

Drilling Authority No. 500
Date Issued 28 January 1971

WELL NAME Security GPO & G Simpson O-24
FIELD
LOCATION: Unit 0 Area:
Latitude 61-13-54.40 Section 34 Grid 61-20-121-30
U.W.L.R. 61.23178 -- 12.57730 Longitude 121-34-38.36
U.W.I. 3000246120121300

Rig Release Date:
Status:
Information Release Date...

CHANGE OF NAME:

DATE RECEIVED	INDEX
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	Well Completion Data.
	Well History Report.
	Application to Amend a Drilling Authority.
	Application to change a Well Name.
	Application to Abandon a Well or Suspend Drilling.
	Application to Alter Condition of a Well.
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	Data for Back Pressure Test on Natural Gas Wells - Monograph 7 Method.
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	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. 500

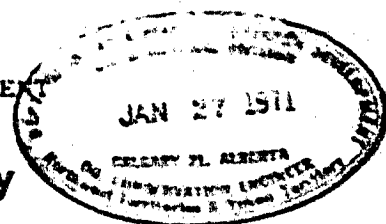
Project No.

File No.



DEPARTMENT OF INDIAN AFFAIRS AND NORTHERN DEVELOPMENT
OIL AND MINERAL 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 Security GPO&G Simpson 0-24
Location: Unit 0 Section 24 Grid 61°20'N, 121°30'W
Latitude 61°13'54.40" N Longitude 121°34'38.30"W
Unique Well Identifier 3000246130121300
Universal Well Location Reference Lat. 61.23178° N., Long. 121.57730°
Elevation: Ground 910.0 K.R. to follow feet above sea-level
Well is expected to produce from Pre-Devonian Zone formation at a depth
of about 3700 feet. Expected total final depth 3700
Area assigned to well

(For Oil Conservation Engineer's use only)

Permit No. 4302 Lease No. Acreage
Permitter, licensee, or lessee Security Freehold Petroleum Ltd. & Great Plains Oil & Gas Ltd.
Exploratory Licence No. 1690 1641
Surface owned by Crown or

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

Petroleum and natural-gas rights owned by Crown

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

Casing Size O.D. (Inches)	Weight (Lb./Ft.)	Grade	New or Used	Estimated Depth	Notes of Cement
1. 10-3/4	32.75	K55	New	600	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. 35 by Kenting Drilling Co.
(Drilling Contractor or company)

Responsible agent of applicant:— Contractor's business Licence No. 800

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

Address 11630 Kingsway Ave. Address 11630 Kingsway Avenue

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

Dated at Edmonton this 22 day of January 1971

Signed by [Signature] Company Hudson's Bay Oil & Gas Co., Ltd.

Title District Drilling Foreman Operator's Licence No. 1676

(For Oil and Mineral Division use only)

