	R	60	60
Initial Hydrostatic Press. (psi)	U	2738	2939
Initial Shut-in Press. (Psi)	N	2034	1912
Initial Flow Press. (Psi)		354	69
Final Flow Press. (Psi)		1437	66
Final Shut-in Press. (Psi)		2032	934
Final Hydrostatic Press. (Psi)		2719	2922

Flow Rate & Remarks:

DST #1 - Misrun. Unable to reach bottom. Bridged off 150 ft. above bottom. No pressures available.

DST #2 - Good initial puff. Weak air blow decreasing throughout flow period. Shut-in stabilized. No breakdown made.

DST #3 - Very weak air blow, dead in 5 minutes. Tool chased 4 feet during test.

Pipe Recovery and Remarks:

DST #1 - Misrun. No recovery. Tool bridged 150 ft. off bottom.

DST #2 - 450 ft. of gassy, very slightly oil cut drilling fluid. 2565 feet of sulphurous, salt water.

DST #3 - 30 feet of drilling fluid. Tool chased 4 feet during test.

b) Casing Record:

<u>Casing Size</u> (Inches)	<u>Grade</u>	<u>Weight</u> (lbs/ft.)	<u>Amount</u> (feet)	<u>Set at</u> (Feet KB)	<u>Cement and</u> <u>Additives</u>
10 3/4	K-55	40.5	1179	1174	1275 sacks of Type A Const. Cement plus 2% CaCl ₂ . Good returns.

c) Bit Record:

No.	Serial Number	Type	Size (Inches)	Hours Run	Depth In	Out	Footage	Make
1A		OSC	15	16	Surf.	598	598	Hughes
2A	17206	X3A	8 3/4	13½	598	1060	462	Hughes
3A	97664	OWV	8 3/4	4½	1060	1175	115	Hughes
4A	P39756	OSCRR	15	15½	598	1020	422	"
5A	TL155	OSC3	15	7½	1020	1174	154	"
1	17639	X1G	8 3/4	40½	1174	2682	1508	"
2	19716	X1G	8 3/4	30½	2682	3603	921	"
3	17104	X3A	8 3/4	37½	3603	4719	1116	"
4	17633	X1G	8 3/4	27½	4719	5193	474	"
5	20179	X55R	8 3/4	50½	5193	5570	377	"
6	10659	X7	8 3/4	26	5570	5801	231	"
7	20801	X55R	8 3/4	47½	5801	6173	372	"
8	79338	W7R	8 3/4	10½	6173	6234	61	"

d) Mud Report:

The mud system used the following:

Gel	96,600 lbs
Q-Broxin	4,150 lbs
Caustic Soda	3,150 lbs
Dextrid	1,200 lbs
Soda Ash	1,100 lbs
Cellex	550 lbs
Bennex	40 lbs
Lime	15 lbs

e) Deviation Record:

<u>Depth (Feet KB)</u>	<u>Deviation (Degrees)</u>
144	1/2
233	1/4
354	1/2
446	1
546	3/4
598	0
741	1
952	1/4
1020	1/2
1060	1/2
1077	1/4
1175	1/4
2046	1/2
2439	3/4
2682	1/2
3078	1/2
3383	1/2
3564	1/2
3807	3/4
4022	1/2
4730	5/8
4414	1/4
4564	1
4686	1 1/2
4719	1
4779	3/4
4870	1
5020	1/2
5193	3/4
5322	3/4
5343	1/4
5570	3/4
5801	1 1/2
6173	1/2

f) Abandonment Plugs:

Plug No.	Date	Interval (Feet KB)	Amount of Cement Used	Depth at which Plug Felt
1	Feb. 20/70	6234-5450	380 sacks	Not felt
2	Feb. 20/70	5150-5050	75 sacks*	5025
3	Feb. 21/70	1285-1150	110 sacks*	1108

* + 2% CaCl₂

On February 21, 1970, the Surface Casing was cut off 3 feet below ground level and a five (5) sack plug was cemented in the top of the surface casing. A steel plate was welded across the casing stub. Five (5) sack plugs were cemented in both the mouse hole and the rat hole.

Location marked with sign and post as per Section 15 (5) and (6) of Canada Oil and Gas Drilling and Production Regulations.

g) Lost Circulation Zones:

Lost 25 bbls of drilling mud in top of Slave Point formation at approximately 5107-5137 feet KB.

h) Report of Blowouts: None

Section IV LOGS

Three copies of each log were forwarded to your Calgary office on April 21, 1970.

Date	Run No.	Interval (Ft.KB)	Type	Scale
Feb. 17/70	1	6233-1174	IES	2"
Feb. 17/70	1	6233-5000	IES	5"
Feb. 17/70	1	6233-5000	SNP	2" & 5"
Feb. 17/70	1	6233-5000	FDC	2" & 5"
Feb. 17/70	1	6232-1174	BHC-SGR	2"
Feb. 17/70	1	6232-5000	BHC-SGR	5"
Feb. 17/70	1	6229-3100	Cont. Dipmeter	5"
Feb. 17/70	1	6233-5000	Fluid Identification	5"

Note: All the above logs were run by Schlumberger. Drillers depth and logger's depth are the same.

Section VANALYSIS

- a) Core Analysis: None cut
- b) Water Analysis:
Three copies of each water analysis for DST #2, 3 were sent to Calgary on April 21, 1970.
- DST #2 - Lab No. CAL-2-1747
DST #3 - Lab No. CAL-2-1747
- c) Gas Analysis: Not analyzed.
- d) Oil Analysis: Not analyzed.

Section VICOMPLETION SUMMARY

- a) Tubing Record: None
- b) Perforation Record: None
- c) Cementation Record:

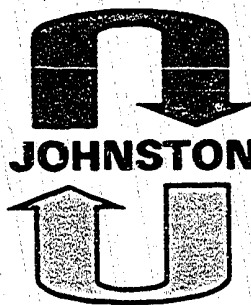
<u>Plug No.</u>	<u>Date</u>	<u>Interval (Feet KB)</u>	<u>Amount of Cement Used</u>	<u>Depth at which Plug Felt</u>
1	Feb. 20/70	6234-5450	380 sacks	Not felt
2	Feb. 20/70	5150-5050	75 sacks *	5025
3	Feb. 21/70	1285-1150	110 sacks *	1108

* + 2% CaCl₂

On February 21, 1970, the surface casing was cut off 3 feet below ground level and a 5 sack plug was cemented in the top of the surface casing. A steel plate was welded across the casing stub. Five (5) sack plugs were also cemented in both the mouse hole and the rat hole. Location marked with sign and post as per Section 15 (5) and (6) of "Canada Oil and Gas Drilling and Production Regulations".

- d) Acidization and Fracturing Record:
No stimulation work performed.
- e) Back Pressure and Production Tests:
None conducted.

TECHNICAL REPORT





TEST DATA						TOOL SEQUENCE		
Formation	Zone Thickness		Fr.	Tool	Length	O.D.		
Interval	5545 To	5570 T.D.	5570	Fr.	P.O. SUB	1.10		
Type of Test	OPEN HOLE, BOTTOM HOLE.				D.P. SUB	.70		
Time Started in Hole	1030	Hrs.	Tool Opened	1341	Hrs.	MFE TOOL	9.10	
First Flow	5	Min.	Initial Shut-In	60	Min.	BYPASS TOOL	3.00	
Second Flow	60	Min.	Second Shut-In		Min.	JARS	6.90	
Third Flow		Min.	Final Shut-In	60	Min.	SAFETY JOINT	1.75	
Pulled Loose Wt.	1646	Hrs.	Out of Hole	2200	Hrs.	S.S. & PACKER	9.10	
Wt. Set on Packers	25,000	#	Pulled Loose Wt.	40,000	#	T.C. & PACKER	5.40	
Description of Blow During Test						TOTAL	37.05	
GOOD INITIAL PUFF. WEAK AIR BLOW, DECREASING THROUGHOUT FLOW.						STUB.	1.10	
						PERF.	8.00	
FLUID RECOVERY Was Test Reverse Circulated Yes ☐ No ☒						RECORDERS (2)	8.80	
Total Fluid Recovered 3025						PERF.	5.00	
Description of Fluid Recovered						B.N. & PERF.	2.00	
450' GASSY, VERY SLIGHTLY OIL CUT, DRILLING FLUID.						TOTAL INTERVAL	24.90	
2565' SULPHUROUS, SALT WATER.								
</								



271 10TH AVENUE S.E. - CALGARY 26, ALBERTA - PH. 255-1154

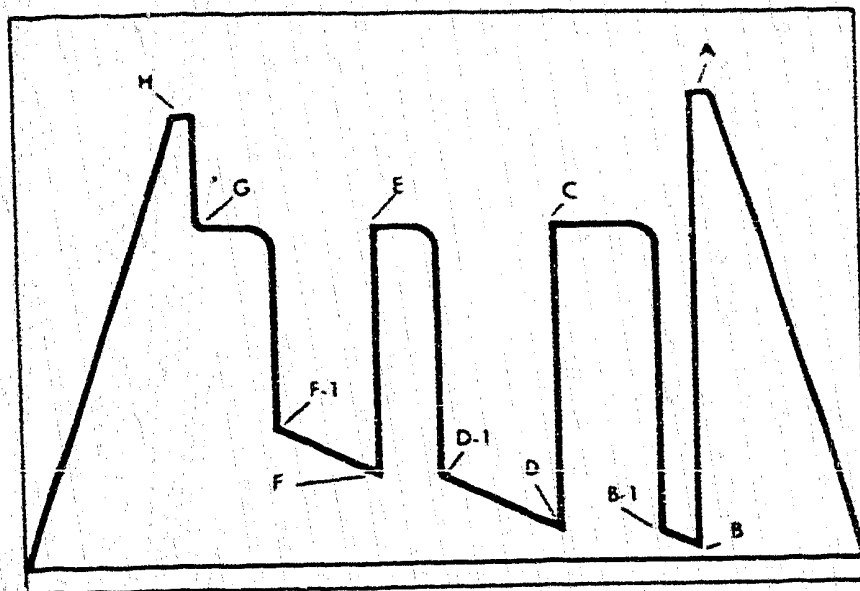
A DIVISION OF SCHLUMBERGER CANADA LIMITED

D 01843		PRESSURE DATA		FLUID SAMPLE REPORT	
INSTRUMENT No.	AKI-2086	AKI-2115		Sample No.	
CAPACITY (LBS)	4400	4650		Type	
INSTRUMENT DEPTH FT.	5554	5559		Depth	ft.
INSTRUMENT OPENING	OUTSIDE	OUTSIDE		Volume	
PRESSURE GRADIENT psi/FT.					
WELL TEMP. °F.	149				
INITIAL HYDROSTATIC	A 2738#	2743#		Sample Pressure:	psig. at Surface
FIRST FLOW	B 305#	306#		Gravity	API @ °F
	B-1 440#	441#		Gas/Oil Ratio	Cu.Ft./bbl.
INITIAL SHUT-IN	C 2034#	2037#			
SECOND FLOW	D 354#	358#			
	D-1 1437#	1439#		Recovery:	
SECOND SHUT-IN	E			Cu. Ft. Gas	
THIRD FLOW	F			cc. Oil	
	F-1			cc. Water	
				cc. Mud	
FINAL SHUT-IN	G 2032#	2034#		Total Liquid cc.	
FINAL HYDROSTATIC	H 2719#	2720#			

PRESSURE INCREMENTS

[illegible]

GUIDE TO IDENTIFICATION OF DRILL STEM TEST PRESSURE CHARTS



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

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

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

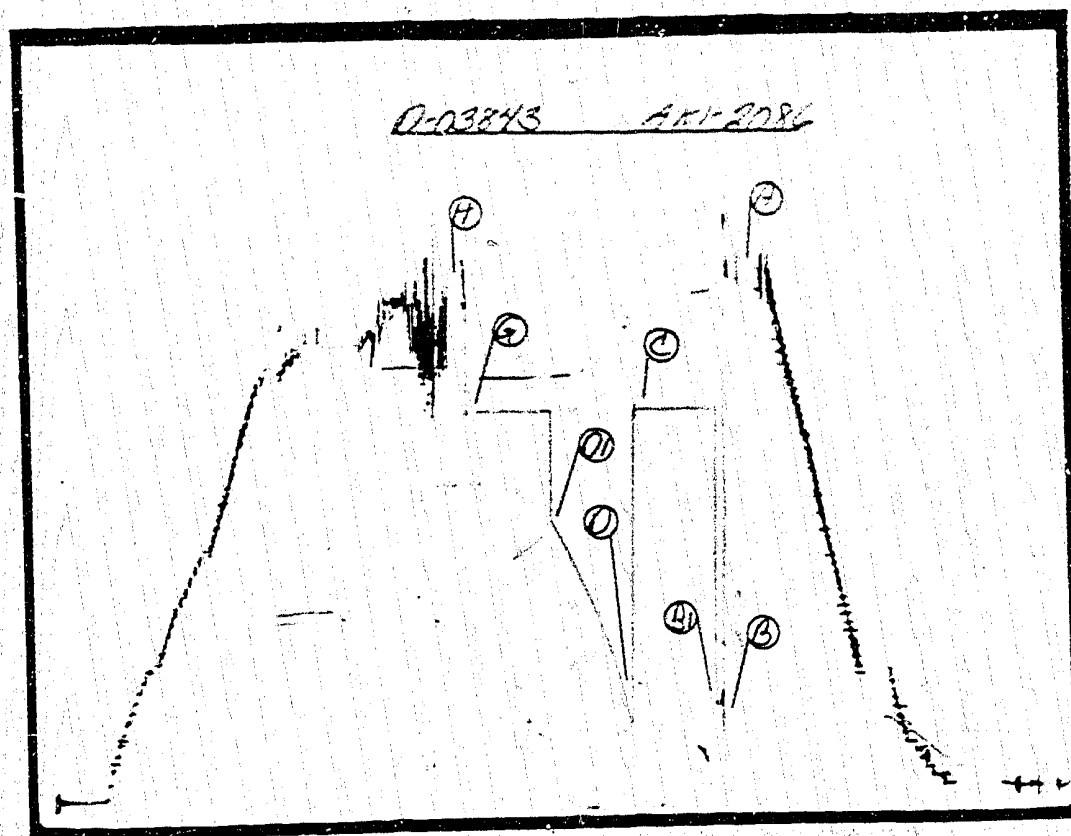


FIELD
REPORT NO.
D 03843

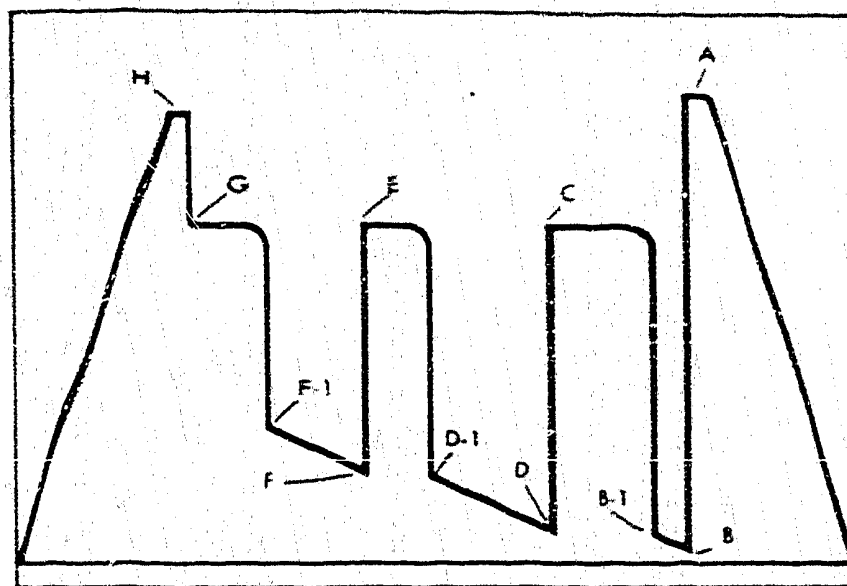
RECORDER NO.
AK1-2086

CAPACITY
4400

REPORTS
REQUESTED
7



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.

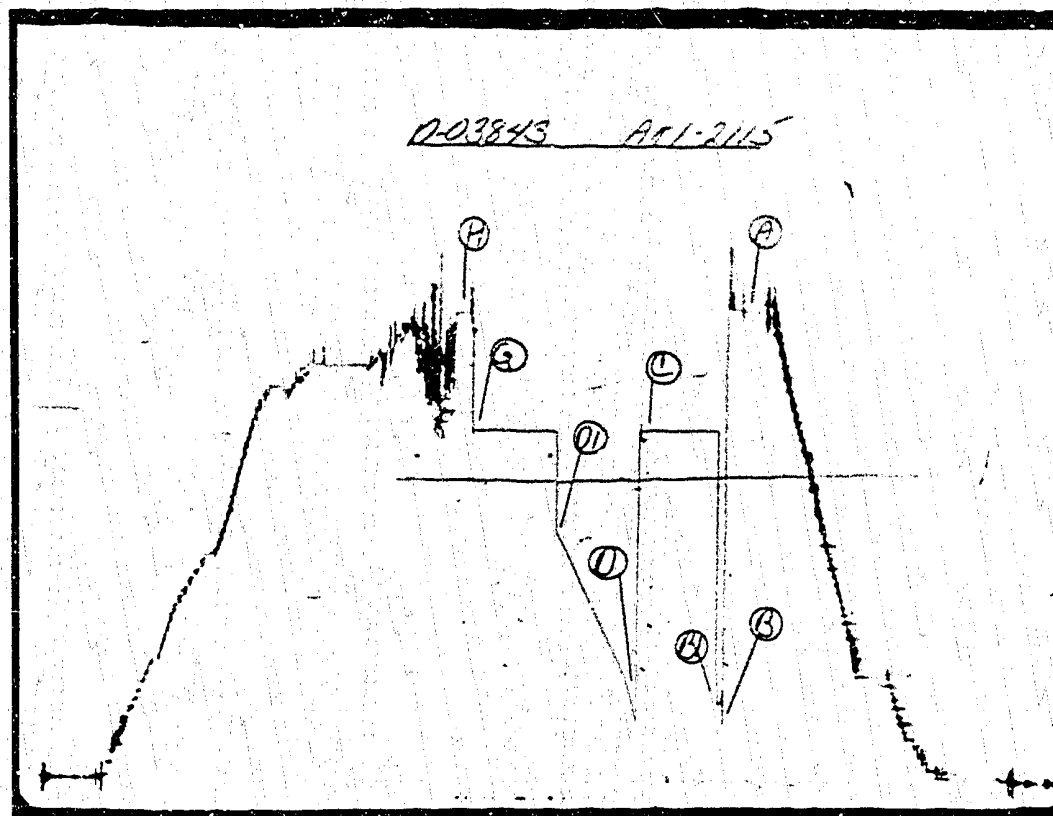


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REPORT NO.
D 03843

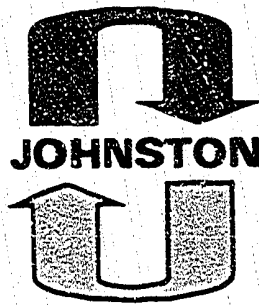
RECORDER NO.
AK1-2115

CAPACITY
4650

REPORTS
REQUESTED
7



TECHNICAL REPORT





TEST DATA						TOOL SEQUENCE		
Formation	Zone Thickness		Fr.	Tool	Length	O.D.		
Interval	5940	To 5990	T.D. 6234	Fr.	P.O. SUB	1.10		
Type of Test	OPEN HOLE, STRADDLE, BYPASS.				D.P. SUB	.70		
Time Started in Hole	1245	Hrs.	Tool Opened	1515	Hrs.	MFE TOOL	9.10	
First Flow	5	Min.	Initial Shut-In	45	Min.	BYPASS TOOL	3.00	
Second Flow	60	Min.	Second Shut In		Min.	JARS	6.90	
Third Flow		Min.	Final Shut In	60	Min.	H. SUB	.75	
Pulled Loose Fr.	1805	Hrs.	Out of Hole	2130	Hrs.	SAFETY JOINT	1.75	
Wt. Set on Packers	30,000	#	Pulled Loose Wt.	24,000	#	S.S. & PACKER	9.10	
Description of Blow During Test					T.C. & PACKER	5.40		
VERY WEAK AIR BLOW, DEAD IN 5 MINUTES.					TOTAL	37.80		
					STUB.	1.10		
					PERF. \	26.00		
FLUID RECOVERY Was Test Reverse Circulated Yes ☐ No ☒					R. SUB	.75		
Total Fluid Recovered 30				Fr.	RECORDER	4.40		
Description of Fluid Recovered					RECORDER	4.40		
30" DRILLING FLUID.					BLANK JOINT	10.00		
					T.C. & STUB.	2.90		
					TOTAL INTERVAL	49.55		
					PACKER	2.60		
					T.C. & PACKER	6.50		
					PERF.	14.00		
GAS BLOW MEASUREMENT					SUB	.75		
Measured With				I.D. Riser	DRILL COLLARS	217.56		
Type of Instrument					SUB	.75		
Time	Size, Choke	Reading psi inches	M. Cubic Feet/Day		B.N. & PERF.	2.00		
		NIL			TOTAL BELOW INTV.	244.16		
					TOTAL LENGTH	331.51		
					Elevation	NOT REPORTED.		
					Bottom Hole Choke Size	1/2"		
					Fluid Cushion Type	NIL Amt.		
REMARKS: TEST SATISFACTORY.					MUD AND HOLE DATA			
TOOL WAS CHASED 4' DURING TEST PERIOD.					Mud Type	DISPERSED W.L. 3.5		
					Filter Cake	2/32 Visc. 150 Wt. 9.4		
					Time Taken			
					Contractor	THOMSON DRLG. Rig No. 6		
					Drill Pipe Size	4 1/2 FH		
					Drill Collar Size	2 7/8 ID Length 402.09'		
RESISTIVITY				CHLORIDE CONTENT	Main Hole Size	8 3/4"		
Recovery Water	@	°F.	ppm.		Rat Hole Size			
Mud Pit sample filtrate	@	°F.	ppm.					
District	HIGH LEVEL Ticket No. D 03844		Date	FEBRUARY 19, 1970 Test No. 3		J.T. No. 3		
Company	HUDSON'S BAY OIL AND GAS COMPANY LTD.			Address 320 - 7TH AVENUE S.W.				
Well Name	HB SHELL WEST CAMERON F-24			CALGARY 2, ALBERTA				
Number	60° 10'N 119° 15'W			Field WEST CAMERON RIVER Province ALBERTA				
Formation				Co. Rep. A. STUART (CONSULTANT)				
and Interval	5940 - 5990 DST#3			Technician D. CLIFTON				
Distribution of Reports								
7 - CALGARY.								



