

Drilling Authority No. 577
Date Issued 18 February 1971

WELL NAME Security G70 & J Simpson G-24-A

FIELD
LOCATION: Unit 0 Area 24
Latitude 61-13-52.36 Section 24 Grid 61-20-121-30
U.W.L.R. 61.23125 --- 121.57733 Longitude 121-14-38.40
U.W.I. 302 26012/121300

Rig Release Date
Status
Information Release Date

CHANGE OF NAME:

DATE RECEIVED	INDEX
18-2-71	Application for a Drilling Authority.
	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.
	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 - Vittor'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.....



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 07066 Simpson 0-24A**

Location: Unit **0** Section **24** Grid **61°20'N 121°30'W**
Latitude **61°23' 52.50"N** Longitude **121° 34' 38.40"W**

Unique Well Identifier **3020246120121100**

Universal Well Location Reference **61.23125°N, Long. 121.57733°**

Elevation: Ground **911**

K.B. To Follow

(ft above sea-level)

Well is expected to produce from
of about **3700**

Pre-Devonian Zone

formation at a depth

feet. Expected total final depth **3700**

Area assigned to well

(For Oil Conservation Engineer's use only)

Permit No. **4302**

Lease No.

Acreage **61,596**

Permitter, licensee, or lessee **Security Freehold Petroleum Ltd. & Great Plains Oil & Gas Ltd.**

Exploratory Licence No. **1690**

1641

Surface owned by Crown or

(If different, please 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	K-55	New	600	Sufficient cement volume plus 2% CaCl₂ 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 blow out prevention equipment**

Well will be drilled with Rotary Rig No. **35** by **Kentling Drilling Co.**

(Drilling Contractor or company)

Responsible agent of applicant:—

At well **H. Dease**

Contractor's business Licence No. **800**

Address **11630 Kingsway Avenue**

At registered office **R.L. Levesque**

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 **16** day of **Feb.** 19 **71**

Signed by **J.E. McLe** 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:—

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

Dated **16th February** 19 **71**

Please see over page

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 or contained in a manner that will prevent the contamination of adjacent vegetation and surface or sub-surface waters.
4. We draw your attention to Sections 95 and 96 of the Canada Oil and Gas Land Regulations.
5. Any additional strings of casing are to receive the approval of the Oil Conservation Engineer prior to running.



B.H.J. Thomas, Oil Conservation Engineer

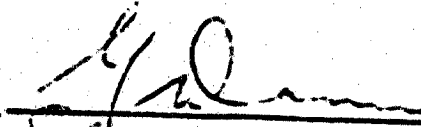
DAILY REPORTS:

1. Phone daily reports on depths, formation tops, generalized lithologic descriptions, every morning to:
Gordon L. Cox 267-2432 (office)
288-6759 (residence)

Special reports to be made as requested to:

George Dann 267-2430 (office)
249-8420 (residence)

2. Core and DST information should be transmitted immediately.



DISTRICT GEOLOGIST

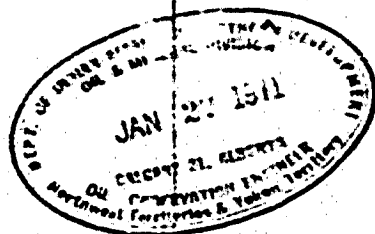
C. H. ...
K. ...

MANAGER, GEOLOGICAL SECTION

SUGGESTED C.A.O.D.C. Well Killing Manifold

Pump or Pump truck to return mud to tank.

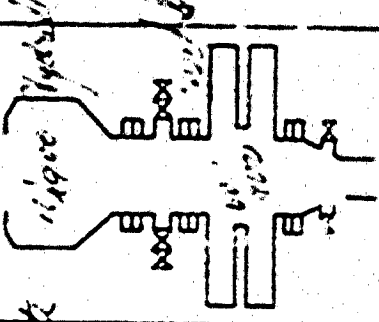
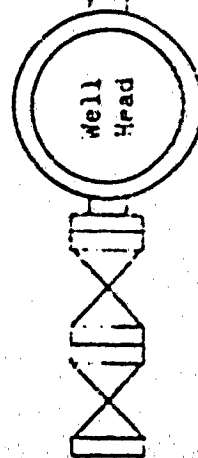
MUD TANK