APPROVED

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

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

Dated 28th January 1971 Please see over page
Oil Conservation Engineer

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

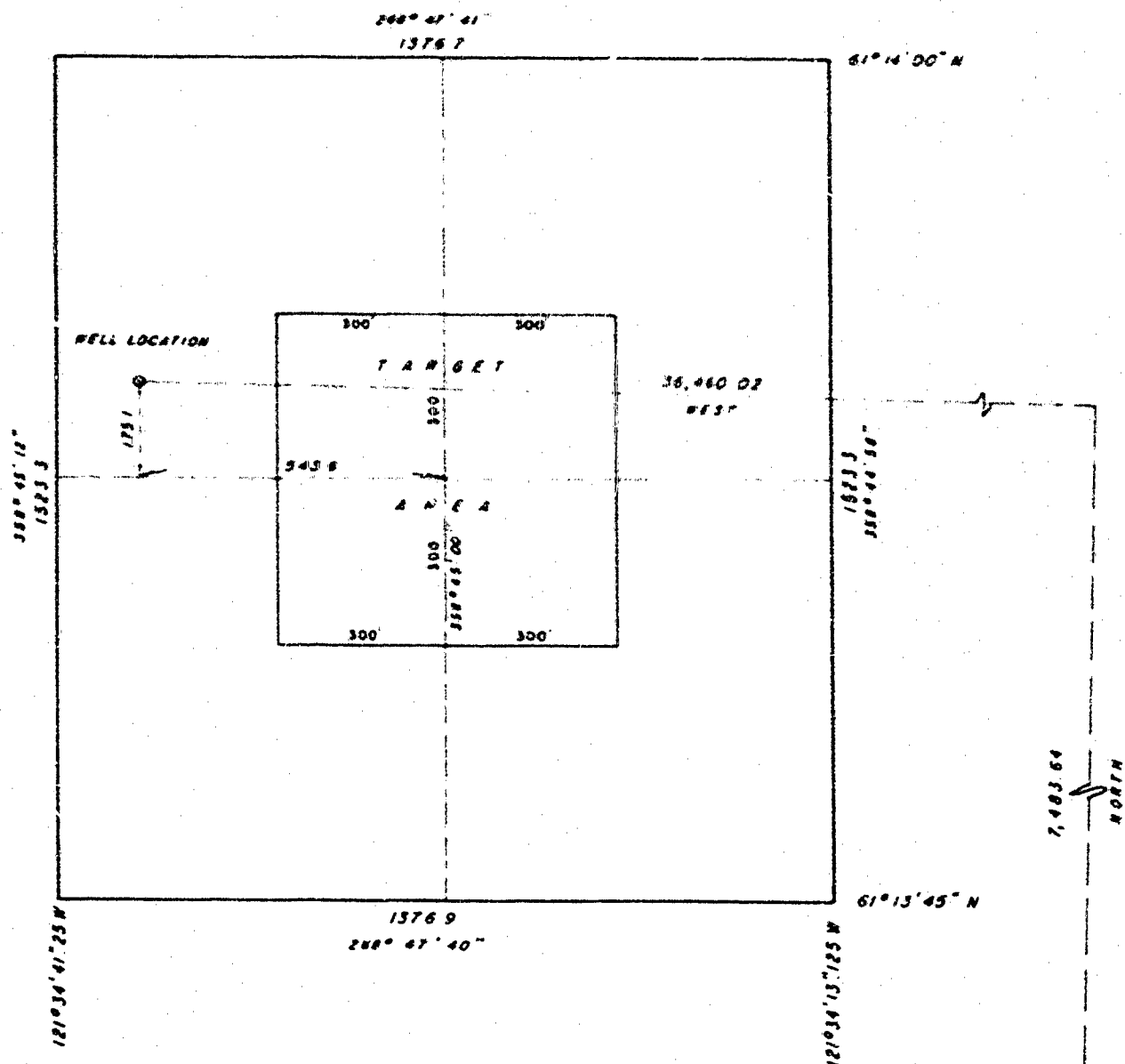
received by radio on the progress of the well.

3. During well drilling and testing operations, every effort shall be made to ensure that drilling fluids, chemicals and wastes shall be disposed of in a manner that will prevent the contamination of adjacent vegetation and surface or sub-surface waters.
4. We draw your attention to Sections 95 and 96 of the Canada Oil and Gas Land Regulations.
5. Any additional strings of casing are to receive the approval of the Oil Conservation Engineer prior to running.



(For) B.H.J. Thoms
Oil Conservation Engineer

UNIT 0, SECTION 24



NOTE:

All distances are reduced to Sea Level.
Bearings referred to reference meridian 123° 00' 00\" W (UTM GRID ZONE 10).
Well Location is at Shot Point 2103, Line 34

POPLAR (68-C-11)
61° 12' 32.55\" N
121° 22' 17.52\" W

PLAN OF PRELIMINARY SURVEY OF SECURITY FREEHOLD GREAT PLAINS SIMPSON 0-24 AT LAT. 61° 13' 54.40\" N, LONG. 121° 34' 38.30\" W.

UNIT 0, SECTION 24 - GRID AREA: Lat. 61° 20' N, LONG. 121° 30' W.

HUDSON'S BAY OIL AND GAS COMPANY LIMITED

SIGNATURES

[Signature]
HUDSON'S BAY OIL AND GAS COMPANY LIMITED

[Signature]

I CERTIFY THAT THE SURVEY REPRESENTED BY THIS PLAN IS CORRECT AND TRUE AND WAS CARRIED OUT BETWEEN DEC. 26th, 1970 AND JAN. 17th, 1971.

[Signature] D.L.S.
[Signature] WITNESS

ELEVATION

ON GROUND IN CENTRE OF WELL SITE : 910.0
TOP OF 1/2 CORNER WELL SITE :
TOP OF 1/2 CORNER WELL SITE :
REF. ELEV. SEISMIC. :

CO-ORDINATES

WELL IS LOCATED
LAT. 61° 13' 54.40\" N, LONG. 121° 34' 38.30\" W.

CANADIAN ENGINEERING SURVEYS LTD.
EDMONTON ALBERTA



LEGEND

CONTROL MONUMENT Δ
WELL LOCATION ○

SCALE: 1\" = 300'

JOB. NO. DATE DNR. NO.
C-6470 JAN. 21st, 1971 6470-M-2

TIGHT HOLE

GEOLOGICAL PROGRAM

December 30, 1970

Locality

W.B. GREAT PLAINS SIMPSON 0-24

LOCATION: 0-24; 61° 20' N. 121° 30' W.