JOHNSTON TESTERS

323 - 10TH AVENUE S.E. - CALGARY 26, ALBERTA - PH. 228-1124

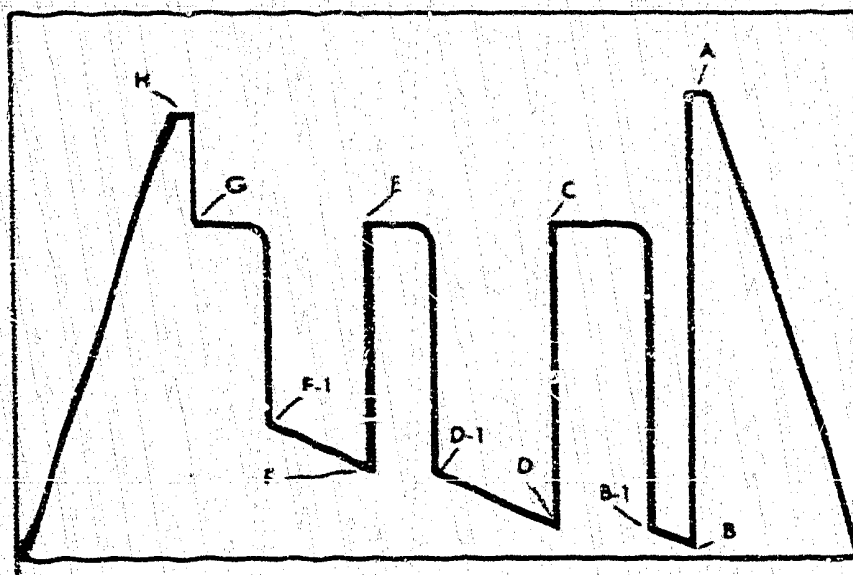
A DIVISION OF SOMERLBERGEN CANADA LIMITED

D 03844		PRESSURE DATA		FLUID SAMPLE REPORT	
INSTRUMENT No.	AK1-2086	AK1-2115		Sample No.	
CAPACITY gals.	4400	4650		Type	
INSTRUMENT DEPTH	5968	5973		Depth	ft.
INSTRUMENT OPENING	OUTSIDE	OUTSIDE		Volume	
PRESSURE GRADIENT psi/ft.					
WELL TEMP. °F.	164				
INITIAL HYDROSTATIC	A 2939#	2941#		Sample Pressure:	psig. at Surface
FIRST FLOW	B 40#	45#		Gravity	API # of
	B-1 71#	74#		Gas/Oil Ratio	Cu. Ft./bbl.
INITIAL SHUT-IN	C 1412#	1416#			
SECOND FLOW	D 69#	72#			
	D-1 66#	69#			
SECOND SHUT-IN	E			Recovery:	
THIRD FLOW	F			Cu. Ft. Gas	
	F-1			cc. Oil	
FINAL SHUT-IN	G 934#	937#		cc. Water	
FINAL HYDROSTATIC	H 2922#	2929#		cc. Mud	
REMARKS.				Total Liquid cc.	

PRESSURE INCREMENTS ON RECORDER No. AK1-2086

[illegible]

GUIDE TO IDENTIFICATION OF DRILL STEM TEST PRESSURE CHARTS



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

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

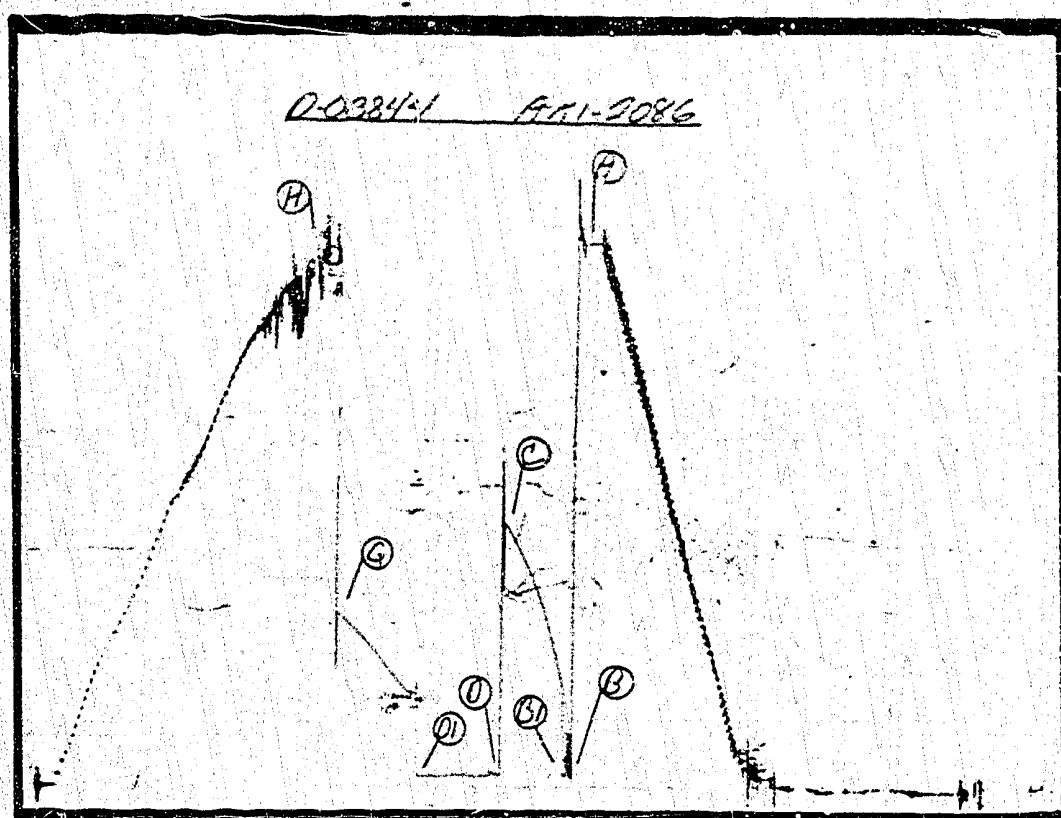


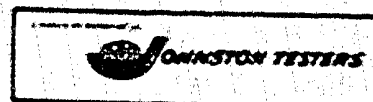
FIELD
REPORT NO.
D 03844

RECORDER NO.
AK1-2086

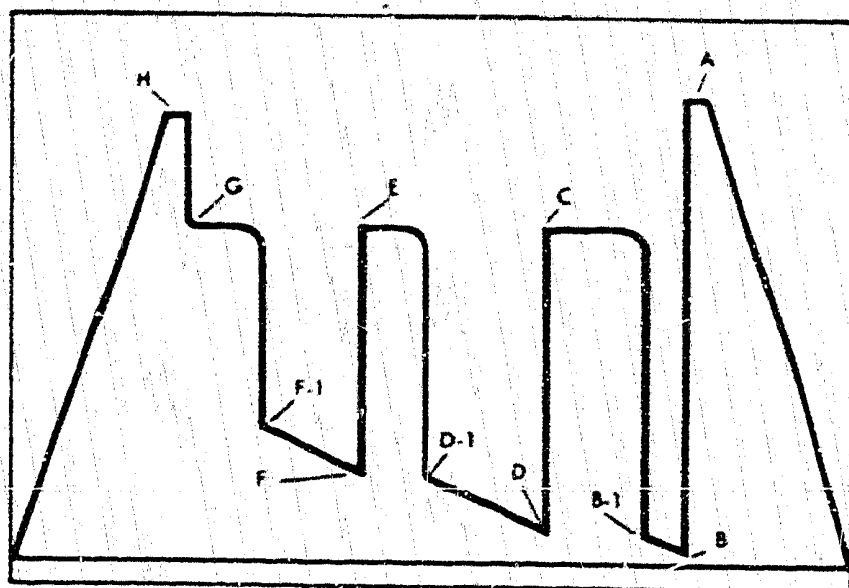
CAPACITY
4400

REPORTS
REQUESTED
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GUIDE TO IDENTIFICATION OF DRILL STEM TEST PRESSURE CHARTS



- A. Initial Hyd. Mud
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- F, F-1, F-2. Third Flow Pressures
- G, Final Shut-In
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FIELD
REPORT NO.

D 03844

RECORDER NO.

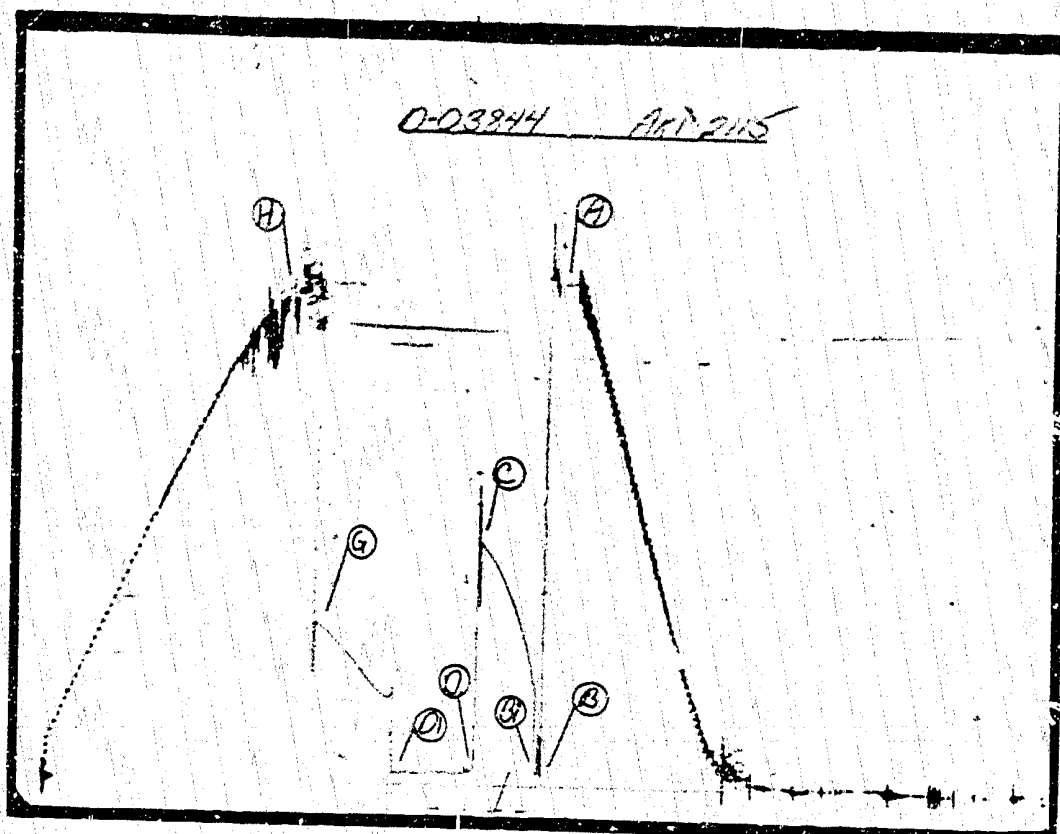
AK1-2115

CAPACITY

4650

REPORTS
REQUESTED

7



HB SHELL WEST CAMERON F-24

D.A. 398

- Tour Reports

DATE Feb 28/70

[illegible]

DATE Feb 20 / 70

WELL NAME <i>H. B. Shell West Cameron F-24</i>										LDG. FLG. TO KB <i>13.20</i>										CASING RECORD		DEPTH		SIZE		WEIGHT		GRADE		CEMENT		ACID		PLUG DOWN		COMPANY SUPERVISOR <i>Ch. Swan</i>																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																							
CONTRACTOR <i>Johnson #6</i>										TYPE RIG <i>N. 45 Brewster</i>										K. B. ELEV. <i>2013</i>		1173		10 3/4		K-55		1275																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
RIG NO. <i>#6</i>										TOOL PUSHER <i>MR. Cummy</i>										GRD. ELEV. <i>2000</i>																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																							
12 P.M. TO 8 A.M.										8 A.M. TO 4 P.M.										4 P.M. TO 12 P.M.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																							
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BIT RECORD		NO.		SERIAL NO.		TYPE		SIZE		FROM		TO		FOOTAGE		HRS. RUN		NO.		SERIAL NO.		TYPE		SIZE		FROM		TO		FOOTAGE		HRS. RUN		NO.		SERIAL NO.		TYPE		SIZE		FROM		TO		FOOTAGE		HRS. RUN																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																											
DRILLING DATA		LINER SIZE		PUMP PRESSURE		TABLE SPEED		WEIGHT ON BIT		LINER SIZE		PUMP PRESSURE		TABLE SPEED		WEIGHT ON BIT		LINER SIZE		PUMP PRESSURE		TABLE SPEED		WEIGHT ON BIT		LINER SIZE		PUMP PRESSURE		TABLE SPEED		WEIGHT ON BIT		LINER SIZE		PUMP PRESSURE		TABLE SPEED		WEIGHT ON BIT		LINER SIZE		PUMP PRESSURE		TABLE SPEED		WEIGHT ON BIT																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																											
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DRILLING STRING		SIZE		STANDS		SINGLES		DRILL COL.		KELLY IN		CORE BBL.		SIZE		STANDS		SINGLES		DRILL COL.		KELLY IN		CORE BBL.		SIZE		STANDS		SINGLES		DRILL COL.		KELLY IN		CORE BBL.		SIZE		STANDS		SINGLES		DRILL COL.		KELLY IN		CORE BBL.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																											
		4 1/2		63		2		402		42.00				4 1/2		63		2		402.09		42.00				4 1/2		63		1				18.00																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																									
MUD RECORD		TYPE OF MUD		WEIGHT		VIS		WL		PH		FC		TYPE OF MUD		WEIGHT		VIS		WL		PH		FC		TYPE OF MUD		WEIGHT		VIS		WL		PH		FC		TYPE OF MUD		WEIGHT		VIS		WL		PH		FC																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																											

DRILLER	<i>B. Egan</i>	NO. HELPERS	<i>7</i>	DRILLER	<i>J. Egan</i>	NO. HELPERS	<i>4</i>	DRILLER	<i>Ken Egan</i>	NO. HELPERS	<i>4</i>
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DAILY DRILLERS REPORT

Hudson's Bay Oil and Gas Company Limited

DATE Feb 17/70

WELL NAME		LDG. FLG. TO KB		CASING RECORD		DEPTH	SIZE	WEIGHT	GRADE	CEMENT	ACID	PLUG DOWN	COMPANY SUPERVISOR																						
H.B. Shell West Cameron F24		1312		1173		10 3/4	405	K55	1275																										
CONTRACTOR		K. B. ELEV.		GRD. ELEV.																															
Thomson Drilling		2015		2000																															
RIG NO.		TYPE RIG		TOOL PUSHER																															
6		Brewster A145		S.R. Cumney																															
12 P.M. TO 8 A.M.												8 A.M. TO 4 P.M.												4 P.M. TO 12 P.M.											
DEPTH		START		PROGRESS		END		START		PROGRESS		END		START		PROGRESS		END																	
		6173		35		6208		6208		6234		26		6234		Nil		6234																	
BIT RECORD		NO.		SERIAL NO.		TYPE		SIZE		FROM		TO		FOOTAGE		HRS. RUN		NO.		SERIAL NO.		TYPE		SIZE		FROM		TO		FOOTAGE		HRS. RUN			
		8		79338		WTR		8 3/4		6173		6234		61		10 1/2		8		79338		WTR		8 3/4		6173		6234		61		10 1/2			
DRILLING DATA		LINER SIZE		PUMP PRESSURE		TABLE SPEED		WEIGHT ON BIT		LINER SIZE		PUMP PRESSURE		TABLE SPEED		WEIGHT ON BIT		LINER SIZE		PUMP PRESSURE		TABLE SPEED		WEIGHT ON BIT											
		5		1050		45		45		5"		1050		45		45		5"		1050		45		45											
DRILLING STRING		SIZE		STANDS		SINGLES		DRILL COL.		KELLY IN		CORE BBL.		SIZE		STANDS		SINGLES		DRILL COL.		KELLY IN		CORE BBL.											
		4 1/2		63-2		5800-29		40209		1562				4 1/2		63		2		40209		4200													
MUD RECORD		TYPE OF MUD		WEIGHT		VIS		WL		PH		FC		TYPE OF MUD		WEIGHT		VIS		WL		PH		FC											
		Gel Base		9.3		130				11		4/32		Gel Base		9.4		125		10		11		3/32											
				9.3		120				11		1/32																							
ADDITIVES		NIL												ADDITIVES		CAUSTIC 100#																			
																Q-BROXIN 100#																			
CORING		NO.		FROM		TO		RECOVERED		FORMATION		NO.		FROM		TO		RECOVERED		FORMATION		NO.		FROM		TO		RECOVERED		FORMATION					
SURVEY		DEG. AT		FT.		DEG. AT		FT.		DEG. AT		FT.		DEG. AT		FT.		DEG. AT		FT.		DEG. AT		FT.		DEG. AT		FT.		DEG. AT		FT.			
DRILL STEM TESTS		NO.		INTERVAL		FORMATION		NO.		INTERVAL		FORMATION		NO.		INTERVAL		FORMATION		NO.		INTERVAL		FORMATION											
		VALVE OPEN (MINS.)		INITIAL SHUT-IN (MINS.)		FINAL SHUT-IN (MINS.)		VALVE OPEN (MINS.)		INITIAL SHUT-IN (MINS.)		FINAL SHUT-IN (MINS.)		VALVE OPEN (MINS.)		INITIAL SHUT-IN (MINS.)		FINAL SHUT-IN (MINS.)		VALVE OPEN (MINS.)		INITIAL SHUT-IN (MINS.)		FINAL SHUT-IN (MINS.)											
		GAS TO SURFACE		MIN. @		MCF/D MAX.		GAS TO SURFACE		MIN. @		MCF/D MAX.		GAS TO SURFACE		MIN. @		MCF/D MAX.		GAS TO SURFACE		MIN. @		MCF/D MAX.											
		OIL TO SURFACE		MIN. @		BBL/D MAX.		OIL TO SURFACE		MIN. @		BBL/D MAX.		OIL TO SURFACE		MIN. @		BBL/D MAX.		OIL TO SURFACE		MIN. @		BBL/D MAX.											
RECOVERY:								RECOVERY:						RECOVERY:						RECOVERY:															
		PRESS-URES		IHP		FHP		IFP		FFP		ISIP		FSIP		PRESS-URES		IHP		FHP		IFP		FFP		ISIP		FSIP							
REMARKS INCLUDING: CEMENTING LOGGING PERFORATING ACIDIZING FRACTURING PLUGS		FROM		TO		DESCRIPTION OF WORK		FROM		TO		DESCRIPTION OF WORK		FROM		TO		DESCRIPTION OF WORK																	
		1200		1230		Run in		800		1200		DRLG.		400		415		Rig Set																	
		1230		1245		Rig Set		800		1215		RIG Service		415		645		Circ & Condition Hole To Log																	
		1245		100		S. Blow Kelly		1215		130		Circ Sample		645		915		Blow Kelly Hoist To Log																	
		100		230		Drill		130		230		Dummy trip 12 Stds. 3' of fill		915		930		Rig To Log																	
		230		300		Work on Pump		230		400		Circ. condition hole To Log		930		1200		Logging Well																	
		300		800		Drill																													
						Strap out 1.23 diff no correction																													
DRILLER		B. L. L. L.		NO. HELPERS		4		DRILLER		NO. HELPERS		4		DRILLER		L. L. L. L.		NO. HELPERS		4															