Section for
Gas well
(Optional)

3/2 or 4/2 Drill pipe

3/2 or 4/2 Drill pipe

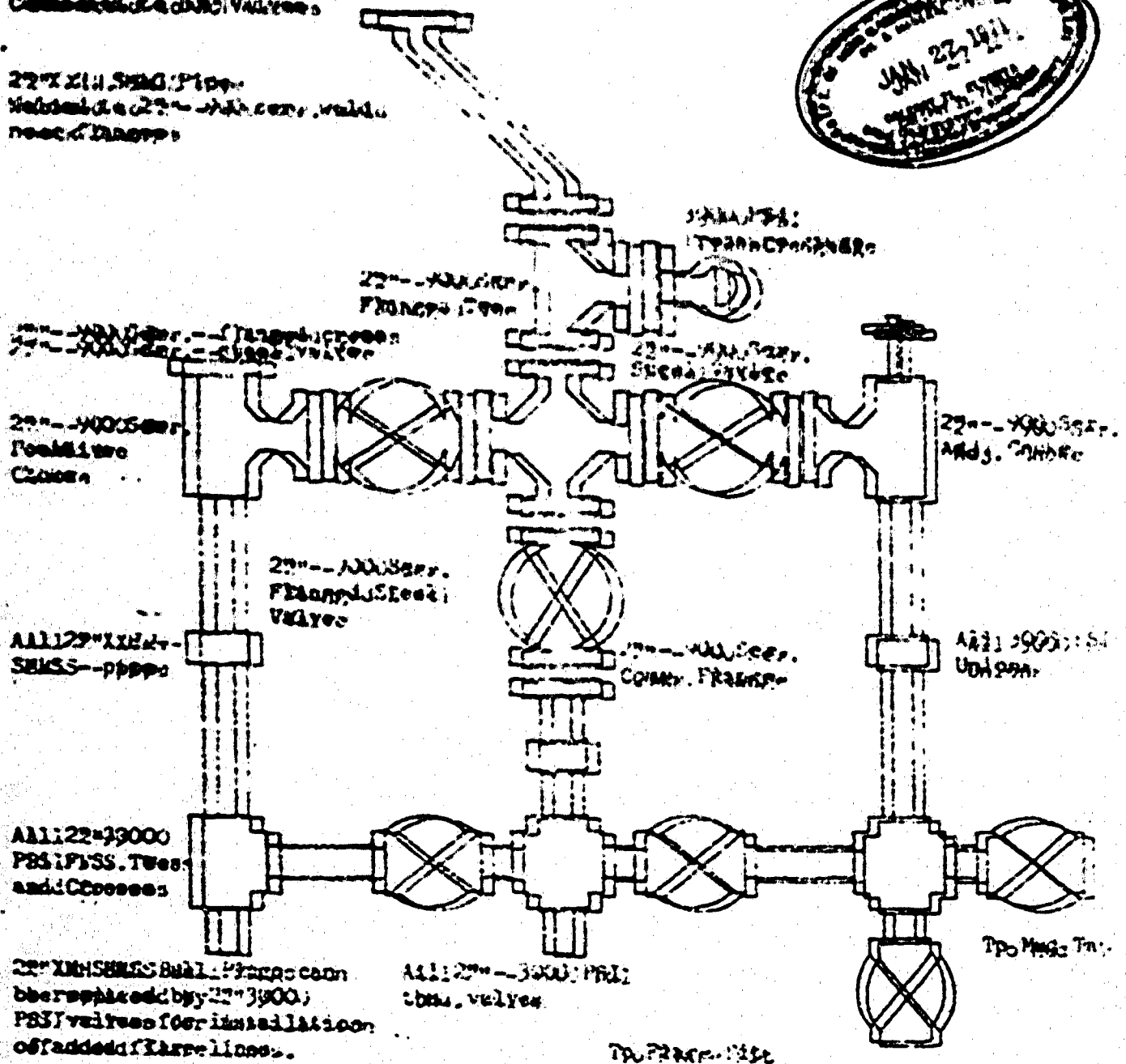
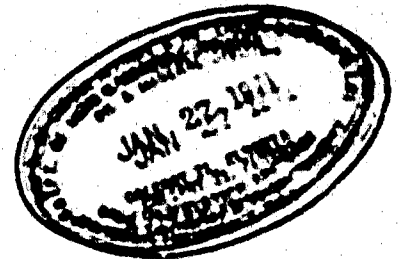


All 3" Valves and fittings.