ELEVATIONS: Estimated
Actual

Grd: 908'
Grd:

K.B. 923'
K.B.

GEOLOGICAL MARKERS:

<u>Formation</u>	<u>Estimates</u>		<u>Actual</u>		
	<u>Depth</u>	<u>Subsea</u>	<u>Depth</u>	<u>Subsea</u>	<u>Thickness</u>
Horn River	2630'				
Hume	2680				
Lower Chinchaga	3340				
Pre-Devonian	3680				
T.D.	3700				

- Note:
1. The Hume thickness allows for an approximate 350' reefal build-up above the Hume platform.
 2. The Horn River thickness will depend upon the amount of Hume build-up. If the well is in a completely off-reef position, the Horn River will be 150' to 200' thick.
 3. The Lower Chinchaga will probably consist of an upper dolomite underlain by anhydrite. The dolomite may be prospective.
 4. The Pre-Devonian will probably be metamorphosed sediments (meta-quartzite, meta-siltstone, varied colored shales), or granite, or greenstone schist. There could possibly be porous sandstone on top of the Pre-Devonian.
 5. Written sample descriptions are required on this well.

SAMPLES:

1. 10' samples in vials, 2000' to T.D., for H.B.O.G.

2. 10' samples in vials, 2000' to T.D., for Great Plains.
3. 10' samples in bags, surface to T.D., for the Department of Indian Affairs and Northern Development (Government of Canada).

LOGS:

1. Dual Induction Laterolog, T.D. to surface casing with 5" detail, T.D. to 100' above the Hume.
2. Gamma Ray-Borehole Compensated Sonic Log, T.D. to surface casing with 5" detail, T.D. to 100' above Hume.
3. Compensated Formation Density and Sidewall Neutron Porosity (with Gamma Ray) Logs, T.D. to 100' above Hume with 5" detail over same interval.
4. Porosity-Lithology Log
5. Continuous Dipmeter, Four Arm Digital; intervals to be determined later.

N.B.:

Schlumberger Engineer to record formation fluid resistivities on field prints.

CORING AND TESTING:

1. In the Hume and Lower Chinchaga, test first 15' of porosity and, if productive, core and test in 60' intervals until water is encountered or zone is penetrated.
2. There may be a Detrital zone resting on the basement. If this is porous, drill to the basement (as defined above) and test the entire Detrital interval.

CORE, FLUID, AND GAS ANALYSES:

1. Representative fluid and gas samples are to be taken on all drill stem tests and are to be immediately forwarded along with cores to Chemical and Geological Labs.
2. Additional samples of formation water are to be retained so that the Schlumberger Engineer may record resistivities on field prints.

MUD:

Drilling mud, adequate for obtaining good cuttings, should be in the hole from 2000' to T.D.

THIS WELL IS TO BE DRILLED AS A TIGHT HOLE. ONLY SIX (6) COPIES OF FIELD PRINTS ARE TO BE PRINTED AT THE WELL SITE.



File No. _____
Drilling Authority No. 500

DEPARTMENT OF INDIAN AFFAIRS AND NORTHERN DEVELOPMENT
RESOURCE MANAGEMENT DIVISION

Application to ~~Abandon~~ 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 Security GPO&G Simpson 0-24

Location: Unit 0 Section 24 Grid 61°20'N 121°30'W

Latitude 61° 13' 54.40"N Longitude 121° 34' 38.30" W

From Established Reference Marker 123° 00' 00" W (UTM Grid zone 10)

Universal Well Location Reference Lat. 61.23178°N, Long. 121.57730°

Permit No. 4302 Lease No. _____

Security Freehold Petroleum Ltd. & Great

Date of commencement of proposed program Completed Abandonment - Feb 9/71

OIL, GAS, AND WATER ENCOUNTERED
(Depths)

Oil at -

Gas at -

Water at -

Total Depth 50

Date of last operations Feb 9/71

Present condition of well Abandon with conductor pipe in the hole when washing out below the conductor pipe became extreme and and hazardous to the drilling rig.

CASING RECORD

Casing Size O.D. Inches	Weight	Amount	Set At—	Sacks of Cement and Additives	Amount Pulled
1. 26"	welded oil drums	17'	17'	-	-
2. 23"	corrugated steel pipe	23'	23'	485 sack cement with 4% CaCl ₂	-
3.					
4.					
5.					

PROPOSED ABANDONMENT PROGRAM

No.	Flag Position	Geological Formation	Number of Sacks of Cement	Remarks
1	50 to surface	-	20 sack of cement w/loss material	Welded on steel ca on oil drum conductor pipe

The following logs have been run None

Other operations proposed None

were

Hudson's Bay Oil & Gas Co. Ltd.