DAILY DRILLERS REPORT

Hudson's Bay Oil and Gas Company Limited

DATE Feb. 15/70

WELL NAME	<u>H.B. Shell West Cameron F24</u>	LDG. FLG. TO KB	<u>1320</u>	CASING RECORD	DEPTH	SIZE	WEIGHT	GRADE	CEMENT	ACID	PLUG DOWN	COMPANY SUPERVISOR
CONTRACTOR	<u>Thomson Drilling</u>	K. B. ELEV.	<u>2013</u>		<u>1173</u>	<u>10 3/4</u>	<u>40.5</u>	<u>K-55</u>	<u>1275</u>			<u>Ch. Stuart</u>
RIG NO.	<u>6</u>	GRD. ELEV.	<u>2100</u>									
		TOOL PUSHER	<u>J.R. Curran</u>									

	12 P.M. TO 8 A.M.										8 A.M. TO 4 P.M.										4 P.M. TO 12 P.M.									
DEPTH	START <u>5882</u> PROGRESS <u>666</u> END <u>5948</u>										START <u>5948</u> PROGRESS <u>6010</u> END <u>6065</u>										START <u>6010</u> PROGRESS <u>55</u> END <u>6065</u>									
BIT RECORD	NO.	SERIAL NO.	TYPE	SIZE	FROM	TO	FOOTAGE	HRS. RUN	NO.	SERIAL NO.	TYPE	SIZE	FROM	TO	FOOTAGE	HRS. RUN	NO.	SERIAL NO.	TYPE	SIZE	FROM	TO	FOOTAGE	HRS. RUN						
	<u>7</u>	<u>20801</u>	<u>155</u>	<u>8 3/4</u>	<u>5801</u>	<u>5948</u>	<u>147</u>	<u>17 1/2</u>	<u>7</u>	<u>20801</u>	<u>XSSR</u>	<u>8 3/4</u>	<u>5801</u>	<u>6010</u>	<u>209</u>	<u>25 1/4</u>	<u>7</u>	<u>20801</u>	<u>XSSR</u>	<u>8 3/4</u>	<u>5801</u>	<u>6065</u>	<u>264</u>	<u>32 1/2</u>						

DRILLING DATA	LINER SIZE	PUMP PRESSURE	TABLE SPEED	WEIGHT ON BIT	LINER SIZE	PUMP PRESSURE	TABLE SPEED	WEIGHT ON BIT	LINER SIZE	PUMP PRESSURE	TABLE SPEED	WEIGHT ON BIT
	<u>5</u>	<u>1050</u>	<u>55</u>	<u>40</u>	<u>5</u>	<u>1050</u>	<u>55</u>	<u>40</u>	<u>5</u>	<u>1050</u>	<u>55</u>	<u>40</u>

DRILLING STRING	SIZE	STANDS	SINGLES	DRILL COL.	KELLY IN	CORE BBL.	SIZE	STANDS	SINGLES	DRILL COL.	KELLY IN	CORE BBL.	SIZE	STANDS	SINGLES	DRILL COL.	KELLY IN	CORE BBL.
	<u>4 1/2</u>	<u>60.2</u>	<u>55</u>	<u>402.09</u>	<u>31.11</u>		<u>4 1/2</u>	<u>61.1</u>	<u>53</u>	<u>402.09</u>	<u>33.00</u>		<u>4 1/2</u>	<u>62</u>		<u>402.09</u>	<u>27</u>	

MUD RECORD	TYPE OF MUD	WEIGHT	VIS	WL	PH	FC	TYPE OF MUD	WEIGHT	VIS	WL	PH	FC	TYPE OF MUD	WEIGHT	VIS	WL	PH	FC		
	<u>Gel Base</u>	<u>9.4</u>	<u>90</u>	<u>5.6</u>	<u>11.5</u>	<u>2 1/2</u>	<u>Gel Base</u>	<u>9.5</u>	<u>135</u>	<u>5.8</u>	<u>11.5</u>	<u>2 1/2</u>	<u>Gel Base</u>	<u>9.5</u>	<u>150</u>	<u>5.8</u>	<u>11.5</u>	<u>2 1/2</u>		
	<u>9.5</u>	<u>110</u>	<u>5.7</u>	<u>15</u>	<u>2 1/2</u>		<u>9.5</u>	<u>150</u>	<u>5.2</u>	<u>11.0</u>	<u>2 1/2</u>									
ADDITIVES	<u>Gel 1500#</u> <u>Caustic 50#</u>						ADDITIVES	<u>Caustic - 50#</u> <u>Q Broxin - 50#</u> <u>SODA ASH - 100#</u>						ADDITIVES	<u>Caustic - 150 lbs</u> <u>Q Broxin - 600 lbs</u>					

CORING	NO.	FROM	TO	RECOVERED	FORMATION	NO.	FROM	TO	RECOVERED	FORMATION	NO.	FROM	TO	RECOVERED	FORMATION

SURVEY	DEG. AT	FT.	DEG. AT	FT.	DEG. AT	FT.	DEG. AT	FT.	DEG. AT	FT.	DEG. AT	FT.	DEG. AT	FT.	DEG. AT	FT.

DRILL STEM TESTS	NO.	INTERVAL	FORMATION	NO.	INTERVAL	FORMATION	NO.	INTERVAL	FORMATION						
		VALVE OPEN (MINS.)	INITIAL SHUT-IN (MINS.)	FINAL SHUT-IN (MINS.)		VALVE OPEN (MINS.)	INITIAL SHUT-IN (MINS.)	FINAL SHUT-IN (MINS.)		VALVE OPEN (MINS.)	INITIAL SHUT-IN (MINS.)	FINAL SHUT-IN (MINS.)			
		GAS TO SURFACE	MIN. @	MCF/D MAX.		GAS TO SURFACE	MIN. @	MCF/D MAX.		GAS TO SURFACE	MIN. @	MCF/D MAX.			
		OIL TO SURFACE	MIN. @	BBL/D MAX.		OIL TO SURFACE	MIN. @	BBL/D MAX.		OIL TO SURFACE	MIN. @	BBL/D MAX.			
		RECOVERY:				RECOVERY:				RECOVERY:					
		PRESSURES (PSI):	HP	FP	ISIP	FSIP	PRESSURES (PSI):	HP	FP	ISIP	FSIP	PRESSURES (PSI):	HP	FP	ISIP

REMARKS INCLUDING: CEMENTING LOGGING PERFORATING ACIDIZING FRACTURING PLUGS	FROM	TO	DESCRIPTION OF WORK	FROM	TO	DESCRIPTION OF WORK	FROM	TO	DESCRIPTION OF WORK
	<u>1200</u>	<u>1215</u>	<u>Rig Ser.</u>	<u>800</u>	<u>900</u>	<u>DRG.</u>	<u>400</u>	<u>415</u>	<u>Rig Ser.</u>
	<u>1215</u>	<u>800</u>	<u>Drill</u>	<u>900</u>	<u>915</u>	<u>Rig Service</u>	<u>415</u>	<u>900</u>	<u>Drill 8 3/4 Hole</u>
				<u>915</u>	<u>1100</u>	<u>✓ B.O.P</u>	<u>900</u>	<u>930</u>	<u>Work on Pump</u>
							<u>930</u>	<u>1200</u>	<u>Drill 8 3/4 Hole</u>

DRILLER	<u>A. Shinn</u>	NO. HELPERS	<u>4</u>	DRILLER	<u>J. Kuehn</u>	NO. HELPERS	<u>4</u>	DRILLER	<u>Law Dumas</u>	NO. HELPERS	<u>4</u>
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DATE Feb 14 - 76

Hudson's Bay Oil and Gas Company Limited

[illegible]

DAILY DRILLERS REPORT

Hudson's Bay Oil and Gas Company Limited

DATE Feb 13-70

WELL NAME		LDG. FLG. TO KB		CASING RECORD	DEPTH	SIZE	WEIGHT	GRADE	CEMENT	ACID	PLUG DOWN	COMPANY SUPERVISOR							
CONTRACTOR		K. B. ELEV.			1173	10 3/4	40.5	K55	1275										
RIG NO.		GRD. ELEV.		8 A.M. TO 4 P.M.				4 P.M. TO 12 P.M.											
TYPE RIG		TOOL PUSHER		START				PROGRESS				END							
H.B. SHELL WEST CAMERON F-24		N-45 BREWSTER		5622				64				5688							
Thompson Drty		C.R. Clumky		5622				64				5688							
12 P.M. TO 8 A.M.		8 A.M. TO 4 P.M.		4 P.M. TO 12 P.M.															
DEPTH		START		PROGRESS		END		START		PROGRESS		END		START		PROGRESS		END	
BIT RECORD		NO.		SERIAL NO.		TYPE		SIZE		FROM		TO		FOOTAGE		HRS. RUN			
6		10659		X7		8 3/4		5570		5622		52		4 1/4					
DRILLING DATA		LINER SIZE		PUMP PRESSURE		TABLE SPEED		WEIGHT ON BIT		LINER SIZE		PUMP PRESSURE		TABLE SPEED		WEIGHT ON BIT			
5"		1050		60-75		25-35"00		5		1050		65		45		5"		1050	
DRILLING STRING		SIZE		STANDS		SINGLES		DRILL COL.		KELLY IN		CORE BBL.		SIZE		STANDS		SINGLES	
4 1/2		57				402.09		39.00		4 1/2		58		527.91		402.09		1400	
MUD RECORD		TYPE OF MUD		WEIGHT		VIS		WL		PH		FC		TYPE OF MUD		WEIGHT		VIS	
Gel Base		9.5		140		5.0		11.5		2/32				Gel Base		9.5		110	
ADDITIVES		CAUSTIC		100 lbs										ADDITIVES		Water			
CORING		NO.		FROM		TO		RECOVERED		FORMATION		NO.		FROM		TO		RECOVERED	
SURVEY		DEG. AT		FT.		DEG. AT		FT.		DEG. AT		FT.		DEG. AT		FT.		DEG. AT	
DRILL STEM TESTS		NO.		INTERVAL		FORMATION		VALVE OPEN (MINS.)		INITIAL SHUT-IN (MINS.)		FINAL SHUT-IN (MINS.)		NO.		INTERVAL		FORMATION	
GAS TO SURFACE		MIN. @		MCF/D MAX.		GAS TO SURFACE		MIN. @		MCF/D MAX.		GAS TO SURFACE		MIN. @		MCF/D MAX.		GAS TO SURFACE	
OIL TO SURFACE		MIN. @		BBL/D MAX.		OIL TO SURFACE		MIN. @		BBL/D MAX.		OIL TO SURFACE		MIN. @		BBL/D MAX.		OIL TO SURFACE	
RECOVERY:		PRESSURES (PSI):		HP		FP		ISIP		FSIP		PRESSURES (PSI):		HP		FP		ISIP	
REMARKS INCLUDING: CEMENTING LOGGING PERFORATING ACIDIZING FRACTURING PLUGS		FROM		TO		DESCRIPTION OF WORK		FROM		TO		DESCRIPTION OF WORK		FROM		TO		DESCRIPTION OF WORK	
1200		1230		Rig Ser Change Oil in Compressor		800		815		Rig Ser 4 1/2 Roms		400		715		DR LG			
1230		345		Dress & make up BIT to 6 Roms		815		400		Drilling		715		730		RIG Service			
		345		IN SAME Roms TIGHT SPOTS 50' OFF								730		1200		ORIG			
		345		Bottom Roms 50' to Bottom															
		345		DRty 8 3/4 Hole															
DRILLER		NO. HELPERS		4		DRILLER		NO. HELPERS		4		DRILLER		NO. HELPERS		4			

DAILY DRILLERS REPORT

Hudson's Bay Oil and Gas Company Limited

DATE Feb 12 - 70

WELL NAME	H.B. SHELL WEST CAMERON F-24	LDG. FLG. TO KB	1320	CASING	DEPTH	SIZE	WEIGHT	GRADE	CEMENT	ACID	PLUG DOWN	COMPANY SUPERVISOR
CONTRACTOR	Thomson Drilling	K. B. ELEV.	2013	RECORD	1173	10 3/4	40.5	K-55	1275			
RIG NO.	6	GRD. ELEV.	2000									

	12 P.M. TO 8 A.M.	8 A.M. TO 4 P.M.	4 P.M. TO 12 P.M.
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DEPTH	START	5570	PROGRESS	NIL	END	5570	START	PROGRESS	END	START	PROGRESS	END					
	NO.		SERIAL NO.	TYPE	SIZE	FROM	TO	FOOTAGE	HRS. RUN	NO.	SERIAL NO.	TYPE	SIZE	FROM	TO	FOOTAGE	HRS. RUN
	RR		X16	8 3/4	5570	5570	NIL										

DRILLING DATA	LINER SIZE	PUMP PRESSURE	TABLE SPEED	WEIGHT ON BIT	LINER SIZE	PUMP PRESSURE	TABLE SPEED	WEIGHT ON BIT	LINER SIZE	PUMP PRESSURE	TABLE SPEED	WEIGHT ON BIT
	5"	900							5"			

DRILLING STRING	SIZE	STANDS	SINGLES	DRILL COL.	KELLY IN	CORE BBL.	SIZE	STANDS	SINGLES	DRILL COL.	KELLY IN	CORE BBL.	SIZE	STANDS	SINGLES	DRILL COL.	KELLY IN	CORE BBL.
	4 1/2	56	2	402.09	1734													

MUD RECORD	TYPE OF MUD	WEIGHT	VIS	WL	PH	FC	TYPE OF MUD	WEIGHT	VIS	WL	PH	FC	TYPE OF MUD	WEIGHT	VIS	WL	PH	FC
	Oil BASE	9.6	130	4.8	11.0	3/32												
		9.6	149	4.8	11.0	3/32												
	ADDITIVES	Oil 1800						ADDITIVES	NIL					ADDITIVES	NIL			
	WATER. 1" STREAM																	

CORING	NO.	FROM	TO	RECOVERED	FORMATION	NO.	FROM	TO	RECOVERED	FORMATION	NO.	FROM	TO	RECOVERED	FORMATION

SURVEY	DEG. AT	FT.	DEG. AT	FT.	DEG. AT	FT.	DEG. AT	FT.	DEG. AT	FT.	DEG. AT	FT.	DEG. AT	FT.	DEG. AT	FT.

DRILL STEM TESTS	NO.	INTERVAL	FORMATION	NO.	INTERVAL	FORMATION	NO.	INTERVAL	FORMATION					
	VALVE OPEN (MINS.)	INITIAL SHUT-IN (MINS.)	FINAL SHUT-IN (MINS.)	VALVE OPEN (MINS.)	INITIAL SHUT-IN (MINS.)	FINAL SHUT-IN (MINS.)	VALVE OPEN (MINS.)	INITIAL SHUT-IN (MINS.)	FINAL SHUT-IN (MINS.)					
	GAS TO SURFACE	MIN. @	MCF/D MAX.	GAS TO SURFACE	MIN. @	MCF/D MAX.	GAS TO SURFACE	MIN. @	MCF/D MAX.					
	OIL TO SURFACE	MIN. @	BBL/D MAX.	OIL TO SURFACE	MIN. @	BBL/D MAX.	OIL TO SURFACE	MIN. @	BBL/D MAX.					
	RECOVERY:			RECOVERY:			RECOVERY:							
	PRESSURES (PSI):	HP	FP	ISIP	FSIP	PRESSURES (PSI):	HP	FP	ISIP	FSIP	PRESSURES (PSI):	HP	FP	ISIP

REMARKS INCLUDING: CEMENTING LOGGING PERFORATING ACIDIZING FRACTURING PLUGS	FROM	TO	DESCRIPTION OF WORK	FROM	TO	DESCRIPTION OF WORK	FROM	TO	DESCRIPTION OF WORK
	1200	1215	Rig SER. Have BOP DRILL	800	815	Rig per V BOP	400	514	Test Pull loose
	1215	130	Ream 200' to Bottom.	815	1015	Hoist to test	514	630	Hoist Test.
	130	300	Circ & COND. MUD.	1015	1045	Back up circulating tool	630	700	work on 2nd line
	300	400	Dummy Trip 10 STOPS. Ream 3 1/2' OF HLL.	1045	1115	Drop only line	700	800	finish out w/ Test
	400	500	Circ & CONDITION HOLE.	1115	115	Run in w/ test	800	1000	Break down tool & load out
	500	545	Dummy Trip 6 STOPS. Ream 2' OF HLL.	115	400	Rig up & test			
	545	645	Circ & CONDITION HOLE.						
	645	715	Dummy Trip 6 STOPS.						
	715	800	Circ & CONDITION HOLE to test						

DRILLER	Len Hume	NO. HELPERS	4	DRILLER	B. Egan	NO. HELPERS	4	DRILLER	John Hume	NO. HELPERS	4
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Hudson's Bay Oil and Gas Company Limited

DAILY DRILLERS REPORT

DATE Feb-11-70

WELL NAME	H.B. SHELL WEST CAMERON	LDG. FLG. TO KB	1320	CASING RECORD	DEPTH	SIZE	WEIGHT	GRADE	CEMENT	ACID	PLUG DOWN	COMPANY SUPERVISOR B. R. Hunter	
CONTRACTOR	Thomson DRLy	TYPE RIG	N-45 BRESTER		K. B. ELEV.	1173	12 3/4	40.5	K-55	1275			
RIG NO.	6	TOOL PUSHER	Cal. CRUMBY		GRD. ELEV.								