Inset of B.O.P.'S
and spool

DECLASSIFIED AUTHORITY

Wabash Co. 22-141-001, valid.
no. 001-141-001.



This material can be constructed of 2nd or 3rd or a combination of 2nd and 3rd fittings.

Page 22 - 11

DATE March 10-71

[illegible]

Hudson's Bay Oil and Gas Company Limited

DAILY DRILLERS REPORT

DATE MARCH 5-71

WELL NAME	<u>Security Block Simpson 0-24-A</u>	LDG. FLG. TO KB		CASING	DEPTH	SIZE	WEIGHT	GRADE	CEMENT	ACID	PLUG DOWN	COMPANY SUPERVISOR
CONTRACTOR	<u>Kenting</u>	TYPE RIG	<u>G.D. 3000</u>	K. B. ELEV.	RECORD	<u>611</u>	<u>10 3/4</u>					
RIG NO.	<u>35</u>	TOOL PUSHER		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 <u>3697</u> PROGRESS END <u>TD</u>										START <u>3697</u> PROGRESS END <u>TD</u>										START <u>3697</u> PROGRESS END <u>TD</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								
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													
	12 ⁰⁰	12 ³⁰	REPAIR DRIVE CHAIN								8 ⁰⁰	8 ²⁰	TEAR OUT LOG TRUCK								4 ⁰⁰	9 ⁰⁰	W.O. ORDER TRIP IN OPEN END													
	12 ³⁰	2 ⁰⁰	STRAP OUT TO LOG								8 ³⁰	9 ⁰⁰	W.O. ORDER								9 ⁰⁰	11 ³⁰	TRIP IN OPEN END													
	2 ⁰⁰	2 ⁴⁵	WAIT ON LOG TRUCK																		11 ³⁰	12 ⁰⁰	CEMENT PLUG #1													
	2 ⁴⁵	8 ⁰⁰	RIG UP LOG W/ SELF LUMBER RIG																				Plug #1 3400-T.D. R/ 168 ex. Const													
																							CEMENT BY B-J SERVICE													
																							PLUG DOWN @ 12 ⁰⁰ P.M.													
DRILLER			<u>M. Thompson</u>			NO. HELPERS			<u>3</u>			DRILLER			<u>R. K. ...</u>			NO. HELPERS			<u>4</u>			DRILLER			<u>K. Anderson</u>			NO. HELPERS						

[illegible]