Operations were carried out by (Kenting Drilling Co. Contractor Licence No. 800

Address 11630 Kingsway Avenue

Address

Responsible Agent in field N. Dease

Dated at Edmonton

this 16

Day of Feb.

19 71

Signed by

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

Title District Drilling Foreman

Operator's Exploratory Licence No. 1676

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

(For RESOURCE MANAGEMENT DIVISION use only)

APPROVAL

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

Confirming oral approval given by Mr. B.H.J. Thoms on the 12th February 1971.

Dated 16th February

1971

Oil Conservation Engineer

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

Hudson's Bay Oil and Gas Company Limited

DAILY DRILLERS REPORT

DATE FEB 13-71

WELL NAME <u>Security Simpson CPOG 0-24</u>										LDG. FLG. TO KB					CASING RECORD	DEPTH	SIZE	WEIGHT	GRADE	CEMENT	ACID	PLUG DOWN	COMPANY SUPERVISOR							
CONTRACTOR <u>Kenting</u>					TYPE RIG <u>A.D. 3000</u>					K. B. ELEV.																				
RIG NO. <u>35</u>					TOOL PUSHER <u>G. Smythe</u>					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						
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						
ADDITIVES								ADDITIVES								ADDITIVES														
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:									
	PRESS-URES		IHP	FHP	IFP	FFP	ISIP	FSIP	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											
									8:00	8:00	DRILLED w/ 15" RAT HOLE BUCKET																			
											FROM 10' TO 40' DRILL ON																			
											BOULDERS (BLASTING) DRILLED																			
											THROUGH 15" LIMESTONE @ 30'																			
											DRILL IN LOOSE SILT SHALE &																			
											GRAVEL.																			
											PERMAFROST TO 25' G.L.																			
											Rig on standby 1 crew																			
											H. Anderson																			
DRILLER		NO. HELPERS						DRILLER		NO. HELPERS 3						DRILLER		NO. HELPERS												

Hudson's Bay Oil and Gas Company Limited

DAILY DRILLERS REPORT

DATE Feb 12-71

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.																																																																																								
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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.		DEG. AT		FT.		DEG. AT		FT.																																																																							
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DRILLER		NO. HELPERS												DRILLER		NO. HELPERS												DRILLER		NO. HELPERS																																																																																				

Hudson's Bay Oil and Gas Company Limited

DAILY DRILLERS REPORT

DATE Feb 11-71

WELL NAME	Security Simpson APOG. 024	LDG. FLG. TO KB		CASING RECORD	DEPTH	SIZE	WEIGHT	GRADE	CEMENT	ACID	PLUG DOWN	COMPANY SUPERVISOR	
CONTRACTOR	Kenting	TYPE RIG	GD. 3000		K. B. ELEV.								
RIG NO.	35	TOOL PUSHER	A. Smythe		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													
	BIT RECORD																																				
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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.					
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		
	ADDITIVES																																				
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:																																				
	PRESS-URES		IHP	FHP	IFP	FFP	ISIP	FSIP								PRESS-URES		IHP	FHP	IFP	FFP	ISIP	FSIP								PRESS-URES		IHP	FHP	IFP	FFP	ISIP
REMARKS INCLUDING: CEMENTING LOGGING PERFORATING ACIDIZING FRACTURING PLUGS	FROM	TO	DESCRIPTION OF WORK																																		
	12 ⁰⁰	8 ⁰⁰	Wait on Rat Hole Diggers																																		
DRILLER		NO. HELPERS				DRILLER		NO. HELPERS				DRILLER		NO. HELPERS																							

Reg on stand by

Wait on Rat hole diggers
Drilled 800' south of shot.
point 2123. to 24' deep
of loose silty water

Hudson's Bay Oil and Gas Company Limited

DAILY DRILLERS REPORT

DATE Feb 10-71

WELL NAME	Security APO+ A. Simpson 0-24	LDG. FLG. TO KB		CASING RECORD	DEPTH	SIZE	WEIGHT	GRADE	CEMENT	ACID	PLUG DOWN	COMPANY SUPERVISOR
CONTRACTOR	Kentary Rig 35	TYPE RIG	G.D 3000		K. B. ELEV.							
RIG NO.	35	TOOL PUSHER	A. Smythe		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															
BIT RECORD																																									
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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.											
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						
	ADDITIVES																																								
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:																																								
	PRESS-URES		IHP		FHP		IFP		FFP		ISIP		FSIP		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																																						
	12 ⁰⁰	4 ⁰⁰	WAIT ON RAT HOLE DIGGERS																																						
DRILLER		NO. HELPERS						DRILLER		NO. HELPERS						DRILLER		NO. HELPERS																							