	12 P.M. TO 8 A.M.								8 A.M. TO 4 P.M.								4 P.M. TO 12 P.M.																																				
DEPTH	START 5570 PROGRESS END								START PROGRESS END								START 5570 PROGRESS 0 END 5570																																				
BIT RECORD	NO.	SERIAL NO.	TYPE	SIZE	FROM	TO	FOOTAGE	HRS. RUN	NO.	SERIAL NO.	TYPE	SIZE	FROM	TO	FOOTAGE	HRS. RUN	NO.	SERIAL NO.	TYPE	SIZE	FROM	TO	FOOTAGE	HRS. RUN																													
	5	20179	X552	8 3/4	5193	5570	377	50 1/2	2	RA	X16	8 3/4					2	RR	X16	8 3/4																																	
DRILLING DATA	LINER SIZE		PUMP PRESSURE		TABLE SPEED		WEIGHT ON BIT		LINER SIZE		PUMP PRESSURE		TABLE SPEED		WEIGHT ON BIT		LINER SIZE		PUMP PRESSURE		TABLE SPEED		WEIGHT ON BIT																														
	5		1200														5		800																																		
DRILLING STRING	SIZE	STANDS	SINGLES	DRILL COL.	KELLY IN	CORE BBL.									SIZE	STANDS	SINGLES	DRILL COL.	KELLY IN	CORE BBL.									SIZE	STANDS	SINGLES	DRILL COL.	KELLY IN	CORE BBL.																			
	4 1/2	56	2	402.09	17.34										4 1/2	56	2	402.09	17.34										4 1/2	56	2	402.09	17.34																				
MUD RECORD	TYPE OF MUD		WEIGHT		VIS		WL		PH		FC										TYPE OF MUD		WEIGHT		VIS		WL		PH		FC																						
			9.6		90		4.2		11.0		2/32												9.6		90		4.6		11.0		2/32																						
			9.6		120		4.2		11.0		2/32												9.6		120		4.8		11.0		2/32																						
	ADDITIVES		Slip out		5571.77																ADDITIVES		Slip -		5300 #																												
CORING	NO.	FROM	TO	RECOVERED	FORMATION										NO.	FROM	TO	RECOVERED	FORMATION										NO.	FROM	TO	RECOVERED	FORMATION																				
					1-11 diff																																																
SURVEY	3/4	DEG. AT	5570	FT.	DEG. AT	FT.	DEG. AT	FT.									DEG. AT	FT.	DEG. AT	FT.	DEG. AT	FT.									DEG. AT	FT.	DEG. AT	FT.	DEG. AT	FT.																	
	NO.	INTERVAL		FORMATION										NO.	INTERVAL		FORMATION										NO.	INTERVAL		FORMATION																							
DRILL STEM TESTS	VALVE OPEN (MINS.)		INITIAL SHUT-IN (MINS.)		FINAL SHUT-IN (MINS.)										VALVE OPEN (MINS.)		INITIAL SHUT-IN (MINS.)		FINAL SHUT-IN (MINS.)										VALVE OPEN (MINS.)		INITIAL SHUT-IN (MINS.)		FINAL SHUT-IN (MINS.)																				
	GAS TO SURFACE		MIN. @		MCF/D MAX.										GAS TO SURFACE		MIN. @		MCF/D MAX.										GAS TO SURFACE		MIN. @		MCF/D MAX.																				
	OIL TO SURFACE		MIN. @		BBL/D MAX.										OIL TO SURFACE		MIN. @		BBL/D MAX.										OIL TO SURFACE		MIN. @		BBL/D MAX.																				
	RECOVERY:														RECOVERY:														RECOVERY:																								
	PRESSURES (PSI):		HP		FP		ISIP		FSIP										PRESSURES (PSI):		HP		FP		ISIP		FSIP										PRESSURES (PSI):		HP		FP		ISIP		FSIP								
REMARKS INCLUDING: CEMENTING LOGGING PERFORATING ACIDIZING FRACTURING PLUGS	FROM	TO	DESCRIPTION OF WORK																																																		
	1200	1215	Rig Sur.																																																		
	1215	100	Run in & keep tight SHUT 30' OFF Bottom																																																		
			Rear 10' FILL to Bottom																																																		
	100	215	Circ & work Pipe to Test.																																																		
	215	220	DROP SURVEY Show Kelly																																																		
	230		Horse B.T. #5 to Test, STRAP OUT																																																		
		600	Check blind Rams.																																																		
	600	715	Pick up Test Tool. MAKE UP SAMPL.																																																		
	715		Run in Show.																																																		
	800	CHECK MOTOR SHUT OFF.																																																			
DRILLER	Low Huan								NO. HELPERS	4								DRILLER	B. L. Hunter								NO. HELPERS	4								DRILLER	H. Carter								NO. HELPERS	5							

DAILY DRILLERS REPORT

Hudson's Bay Oil and Gas Company Limited

DATE Feb. 12 - 1970

WELL NAME		CONTRACTOR		RIG NO.		LDG. FLG. TO KB		K. B. ELEV.		GRD. ELEV.		CASING RECORD		DEPTH	SIZE	WEIGHT	GRADE	CEMENT	ACID	PLUG DOWN	COMPANY SUPERVISOR												
H. B. SHELL WEST CAMERON		Thomson Drilling		6		1320		2013		2000		1173		10 3/4	40.5	K 55	1275				B. Proctor												
12 P.M. TO 8 A.M.						8 A.M. TO 4 P.M.						4 P.M. TO 12 P.M.																					
DEPTH		START		PROGRESS		END		START		PROGRESS		END		START		PROGRESS		END															
BIT RECORD		NO.		SERIAL NO.		TYPE		SIZE		FROM		TO		FOOTAGE		HRS. RUN		NO.		SERIAL NO.		TYPE		SIZE		FROM		TO		FOOTAGE		HRS. RUN	
5		20179		X 551		8 3/4		5193		5533		340		45 3/4				5		20179		X 16		8 3/4		5193		5570		377		50 3/4	
DRILLING DATA		LINER SIZE		PUMP PRESSURE		TABLE SPEED		WEIGHT ON BIT		LINER SIZE		PUMP PRESSURE		TABLE SPEED		WEIGHT ON BIT		LINER SIZE		PUMP PRESSURE		TABLE SPEED		WEIGHT ON BIT									
5"		1200		44		44		5		1200		44		40		5		1200		44		40											
DRILLING STRING		SIZE		STANDS		SINGLES		DRILL COL.		KELLY IN		CORE BBL.		SIZE		STANDS		SINGLES		DRILL COL.		KELLY IN		CORE BBL.									
4 1/2		56		402.09		40 00		4 1/2		515057		462.09		17.34																			
MUD RECORD		TYPE OF MUD		WEIGHT		VIS		WL		PH		FC		TYPE OF MUD		WEIGHT		VIS		WL		PH		FC									
Gel BASE		9.5		9.5		5.6		11.5		2/32		Gel chm		9.5		86		4.8		12		2 1/2		2/32									
ADDITIVES		Gel 26.00		1bs		Caustic Soda		400		1bs		Gel 800		100		Caustic Soda		100		1000		1000											
CORING		NO.		FROM		TO		RECOVERED		FORMATION		NO.		FROM		TO		RECOVERED		FORMATION													
SURVEY		DEG. AT		FT.		DEG. AT		FT.		DEG. AT		FT.		DEG. AT		FT.		DEG. AT		FT.		DEG. AT		FT.									
DRILL STEM TESTS		NO.		INTERVAL		FORMATION		NO.		INTERVAL		FORMATION		NO.		INTERVAL		FORMATION															
VALVE OPEN (MINS.)		INITIAL SHUT-IN (MINS.)		FINAL SHUT-IN (MINS.)		VALVE OPEN (MINS.)		INITIAL SHUT-IN (MINS.)		FINAL SHUT-IN (MINS.)		VALVE OPEN (MINS.)		INITIAL SHUT-IN (MINS.)		FINAL SHUT-IN (MINS.)																	
GAS TO SURFACE		MIN. @		MCF/D MAX.		GAS TO SURFACE		MIN. @		MCF/D MAX.		GAS TO SURFACE		MIN. @		MCF/D MAX.																	
OIL TO SURFACE		MIN. @		BBL/D MAX.		OIL TO SURFACE		MIN. @		BBL/D MAX.		OIL TO SURFACE		MIN. @		BBL/D MAX.																	
RECOVERY:		PRESSURES (PSI):		HP		FP		ISIP		FSIP		RECOVERY:		PRESSURES (PSI):		HP		FP		ISIP		FSIP											
REMARKS INCLUDING: CEMENTING LOGGING PERFORATING ACIDIZING FRACTURING PLUGS		FROM		TO		DESCRIPTION OF WORK		FROM		TO		DESCRIPTION OF WORK		FROM		TO		DESCRIPTION OF WORK															
12:00		12:15		Rig SER		8:00		8:15		Rig service & BOP Hydro 4 1/2 fam		4:00		4:15		Rig Service																	
12:15		8:00		DRG 8 3/4 HOPE		8:15		11:45		Drilling		4:15		10:15		Drumming Trip (17 stds)																	
						11:45		12:15		Change shale motor		10:15		11:15		Tight Hole Ream in																	
						12:15		11:15		Drilling		11:15		12:00		Pipe & Work Pipe																	
						11:15		2:15		Circulate sample		11:15		12:00		Lost 10 stds (Drumming Trip)																	
						2:15		4:00		Drumming Trip Spk up						TIGHT HOLE FROM																	
										Kellys was 1/2 pipe & Circulate						5700 - 5570																	
DRILLER		L. H. HANCOCK		NO. HELPERS		4		DRILLER		B. E. ELLIOTT		NO. HELPERS		4		DRILLER		H. L. LANTIER		NO. HELPERS		5											

DAILY DRILLERS REPORT

Hudson's Bay Oil and Gas Company Limited

DATE Feb 9 - 70

WELL NAME H.B. SHELL WEST CAMERON										LDG. FLG. TO KB 1320		CASING RECORD	DEPTH	SIZE	WEIGHT	GRADE	CEMENT	ACID	PLUG DOWN	COMPANY SUPERVISOR <i>[Signature]</i>												
CONTRACTOR Thomson Drilling										K. B. ELEV. 2013			1173	10 3/4	40.5	11.55	1275															
RIG NO. -6										GRD. ELEV. 2000																						
12 P.M. TO 8 A.M.										8 A.M. TO 4 P.M.										4 P.M. TO 12 P.M.												
DEPTH	START		PROGRESS		END		START		PROGRESS		END		START		PROGRESS		END															
	NO.	SERIAL NO.	TYPE	SIZE	FROM	TO	FOOTAGE	HRS. RUN	NO.	SERIAL NO.	TYPE	SIZE	FROM	TO	FOOTAGE	HRS. RUN	NO.	SERIAL NO.	TYPE	SIZE	FROM	TO	FOOTAGE	HRS. RUN								
BIT RECORD	5	20179	155R	8 3/4	5193	5362	169	23 3/4	5	20179	155R	8 3/4	5293	5413	220	31	5	20179	155R	8 3/4	5493	5470	277	38								
DRILLING DATA	LINER SIZE		PUMP PRESSURE		TABLE SPEED		WEIGHT ON BIT		LINER SIZE		PUMP PRESSURE		TABLE SPEED		WEIGHT ON BIT		LINER SIZE		PUMP PRESSURE		TABLE SPEED		WEIGHT ON BIT									
	5"		1150		114-75		30-44 ⁰⁰		5"		1200		44		40		5"		1200		44		42									
DRILLING STRING	SIZE		STANDS		SINGLES		DRILL COL.		KELLY IN		CORE BBL.		SIZE		STANDS		SINGLES		DRILL COL.		KELLY IN		CORE BBL.									
	4 1/2		54		1		402.09		21'				4 1/2		54-2		496920		402.09		4200											
MUD RECORD	TYPE OF MUD		WEIGHT		VIS		WL		PH		FC		TYPE OF MUD		WEIGHT		VIS		WL		PH		FC									
	Gel Base.		9.5		72		5.2		10.8		2/32		Gel Base		9.5		96		53		11.5		3/32									
			9.5		98		5.2		10.8		3/32				9.5		86		5.4		11.5		2 1/2									
	ADDITIVES		Gel - 1000 lbs.																													
CORING	NO.		FROM		TO		RECOVERED		FORMATION		NO.		FROM		TO		RECOVERED		FORMATION		NO.		FROM		TO		RECOVERED		FORMATION			
SURVEY	3/4 DEG. AT		5322 FT.		DEG. AT		FT.		DEG. AT		FT.		DEG. AT		FT.		DEG. AT		FT.		DEG. AT		FT.		1/4 DEG. AT		5345 FT.		DEG. AT		FT.	
DRILL STEM TESTS	NO.		INTERVAL		FORMATION		VALVE OPEN (MINS.)		INITIAL SHUT-IN (MINS.)		FINAL SHUT-IN (MINS.)		NO.		INTERVAL		FORMATION		VALVE OPEN (MINS.)		INITIAL SHUT-IN (MINS.)		FINAL SHUT-IN (MINS.)		NO.		INTERVAL		FORMATION			
REMARKS INCLUDING: CEMENTING LOGGING PERFORATING ACIDIZING FRACTURING PLUGS	FROM		TO		DESCRIPTION OF WORK		FROM		TO		DESCRIPTION OF WORK		FROM		TO		DESCRIPTION OF WORK		FROM		TO		DESCRIPTION OF WORK		FROM		TO		DESCRIPTION OF WORK			
	12:00		12:15		Rig SER.		8:00		8:15		Rig service check		4:00		4:15		Rig service		4:00		4:15		Rig service		4:00		4:15		Rig service			
	12:15		2:15		DRG 8 3/4 Hole.		8:15		1:00		Drill		4:15		8:00		DRG 8 3/4 Hole.		4:15		8:00		DRG 8 3/4 Hole.		4:15		8:00		DRG 8 3/4 Hole.			
	2:15		3:00		Red wire line survey @ 5322		1:00		1:30		Mechanic check floor motors		8:00		8:45		Survey @ 5443		8:00		8:45		Survey @ 5443		8:00		8:45		Survey @ 5443			
	3:00		8:00		DRG 8 3/4 Hole.		1:30		4:00		Drill		8:45		12:00		DRG 8 3/4 Hole.		8:45		12:00		DRG 8 3/4 Hole.		8:45		12:00		DRG 8 3/4 Hole.			
DRILLER	Low Howard		NO. HELPERS		4		DRILLER	B. E. E. E.		NO. HELPERS		4		DRILLER	J. Carter		NO. HELPERS		5													

DAILY DRILLERS REPORT

DATE Feb 8/70

Hudson's Bay Oil and Gas Company Limited

WELL NAME H.B. SHELL WEST CAMERON
CONTRACTOR H. B. SHELL WEST CAMERON
RIG NO. 6LDG. FLG. TO KB 1320
K. B. ELEV. 2015
GRD. ELEV. 2000CASING
RECORD

DEPTH 1173 SIZE 10 3/4 WEIGHT 40.5 GRADE K-55 CEMENT 1275 ACID PLUG DOWN

COMPANY
SUPERVISOR

B. H. H. H.

8 A.M. TO 4 P.M.

4 P.M. TO 12 P.M.

12 P.M. TO 8 A.M.

DEPTH

START 5193 PROGRESS 15 END 5208 START 5208 PROGRESS 47 END 5255 START 5255 PROGRESS 51 END 5306

BIT
RECORD

NO.	SERIAL NO.	TYPE	SIZE	FROM	TO	FOOTAGE	HRS. RUN
5	20179	XSSR	2 1/2	5193	5208	15	2 1/2

DRILLING
DATA

LINEAR SIZE	PUMP PRESSURE	TABLE SPEED	WEIGHT ON BIT
5"	1200	45	44-45

DRILLING
STRING

SIZE	STANDS	SINGLES	DRILL COL.	KELLY IN	CORE BBL.
4 1/2	52	2	402.09	18	

MUD
RECORD

TYPE OF MUD	WEIGHT	VIS	WL	PH	FC
GEL BASE	9.6	82	5.0	10.5	2/32

CORING

NO.	FROM	TO	RECOVERED	FORMATION

SURVEY

DEG. AT	FT.	DEG. AT	FT.	DEG. AT	FT.

DRILL
STEM
TESTS

NO.	INTERVAL	FORMATION

REMARKS
INCLUDING:
CEMENTING
LOGGING
PERFORATING
ACIDIZING
FRACTURING
PLUGS

FROM	TO	DESCRIPTION OF WORK
1200	1215	Rig Ser.
1215	1215	Take old line off drum +
1215	215	Put new line on.
215	545	Run in wire #5 REAM
545	800	6 singles to bottom
		Drill 8 3/4 Hole.

DRILLER

Low Shuan

NO. HELPERS 4

DRILLER

B. H. H. H.

NO. HELPERS 4

DRILLER

A. Carter

NO. HELPERS 5

DAILY DRILLERS REPORT

Hudson's Bay Oil and Gas Company Limited

DATE Feb 1/70

WELL NAME		LDG. FLG. TO KB		CASING RECORD	DEPTH	SIZE	WEIGHT	GRADE	CEMENT	ACID	PLUG DOWN	COMPANY SUPERVISOR					
CONTRACTOR		K. B. ELEV.			11.73	10 3/4	40.5	K. 55	12.75		10.15 Min						
RIG NO.		GRD. ELEV.		12 P.M. TO 8 A.M.		8 A.M. TO 4 P.M.		4 P.M. TO 12 P.M.									
H. B. Shell West Cameron		2013		START 5030		START 5150		START 5178		END 5193							
Johnson Dalg.		2000		PROGRESS 130		PROGRESS 28		PROGRESS 15		END 5193							
TOOL PUSHER				END 5150		END 5178		END 5193									
DEPTH		NO.		SERIAL NO.		TYPE		SIZE		FROM		TO		FOOTAGE		HRS. RUN	
BIT RECORD		4	17633	X16	8 3/4	4719	5150	431	20	4	17633	X16	8 3/4	4719	5193	474	27 1/2
DRILLING DATA		5"		1200		85		35,000		5"		1200		85		35,000	
DRILLING STRING		4 1/2		52		—		402.09		21.00		4 1/2		52		1	
MUD RECORD		Gel. Base		9.5		7.0		6.2		9.0		3/32		Gel. Base		9.5	
CORING		NO.		FROM		TO		RECOVERED		FORMATION		NO.		FROM		TO	
SURVEY		DEG. AT		FT.		DEG. AT		FT.		DEG. AT		FT.		DEG. AT		FT.	
DRILL STEM TESTS		NO.		INTERVAL		FORMATION		VALVE OPEN (MINS.)		INITIAL SHUT-IN (MINS.)		FINAL SHUT-IN (MINS.)		NO.		INTERVAL	
REMARKS INCLUDING:		FROM		TO		DESCRIPTION OF WORK		FROM		TO		DESCRIPTION OF WORK		FROM		TO	
CEMENTING	LOGGING	1500	1515	Rig Service				800	815	Rig SER ✓ B.O.P.				400	415	Rig Service	
PERFORATING	ACIDIZING	1215	500	Daly 8 3/4 Hole				815	100	Daly 8 3/4 Hole				415	630	Daly	
FRACTURING	PLUGS	500	600	Core Sample @ 5130				100	330	CHANGE SWIVELS. Pull 1 STD.				630	730	Circulate bottom hole sample	
		600	800	Daly 8 3/4 Hole				330	410	SER. SWIVEL RUN IN REAM 15' FILL.				730	800	Summit	
				Lost 25 BBL'S MUD in						Daly 8 3/4 Hole				800	1030	Trip for	
				TOP 30' SLAVE POINT										1030	1200	Stop Daly Line	
				5109 - 5137' ESTD.													
DRILLER		NO. HELPERS		DRILLER		NO. HELPERS		DRILLER		NO. HELPERS		DRILLER		NO. HELPERS		DRILLER	
Howard Carter		5		Lew Shuman		4		J. E. Shuman		4		J. E. Shuman		4		J. E. Shuman	

DAILY DRILLERS REPORT

Hudson's Bay Oil and Gas Company Limited

DATE Feb 6/1970

WELL NAME	H.B. Shell West Cameron	LDG. FLG. TO KB	13.20	CASING RECORD	1173	DEPTH	10 3/4	SIZE	40.5	WEIGHT	K.55	GRADE	1225	CEMENT	10.15 p.m.	ACID	10.15 p.m.	PLUG DOWN	10.15 p.m.	COMPANY SUPERVISOR	[Signature]
CONTRACTOR	Thomson Drilling Ltd.	TYPE RIG	A-45 Brewer	K. B. ELEV.	20135	GRD. ELEV.	2000														
RIG NO.	6	TOOL PUSHER																			