Hudson's Bay Oil and Gas Company Limited

DAILY DRILLERS REPORT

DATE MARCH-3-71

WELL NAME		<u>Security MPA Simpson 0-24-A</u>		LDG. FLG. TO KB		<u>10</u>		CASING		DEPTH		SIZE		WEIGHT		GRADE		CEMENT		ACID		PLUG DOWN		COMPANY											
CONTRACTOR		<u>Kenting</u>		TYPE RIG		<u>G.D 3000</u>		K. B. ELEV.		<u>921</u>		RECORD		<u>611</u>		<u>1074</u>								SUPERVISOR											
RIG NO.		<u>35</u>		TOOL PUSHER				GRD. ELEV.		<u>911</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				START		PROGRESS				END					
		NO.		SERIAL NO.		TYPE		SIZE		FROM		TO		FOOTAGE		HRS. RUN		NO.		SERIAL NO.		TYPE		SIZE		FROM		TO		FOOTAGE		HRS. RUN			
BIT RECORD		5		CG560		SS4		8 3/4		3213		3678		465		41 1/2		6		FN524		L4H		8 3/4		3678		3697		19		5 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											
		6		500		45-50		30,000										6		500		120		30											
DRILLING STRING		SIZE		STANDS		SINGLES		DRILL COL.		KELLY IN		CORE BBL.		SIZE		STANDS		SINGLES		DRILL COL.		KELLY IN		CORE BBL.											
		4 1/2		53				374.91		28'				4 1/2		54		1		394.91		15'													
MUD RECORD		TYPE OF MUD		WEIGHT		VIS		WL		PH		FC		TYPE OF MUD		WEIGHT		VIS		WL		PH		FC											
		G.W.		9.3		110		13		9.5		2/32		G.W.		9.5		75		13.5		9.5		2/32											
				9.3		115										9.5		78																	
ADDITIVES		<u>GEI 3000</u>												ADDITIVES																					
		<u>Bennet 3 SX</u>												ADDITIVES <u>GEI 4000</u>																					
CORING		NO.		FROM		TO		RECOVERED		FORMATION		NO.		FROM		TO		RECOVERED		FORMATION		NO.		FROM		TO		RECOVERED		FORMATION					
SURVEY		1/4		DEG. AT		3678		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		PRESS-URES												PRESS-URES																					
IHP		IHP												IHP																					
FHP		FHP												FHP																					
IFP		IFP												IFP																					
FFP		FFP												FFP																					
ISIP		ISIP												ISIP																					
FSIP		FSIP												FSIP																					
REMARKS INCLUDING:		FROM		TO		DESCRIPTION OF WORK		FROM		TO		DESCRIPTION OF WORK		FROM		TO		DESCRIPTION OF WORK																	
		12:00		1:45		DRAG 8 3/4"		8:00		11:45		T.O.P. & CIRC. TIGHT HOLE		4:00		4:15		SET UP BRAKES & R.C. SER.																	
		1:45		2:00		R.C. SERVICE & BOP.		11:45		12:45		WORK ON BRAKES.		4:15		4:45		CLEAN 30' FILL																	
		2:00		6:30		DRAG 8 3/4"		12:45		1:15		SLIP LINE		4:45		5:00		CIRC AIR OUT OFF HOLE.																	
		6:30		7:00		CIRC HOLE CLEAN		1:15		3:15		TRIP IN BRIDGE @ 2750.		5:00		10:15		DRAG 8 3/4"																	
		7:30		8:00		SURVEY & TRIPOD		3:15		4:00		BLOW KELLY & BREAK CIRC		10:15		12:00		CIRC COND HOLE TO LOG																	
CEMENTING																																			
LOGGING																																			
PERFORATING																																			
ACIDIZING																																			
FRACTURING																																			
PLUGS																																			
DRILLER		<u>N. Tompkins</u>		NO. HELPERS		<u>3</u>		DRILLER		<u>R. Klemm</u>		NO. HELPERS		<u>7</u>		DRILLER		<u>K. Anderson</u>		NO. HELPERS		<u>3</u>													