DRILLER K. Anderson

NO. HELPERS 2

NO. HELPERS

DATE FEB 9-71

WELL NAME <u>H.B. SEC G.P.O.G. 0-24</u>										LDG. FLG. TO KB										CASING RECORD		DEPTH		SIZE		WEIGHT		GRADE		CEMENT		ACID		PLUG DOWN		COMPANY SUPERVISOR																																											
CONTRACTOR <u>KENTING</u>										TYPE RIG <u>G.D. 3000</u>												K. B. ELEV.																																																									
RIG NO. <u>35</u>										TOOL PUSHER <u>B Smyth</u>												GRD. ELEV. <u>910</u>																																																									
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																																																						
DRILLING DATA		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																																	
		ADDITIVES																																																																													
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:																																																					
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	4 ⁰⁰	LAY DOWN DERRICK, CUT OFF & RUN 10 SX CEMENT PLUG IN TOP OF CONDUCTOR BBL.																								8 ⁰⁰	4 ⁰⁰	Rig on Standby																																																	
		4 ⁰⁰	8 ⁰⁰	CLEAN & DEICE RIG.																																																																											
				Rig on Stand by @ 4:00 PM. Feb. 9-71																																																																											
DRILLER		D. GREEN										NO. HELPERS 3										DRILLER		K. Anderson										NO. HELPERS 3										DRILLER		NO. HELPERS																																	

DATE FEB-8-71

[illegible]

Hudson's Bay Oil and Gas Company Limited

DAILY DRILLERS REPORT

DATE FEB 7-71

WELL NAME	H.B. SEC G.P.O.G. 0-24	LDG. FLG. TO KB		CASING RECORD	DEPTH	SIZE	WEIGHT	GRADE	CEMENT	ACID	PLUG DOWN	COMPANY SUPERVISOR
CONTRACTOR	KENTING	TYPE RIG	G.D. 3000	K. B. ELEV.								
RIG NO.	35	TOOL PUSHER	G. Smyth	GRD. ELEV.	910'							

	12 P.M. TO 8 A.M.												8 A.M. TO 4 P.M.												4 P.M. TO 12 P.M.																																																	
DEPTH	START												START												START																																																	
	PROGRESS												PROGRESS												PROGRESS																																																	
	END												END												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																																																		
	49	FF229	SDGH	8 3/4	40	50	10	2 1/4	4A	FF229	SDGH	8 3/4	50																																																													
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																																																			
	6		400		80		all		6		400		80				6"																																																									
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																																																			
	G.W		8.9		210								G.W		9.1		290																																																									
	ADDITIVES GEL 2100 Caustic 150.												ADDITIVES												ADDITIVES																																																	
	DV-68 29411																																																																									
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:																																																	
	PRESS-URES	IHP	FHP	IFP	FFP	ISIP	FSIP	PRESS-URES	IHP	FHP	IFP	FFP	ISIP	FSIP	PRESS-URES	IHP	FHP	IFP	FFP	ISIP	FSIP																																																					
REMARKS INCLUDING:	FROM	TO	DESCRIPTION OF WORK													FROM	TO	DESCRIPTION OF WORK													FROM	TO	DESCRIPTION OF WORK																																									
	12 ⁰⁰	12 ³⁰	Cleanout Pump													8 ⁰⁰	8 ³⁰	Rig 5th													4 ⁰⁰	5 ⁰⁰	Cementing Conductor Pipe																																									
	12 ³⁰	1 ⁰⁰	DRLC 8 3/4"													8 ³⁰	9 ⁰⁰	W.O. Pump													5 ⁰⁰	12 ⁰⁰	W.O.C																																									
	1 ⁰⁰	1 ³⁰	W.O. Pump													9 ⁰⁰	9 ³⁰	Clean to Bottom															Run 23' 19" Conductor Pipe Below G.D. Key																																									
	1 ³⁰	2 ⁰⁰	DRLC													9 ³⁰	10 ⁰⁰	Pickup 15" Bit Lay Down D.C.															Cement By B-T w/ 485 5x Const Cement																																									
	2 ⁰⁰	2 ³⁰	Install SCREEN in Pual Section													10 ⁰⁰	10 ³⁰	Clean to 40' w/ 15" Bit															+ 4 1/2 LBS. No Cement Returns. Good																																									
	2 ³⁰	3 ⁰⁰	DRLC													10 ³⁰	11 ⁰⁰	Tearout Rotary Table															Mud Returns Throughout Pumping Period																																									
	3 ⁰⁰	3 ³⁰	W.O. Pump													11 ⁰⁰	11 ³⁰	Run 23' 19" Conductor Pipe															Stopped Pumping @ 2:00 P.M.																																									
	3 ³⁰	4 ⁰⁰	Clean to Bottom															Circ same trying to get deeper															Felt for Cement @ 7:00 P.M. (By Hand)																																									
	4 ⁰⁰	4 ³⁰	DRLC 5 1/2 - 6 1/2 REPAIRS													1 ³⁰	2 ⁰⁰	Circ W.O. Cementers															Cement Level @ 20' K.B. inside &																																									
	4 ³⁰	5 ⁰⁰	R.O.D. Pump 7:00-8:00 REPAIRS													2 ⁰⁰	2 ³⁰	Rig To Run Cement															20' K.B. outside																																									
DRILLER	D. GREEN												NO. HELPERS 3												DRILLER	R. KLEMDA												NO. HELPERS 4												DRILLER	K. ANDERSON												NO. HELPERS 3											