	12 P.M. TO 8 A.M.										8 A.M. TO 4 P.M.										4 P.M. TO 12 P.M.																											
DEPTH	START		4719		PROGRESS		21		END		4740		START		4740		PROGRESS		154		END		4894		START		4894		PROGRESS		106		END		5020													
BIT RECORD	NO.	SERIAL NO.	TYPE	SIZE	FROM	TO	FOOTAGE	HRS. RUN	NO.	SERIAL NO.	TYPE	SIZE	FROM	TO	FOOTAGE	HRS. RUN	NO.	SERIAL NO.	TYPE	SIZE	FROM	TO	FOOTAGE	HRS. RUN	NO.	SERIAL NO.	TYPE	SIZE	FROM	TO	FOOTAGE	HRS. RUN																
	4	17633	X16	8 3/4	4719	4740	21	1	4	17633	X16	8 3/4	4740	4894	175	7 1/4	4	17633	X16	8 3/4	4719	5020	301	13 1/2																								
DRILLING DATA	LINER SIZE		5"		PUMP PRESSURE		1200		TABLE SPEED		85		WEIGHT ON BIT		25,000		LINER SIZE		5"		PUMP PRESSURE		1200		TABLE SPEED		85		WEIGHT ON BIT		2																	
DRILLING STRING	SIZE		4 1/2		STANDS		47		SINGLES		1		DRILL COL.		402.07		KELLY IN		8.00		CORE BBL.		SIZE		4 1/2		STANDS		50-1		SINGLES		461807		DRILL COL.		402.09		KELLY IN		8.00		CORE BBL.					
MUD RECORD	TYPE OF MUD				WEIGHT		9.2		VIS		65		WL		15.5		PH		9.0		FC		2/32		TYPE OF MUD		Gel BASE		WEIGHT		9.2		VIS		65		WL		15.5		PH		9.0		FC		2/32	
	ADDITIVES		nil																						ADDITIVES		Gel 1500 lbs, Dextid 900 lbs, Soda Ash 100 lbs, Cellex 50 lbs, 1" stream of water																					
CORING	NO.				FROM				TO				RECOVERED				FORMATION				NO.				FROM				TO				RECOVERED				FORMATION											
SURVEY	10 DEG. AT		4719		DEG. AT				FT.		DEG. AT		3/4		4779		DEG. AT		1		4870		DEG. AT		1/2		5020		DEG. AT				FT.		DEG. AT				FT.									
DRILL STEM TESTS	NO.				INTERVAL				FORMATION		NO.				INTERVAL				FORMATION		NO.				INTERVAL				FORMATION		NO.				INTERVAL				FORMATION									
	VALVE OPEN (MINS.)				INITIAL SHUT-IN (MINS.)				FINAL SHUT-IN (MINS.)		VALVE OPEN (MINS.)				INITIAL SHUT-IN (MINS.)				FINAL SHUT-IN (MINS.)		VALVE OPEN (MINS.)				INITIAL SHUT-IN (MINS.)				FINAL SHUT-IN (MINS.)		VALVE OPEN (MINS.)				INITIAL SHUT-IN (MINS.)				FINAL SHUT-IN (MINS.)									
	GAS TO SURFACE				MIN. @				MCF/D MAX.		GAS TO SURFACE				MIN. @				MCF/D MAX.		GAS TO SURFACE				MIN. @				MCF/D MAX.		GAS TO SURFACE				MIN. @				MCF/D MAX.									
	OIL TO SURFACE				MIN. @				BBL/D MAX.		OIL TO SURFACE				MIN. @				BBL/D MAX.		OIL TO SURFACE				MIN. @				BBL/D MAX.		OIL TO SURFACE				MIN. @				BBL/D MAX.									
	RECOVERY:										RECOVERY:										RECOVERY:										RECOVERY:																	
REMARKS INCLUDING: CEMENTING LOGGING PERFORATING ACIDIZING FRACTURING PLUGS	FROM		TO		DESCRIPTION OF WORK		FROM		TO		DESCRIPTION OF WORK		FROM		TO		DESCRIPTION OF WORK		FROM		TO		DESCRIPTION OF WORK		FROM		TO		DESCRIPTION OF WORK		FROM		TO		DESCRIPTION OF WORK		FROM		TO		DESCRIPTION OF WORK							
	1200		1215		Rig service		800		815		Rig service		400		415		Rig service		1200		1215		Rig service		800		815		Rig service		400		415		Rig service		1200		1215		Rig service							
	1215		1230		Put in High Chain (Trans)		815		830		DRG 8 3/4 Hole		415		430		DRG 8 3/4 Hole		1230		1245		Put in High Chain (Trans)		830		845		DRG 8 3/4 Hole		430		445		DRG 8 3/4 Hole		1245		1260		Put in High Chain (Trans)							
	1230		1245		Run in O.S.		830		845		DRG 8 3/4 Hole		430		445		DRG 8 3/4 Hole		1245		1260		Run in O.S.		845		860		DRG 8 3/4 Hole		445		460		DRG 8 3/4 Hole		1260		1275		Run in O.S.							
	1245		1260		Put new gaskets in air clutch		845		860		DRG 8 3/4 Hole		445		460		DRG 8 3/4 Hole		1260		1275		Put new gaskets in air clutch		860		875		DRG 8 3/4 Hole		460		475		DRG 8 3/4 Hole		1275		1290		Put new gaskets in air clutch							
1260		1275		Run in		860		875		DRG 8 3/4 Hole		460		475		DRG 8 3/4 Hole		1275		1290		Run in		875		890		DRG 8 3/4 Hole		475		490		DRG 8 3/4 Hole		1290		1305		Run in								
1275		1290		Clean to Bottom		875		890		DRG 8 3/4 Hole		475		490		DRG 8 3/4 Hole		1290		1305		Clean to Bottom		890		905		DRG 8 3/4 Hole		490		505		DRG 8 3/4 Hole		1305		1320		Clean to Bottom								
1290		1305		DRG 8 3/4 Hole		890		905		DRG 8 3/4 Hole		490		505		DRG 8 3/4 Hole		1305		1320		DRG 8 3/4 Hole		905		920		DRG 8 3/4 Hole		505		520		DRG 8 3/4 Hole		1320		1335		DRG 8 3/4 Hole								
1305		1320				905		920				505		520				1320		1335				920		935				520		535				1335		1350										
1320		1335				920		935				520		535				1335		1350				935		950				535		550				1350		1365										
1335		1350				935		950				535		550				1350		1365				950		965				550		565				1365		1380										
1350		1365				950		965				550		565				1365		1380				965		980				565		580				1380		1395										
1365		1380				965		980				565		580				1380		1395				980		995				580		595				1395		1410										
1380		1395				980		995				580		595				1395		1410				995		1010				595		610				1410		1425										
1395		1410				995		1010				595		610				1410		1425				1010		1025				610		625				1425		1440										
1410		1425				1010		1025				610		625				1425		1440				1025		1040				625		640				1440		1455										
1425		1440				1025		1040				625		640				1440		1455				1040		1055				640		655				1455		1470										
1440		1455				1040		1055				640		655				1455		1470				1055		1070				655		670				1470		1485										
1455		1470				1055		1070				655		670				1470		1485				1070		1085				670		685				1485		1500										
1470		1485				1070		1085				670		685				1485		1500				1085		1100				685		700				1500		1515										
1485		1500				1085		1100				685		700				1500		1515				1100		1115				700		715				1515		1530										
1500		1515				1100		1115				700		715				1515		1530				1115		1130				715		730				1530		1545										
1515		1530				1115		1130				715		730				1530		1545				1130		1145				730		745				1545		1560										
1530		1545				1130		1145				730		745				1545		1560				1145		1160				745		760				1560		1575										
1545		1560				1145		1160				745		760				1560		1575				1160		1175				760		775				1575		1590										
1560		1575				1160		1175				760		775				1575		1590				1175		1190				775		790				1590		1605										
1575		1590				1175		1190				775		790				1590		1605				1190		1205				790		805				1605		1620										
1590		1605				1190		1205				790		805				1605		1620				1205		1220				805		820				1620		1635										
1605		1620				1205		1220				805		820				1620		1635				1220		1235				820		835				1635		1650										
1620		1635				1220		1235				820		835				1635		1650				1235		1250				835		850				1650		1665										
1635		1650				1235		1250				835		850				1650		1665				1250		1265				850		865				1665		1680										
1650		1665				1250		1265				850		865				1665		1680				1265		1280				865		880				1680		1695										
1665		1680				1265		1280				865		880				1680		1695				1280		1295				880		895				1695		1710										
1680		1695				1280		1295				880		895				1695		1710				1295		1310				895		910				1710		1725										
1695		1710				1295		1310				895		910				1710		1725				1310		1325				910		925				1725		1740										
1710		1725				1310		1325				910		925				1725		1740				1325		1340				925		940				1740		1755										
1725		1740				1325		1340				925		940				1740		1755				1340		1355				940		955				1755		1770										
1740		1755				1340		1355				940		955				1755		1770				1355		1370				955		970				1770		1785										
1755		1770				1355		1370				955		970				1770		1785				1370		1385				970		985				1785												

DATE Feb 5/70

Hudson's Bay Oil and Gas Company Limited

[illegible]

DAILY DRILLERS REPORT

Hudson's Bay Oil and Gas Company Limited

DATE Feb 4/1970

WELL NAME	H. B. Shell West Cameron	LDG. FLG. TO KB	1320	CASING	DEPTH	SIZE	WEIGHT	GRADE	CEMENT	ACID	PLUG DOWN	COMPANY SUPERVISOR
CONTRACTOR	Thomson Dely	K. B. ELEV.		RECORD	1173	10 3/4	40.5	K-55	1275			B. Johnston
RIG NO.	6	TOOL PUSHER	HRBundy	GRD. ELEV.								

	12 P.M. TO 8 A.M.								8 A.M. TO 4 P.M.								4 P.M. TO 12 P.M.								
DEPTH	START 3840 PROGRESS 241 END 4081								START 4081 PROGRESS 190 END 4261								START 4261 PROGRESS 92 END 4353								
BIT RECORD	NO.	SERIAL NO.	TYPE	SIZE	FROM	TO	FOOTAGE	HRS. RUN	NO.	SERIAL NO.	TYPE	SIZE	FROM	TO	FOOTAGE	HRS. RUN	NO.	SERIAL NO.	TYPE	SIZE	FROM	TO	FOOTAGE	HRS. RUN	
	3	17104	X3A	8 3/4	3603	4081	478	13 1/4	3	17104	X3A	8 3/4	4081					3	17104	X3A	8 3/4	3603	4353	750	23 1/2
DRILLING DATA	LINER SIZE		PUMP PRESSURE		TABLE SPEED		WEIGHT ON BIT		LINER SIZE		PUMP PRESSURE		TABLE SPEED		WEIGHT ON BIT		LINER SIZE		PUMP PRESSURE		TABLE SPEED		WEIGHT ON BIT		
	5"		1050		85		32,000		5"		1050		85		32,000		5"		1050		85		32,000		
DRILLING STRING	SIZE		STANDS		SINGLES		DRILL COL.		KELLY IN		CORE BBL.		SIZE		STANDS		SINGLES		DRILL COL.		KELLY IN		CORE BBL.		
	4 1/2		40				402.09		40.00				4 1/2		42				402.09		40.00				
MUD RECORD	TYPE OF MUD		WEIGHT		VIS		WL		PH		FC		TYPE OF MUD		WEIGHT		VIS		WL		PH		FC		
	Gel Base		9.0		35		17.1		9.0		2/32		Gel Base		9.0		46								
ADDITIVES																									
CORING	NO.		FROM		TO		RECOVERED		FORMATION		NO.		FROM		TO		RECOVERED		FORMATION		NO.		FROM		
SURVEY	1/2 DEG. AT 4022 FT.		DEG. AT		FT.		DEG. AT		FT.		5/8 DEG. AT 4230 FT.		DEG. AT		FT.		DEG. AT		FT.		DEG. AT		FT.		
DRILL STEM TESTS	NO.		INTERVAL		FORMATION		NO.		INTERVAL		FORMATION		NO.		INTERVAL		FORMATION		NO.		INTERVAL		FORMATION		
	VALVE OPEN (MINS.)		INITIAL SHUT-IN (MINS.)		FINAL SHUT-IN (MINS.)		VALVE OPEN (MINS.)		INITIAL SHUT-IN (MINS.)		FINAL SHUT-IN (MINS.)		VALVE OPEN (MINS.)		INITIAL SHUT-IN (MINS.)		FINAL SHUT-IN (MINS.)		VALVE OPEN (MINS.)		INITIAL SHUT-IN (MINS.)		FINAL SHUT-IN (MINS.)		
	GAS TO SURFACE		MIN. @		MCF/D MAX.		GAS TO SURFACE		MIN. @		MCF/D MAX.		GAS TO SURFACE		MIN. @		MCF/D MAX.		GAS TO SURFACE		MIN. @		MCF/D MAX.		
	OIL TO SURFACE		MIN. @		BBL/D MAX.		OIL TO SURFACE		MIN. @		BBL/D MAX.		OIL TO SURFACE		MIN. @		BBL/D MAX.		OIL TO SURFACE		MIN. @		BBL/D MAX.		
	RECOVERY:						RECOVERY:						RECOVERY:						RECOVERY:						
REMARKS INCLUDING: CEMENTING LOGGING PERFORATING ACIDIZING FRACTURING PLUGS	PRESSURES (PSI):		HP		FP		ISIP		FSIP		PRESSURES (PSI):		HP		FP		ISIP		FSIP		PRESSURES (PSI):		HP		
FROM	TO	DESCRIPTION OF WORK		FROM	TO	DESCRIPTION OF WORK		FROM	TO	DESCRIPTION OF WORK		FROM	TO	DESCRIPTION OF WORK		FROM	TO	DESCRIPTION OF WORK		FROM	TO	DESCRIPTION OF WORK		FROM	TO
1200	1215	Rig Service		800	815	Rig Ser. & B.O.P.S.		400	415	Rig per.		1215	1230	Drill 8 3/4 Hole		415	615	Work on Revival parts in shell		1230	1245	Survey		615	800
1230	1245	Drill 8 3/4 Hole		815	830	Drill 8 3/4 Hole		615	800	Work on Revival		1245	1260	Drill 8 3/4 Hole		800	1200	Drill 8 3/4 Hole		1260	1275	Drill 8 3/4 Hole		800	1215
1260	1275	Survey		830	845	Run Survey		1275	1290	Work on Revival		1290	1305	Drill 8 3/4 Hole		1305	1320	Drill 8 3/4 Hole		1320	1335	Drill 8 3/4 Hole		1335	1350
1300	1315	Drill 8 3/4 Hole		1315	1330	Drill 8 3/4 Hole		1350	1365	Drill 8 3/4 Hole		1365	1380	Drill 8 3/4 Hole		1380	1395	Drill 8 3/4 Hole		1395	1410	Drill 8 3/4 Hole		1410	1425
1315	1330	Drill 8 3/4 Hole		1330	1345	Drill 8 3/4 Hole		1425	1440	Drill 8 3/4 Hole		1440	1455	Drill 8 3/4 Hole		1455	1470	Drill 8 3/4 Hole		1470	1485	Drill 8 3/4 Hole		1485	1500
1330	1345	Drill 8 3/4 Hole		1345	1360	Drill 8 3/4 Hole		1500	1515	Drill 8 3/4 Hole		1515	1530	Drill 8 3/4 Hole		1530	1545	Drill 8 3/4 Hole		1545	1560	Drill 8 3/4 Hole		1560	1575
1345	1360	Drill 8 3/4 Hole		1360	1375	Drill 8 3/4 Hole		1575	1590	Drill 8 3/4 Hole		1590	1605	Drill 8 3/4 Hole		1605	1620	Drill 8 3/4 Hole		1620	1635	Drill 8 3/4 Hole		1635	1650
1360	1375	Drill 8 3/4 Hole		1375	1390	Drill 8 3/4 Hole		1650	1665	Drill 8 3/4 Hole		1665	1680	Drill 8 3/4 Hole		1680	1695	Drill 8 3/4 Hole		1695	1710	Drill 8 3/4 Hole		1710	1725
1375	1390	Drill 8 3/4 Hole		1390	1405	Drill 8 3/4 Hole		1725	1740	Drill 8 3/4 Hole		1740	1755	Drill 8 3/4 Hole		1755	1770	Drill 8 3/4 Hole		1770	1785	Drill 8 3/4 Hole		1785	1800
1390	1405	Drill 8 3/4 Hole		1405	1420	Drill 8 3/4 Hole		1800	1815	Drill 8 3/4 Hole		1815	1830	Drill 8 3/4 Hole		1830	1845	Drill 8 3/4 Hole		1845	1860	Drill 8 3/4 Hole		1860	1875
1405	1420	Drill 8 3/4 Hole		1420	1435	Drill 8 3/4 Hole		1875	1890	Drill 8 3/4 Hole		1890	1905	Drill 8 3/4 Hole		1905	1920	Drill 8 3/4 Hole		1920	1935	Drill 8 3/4 Hole		1935	1950
1420	1435	Drill 8 3/4 Hole		1435	1450	Drill 8 3/4 Hole		1950	1965	Drill 8 3/4 Hole		1965	1980	Drill 8 3/4 Hole		1980	1995	Drill 8 3/4 Hole		1995	2010	Drill 8 3/4 Hole		2010	2025
1435	1450	Drill 8 3/4 Hole		1450	1465	Drill 8 3/4 Hole		2025	2040	Drill 8 3/4 Hole		2040	2055	Drill 8 3/4 Hole		2055	2070	Drill 8 3/4 Hole		2070	2085	Drill 8 3/4 Hole		2085	2100
1450	1465	Drill 8 3/4 Hole		1465	1480	Drill 8 3/4 Hole		2100	2115	Drill 8 3/4 Hole		2115	2130	Drill 8 3/4 Hole		2130	2145	Drill 8 3/4 Hole		2145	2160	Drill 8 3/4 Hole		2160	2175
1465	1480	Drill 8 3/4 Hole		1480	1495	Drill 8 3/4 Hole		2175	2190	Drill 8 3/4 Hole		2190	2205	Drill 8											

DAILY DRILLERS REPORT

Hudson's Bay Oil and Gas Company Limited

DATE Feb 2/70

WELL NAME	H.B. Shell West Cameron	LDG. FLG. TO KB	13.20	CASING	DEPTH	SIZE	WEIGHT	GRADE	CEMENT	ACID	PLUG DOWN	COMPANY
CONTRACTOR	Johnson Dlg	K. B. ELEV.	2013	RECORD	1173	10 3/4	405	K-55	1215		10.15 am	SUPERVISOR
RIG NO.	6	TOOL PUSHER	GRD. ELEV.	2000							Jan 28/70	B. Johnston

	12 P.M. TO 8 A.M.												8 A.M. TO 4 P.M.												4 P.M. TO 12 P.M.											
DEPTH	START 2841				PROGRESS 95				END 2936				START 2936				PROGRESS 209				END 3145				START 3145				PROGRESS 255				END 3400			
BIT RECORD	NO.	SERIAL NO.	TYPE	SIZE	FROM	TO	FOOTAGE	HRS. RUN	NO.	SERIAL NO.	TYPE	SIZE	FROM	TO	FOOTAGE	HRS. RUN	NO.	SERIAL NO.	TYPE	SIZE	FROM	TO	FOOTAGE	HRS. RUN												
	2	19716	X16	8 3/4	2682	2936	258	12 3/4	2	19716	X16	8 3/4	2936	3145	209	19 3/4	2	19716	X16	8 3/4	2682	3400	718	27												
DRILLING DATA	LINER SIZE		PUMP PRESSURE		TABLE SPEED		WEIGHT ON BIT		LINER SIZE		PUMP PRESSURE		TABLE SPEED		WEIGHT ON BIT		LINER SIZE		PUMP PRESSURE		TABLE SPEED		WEIGHT ON BIT													
	5"		1050		75		42,000		5"		1050		75		42,000		5		1100		85		35													
DRILLING STRING	SIZE	STANDS	SINGLES	DRILL COL.	KELLY IN	CORE BBL.			SIZE	STANDS	SINGLES	DRILL COL.	KELLY IN	CORE BBL.			SIZE	STANDS	SINGLES	DRILL COL.	KELLY IN	CORE BBL.														
	4 1/2	27	2	4 1/2	09	2000											4 1/2	32	2	3 1/2	08	40	207	2807												
MUD RECORD	TYPE OF MUD		WEIGHT		VIS		WL		PH		FC		TYPE OF MUD		WEIGHT		VIS		WL		PH		FC													
			8.5		28										8.5		28																			
			8.5		28												WATER		85		28															
	ADDITIVES						water						ADDITIVES												ADDITIVES						#2 BEARNEX					
CORING	NO.	FROM	TO	RECOVERED	FORMATION				NO.	FROM	TO	RECOVERED	FORMATION				NO.	FROM	TO	RECOVERED	FORMATION															
SURVEY	DEG. AT		FT.		DEG. AT		FT.		DEG. AT		FT.		DEG. AT		FT.		DEG. AT		FT.		DEG. AT		FT.													
	1		3078		1		3078		1		3078		1		3078		1		3078		1		3078													
DRILL STEM TESTS	NO.		INTERVAL		FORMATION				NO.		INTERVAL		FORMATION				NO.		INTERVAL		FORMATION															
	VALVE OPEN (MINS.)		INITIAL SHUT-IN (MINS.)		FINAL SHUT-IN (MINS.)				VALVE OPEN (MINS.)		INITIAL SHUT-IN (MINS.)		FINAL SHUT-IN (MINS.)				VALVE OPEN (MINS.)		INITIAL SHUT-IN (MINS.)		FINAL SHUT-IN (MINS.)															
	GAS TO SURFACE		MIN. @		MCF/D MAX.				GAS TO SURFACE		MIN. @		MCF/D MAX.				GAS TO SURFACE		MIN. @		MCF/D MAX.															
	OIL TO SURFACE		MIN. @		BBL/D MAX.				OIL TO SURFACE		MIN. @		BBL/D MAX.				OIL TO SURFACE		MIN. @		BBL/D MAX.															
	RECOVERY:								RECOVERY:										RECOVERY:																	
	PRESSURES (PSI):		HP		FP		ISIP		FSIP		PRESSURES (PSI):		HP		FP		ISIP		FSIP		PRESSURES (PSI):		HP		FP		ISIP		FSIP							
REMARKS INCLUDING: CEMENTING LOGGING PERFORATING ACIDIZING FRACTURING PLUGS	FROM	TO	DESCRIPTION OF WORK						FROM	TO	DESCRIPTION OF WORK						FROM	TO	DESCRIPTION OF WORK																	
	1200	100	Work light hole						800	815	Rig Ser. ✓ BOP's (HAVE BOP)						400	415	Rig service																	
	100	300	Change liner & head & rod						815	1245	DRG 8 3/4 Hole.						415	1045	DRG																	
	300	800	in \$ 500 Pump.						1245	130	Run wire line survey						1045	15	Clear hole & survey																	
			Daly 8 3/4 Hole.								CIRE 15 min a work Pipe.								Daly																	
											Daly 8 3/4 Hole.																									