Hudson's Bay Oil and Gas Company Limited

DAILY DRILLERS REPORT

DATE *March 2-71*

WELL NAME <i>HL SECURITY CROC 024A</i>	LDG. FLG. TO KB	CASING RECORD	DEPTH	SIZE	WEIGHT	GRADE	CEMENT	ACID	PLUG DOWN	COMPANY SUPERVISOR <i>LP Brown</i>
CONTRACTOR <i>KENTING</i>	K. B. ELEV.									
RIG NO. <i>35</i>	GRD. ELEV.									
TYPE RIG <i>GD 3000</i>		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 <i>3330</i>				PROGRESS <i>90</i>				END <i>3420</i>				START <i>3420</i>				PROGRESS <i>102</i>				END <i>3522</i>				START <i>3522</i>				PROGRESS <i>79</i>				END <i>3596</i>			
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				
	<i>5</i>	<i>CG560</i>	<i>SS4</i>	<i>8 7/8</i>	<i>3213</i>	<i>3420</i>	<i>107</i>	<i>70</i>	<i>5</i>	<i>CG560</i>	<i>SS4</i>	<i>8 7/8</i>	<i>3213</i>	<i>3522</i>	<i>309</i>	<i>27 1/4</i>	<i>5</i>	<i>CG560</i>	<i>SS4</i>	<i>8 7/8</i>	<i>3213</i>	<i>3596</i>	<i>383</i>	<i>35 1/4</i>												
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									
	<i>6x14</i>	<i>500</i>		<i>40-55</i>		<i>30-30</i>		<i>6x14</i>	<i>500</i>		<i>55</i>		<i>30</i>		<i>6x14</i>	<i>500</i>		<i>55</i>		<i>30</i>		<i>6x14</i>	<i>500</i>		<i>55</i>		<i>30</i>									
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.	SIZE	STANDS	SINGLES	DRILL COL.	KELLY IN	CORE BBL.						
	<i>4 1/2</i>	<i>50</i>	<i>-</i>	<i>394.91</i>	<i>12</i>		<i>4 1/2</i>	<i>51</i>	<i>1</i>	<i>394.91</i>			<i>4 1/2</i>			<i>394.91</i>			<i>4 1/2</i>			<i>394.91</i>														
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	TYPE OF MUD	WEIGHT	VIS	WL	PH	FC						
		<i>9.2</i>	<i>85</i>	<i>13</i>	<i>9</i>	<i>2/32</i>		<i>9.2</i>	<i>85</i>		<i>9</i>			<i>9.4</i>	<i>81</i>																					
		<i>9.4</i>	<i>82</i>	<i>11</i>	<i>9</i>	<i>2/32</i>		<i>9.3</i>	<i>86</i>	<i>12.6</i>	<i>9.5</i>	<i>2/32</i>		<i>CONTAMINATED</i>																						
	ADDITIVES	<i>9.3</i>	<i>78</i>	<i>11.6</i>	<i>9</i>	<i>2/32</i>	ADDITIVES	<i>GEL-1200</i>						ADDITIVES	<i>94</i>	<i>65</i>																				
	<i>GEL 2300</i>	<i>9.3</i>	<i>76</i>	<i>14</i>	<i>9</i>	<i>2/32</i>	<i>BENEX 2 SRS</i>							<i>GEL H200</i>	<i>9.3</i>	<i>92</i>																				
	<i>BENEX 5</i>	<i>9.2</i>	<i>78</i>	<i>14</i>	<i>9</i>	<i>2/32</i>							<i>CAUSTIC 200</i>																							
													<i>WELLTEX 400</i>																							
CORING	NO.	FROM	TO	RECOVERED	FORMATION	NO.	FROM	TO	RECOVERED	FORMATION	NO.	FROM	TO	RECOVERED	FORMATION	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.	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	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															
	<i>12 00</i>	<i>12 15</i>	<i>DRILL</i>				<i>8 00</i>	<i>10 00</i>	<i>Drilling</i>				<i>4 00</i>	<i>5 00</i>	<i>DRILL</i>																					
	<i>12 15</i>	<i>12 30</i>	<i>CLEAN ROCKS OUT OF PUMP</i>				<i>10 00</i>	<i>10 15</i>	<i>RIG SER</i>				<i>5 00</i>	<i>5 15</i>	<i>RIG SER U 130 PS</i>																					
	<i>12 30</i>	<i>2 30</i>	<i>DRILL</i>				<i>10 15</i>	<i>4 00</i>	<i>Drilling</i>				<i>5 15</i>	<i>9 45</i>	<i>DRILL</i>																					
	<i>2 30</i>	<i>2 45</i>	<i>RIG SER</i>										<i>9 45</i>	<i>10 00</i>	<i>SET UP BRAKES</i>																					
	<i>2 45</i>	<i>8 00</i>	<i>DRILL</i>										<i>10 00</i>	<i>12 00</i>	<i>DRILL</i>																					
DRILLER <i>R. Khumala</i>		NO. HELPERS <i>3</i>		DRILLER <i>N. L. Tompkins</i>		NO. HELPERS		DRILLER <i>R. Khumala</i>		NO. HELPERS <i>3</i>																										