Hudson's Bay Oil and Gas Company Limited

DAILY DRILLERS REPORT

DATE FEB 6 - 71

WELL NAME	H.B. Sec 6 P.O.G. 0-24	LDG. FLG. TO KB		CASING RECORD	DEPTH	SIZE	WEIGHT	GRADE	CEMENT	ACID	PLUG DOWN	COMPANY SUPERVISOR
CONTRACTOR	Kentintz	TYPE RIG	G.D. 3000		K. B. ELEV.							
RIG NO.	25	TOOL PUSHER	G. Smyth		GRD. ELEV.	910.						

	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								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	2A 759119 Y13A 15								1A 759119 Y13A 15								2A 181818 Y13A 15								3A 18180 Y13A 97 1/8							

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
	6								6	400.	80	11

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
	G.W.	8.6	290				G.W.	9.2	292				G.W.	8.6	115			
	ADDITIVES GEL 1000 DV-68 4 GALL						ADDITIVES DV-68 2 GALL						ADDITIVES GEL 1000. CAUSTIC 150					
	Sawdust 40 5x CANE FIBER 4 5x												Sawdust 15 5x CEMENT 20 5x					

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:														
	PRESS- URES	IHP	FHP	IFP	FFP	ISIP	FSIP	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
	12 ⁰⁰	4 ⁰⁰	Mix Mud	8 ⁰⁰	8 ¹⁵	R.C. SER	4 ⁰⁰	5 ³⁰	Clean to Btm Pit's Let G.O.
	4 ⁰⁰	5 ⁰⁰	REAM BOULDERS	8 ¹⁵	8 ⁴⁵	REAM BOULDER	5 ³⁰	7 ⁰⁰	Plug Holes in Circ Pit w/ CEMENT
	5 ⁰⁰	5 ³⁰	Clean out Pump	8 ⁴⁵	9 ⁰⁰	W.O. Pump	7 ⁰⁰	8 ⁰⁰	Build mud volume
	5 ³⁰	7 ⁰⁰	REAM BOULDERS	9 ⁰⁰	11 ⁴⁵	REAM BOULDERS	8 ⁰⁰	8 ³⁰	Clean to Bottom w/ 9 7/8"
	7 ⁰⁰	7 ³⁰	Clean out Pump	11 ⁴⁵	12 ³⁰	W.O. Pump	8 ³⁰	8 ⁴⁵	W.O. Pump
	7 ³⁰	8 ⁰⁰	REAMOUT BOULDERS	12 ³⁰	1 ⁰⁰	REAM BOULDERS	8 ⁴⁵	10 ³⁰	Clean to Bottom
				1 ⁰⁰	1 ¹⁵	W.O. Pump	10 ³⁰	12 ⁰⁰	CHG. Bit to 8 3/4" SUB Etc
				1 ¹⁵	1 ⁴⁵	REAM BOULDER			HARD TO BREAK
				1 ⁴⁵	2 ³⁰	W.O. Pump			
				2 ³⁰	4 ⁰⁰	CHG. Bit TROUBLE BREAKING 2 Bit			

DRILLER	D. GREEN	NO. HELPERS	3	DRILLER	R. KLEMPA	NO. HELPERS	4	DRILLER	K. ANDERSON	NO. HELPERS	3
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Hudson's Bay Oil and Gas Company Limited

DAILY DRILLERS REPORT

DATE FEB 5-71

WELL NAME	<u>H.B. SEC G.D.O.G. 0-24</u>	LDG. FLG. TO KB		CASING RECORD	DEPTH	SIZE	WEIGHT	GRADE	CEMENT	ACID	PLUG DOWN	COMPANY SUPERVISOR
CONTRACTOR	<u>Kenting</u>	TYPE RIG	<u>G.D. 3000</u>		K. B. ELEV.							
RIG NO.	<u>35</u>	TOOL PUSHER	<u>G. Smyth</u>		CRD. ELEV.	<u>910.</u>						

	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								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							
	24 759119 YTS 1.5																24 759119 YTS 1.5							

DRILLING DATA	LINER SIZE				PUMP PRESSURE				TABLE SPEED				WEIGHT ON BIT			
	6"															

DRILLING STRING	SIZE		STANDS		SINGLES		DRILL COL.		KELLY IN		CORE BBL.	