DAILY DRILLERS REPORT

Hudson's Bay Oil and Gas Company Limited

DATE Jan 31/70

WELL NAME		LDG. FLG. TO KB		CASING RECORD		DEPTH	SIZE	WEIGHT	GRADE	CEMENT	ACID	PLUG DOWN	COMPANY SUPERVISOR						
H.B. Shell West Cameron F24		1320		K. B. ELEV. 2013		1273	10 3/4	405	X55	1275		10.15 AM Jan 29/70							
CONTRACTOR Thomson Drilling		TYPE RIG Brewster N45		GRD. ELEV. 200															
RIG NO. 6		TOOL PUSHER J. Cunniff																	
12 P.M. TO 8 A.M.				8 A.M. TO 4 P.M.				4 P.M. TO 12 P.M.											
DEPTH		START 1870		PROGRESS 236		END 2106		START 2106		PROGRESS 164		END 2270		START 2270		PROGRESS 190		END 2460	
BIT RECORD		NO. 1		SERIAL NO. 17639		TYPE X16		SIZE 8 3/4		FROM 1176		TO 2106		FOOTAGE 930		HRS. RUN 18 3/4		NO. 1	
DRILLING DATA		LINER SIZE 5		PUMP PRESSURE 1150		TABLE SPEED 75		WEIGHT ON BIT 42		LINER SIZE 5"		PUMP PRESSURE 1150		TABLE SPEED 75		WEIGHT ON BIT 42		LINER SIZE 5"	
DRILLING STRING		SIZE 4 1/2		STANDS 18+1		SINGLES 1162.26		DRILL COL. 40209		KELLY IN 422		CORE BBL.		SIZE 4 1/2		STANDS 22		SINGLES 1	
MUD RECORD		TYPE OF MUD WATER		WEIGHT 8.6		VIS 28		WL 28		PH		FC		TYPE OF MUD water		WEIGHT 8.6		VIS 28	
		ADDITIVES		WATER										ADDITIVES		water			
CORING		NO.		FROM		TO		RECOVERED		FORMATION		NO.		FROM		TO		RECOVERED	
SURVEY		1/2		DEG. AT 2046		FT.		DEG. AT		FT.		DEG. AT		FT.		DEG. AT		FT.	
DRILL STEM TESTS		NO.		INTERVAL		FORMATION		NO.		INTERVAL		FORMATION		NO.		INTERVAL		FORMATION	
		VALVE OPEN (MINS.)		INITIAL SHUT-IN (MINS.)		FINAL SHUT-IN (MINS.)		VALVE OPEN (MINS.)		INITIAL SHUT-IN (MINS.)		FINAL SHUT-IN (MINS.)		VALVE OPEN (MINS.)		INITIAL SHUT-IN (MINS.)		FINAL SHUT-IN (MINS.)	
		GAS TO SURFACE		MIN. @		MCF/D MAX.		GAS TO SURFACE		MIN. @		MCF/D MAX.		GAS TO SURFACE		MIN. @		MCF/D MAX.	
		OIL TO SURFACE		MIN. @		BBL/D MAX.		OIL TO SURFACE		MIN. @		BBL/D MAX.		OIL TO SURFACE		MIN. @		BBL/D MAX.	
		RECOVERY:						RECOVERY:						RECOVERY:					
		PRESSURES (PSI):		HP		FP		ISIP		FSIP		PRESSURES (PSI):		HP		FP		ISIP	
REMARKS INCLUDING: CEMENTING LOGGING PERFORATING ACIDIZING FRACTURING PLUGS		FROM 1200		TO 1215		DESCRIPTION OF WORK Rig ser.		FROM 810		TO 815		DESCRIPTION OF WORK Rig service & check B.O.P.S.		FROM 400		TO 410		DESCRIPTION OF WORK Rig SER.	
		1215		545		Drlg 8 3/4 hole		815		1100		Drlg 8 3/4 hole		410		1030		Drlg 8 3/4 hole	
		545		615		Recovery @ 2046 1/2		1100		115		Change & switch packing		1030		1100		Run Survey	
		615		700		Drlg		115		400		Drlg 8 3/4 hole		1100		1200		Drlg 8 3/4 hole	
		700		715		Conn & log down with single													
		715		800		Drlg													
DRILLER		B. F. F.		NO. HELPERS 4		DRILLER		H. Carter		NO. HELPERS 5		DRILLER		L. H. H.		NO. HELPERS 5			

DAILY DRILLERS REPORT

Hudson's Bay Oil and Gas Company Limited

DATE Jan 30 / 70

WELL NAME <u>Thompson</u>	LDG. FLG. TO KB <u>1320</u>	CASING RECORD	DEPTH <u>1173</u>	SIZE <u>10 3/4</u>	WEIGHT <u>40</u>	GRADE <u>K-55</u>	CEMENT <u>1275</u>	ACID	PLUG DOWN <u>10.15</u>	COMPANY SUPERVISOR <u>[Signature]</u>
CONTRACTOR <u>Thompson</u>	TYPE RIG <u>Browster</u>	K. B. ELEV. <u>2013</u>								
RIG NO. <u>6</u>	TOOL PUSHER <u>J. Greenly</u>	GRD. ELEV. <u>2000</u>								

	12 P.M. TO 8 A.M.										8 A.M. TO 4 P.M.										4 P.M. TO 12 P.M.									
DEPTH	START <u>1176</u>		PROGRESS <u>22</u>				END <u>1198</u>		START <u>1198</u>		PROGRESS <u>62</u>				END <u>1260</u>		START <u>1260</u>		PROGRESS <u>610</u>				END <u>1870</u>							
BIT RECORD	NO.	SERIAL NO.	TYPE	SIZE	FROM	TO	FOOTAGE	HRS. RUN	NO.	SERIAL NO.	TYPE	SIZE	FROM	TO	FOOTAGE	HRS. RUN	NO.	SERIAL NO.	TYPE	SIZE	FROM	TO	FOOTAGE	HRS. RUN						
	1	17639	X16	8 3/4	1176	1198	22	1 1/4	1	17639	X16	8 3/4	1198	1260	84	4 1/2	1	17639	X16	8 3/4	1260	1870	610	7 1/4						
DRILLING DATA	LINER SIZE		PUMP PRESSURE		TABLE SPEED		WEIGHT ON BIT		LINER SIZE		PUMP PRESSURE		TABLE SPEED		WEIGHT ON BIT		LINER SIZE		PUMP PRESSURE		TABLE SPEED		WEIGHT ON BIT							
	5"		1150		80		20		5"		1100		90		25-30		5"		1100		90		25-30							
DRILLING STRING	SIZE	STANDS	SINGLES	DRILL COL.	KELLY IN	CORE BBL.			SIZE	STANDS	SINGLES	DRILL COL.	KELLY IN	CORE BBL.			SIZE	STANDS	SINGLES	DRILL COL.	KELLY IN	CORE BBL.								
	4 1/2	75480		39429	40	270			4 1/2	9	1	40208	1200					4 1/2	16		13	24'	UP							
MUD RECORD	TYPE OF MUD		WEIGHT		VIS		WL		PH		FC						TYPE OF MUD		WEIGHT		VIS		WL		PH		FC			
	water		84		28														8.6		28									
CORING	NO.		FROM		TO		RECOVERED		FORMATION		NO.		FROM		TO		RECOVERED		FORMATION		NO.		FROM		TO		RECOVERED		FORMATION	
SURVEY	DEG. AT		FT.		DEG. AT		FT.		DEG. AT		FT.		DEG. AT		FT.		DEG. AT		FT.		DEG. AT		FT.		DEG. AT		FT.			
DRILL STEM TESTS	NO.		INTERVAL		FORMATION				NO.		INTERVAL		FORMATION				NO.		INTERVAL		FORMATION									
REMARKS INCLUDING: CEMENTING LOGGING PERFORATING ACIDIZING FRACTURING PLUGS	FROM		TO		DESCRIPTION OF WORK				FROM		TO		DESCRIPTION OF WORK				FROM		TO		DESCRIPTION OF WORK									
	1200		1215		Rig set				800		815		Rig set & check B.O.D.				400		415		Rig set									
	1215		145		Drill out				815		915		Pick circle cap of ground				415		900		DRG 8 3/4 Hole									
	145		545		Drill made 12 ft quit				915		1100		Through flattened dry Pines				900		920		Rig set									
	545		700		Lost to check bit position				1100		1245		Tug down same				920		1200		DRG 8 3/4 Hole									
	700		800		Spec 1-8 3/4" Cone Locked				1245		400		Rig in																	
					on 8 3/4" Bit, Run to								Pick up singles																	
					DRG out								Blow Kelly & clean to bottom																	
					DRG out								Drill 8 3/4 Hole																	
					Rubber Plug over Drill Pipe																									
DRILLER					NO. HELPERS <u>4</u>				DRILLER				NO. HELPERS <u>4</u>				DRILLER				NO. HELPERS <u>4</u>									

DAILY DRILLERS REPORT

Hudson's Bay Oil and Gas Company Limited

DATE 20

WELL NAME	H B Shell West Cameron F24 West.	LDG. FLG. TO KB	1320	CASING	DEPTH	SIZE	WEIGHT	GRADE	CEMENT	ACID	PLUG DOWN	COMPANY SUPERVISOR
CONTRACTOR	Thomson Drilling	K. B. ELEV.	2013	RECORD	117387	1034	40.5	K-55	1275		10.15 AM	
RIG NO.	6	GRD. ELEV.	2000								JAN 28/70	B. Johnston

	12 P.M. TO 8 A.M.										8 A.M. TO 4 P.M.										4 P.M. TO 12 P.M.																																																															
DEPTH	START										PROGRESS										END										START										PROGRESS										END																																	
BIT RECORD	NO.	SERIAL NO.	TYPE	SIZE	FROM	TO	FOOTAGE	HRS. RUN												NO.	SERIAL NO.	TYPE	SIZE	FROM	TO	FOOTAGE	HRS. RUN												NO.	SERIAL NO.	TYPE	SIZE	FROM	TO	FOOTAGE	HRS. RUN																																						
											Pressure tested blind Rams, 1st 14.0216, Kelly C&K 5' Control																																																																									
											1st 14.105, TO 1000 P.S.I. 15.00105																																																																									
DRILLING DATA	LINER SIZE		PUMP PRESSURE		TABLE SPEED		WEIGHT ON BIT													LINER SIZE		PUMP PRESSURE		TABLE SPEED		WEIGHT ON BIT													LINER SIZE		PUMP PRESSURE		TABLE SPEED		WEIGHT ON BIT																																							
DRILLING STRING	SIZE	STANDS	SINGLES	DRILL COL.	KELLY IN	CORE BBL.												SIZE	STANDS	SINGLES	DRILL COL.	KELLY IN	CORE BBL.												SIZE	STANDS	SINGLES	DRILL COL.	KELLY IN	CORE BBL.																																												
MUD RECORD	TYPE OF MUD		WEIGHT		VIS		WL		PH		FC													TYPE OF MUD		WEIGHT		VIS		WL		PH		FC													TYPE OF MUD		WEIGHT		VIS		WL		PH		FC																											
															Plug A/1127 KB																																																																					
															ADDITIVES CHECKED MOTOR SHUT OFFS																																																																					
CORING	NO.	FROM	TO	RECOVERED	FORMATION												NO.	FROM	TO	RECOVERED	FORMATION												NO.	FROM	TO	RECOVERED	FORMATION																																															
SURVEY	DEG. AT		FT.		DEG. AT		FT.		DEG. AT		FT.													DEG. AT		FT.		DEG. AT		FT.		DEG. AT		FT.													DEG. AT		FT.		DEG. AT		FT.		DEG. AT		FT.																											
DRILL STEM TESTS	NO.		INTERVAL		FORMATION													NO.		INTERVAL		FORMATION													NO.		INTERVAL		FORMATION																																													
	VALVE OPEN (MINS.)		INITIAL SHUT-IN (MINS.)		FINAL SHUT-IN (MINS.)													VALVE OPEN (MINS.)		INITIAL SHUT-IN (MINS.)		FINAL SHUT-IN (MINS.)													VALVE OPEN (MINS.)		INITIAL SHUT-IN (MINS.)		FINAL SHUT-IN (MINS.)																																													
	GAS TO SURFACE		MIN. @		MCF/D MAX.													GAS TO SURFACE		MIN. @		MCF/D MAX.													GAS TO SURFACE		MIN. @		MCF/D MAX.																																													
	OIL TO SURFACE		MIN. @		BBL/D MAX.													OIL TO SURFACE		MIN. @		BBL/D MAX.													OIL TO SURFACE		MIN. @		BBL/D MAX.																																													
	RECOVERY:																												RECOVERY:																												RECOVERY:																											
	PRESSURES (PSI):		HP	FP	ISIP	FSIP												PRESSURES (PSI):		HP	FP	ISIP	FSIP												PRESSURES (PSI):		HP	FP	ISIP	FSIP																																												
REMARKS INCLUDING: CEMENTING LOGGING PERFORATING ACIDIZING FRACTURING PLUGS	FROM	TO	DESCRIPTION OF WORK											FROM	TO	DESCRIPTION OF WORK											FROM	TO	DESCRIPTION OF WORK																																																							
	1200	100	Weld bawl																																																																																	
		800	Pick up split B.O.P's hook											400	830	Drill down hole gravel pack											800	400	Lead up																																																							
			Hydral chaffer center speed											830	1030	Run in to pressure test & Drill out																																																																				
														1030	1200	Pressure test																																																																				
DRILLER	B. Frim											NO. HELPERS	4											DRILLER	B. Frim											NO. HELPERS	4											DRILLER												NO. HELPERS																								

DAILY DRILLERS REPORT

Hudson's Bay Oil and Gas Company Limited

Jan 28 DATE 1970

WELL NAME		LDG. FLG. TO KB		CASING RECORD	DEPTH	SIZE	WEIGHT	GRADE	CEMENT	ACID	PLUG DOWN	COMPANY SUPERVISOR			
CONTRACTOR		K. B. ELEV.													
RIG NO.		GRD. ELEV.		12 P.M. TO 8 A.M.				8 A.M. TO 4 P.M.				4 P.M. TO 12 P.M.			
HB Shell West Canyon F-24		2013.20		1173	10 3/4	40.5	K-55	1275			10-15 AM	J. H. Carter			
Lyon Oil		2000									JAN 28/70				
TYPE RIG		TOOL PUSHER		START				PROGRESS				END			
BRUNNEN		J. Cumby		NO. SERIAL NO. TYPE SIZE FROM TO FOOTAGE HRS. RUN				NO. SERIAL NO. TYPE SIZE FROM TO FOOTAGE HRS. RUN				NO. SERIAL NO. TYPE SIZE FROM TO FOOTAGE HRS. RUN			
FORMATION DESCRIPTION		PLUG BACK DEPTH		1171.03 K.B.				1171.03 K.B.				1171.03 K.B.			
SHALE 0-90'															
GRAVEL 90-120'															
LINER SIZE		PUMP PRESSURE		TABLE SPEED		WEIGHT ON BIT		LINER SIZE		PUMP PRESSURE		TABLE SPEED		WEIGHT ON BIT	
3 1/2" 120-700'															
SIZE		STANDS		SINGLES		DRILL COL.		KELLY IN		CORE BBL.		SIZE		STANDS	
GRAVEL 700-1070															
TYPE OF MUD		WEIGHT		VIS		WL		PH		FC		TYPE OF MUD		WEIGHT	
SHALE 1070-1175		10		110											
ADDITIVES		36 LBS 10 3/4" CASING ON LEASE		NEW CASING 1178.87 CEMENTED w/ 1275		ADDITIVES		36 LBS 10 3/4" CASING ON LEASE		NEW CASING 1178.87 CEMENTED w/ 1275		ADDITIVES		36 LBS 10 3/4" CASING ON LEASE	
FROM TO RECOVERED FORMATION		FROM TO RECOVERED FORMATION		FROM TO RECOVERED FORMATION		FROM TO RECOVERED FORMATION		FROM TO RECOVERED FORMATION		FROM TO RECOVERED FORMATION		FROM TO RECOVERED FORMATION		FROM TO RECOVERED FORMATION	
1170.75 1171.03 1171.03 1171.03		1170.75 1171.03 1171.03 1171.03		1170.75 1171.03 1171.03 1171.03		1170.75 1171.03 1171.03 1171.03		1170.75 1171.03 1171.03 1171.03		1170.75 1171.03 1171.03 1171.03		1170.75 1171.03 1171.03 1171.03		1170.75 1171.03 1171.03 1171.03	
DEG. AT FT.		DEG. AT FT.		DEG. AT FT.		DEG. AT FT.		DEG. AT FT.		DEG. AT FT.		DEG. AT FT.		DEG. AT FT.	
1170.75 1171.03		1170.75 1171.03		1170.75 1171.03		1170.75 1171.03		1170.75 1171.03		1170.75 1171.03		1170.75 1171.03		1170.75 1171.03	
NO. INTERVAL FORMATION		NO. INTERVAL FORMATION		NO. INTERVAL FORMATION		NO. INTERVAL FORMATION		NO. INTERVAL FORMATION		NO. INTERVAL FORMATION		NO. INTERVAL FORMATION		NO. INTERVAL FORMATION	
VALVE OPEN (MINS.)		INITIAL SHUT-IN (MINS.)		FINAL SHUT-IN (MINS.)		VALVE OPEN (MINS.)		INITIAL SHUT-IN (MINS.)		FINAL SHUT-IN (MINS.)		VALVE OPEN (MINS.)		INITIAL SHUT-IN (MINS.)	
GAS TO SURFACE		MIN. @		MCF/D MAX.		GAS TO SURFACE		MIN. @		MCF/D MAX.		GAS TO SURFACE		MIN. @	
OIL TO SURFACE		MIN. @		BBL/D MAX.		OIL TO SURFACE		MIN. @		BBL/D MAX.		OIL TO SURFACE		MIN. @	
RECOVERY:		RECOVERY:		RECOVERY:		RECOVERY:		RECOVERY:		RECOVERY:		RECOVERY:		RECOVERY:	
PRESSURES (PSI):		HP FP		ISIP FSIP		PRESSURES (PSI):		HP FP		ISIP FSIP		PRESSURES (PSI):		HP FP	
FROM TO DESCRIPTION OF WORK		FROM TO DESCRIPTION OF WORK		FROM TO DESCRIPTION OF WORK		FROM TO DESCRIPTION OF WORK		FROM TO DESCRIPTION OF WORK		FROM TO DESCRIPTION OF WORK		FROM TO DESCRIPTION OF WORK		FROM TO DESCRIPTION OF WORK	
1200 1230 Rig to run casing		800 830 Circulate casing		400 900 W.O.C.		1230 6 1/2" Well shoe & float valve		830 1015 Cement & Pump Plug		900 1200 Weld band W.O.C.		6 1/2" 6 1/2" Run casing		6 1/2" 800 Circulate casing	
CEMENTING		CEMENTING		CEMENTING		CEMENTING		CEMENTING		CEMENTING		CEMENTING		CEMENTING	
LOGGING		LOGGING		LOGGING		LOGGING		LOGGING		LOGGING		LOGGING		LOGGING	
PERFORATING		PERFORATING		PERFORATING		PERFORATING		PERFORATING		PERFORATING		PERFORATING		PERFORATING	
ACIDIZING		ACIDIZING		ACIDIZING		ACIDIZING		ACIDIZING		ACIDIZING		ACIDIZING		ACIDIZING	
FRACTURING		FRACTURING		FRACTURING		FRACTURING		FRACTURING		FRACTURING		FRACTURING		FRACTURING	
PLUGS		PLUGS		PLUGS		PLUGS		PLUGS		PLUGS		PLUGS		PLUGS	
DRILLER		NO. HELPERS		DRILLER		NO. HELPERS		DRILLER		NO. HELPERS		DRILLER		NO. HELPERS	
B. Green		4		H. Carter		4		H. Carter		4		H. Carter		4	