Hudson's Bay Oil and Gas Company Limited

DAILY DRILLERS REPORT

DATE MAR 1-71

WELL NAME		LDG. FLG. TO KB		CASING RECORD	DEPTH	SIZE	WEIGHT	GRADE	CEMENT	ACID	PLUG DOWN	COMPANY SUPERVISOR																										
CONTRACTOR		K. B. ELEV.																																				
RIG NO.		TOOL PUSHER		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 3213 PROGRESS 35 END 3248											START 3248 PROGRESS 17 END 3265											START 3265 PROGRESS 65 END 3330														
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	CG560	SS4	8 3/4	3213	3248	35	3 1/2	5	CG560	SS4	8 3/4	3248	3265	17	5 1/2	5	CG560	SS4	8 3/4	3265	3330	117	12 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															
	6 X 14		650		40-45		30-30		6 X 14		450		45		30		6 X 14		45		45		35															
DRILLING STRING	SIZE		STANDS		SINGLES		DRILL COL.		KELLY IN		CORE BBL.		SIZE		STANDS		SINGLES		DRILL COL.		KELLY IN		CORE BBL.															
	4 1/2		47				394.91		1H				4 1/2		48		1		394.91		13																	
MUD RECORD	TYPE OF MUD		WEIGHT		VIS		WL		PH		FC		TYPE OF MUD		WEIGHT		VIS		WL		PH		FC															
			9.0		62										9.3		64		11.0		9.1		762															
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															
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															
	12 00		12 30		CIRC HOLE CLEAN		9 00		10 15		Haist E/ Plugged Bit 30ft		4 00		4 15		RIG SER		4 00		4 15		DRILLING															
	12 30		2 15		CLEAN 71' TO BTM		10 15		10 45		Rig SER Check DOP		4 15		8 00		CHANGE HEAD FROM D-300		4 00		8 45		DRILLING															
	2 15		5 45		DRILL		10 45		12 00		Run in Hole		8 00		8 45		CHANGE HEAD FROM D-300		8 45		12 00		DRILL															
	5 45				HOLE CAVING, NO CIRC PULLED 10 STDS		12 00		2 00		Ream Bridge & 3130 Clean 75' to BTM		8 45		12 00		DRILL																					
			5 00		HOLE TIGHT		2 00		4 00		Drilling																											

Hudson's Bay Oil and Gas Company Limited

DAILY DRILLERS REPORT

DATE Feb 29 / 71

WELL NAME	HB SECURITY GPOG SIMPSON 0-24A	LDG. FLG. TO KB	10	CASING	DEPTH	SIZE	WEIGHT	GRADE	CEMENT	ACID	PLUG DOWN	COMPANY SUPERVISOR
CONTRACTOR	KENTINE	TYPE RIG	GD 3000	K. B. ELEV.	921	10 1/4						
RIG NO.	35	TOOL PUSHER		GRD. ELEV.	911							

	12 P.M. TO 8 A.M.								8 A.M. TO 4 P.M.								4 P.M. TO 12 P.M.							
DEPTH	START 3015 PROGRESS 100 END 3115								START 3115 PROGRESS 90 END 3195								START 3195 PROGRESS 18 END 3213							
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
	4	29264	XOV	8 3/4	2755	3115	360	23 1/2	4	29264	XOV	8 3/4	2755	3195	440	31	4	29264	XOV	8 3/4	2755	3213	458	33
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										
	6X14	550	80	28		6X14	550	80	28		6X14	550	80	28										
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	44	1	394.91	37		4 1/2	46	1	394.91	28		4 1/2			394.91								
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						
		9.1	48					9.2	70	12.6	8.	2/32		9.3	70									
		9.1	55					9.3	70					9.3	65									
	ADDITIVES						ADDITIVES						ADDITIVES											
	2 BENEX 9.3 45						BENEX																	
CORING	NO.	FROM	TO	RECOVERED	FORMATION	NO.	FROM	TO	RECOVERED	FORMATION	NO.	FROM	TO	RECOVERED	FORMATION									
SURVEY	DEG. AT	3058 FT.	DEG. AT	FT.	DEG. AT	FT.	DEG. AT	3145 FT.	DEG. AT	FT.	DEG. AT	FT.	DEG. AT	3213 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											
	1200	1230	DRILL			9	1030	Drilling			4	6	Drilling											
	1230	1245	RIG SERV SWIVEL + ROPS			1030	1045	SURVEY			6	615	DROP SURVEY RIG SER											
	1245	1245	DRILL			1045	11	RIG SER.			615	830	HOIST BLOW KELLY											
	245	300	SURVEY			11	4	Drilling			830	915	CLEAN SUCTION TANK											
	300	800	DRILL (HOLE SAVING)								915	1045	RUN IN W/ BIT #5											
											1045		BLOW KELLY, BREAK CIRC, CLEAN IS											
												1200	HOLE TIGHT PULLED 2 STD											
DRILLER R. Kline			NO. HELPERS 3			DRILLER G. L. Thompson			NO. HELPERS 1			DRILLER			NO. HELPERS									