MUD RECORD	TYPE OF MUD		WEIGHT		VIS		WL		PH		FC	
	C.W.		8.8		365							
	ADDITIVES <u>GEL 2000 Caustic 100.</u>											
	<u>Sawdust 35 5x</u>											

CORING	NO.		FROM		TO		RECOVERED		FORMATION	

SURVEY	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.)	
	GAS TO SURFACE		MIN. @		MCF/D MAX.	
	OIL TO SURFACE		MIN. @		BBL/D MAX.	

REMARKS INCLUDING: CEMENTING LOGGING PERFORATING ACIDIZING FRACTURING PLUGS	FROM	TO	DESCRIPTION OF WORK
	12 ⁰⁰	345	Mix Mud.
	345	430	Clean to Bottom.
	430	800	Mix Mud

DRILLER	<u>D. Green</u>	NO. HELPERS	<u>3</u>	DRILLER	<u>R. Klemola</u>	NO. HELPERS	<u>4</u>	DRILLER	<u>K. Anderson</u>	NO. HELPERS	<u>3</u>
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Hudson's Bay Oil and Gas Company Limited

DAILY DRILLERS REPORT

DATE FEB 4-71

WELL NAME <u>H.B. SEC GPOG 0-24</u>		LDG. FLG. TO KB		CASING RECORD	DEPTH	SIZE	WEIGHT	GRADE	CEMENT	ACID	PLUG DOWN	COMPANY SUPERVISOR
CONTRACTOR <u>KENTING</u>		TYPE RIG <u>G.D. 2000</u>			K. B. ELEV.							
RIG NO. <u>35</u>		TOOL PUSHER <u>G. Smyth</u>			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										
BIT RECORD	NO.	SERIAL NO.	TYPE	SIZE	FT. OM	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>20 759119 Y13A15 REAM</u>																										
	<u>DRILLED 30 40 10. 2 3/4</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>6</u>																										
DRILLING STRING	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				
	<u>G.W.</u>																										
	<u>ADDITIVES GEL 1000</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.				
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:														
	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																
	<u>12⁰⁰</u>	<u>4⁰⁰</u>	<u>W.D.C</u>		<u>8⁰⁰</u>	<u>11³⁰</u>	<u>W.D.C</u>		<u>4⁰⁰</u>	<u>5⁰⁰</u>	<u>MIX MUD</u>																
	<u>4⁰⁰</u>	<u>4⁴⁵</u>	<u>DRILL 15" HOLE</u>		<u>11³⁰</u>	<u>1⁴⁵</u>	<u>CLEAN TO BOTTOM 10' FILL</u>		<u>5⁰⁰</u>	<u>6⁰⁰</u>	<u>LINE P.T.s w/ POLYETHYLENE</u>																
	<u>4⁴⁵</u>	<u>6³⁰</u>	<u>BAIR CELLAR 4 AF CEMENT</u>		<u>1⁴⁵</u>	<u>4⁰⁰</u>	<u>MIX MUD CONDUCTOR BBL</u>		<u>6⁰⁰</u>	<u>7¹⁵</u>	<u>REAM 10' TO BOTTOM</u>																
			<u>CONDUCTOR PIPE</u>				<u>WASHED OUT</u>		<u>7¹⁵</u>	<u>9¹⁵</u>	<u>MIX MUD</u>																
	<u>6³⁰</u>	<u>8⁰⁰</u>	<u>W.D.C</u>				<u>CIRCULATING WASHED OUT</u>		<u>9¹⁵</u>	<u>9⁴⁵</u>	<u>REAM TO BOTTOM</u>																
							<u>ALSO (TO SUMP)</u>		<u>9⁴⁵</u>	<u>12⁰⁰</u>	<u>MIX MUD</u>																
											<u>LOADING MUD TO SUMP &</u>																
											<u>DOWN HOLE</u>																
DRILLER <u>D. GREEN</u>		NO. HELPERS		DRILLER <u>R. Klemola</u>		NO. HELPERS <u>4</u>		DRILLER <u>K. ANDERSON</u>		NO. HELPERS <u>3</u>																	