DAILY DRILLERS REPORT

Hudson's Bay Oil and Gas Company Limited

DATE Jan 27/70

WELL NAME		LDG. FLG. TO KB		CASING RECORD	DEPTH	SIZE	WEIGHT	GRADE	CEMENT	ACID	PLUG DOWN	COMPANY SUPERVISOR																																																	
CONTRACTOR		K. B. ELEV.																																																											
RIG NO.		GRD. ELEV.																																																											
12 P.M. TO 8 A.M.													8 A.M. TO 4 P.M.													4 P.M. TO 12 P.M.																																			
DEPTH		START				PROGRESS				END				START		PROGRESS				END				START		PROGRESS				END																															
		NO.	SERIAL NO.	TYPE	SIZE	FROM	TO	FOOTAGE	HRS. RUN	NO.	SERIAL NO.	TYPE	SIZE	FROM	TO	FOOTAGE	HRS. RUN	NO.	SERIAL NO.	TYPE	SIZE	FROM	TO	FOOTAGE	HRS. RUN	NO.	SERIAL NO.	TYPE	SIZE	FROM	TO	FOOTAGE	HRS. RUN																												
BIT RECORD		SA TL-155				OSC 3 15				1020 1174				154 7 1/4				SA TL-155				OSC 3 15				1020 1174				154 7 1/4				3' Run in 11 1/2" MAGNET TO TRY				8' Run 8 3/4 CONES LOST AT 1075				NO IRON ON MAGNET. END																			
DRILLING DATA		LINER SIZE				PUMP PRESSURE				TABLE SPEED				WEIGHT ON BIT				LINER SIZE				PUMP PRESSURE				TABLE SPEED				WEIGHT ON BIT				LINER SIZE				PUMP PRESSURE				TABLE SPEED				WEIGHT ON BIT															
DRILLING STRING		SIZE				STANDS				SINGLES				DRILL COL.				KELLY IN				CORE BBL.				SIZE				STANDS				SINGLES				DRILL COL.				KELLY IN				CORE BBL.															
		5				78480				36471				1338				Sub 11				4 1/2				36471				11 11				Hole from casing				Dep partial of cone in 15" bit																							
MUD RECORD		TYPE OF MUD				WEIGHT				VIS				WL				PH				FC				TYPE OF MUD				WEIGHT				VIS				WL				PH				FC															
						96				175																9.6				200																															
						96				200																																																			
ADDITIVES		Nil																																																											
CORING		NO.				FROM				TO				RECOVERED				FORMATION				NO.				FROM				TO				RECOVERED				FORMATION				NO.				FROM				TO				RECOVERED				FORMATION			
SURVEY		DEG. AT				FT.				DEG. AT				FT.				DEG. AT				FT.				DEG. AT				FT.				DEG. AT				FT.				DEG. AT				FT.				DEG. AT				FT.							
DRILL STEM TESTS		NO.				INTERVAL				FORMATION				NO.				INTERVAL				FORMATION				NO.				INTERVAL				FORMATION				NO.				INTERVAL				FORMATION				NO.				INTERVAL				FORMATION			
		VALVE OPEN (MINS.)				INITIAL SHUT-IN (MINS.)				FINAL SHUT-IN (MINS.)				VALVE OPEN (MINS.)				INITIAL SHUT-IN (MINS.)				FINAL SHUT-IN (MINS.)				VALVE OPEN (MINS.)				INITIAL SHUT-IN (MINS.)				FINAL SHUT-IN (MINS.)				VALVE OPEN (MINS.)				INITIAL SHUT-IN (MINS.)				FINAL SHUT-IN (MINS.)															
		GAS TO SURFACE				MIN. @				MCF/D MAX.				GAS TO SURFACE				MIN. @				MCF/D MAX.				GAS TO SURFACE				MIN. @				MCF/D MAX.				GAS TO SURFACE				MIN. @				MCF/D MAX.															
		OIL TO SURFACE				MIN. @				BBL/D MAX.				OIL TO SURFACE				MIN. @				BBL/D MAX.				OIL TO SURFACE				MIN. @				BBL/D MAX.				OIL TO SURFACE				MIN. @				BBL/D MAX.															
RECOVERY:																																																													
PRESSURES (PSI):		HP				FP				ISIP				FSIP				PRESSURES (PSI):				HP				FP				ISIP				FSIP				PRESSURES (PSI):				HP				FP				ISIP				FSIP							
REMARKS INCLUDING: CEMENTING LOGGING PERFORATING ACIDIZING FRACTURING PLUGS		FROM		TO		DESCRIPTION OF WORK												FROM		TO		DESCRIPTION OF WORK												FROM		TO		DESCRIPTION OF WORK																							
		1200		1275		Big service												800		900		Circ over iron (2 cores)												400		415		Rig service																							
		1275		400		Run 8 3/4 15"												900		1100		Hoist out & survey												415		515		Run in w/ 15" bit.																							
		400		600		Trip to con hole												1100		1130		Pick up magnet & run in												515		530		Work over cone log																							
		600		800		Circulate to condition hole												1130		1230		Run in w/ 11 1/2" Magnet.												530		600		Delg 2'																							
		800		800		Circ. Work magnet.												1230		115		Circ. Work magnet.												600		615		Circ hole																							
																		115		300		Hoist magnet.												615		800		Lip out																							
																		300		400		Run in w/ 15" bit.												800		945		Run in w/ 8 3/4																							
																																		945		1015		Pilot w/ 8 3/4																							
																																		1015		1045		Lugulate																							
																																		1045		1145		Hoist the iron line, Rig to																							
DRILLER		B. Gien		NO. HELPERS		4		DRILLER		H. Carter		NO. HELPERS		5		DRILLER		H. Carter		NO. HELPERS		5																																							

Hudson's Bay Oil and Gas Company Limited										DAILY DRILLERS REPORT										DATE Jan 26/70									
WELL NAME AB Shell West Canadian #24										LDG. FLG. TO KB 13.20										CASING RECORD									
CONTRACTOR Thomas Dwyer										TYPE RIG 145 Brunner										K. B. ELEV.									
RIG NO. 6										TOOL PUSHER J. Crubaly										GRD. ELEV.									
12 P.M. TO 8 A.M.										8 A.M. TO 4 P.M.										4 P.M. TO 12 P.M.									
DEPTH START 598 PROGRESS 179 END 777										START 777 PROGRESS 233 END 1010										START 1010 PROGRESS 60' END 1070									
BIT RECORD										BIT RECORD										BIT RECORD									
DRILLING DATA										DRILLING DATA										DRILLING DATA									
DRILLING STRING										DRILLING STRING										DRILLING STRING									
MUD RECORD										MUD RECORD										MUD RECORD									
CORING										CORING										CORING									
SURVEY										SURVEY										SURVEY									
DRILL STEM TESTS										DRILL STEM TESTS										DRILL STEM TESTS									
REMARKS INCLUDING: CEMENTING LOGGING PERFORATING ACIDIZING FRACTURING PLUGS										REMARKS INCLUDING: CEMENTING LOGGING PERFORATING ACIDIZING FRACTURING PLUGS										REMARKS INCLUDING: CEMENTING LOGGING PERFORATING ACIDIZING FRACTURING PLUGS									
DRILLER B. J. ...										DRILLER A. ...										DRILLER G. ...									

DATE Jan 25/77

Hudson's Bay Oil and Gas Company Limited

WELL NAME						LDG. FLG. TO KB						CASING RECORD		DEPTH		SIZE		WEIGHT		GRADE		CEMENT		ACID		PLUG DOWN		COMPANY SUPERVISOR																																																																																					
CONTRACTOR						K. B. ELEV.																						b. h. m. e. r.																																																																																					
RIG NO.						GRD. ELEV.																																																																																																											
H. B. Shell West Cameron #24						13.20																																																																																																											
Thomson Dalg						2013																																																																																																											
Dia						2000																																																																																																											
TYPE RIG						TOOL PUSHER																																																																																																											
N45 Brewster						St. Cammy																																																																																																											
12 P.M. TO 8 A.M.						8 A.M. TO 4 P.M.												4 P.M. TO 12 P.M.																																																																																															
DEPT. H						START						PROGRESS						END						START						PROGRESS						END																																																																													
NO.						SERIAL NO.						TYPE						SIZE						FROM						TO						FOOTAGE						HRS. RUN																																																																							
BIT RECORD						2A 17206						X3A 8 3/4						598						952						354						6 1/2						2A 17206						X3A 8 3/4						598						1060						462						13 1/4						3A 97664						ONV 8 3/4						1000						1175						115						4 1/2					
DRILLING DATA						LINER SIZE						PUMP PRESSURE						TABLE SPEED						WEIGHT ON BIT						LINER SIZE						PUMP PRESSURE						TABLE SPEED						WEIGHT ON BIT																																																																	
S						950						180						10-15						5"						950						160						10-18						5"						900						160						15-20																																															
DRILLING STRING						SIZE						STANDS						SINGLES						DRILL COL.						KELLY IN						CORE BBL.						SIZE						STANDS						SINGLES						DRILL COL.						KELLY IN						CORE BBL.																																									
4 1/2						6						50						364.77						40						4 1/2						364.77																																																																													
MUD RECORD						TYPE OF MUD						WEIGHT						VIS						WL						PH						FC						TYPE OF MUD						WEIGHT						VIS						WL						PH						FC																																									
Gel						9.5						90																								Gel						9.6						120																																																																	
						95						120																								Canitic						9.6						135																																																																	
ADDITIVES																																				ADDITIVES						Gel - 2500*																																																																							
CORING						NO.						FROM						TO						RECOVERED						FORMATION						NO.						FROM						TO						RECOVERED						FORMATION																																																					
SURVEY						10 DEG. AT						74 FT.						1/2 DEG. AT						952 FT.						DEG. AT						FT.						DEG. AT						1060 FT.						DEG. AT						FT.						DEG. AT						1060 FT.						DEG. AT						FT.						DEG. AT						FT.																	
DRILL STEM TESTS						VALVE OPEN (MINS.)						INITIAL SHUT-IN (MINS.)						FINAL SHUT-IN (MINS.)						GAS TO SURFACE						MIN. @						MCF/D MAX.						OIL TO SURFACE						MIN. @						BBL/D MAX.						RECOVERY:						PRESSURES (PSI):						HP						FP						ISIP						FSIP																							
REMARKS INCLUDING:						FROM						TO						DESCRIPTION OF WORK						FROM						TO						DESCRIPTION OF WORK						FROM						TO						DESCRIPTION OF WORK																																																											
CEMENTING						1200						1215						Rig Service						800						815						Rig Service						400						415						Rig Ser:																																																											
LOGGING						1215						100						Log						815						10 30						Drill 8 3/4 Hole						415						6 06						Hole 2 cons gone																																																											
PERFORATING						100						330						Pilot w/8 3/4 to check formation						10 30						11 10						Work on Pump Bottom						6 00						7 00						Run in.																																																											
ACIDIZING						330						345						Survey @ 741 10						11 10						3 30						Drill 8 3/4 Hole						7 00						7 30						Clean gravel to bottom major																																																											
FRACTURING						345						730						Drill						3 30						4 00						Survey @ Blow Kelly						7 30						11 30						Drill 8 3/4																																																											
PLUGS						730						745						Survey						3 30						4 00												11 30						12 00						Cic hole clean & drop survey																																																											
						745						800						Drill																																																																																															
DRILLER						A. F. i. n.						NO. HELPERS						4						DRILLER						H. C. u. t. e. r.						NO. HELPERS						5						DRILLER						L. S. k. e. n. n. e. r.						NO. HELPERS						4																																															

DRILLER <i>George Skinner</i>	NO. HELPERS <i>4</i>	DRILLER <i>S. L. Lister</i>	NO. HELPERS <i>4</i>	DRILLER <i>H. Carter</i>	NO. HELPERS <i>2</i>
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DAILY DRILLING REPORT

DAY WORK RECORD

NOTE—Please show FOOTAGE made while "Control Drilling" as well as HOURS

RIG No. 6 LOCATION H. P. 200 Unit AREA N.W.T. DATE Feb 21 1970

Spec. 7 actual hours worked		Hrs.
Driller	Howard Carter	12
Derrick	Howard McLeod	12
Floor	Dave Barnes	8
Floor	Victor E. Casavant	12
Floor		
Motor	William Kaines	12
Mechanic		
Extra	Dave Barnes	12
Injuries:	ind. back lifting heavy bag	
Fires:	Victor E. Casavant no hard hat.	
N. L. T. A. - 113 days		
Time - 8 a.m. to 4 p.m.		
Specify actual hours worked		Hrs.

Driller	
Derrick	
Floor	
Floor	
Floor	
Motor	
Mechanic	
Extra	
Injuries:	
Fires:	

Tour — 4 p.m. to Midnight	
Specify actual hours worked	Hrs.
Driller	
Derrick <i>W. H. H. H.</i>	<i>12</i>
Floor <i>W. H. H. H.</i>	<i>12</i>
Floor <i>W. H. H. H.</i>	<i>12</i>
Floor <i>W. H. H. H.</i>	<i>12</i>
Motor	
Mechanic <i>W. H. H. H.</i>	<i>12</i>
Extra	
Injuries: <i>W. H. H. H.</i>	
Fires: <i>W. H. H. H.</i>	

From	Footage	To	Hrs. on Bottom	Wt. Drill String (1000 lbs.)	DRILL COLLARS				FUEL	WATER		COAL		Stands	
					No.	O.D.	I.D.	Wgt.		Gals.	Bbls.	Tons			
														Singles	
BITS	No.	Size	Type	Size Jets	Serial No.	Weight	R.P.M.	Ft. Drilled	Hrs.	Feet Reamed	Hrs.	CONDITION		D. Collars	
														Other Ft.	
														C.B. Ft.	
MUD		12 Mn.	2 a.m.	4 a.m.	6 a.m.	Additives			At Surveys Degree		MOTOR HOURS		Next Oil Change	Subs. Ft.	
WEIGHT											1 1320		177		
VISCOSITY											2 9440		188		
GEL											3 7726		191	Ft. Up On Kelly	
PUMPS	No. 1	Pressure									4 7518		164		TOTAL
	Model	S.P.M.									5 7215		187		
		Liner Size				Size	TRIPS	No. Lines	TON MILES	TOTAL MILES	Slip	Feet or	Cut	Feet Left on Spool	Next Slip
	No. 2	Pressure				16	13	8	238	1413				2770	220
	Model	S.P.M.				General									
		Liner Size													

W.L.		F.C.		pH.																										
From		Footage		To		Hrs. on Bottom		Wt. Drill String (1000 lbs.)		DRILL COLLARS				FUEL		WATER		COAL		Stands										
										No.	O.D.	I.D.	Wgt.		Gals.		Bbbs.		Tons		Singles									
BITS	No.	Size	Type	Size Jets		Serial No.		Weight		R.P.M.		Ft. Drilled		Hrs.		Feet Reamed		Hrs.		CONDITION		D. Collars								
																						Other Ft.								
																						C.B. Ft.								
																						Subs. Ft.								
MUD		8 a.m.		10 a.m.		12 Noon		2 p.m.		Additives				At Surveys. Degree		MOTOR HOURS		Next Oil Change				Ft. Up On Kelly								
WEIGHT																1						TOTAL								
VISCOSITY																2														
GEL																3														
PUMPS	No.	Pres-sure																		4										
	Model	S.P.M.																		5										
	No. 2	Pres-sure																												
	Model	S.P.M.																												
		Liner Size								Size	TRIPS	No. Lines	TON MILES	TOTAL MILES	Slip		Feet of	Cut	Feet Left on Spool		Next Slip									
										General																				
W.L.		F.C.		pH.																										

From		Footage		To	Mrs. on Bottom	Wt. Drill String (1000 lbs.)		DRILL COLLARS				FUEL	WATER		COAL		Stands	
								No.	O.D.	I.D.	Wgt.	Gals.		Bbls.		Tons		Singles
BITS	No.	Size	Type	Size Jets	Serial No.	Weight	R.P.M.	Ft. Drilled	Hrs.	Feet Reamed	Hrs.	CONDITION		D. Collars				
														Other Ft.				
														C.B. Ft.				
														Subs. Ft.				
MUD		4 p.m.	6 p.m.	8 p.m.	10 p.m.	Additives				At Surveys Degree		MOTOR HOURS		Next Oil Change		Ft. Up On Kelly		
WEIGHT												1						
VISCOSITY												2						
GEL												3						
PUMPS	No. 1	Pressure									4						TOTAL	
	Model	S.P.M.									5							
	Liner Size																	
	No. 2	Pressure					Size	TRIPS	No. Lines	TON MILES	TOTAL MILES	Slip	Feet or	Cut	Feet Left on Spool	Next Slip		
Model		S.P.M.																
Liner Size																		
W.L.		F.C.		pH.														

REMARKS	Time		
	Start	Stop	Interval
Set 2 C on Plug No 2	1:00	6:30	6 1/2
Set 1 Plug No 2 5025			
Handled out of hole to set Plug No 2	6:30	2:00	1 1/2
			8
Field Plug No 2 @ 6:30 A.M. Feb 21/70			
to 5025			
Company Time	Cont's Time		
Shut in well - in to set Plug No 2	9:00	9:45	3/4
Set Plug No 3	9:45	9:15	1/2
W.D.C. on Plug No 3	9:15		
Lay down last pipe		4:00	6 3/4
Plug No 2 1995 - 11:50		11:00	
2 3/4 h			
Plug No 3 @ 9:15 A.M. Feb 21/70			
Company Time	Cont's Time		
W.D.C. on Plug No 3	4:00	4:45	3/4
Set Plug No 3 @ 11:00	4:45	5:15	1/2
Lay down pipe, lay down in well	5:15	6:00	3 1/4
Set 1 Plug			
Turn out 80 PS - lay down	6:00	6:30	3/4
Remove Dig. valve - set casing	6:30	7:15	1 1/2
Set Plug No 4			
Set 5 Plug - set last			
Set 6 Plug - set last			
TOTAL	Field Plug No 3 @ 11:00	11:00	11:00
Company Time	Cont's Time		

Totco Ring on Bit No.

D.P. Calipered Date

Results

From Pipe Rack

Total Contractor Time

Hrs:

Toolpusher

B.O.P. Test-Operated

Time

Results

Total Company Time

Hrs.

Approved

THOMSON DRILLING

DAILY DRILLING REPORT

DAY WORK RECORD

NOTE—Please show FOOTAGE made while "Control Drilling" as well as HOURS.