Hudson's Bay Oil and Gas Company Limited

DAILY DRILLERS REPORT

DATE Feb 27/71

WELL NAME SECURITY SIMPSON 0-24A										LDG. FLG. TO KB 11										CASING RECORD		DEPTH	SIZE	WEIGHT	GRADE	CEMENT	ACID	PLUG DOWN	COMPANY SUPERVISOR J. Brown		
CONTRACTOR KENTING										TYPE RIG D-3000												K. B. ELEV.	611	10 3/4							
RIG NO. 35										TOOL PUSHER												GRD. ELEV.	911								
12 P.M. TO 8 A.M.										8 A.M. TO 4 P.M.										4 P.M. TO 12 P.M.											
DEPTH		START 2755		PROGRESS 15		END 1770		START 2770		PROGRESS 115		END 2885		START 2885		PROGRESS 130		END 3015													
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							
	4	29264	XDV	8 3/4	2755	2770		1 1/4	4	29264	XDV	8 3/4	2755	2885	130	8 1/2	4	29264	XDV	8 3/4	2755	3015	260	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							
		6x14		800		80		10		6x14		550		80		10-20		6x14		550		80		28							
DRILLING STRING		SIZE		STANDS		SINGLES		DRILL COL.		KELLY IN		CORE BBL.		SIZE		STANDS		SINGLES		DRILL COL.		KELLY IN		CORE BBL.							
		4 1/2		39				394.91		15				4 1/2		41				394.91		16									
MUD RECORD		TYPE OF MUD		WEIGHT		VIS		WL		PH		FC		TYPE OF MUD		WEIGHT		VIS		WL		PH		FC							
				9.3		100+								Gel-WATER		9.0		69													
																8.9		65		10.2		8-		3/32							
		ADDITIVES														ADDITIVES		Gel-1700													
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.		3 1/2 DEG. AT 2785 FT.		4 DEG. AT 2875 FT.		DEG. AT		FT.		2 1/8 DEG. AT 2966 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		FROM		TO		DESCRIPTION OF WORK		FROM		TO		DESCRIPTION OF WORK		FROM		TO		DESCRIPTION OF WORK		FROM		TO		DESCRIPTION OF WORK							
		12 00		12 45		LOAD OUT TESTER		8 00		9 15		Drilling		4 00		5 15		Drilling													
		12 45		1 15		SLIP LING		9 15		9 30		SURVEY		5 15		5 30		Rig SER													
		1 15		1 30		RIG SER		9 30		9 45		Rig SER		5 30		9 00		Drilling													
		1 30		3 30		RUN IN + SLM W/ BIT #4		9 45		3 00		Drilling		9 00		9 00		SURVEY													
		3 30		4 05		BLOW KELLY		3 00		3 15		SURVEY		9 15		12 00		DRILL													
		4 05		5 30		BREAK C/P + CLEAN 15' TO BTM		3 15		4 00		Drilling																			
		5 30		6 00		DRILL																									
		6 00		7 15		PLUGGED FLOWLINE + SLIGHT AIR KICK																									
		7 15		8 00		DRILL																									
						SLM 2756.36																									
						BOARD 2755.75																									
						DIFF 0.61 M.C.																									

52-88AX4
REV. 3/69

Hudson's Bay Oil and Gas Company Limited

DAILY DRILLERS REPORT

DATE 7.26.7.