Hudson's Bay Oil and Gas Company Limited

DAILY DRILLERS REPORT

DATE FEB 3-71

WELL NAME	H.B. SEC G.P.O.G. 0-24	LDG. FLG. TO KB		CASING	DEPTH	SIZE	WEIGHT	GRADE	CEMENT	ACID	PLUG DOWN	COMPANY
CONTRACTOR	KENTING	TYPE RIG	G.D. 3000	K. B. ELEV.							53 103	SUPERVISOR
RIG NO.	35	TOOL PUSHER	R. Smyth	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								START								START																							
	PROGRESS								PROGRESS								PROGRESS																							
	END								END								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																
	1A	22739	OWU	7 1/8	0	35	35	6 1/2	1A	22739	OWU	7 1/8	0	35	35	6 1/2	2A	75919	YT3A	15																				
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																	
	6		400		80		KELLY		6"		400		80		KELLY		6		400																					
DRILLING STRING	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																	
	GEL		8.3		200								G.W.		9.1		120																							
	ADDITIVES		GEL 3700										ADDITIVES		GEL 700 LIME 150																									
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.)		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.		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.		OIL TO SURFACE		MIN. @		BBL/D MAX.											
	RECOVERY:												RECOVERY:												RECOVERY:															
	PRESS-URES	IHP	FHP	IFP	FFP	ISIP	FSIP	PRESS-URES	IHP	FHP	IFP	FFP	ISIP	FSIP	PRESS-URES	IHP	FHP	IFP	FFP	ISIP	FSIP	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					FROM	TO	DESCRIPTION OF WORK					FROM	TO	DESCRIPTION OF WORK									
	12	200	DRILL RAT HOLE (GRAVEL)					800	815	RIG SERVICE					400	415	RIG SERVICE					400	415	RIG SERVICE					400	415	RIG SERVICE									
	200	330	MIX MUD SPUDEN 7 DRILL 7 1/8"					815	1015	DRILL RAT HOLE					415	445	DRILL 15" HOLE					415	445	DRILL 15" HOLE					445	830	CONDUCTOR BBL WASHED OUT									
	330	600	DRILL 7 1/8" HOLE (CAVING)					1015	1115	DRILL 7 1/8" HOLE							DRILL 7 1/8" HOLE							DRILL 7 1/8" HOLE							DRILL 7 1/8" HOLE									
	600	800	DRILL MAIN HOLE 9 MIX MUD					1115	400	RIG 7 1/8" to 15" HOLE							RIG 7 1/8" to 15" HOLE							RIG 7 1/8" to 15" HOLE							RIG 7 1/8" to 15" HOLE									

DATE FEB-2-7

WELL NAME <u>H.B. S. G.P.O.G.</u>										LDG. FLG. TO KB										CASING RECORD		DEPTH		SIZE		WEIGHT		GRADE		CEMENT		ACID		PLUG DOWN		COMPANY SUPERVISOR																																	
CONTRACTOR <u>Kenting Rig 35</u>										TYPE RIG <u>G.D. 3000</u>												K. B. ELEV.																																															
RIG NO. <u>35</u>										TOOL PUSHER <u>A. Smyth</u>												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															
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																																				
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>6"</u>				<u>400</u>								<u>Kelly</u>				<u>6"</u>				<u>400</u>				<u>Rat Hole</u>				<u>Kelly</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.																																	
MUD RECORD		TYPE OF MUD				WEIGHT				VIS				WL				PH				FC				TYPE OF MUD				WEIGHT				VIS				WL				PH				FC																							
		ADDITIVES																ADDITIVES <u>GEL 3000 CAUSTIC 200</u>																ADDITIVES <u>GEL 3500 CAUSTIC 200</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.																							
DRILL STEM TESTS		NO.		INTERVAL								FORMATION								NO.		INTERVAL								FORMATION								NO.		INTERVAL								FORMATION																					
		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:																																																																			
		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																													
		<u>12</u>	<u>4⁰⁰</u>	<u>Rat Hole</u>																<u>8⁰⁰</u>	<u>10⁰⁰</u>	<u>W.O. & UNLOAD MUD TRUCKS</u>																<u>4⁰⁰</u>	<u>9³⁰</u>	<u>DRUG RAT HOLE.</u>																													
		<u>4⁰⁰</u>	<u>8⁰⁰</u>	<u>W.O. MUD</u>																<u>10⁰⁰</u>	<u>12⁰⁰</u>	<u>Mix MUD</u>																<u>9³⁰</u>	<u>11⁰⁰</u>	<u>Mix MUD</u>																													
																				<u>12⁰⁰</u>	<u>4⁰⁰</u>	<u>DRUG RAT HOLE</u>																<u>11⁰⁰</u>	<u>12⁰⁰</u>	<u>DRUG HOLE (CAVING IN).</u>																													
		DRILLER <u>D. GREEN</u>																NO. HELPERS <u>3</u>																																																			