RIG No. 6 LOCATION H.B. Shell West America F24 AREA N.W.T. DATE Feb 20 1970

Tour — Midnight - 8 a.m.		From	Footage	To	Hrs. on Bottom	Wt. Drill String (1000 lbs.)	DRILL COLLARS			FUEL	WATER	COAL	Stands
Specify actual hours worked		No.	Size	Type	Size Jets	Serial No.	Weight	R.P.M.	Ft. Drilled	Hrs.	Feet Reamed	Hrs.	CONDITION
Driller	<u>Howard L. L...</u>												
Derrick	<u>Howard L. L...</u>												
Floor	<u>David B...</u>												
Floor	<u>David B...</u>												
Floor	<u>David B...</u>												
Motor	<u>William R...</u>												
Mechanic													
Extra													
Injuries:													
Fires:													
Tour — 8 a.m. to 4 p.m.		From	Footage	To	Hrs. on Bottom	Wt. Drill String (1000 lbs.)	DRILL COLLARS			FUEL	WATER	COAL	Stands
Specify actual hours worked		No.	Size	Type	Size Jets	Serial No.	Weight	R.P.M.	Ft. Drilled	Hrs.	Feet Reamed	Hrs.	CONDITION
Driller	<u>John K...</u>												
Derrick	<u>John K...</u>												
Floor	<u>John K...</u>												
Floor	<u>John K...</u>												
Floor	<u>John K...</u>												
Motor	<u>John K...</u>												
Mechanic													
Extra													
Injuries:													
Fires:													
Tour — 4 p.m. to Midnight		From	Footage	To	Hrs. on Bottom	Wt. Drill String (1000 lbs.)	DRILL COLLARS			FUEL	WATER	COAL	Stands
Specify actual hours worked		No.	Size	Type	Size Jets	Serial No.	Weight	R.P.M.	Ft. Drilled	Hrs.	Feet Reamed	Hrs.	CONDITION
Driller	<u>John K...</u>												
Derrick	<u>John K...</u>												
Floor	<u>John K...</u>												
Floor	<u>John K...</u>												
Floor	<u>John K...</u>												
Motor	<u>John K...</u>												
Mechanic													
Extra													
Injuries:													
Fires:													

REMARKS	Time		
	Start	Stop	Interval
<u>1st run 1100</u>	<u>1100</u>	<u>1245</u>	<u>1 45</u>
<u>2nd run 1145</u>	<u>1145</u>	<u>1215</u>	<u>30</u>
<u>3rd run 1215</u>	<u>1215</u>	<u>1245</u>	<u>30</u>
<u>4th run 1245</u>	<u>1245</u>	<u>1300</u>	<u>55</u>
<u>5th run 1300</u>	<u>1300</u>	<u>1345</u>	<u>45</u>
<u>6th run 1345</u>	<u>1345</u>	<u>1400</u>	<u>55</u>
<u>7th run 1400</u>	<u>1400</u>	<u>1445</u>	<u>45</u>
<u>8th run 1445</u>	<u>1445</u>	<u>1500</u>	<u>55</u>
<u>9th run 1500</u>	<u>1500</u>	<u>1545</u>	<u>45</u>
<u>10th run 1545</u>	<u>1545</u>	<u>1600</u>	<u>55</u>
<u>11th run 1600</u>	<u>1600</u>	<u>1645</u>	<u>45</u>
<u>12th run 1645</u>	<u>1645</u>	<u>1700</u>	<u>55</u>
<u>13th run 1700</u>	<u>1700</u>	<u>1745</u>	<u>45</u>
<u>14th run 1745</u>	<u>1745</u>	<u>1800</u>	<u>55</u>
<u>15th run 1800</u>	<u>1800</u>	<u>1845</u>	<u>45</u>
<u>16th run 1845</u>	<u>1845</u>	<u>1900</u>	<u>55</u>
<u>17th run 1900</u>	<u>1900</u>	<u>1945</u>	<u>45</u>
<u>18th run 1945</u>	<u>1945</u>	<u>2000</u>	<u>55</u>
<u>19th run 2000</u>	<u>2000</u>	<u>2045</u>	<u>45</u>
<u>20th run 2045</u>	<u>2045</u>	<u>2100</u>	<u>55</u>
<u>21st run 2100</u>	<u>2100</u>	<u>2145</u>	<u>45</u>
<u>22nd run 2145</u>	<u>2145</u>	<u>2200</u>	<u>55</u>
<u>23rd run 2200</u>	<u>2200</u>	<u>2245</u>	<u>45</u>
<u>24th run 2245</u>	<u>2245</u>	<u>2300</u>	<u>55</u>
<u>25th run 2300</u>	<u>2300</u>	<u>2345</u>	<u>45</u>
<u>26th run 2345</u>	<u>2345</u>	<u>2400</u>	<u>55</u>
<u>27th run 2400</u>	<u>2400</u>	<u>2445</u>	<u>45</u>
<u>28th run 2445</u>	<u>2445</u>	<u>2500</u>	<u>55</u>
<u>29th run 2500</u>	<u>2500</u>	<u>2545</u>	<u>45</u>
<u>30th run 2545</u>	<u>2545</u>	<u>2600</u>	<u>55</u>
<u>31st run 2600</u>	<u>2600</u>	<u>2645</u>	<u>45</u>
<u>32nd run 2645</u>	<u>2645</u>	<u>2700</u>	<u>55</u>
<u>33rd run 2700</u>	<u>2700</u>	<u>2745</u>	<u>45</u>
<u>34th run 2745</u>	<u>2745</u>	<u>2800</u>	<u>55</u>
<u>35th run 2800</u>	<u>2800</u>	<u>2845</u>	<u>45</u>
<u>36th run 2845</u>	<u>2845</u>	<u>2900</u>	<u>55</u>
<u>37th run 2900</u>	<u>2900</u>	<u>2945</u>	<u>45</u>
<u>38th run 2945</u>	<u>2945</u>	<u>3000</u>	<u>55</u>
<u>39th run 3000</u>	<u>3000</u>	<u>3045</u>	<u>45</u>
<u>40th run 3045</u>	<u>3045</u>	<u>3100</u>	<u>55</u>
<u>41st run 3100</u>	<u>3100</u>	<u>3145</u>	<u>45</u>
<u>42nd run 3145</u>	<u>3145</u>	<u>3200</u>	<u>55</u>
<u>43rd run 3200</u>	<u>3200</u>	<u>3245</u>	<u>45</u>
<u>44th run 3245</u>	<u>3245</u>	<u>3300</u>	<u>55</u>
<u>45th run 3300</u>	<u>3300</u>	<u>3345</u>	<u>45</u>
<u>46th run 3345</u>	<u>3345</u>	<u>3400</u>	<u>55</u>
<u>47th run 3400</u>	<u>3400</u>	<u>3445</u>	<u>45</u>
<u>48th run 3445</u>	<u>3445</u>	<u>3500</u>	<u>55</u>
<u>49th run 3500</u>	<u>3500</u>	<u>3545</u>	<u>45</u>
<u>50th run 3545</u>	<u>3545</u>	<u>3600</u>	<u>55</u>
<u>51st run 3600</u>	<u>3600</u>	<u>3645</u>	<u>45</u>
<u>52nd run 3645</u>	<u>3645</u>	<u>3700</u>	<u>55</u>
<u>53rd run 3700</u>	<u>3700</u>	<u>3745</u>	<u>45</u>
<u>54th run 3745</u>	<u>3745</u>	<u>3800</u>	<u>55</u>
<u>55th run 3800</u>	<u>3800</u>	<u>3845</u>	<u>45</u>
<u>56th run 3845</u>	<u>3845</u>	<u>3900</u>	<u>55</u>
<u>57th run 3900</u>	<u>3900</u>	<u>3945</u>	<u>45</u>
<u>58th run 3945</u>	<u>3945</u>	<u>4000</u>	<u>55</u>
<u>59th run 4000</u>	<u>4000</u>	<u>4045</u>	<u>45</u>
<u>60th run 4045</u>	<u>4045</u>	<u>4100</u>	<u>55</u>
<u>61st run 4100</u>	<u>4100</u>	<u>4145</u>	<u>45</u>
<u>62nd run 4145</u>	<u>4145</u>	<u>4200</u>	<u>55</u>
<u>63rd run 4200</u>	<u>4200</u>	<u>4245</u>	<u>45</u>
<u>64th run 4245</u>	<u>4245</u>	<u>4300</u>	<u>55</u>
<u>65th run 4300</u>	<u>4300</u>	<u>4345</u>	<u>45</u>
<u>66th run 4345</u>	<u>4345</u>	<u>4400</u>	<u>55</u>
<u>67th run 4400</u>	<u>4400</u>	<u>4445</u>	<u>45</u>
<u>68th run 4445</u>	<u>4445</u>	<u>4500</u>	<u>55</u>
<u>69th run 4500</u>	<u>4500</u>	<u>4545</u>	<u>45</u>
<u>70th run 4545</u>	<u>4545</u>	<u>4600</u>	<u>55</u>
<u>71st run 4600</u>	<u>4600</u>	<u>4645</u>	<u>45</u>
<u>72nd run 4645</u>	<u>4645</u>	<u>4700</u>	<u>55</u>
<u>73rd run 4700</u>	<u>4700</u>	<u>4745</u>	<u>45</u>
<u>74th run 4745</u>	<u>4745</u>	<u>4800</u>	<u>55</u>
<u>75th run 4800</u>	<u>4800</u>	<u>4845</u>	<u>45</u>
<u>76th run 4845</u>	<u>4845</u>	<u>4900</u>	<u>55</u>
<u>77th run 4900</u>	<u>4900</u>	<u>4945</u>	<u>45</u>
<u>78th run 4945</u>	<u>4945</u>	<u>5000</u>	<u>55</u>
<u>79th run 5000</u>	<u>5000</u>	<u>5045</u>	<u>45</u>
<u>80th run 5045</u>	<u>5045</u>	<u>5100</u>	<u>55</u>
<u>81st run 5100</u>	<u>5100</u>	<u>5145</u>	<u>45</u>
<u>82nd run 5145</u>	<u>5145</u>	<u>5200</u>	<u>55</u>
<u>83rd run 5200</u>	<u>5200</u>	<u>5245</u>	<u>45</u>
<u>84th run 5245</u>	<u>5245</u>	<u>5300</u>	<u>55</u>
<u>85th run 5300</u>	<u>5300</u>	<u>5345</u>	<u>45</u>
<u>86th run 5345</u>	<u>5345</u>	<u>5400</u>	<u>55</u>
<u>87th run 5400</u>	<u>5400</u>	<u>5445</u>	<u>45</u>
<u>88th run 5445</u>	<u>5445</u>	<u>5500</u>	<u>55</u>
<u>89th run 5500</u>	<u>5500</u>	<u>5545</u>	<u>45</u>
<u>90th run 5545</u>	<u>5545</u>	<u>5600</u>	<u>55</u>
<u>91st run 5600</u>	<u>5600</u>	<u>5645</u>	<u>45</u>
<u>92nd run 5645</u>	<u>5645</u>	<u>5700</u>	<u>55</u>
<u>93rd run 5700</u>	<u>5700</u>	<u>5745</u>	<u>45</u>
<u>94th run 5745</u>	<u>5745</u>	<u>5800</u>	<u>55</u>
<u>95th run 5800</u>	<u>5800</u>	<u>5845</u>	<u>45</u>
<u>96th run 5845</u>	<u>5845</u>	<u>5900</u>	<u>55</u>
<u>97th run 5900</u>	<u>5900</u>	<u>5945</u>	<u>45</u>
<u>98th run 5945</u>	<u>5945</u>	<u>6000</u>	<u>55</u>
<u>99th run 6000</u>	<u>6000</u>	<u>6045</u>	<u>45</u>
<u>100th run 6045</u>	<u>6045</u>	<u>6100</u>	<u>55</u>
<u>101st run 6100</u>	<u>6100</u>	<u>6145</u>	<u>45</u>
<u>102nd run 6145</u>	<u>6145</u>	<u>6200</u>	<u>55</u>
<u>103rd run 6200</u>	<u>6200</u>	<u>6245</u>	<u>45</u>
<u>104th run 6245</u>	<u>6245</u>	<u>6300</u>	<u>55</u>
<u>105th run 6300</u>	<u>6300</u>	<u>6345</u>	<u>45</u>
<u>106th run 6345</u>	<u>6345</u>	<u>6400</u>	<u>55</u>
<u>107th run 6400</u>	<u>6400</u>	<u>6445</u>	<u>45</u>
<u>108th run 6445</u>	<u>6445</u>	<u>6500</u>	<u>55</u>
<u>109th run 6500</u>	<u>6500</u>	<u>6545</u>	<u>45</u>
<u>110th run 6545</u>	<u>6545</u>	<u>6600</u>	<u>55</u>
<u>111th run 6600</u>	<u>6600</u>	<u>6645</u>	<u>45</u>
<u>112th run 6645</u>	<u>6645</u>	<u>6700</u>	<u>55</u>
<u>113th run 6700</u>	<u>6700</u>	<u>6745</u>	<u>45</u>
<u>114th run 6745</u>	<u>6745</u>	<u>6800</u>	<u>55</u>
<u>115th run 6800</u>	<u>6800</u>	<u>6845</u>	<u>45</u>
<u>116th run 6845</u>	<u>6845</u>	<u>6900</u>	<u>55</u>
<u>117th run 6900</u>	<u>6900</u>	<u>6945</u>	<u>45</u>
<u>118th run 6945</u>	<u>6945</u>	<u>7000</u>	<u>55</u>
<u>119th run 7000</u>	<u>7000</u>	<u>7045</u>	<u>45</u>
<u>120th run 7045</u>	<u>7045</u>	<u>7100</u>	<u>55</u>
<u>121st run 7100</u>	<u>7100</u>	<u>7145</u>	<u>45</u>
<u>122nd run 7145</u>	<u>7145</u>	<u>7200</u>	<u>55</u>
<u>123rd run 7200</u>	<u>7200</u>	<u>7245</u>	<u>45</u>
<u>124th run 7245</u>	<u>7245</u>	<u>7300</u>	<u>55</u>
<u>125th run 7300</u>	<u>7300</u>	<u>7345</u>	<u>45</u>
<u>126th run 7345</u>	<u>7345</u>	<u>7400</u>	<u>55</u>
<u>127th run 7400</u>	<u>7400</u>	<u>7445</u>	<u>45</u>
<u>128th run 7445</u>	<u>7445</u>	<u>7500</u>	<u>55</u>
<u>129th run 7500</u>	<u>7500</u>	<u>7545</u>	<u>45</u>
<u>130th run 7545</u>	<u>7545</u>	<u>7600</u>	<u>55</u>
<u>131st run 7600</u>	<u>7600</u>	<u>7645</u>	<u>45</u>
<u>132nd run 7645</u>	<u>7645</u>	<u>7700</u>	<u>55</u>
<u>133rd run 7700</u>	<u>7700</u>		

THOMSON DRILLING

DAILY DRILLING REPORT

DAY WORK RECORD

NOTE—Please show FOOTAGE made while "Control Drilling" as well as HOURS.

RIG No. 6 LOCATION H B Shell West Cameron F24 AREA NWT DATE Feb 19 19 70

Tour — Midnight - 8 a.m.

Specify actual hours worked Hrs.

Driller Ken Friess 8

Derrick Wood 8

Floor James Campbell 8

Floor Frederick Henderson 8

Floor

Motor Stanton 8

Mechanic

Extra

Injuries:

Fires:

From	Footage	To	Hrs. on Bottom	Wt. Drill String (1000 lbs.)	DRILL COLLARS				FUEL	WATER	COAL	Stands
					No.	O.D.	I.D.	Wgt.	Gals.	Bbls.	Tons	

No.	Size	Type	Size Jets	Serial No.	Weight	R.P.M.	Ft. Drilled	Hrs.	Feet Reamed	Hrs.	CONDITION

MUD	12 Mn.	2 a.m.	4 a.m.	6 a.m.	Additives	At Surveys Degree	MOTOR HOURS	Next Oil Change

WEIGHT	VISCOSITY	GEL

No.	Pressure	Liner Size	Size	TRIPS	No. Lines	TON MILES	TOTAL MILES	Slip	Feet of Cut	Feet Left on Spool	Next Slip

No.	Pressure	Liner Size	General

W.L. 9.5 F.C. W34 H. 11

REMARKS	Start	Stop	Interval
<u>Loading</u>	<u>12:00</u>	<u>2:45</u>	<u>2 1/2</u>
<u>Run in to plane out.</u>	<u>2:45</u>	<u>5:00</u>	<u>2 1/2</u>
<u>Plane out Kelly & Blue Sample</u>	<u>5:00</u>	<u>5:30</u>	<u>30</u>
<u>Circulate in plane back to top</u>	<u>5:30</u>	<u>7:00</u>	<u>1 1/2</u>
<u>Hoist in run test No 3</u>	<u>7:00</u>	<u>7:00</u>	<u>1</u>

Tour — 8 a.m. to 4 p.m.

Specify actual hours worked Hrs.

Driller Ken Friess 8

Derrick Wood 8

Floor James Campbell 8

Floor Frederick Henderson 8

Floor

Motor Stanton 8

Mechanic

Extra

Injuries:

Fires:

From	Footage	To	Hrs. on Bottom	Wt. Drill String (1000 lbs.)	DRILL COLLARS				FUEL	WATER	COAL	Stands
					No.	O.D.	I.D.	Wgt.	Gals.	Bbls.	Tons	

No.	Size	Type	Size Jets	Serial No.	Weight	R.P.M.	Ft. Drilled	Hrs.	Feet Reamed	Hrs.	CONDITION

MUD	8 a.m.	10 a.m.	12 Noon	2 p.m.	Additives	At Surveys Degree	MOTOR HOURS	Next Oil Change

WEIGHT	VISCOSITY	GEL

No.	Pressure	Liner Size	Size	TRIPS	No. Lines	TON MILES	TOTAL MILES	Slip	Feet of Cut	Feet Left on Spool	Next Slip

No.	Pressure	Liner Size	General

W.L. 9.5 F.C. W34 pH. 11

REMARKS	Start	Stop	Interval
<u>Run in to plane out</u>	<u>7:00</u>	<u>7:00</u>	<u>1</u>
<u>Plane out Kelly & Blue Sample</u>	<u>7:00</u>	<u>7:00</u>	<u>1</u>
<u>Circulate in plane back to top</u>	<u>7:00</u>	<u>7:00</u>	<u>1</u>
<u>Hoist in run test No 3</u>	<u>7:00</u>	<u>7:00</u>	<u>1</u>

Tour — 4 p.m. to Midnight

Specify actual hours worked Hrs.

Driller Ken Friess 8

Derrick Wood 8

Floor James Campbell 8

Floor Frederick Henderson 8

Floor

Motor Stanton 8

Mechanic

Extra

Injuries:

Fires:

From	Footage	To	Hrs. on Bottom	Wt. Drill String (1000 lbs.)	DRILL COLLARS				FUEL	WATER	COAL	Stands
					No.	O.D.	I.D.	Wgt.	Gals.	Bbls.	Tons	

No.	Size	Type	Size Jets	Serial No.	Weight	R.P.M.	Ft. Drilled	Hrs.	Feet Reamed	Hrs.	CONDITION

MUD	4 p.m.	6 p.m.	8 p.m.	10 p.m.	Additives	At Surveys Degree	MOTOR HOURS	Next Oil Change

WEIGHT	VISCOSITY	GEL

No.	Pressure	Liner Size	Size	TRIPS	No. Lines	TON MILES	TOTAL MILES	Slip	Feet of Cut	Feet Left on Spool	Next Slip

No.	Pressure	Liner Size	General

W.L. 9.5 F.C. W34 pH. 11

REMARKS	Start	Stop	Interval
<u>Testing</u>	<u>7:00</u>	<u>7:00</u>	<u>1</u>
<u>Hoist Packer Back</u>	<u>7:00</u>	<u>7:00</u>	<u>1</u>
<u>Run in to plane out</u>	<u>7:00</u>	<u>7:00</u>	<u>1</u>

Totco Ring on Bit No. _____ D.P. Calipered Date _____ Results _____ From Pipe Rack _____

B.O.P. Test-Operated _____ Time _____ Results _____

Total Contractor Time _____ Hrs. Toolpusher _____

Total Company Time _____ Hrs. Approved by _____