WELL NAME <i>HD SECURITY SIMPSON 0.24-A</i>		LDG. FLG. TO KB <i>9110</i>		CASING RECORD	DEPTH	SIZE	WEIGHT	GRADE	CEMENT	ACID	PLUG DOWN	COMPANY SUPERVISOR <i>JP Brown</i>																		
CONTRACTOR <i>SENTING</i>		TYPE RIG <i>GD 3000</i>			K. B. ELEV. <i>9218</i>																									
RIG NO. <i>35</i>		TOOL PUSHER			GRD. ELEV. <i>911</i>																									
12 P.M. TO 8 A.M. 8 A.M. TO 4 P.M. 4 P.M. TO 12 P.M.																														
DEPTH	START <i>2664</i>		PROGRESS <i>91</i>		END <i>2755</i>		START <i>2755</i>		PROGRESS		END																			
	NO.	SERIAL NO.	TYPE	SIZE	FROM	TO	FOOTAGE	HRS. RUN	NO.	SERIAL NO.	TYPE	SIZE	FROM	TO	FOOTAGE	HRS. RUN														
BIT RECORD	3		29191	X16	8 3/4	1939	2755	816	26 1/4	3		29191	X16	8 3/4	1939															
DRILLING DATA	LINER SIZE		PUMP PRESSURE		TABLE SPEED		WEIGHT ON BIT		LINER SIZE		PUMP PRESSURE		TABLE SPEED		WEIGHT ON BIT															
	6 X 14		550		80		10		6 X 14																					
DRILLING STRING	SIZE		STANDS		SINGLES		DRILL COL.		KELLY IN		CORE BBL.		SIZE		STANDS		SINGLES		DRILL COL.		KELLY IN		CORE BBL.							
	4 1/2		38		1		394.91		37																					
MUD RECORD	TYPE OF MUD		WEIGHT		VIS		WL		PH		FC		TYPE OF MUD		WEIGHT		VIS		WL		PH		FC							
			9.4		42		12.		9.0		2/32.																			
			9.3		45																									
	ADDITIVES		9.3		64								ADDITIVES		Bel-1500 ⁺															
CORING	NO.		FROM		TO		RECOVERED		FORMATION		NO.		FROM		TO		RECOVERED		FORMATION		NO.		FROM		TO		RECOVERED		FORMATION	
SURVEY	37		DEG. AT		2664 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		FROM		TO		DESCRIPTION OF WORK							
	12 00		12 30		RIG SET + SURVEY		9 00		9 00		Dummy trip 12 STDs		4 00		4 15		HEAD UP TO TEST D.S.T #1		4 00		4 15		HEAD UP TO TEST D.S.T #1							
	12 30		5 45		DRLG		9 00		11 00		CIR Cond mud to test		4 15		7 30		TESTING		4 15		7 30		TESTING							
	5 45		6 30		CIRC SAMPLE		11 00		1 00		Blow Kelly Hoist to test		7 30				RIG OUT TEST HEAD HOIST		7 30				RIG OUT TEST HEAD HOIST							
	6 30		6 45		DRLG		1 00		1 45		Rig up D.S.T. #1		10 30		10 30		20 WET STDs		10 30		10 30		20 WET STDs							
	6 45		8 00		CIRC WSS SAMPLES 9 HOLE		1 45		2 00		SETUP BRAKES THAW LINES		10 30		12 00		BREAK DOWN TEST		10 30		12 00		BREAK DOWN TEST							
							2 00		4 00		Rig up RUN IN																			
DRILLER <i>A. W. W.</i>		NO. HELPERS <i>3</i>		DRILLER		NO. HELPERS		DRILLER		NO. HELPERS		DRILLER		NO. HELPERS																

Hudson's Bay Oil and Gas Company Limited

DAILY DRILLERS REPORT

DATE Feb. 25-71

WELL NAME <i>H.B. SECURITY SIMPSON D-74 A</i>										LDG. FLG. TO KB <i>10.20</i>		CASING RECORD	DEPTH	SIZE	WEIGHT	GRADE	CEMENT	ACID	PLUG DOWN	COMPANY SUPERVISOR <i>J.P. Brown</i>																									
CONTRACTOR <i>MENTINE</i>					TYPE RIG <i>GD 3000</i>					K. B. ELEV.																																			
RIG NO. <i>35</i>					TOOL PUSHER					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 <i>1939</i>					PROGRESS <i>332</i>					END <i>2271</i>					START <i>2271</i>					PROGRESS					END <i>2482</i>					START <i>2482</i>					PROGRESS <i>182</i>					END <i>2669</i>				
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													
	<i>3</i>	<i>29191</i>	<i>X16</i>	<i>8 3/4</i>	<i>1939</i>	<i>2271</i>	<i>332</i>	<i>7</i>	<i>3</i>	<i>29191</i>	<i>X16</i>	<i>8 3/4</i>	<i>1939</i>	<i>2482</i>	<i>543</i>	<i>13 1/4</i>	<i>3</i>	<i>29191</i>	<i>X16</i>	<i>8 3/4</i>	<i>1939</i>	<i>2669</i>																							
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																						
	<i>5 X 14</i>		<i>550</i>		<i>120</i>		<i>18-20</i>		<i>6 X 14</i>		<i>550</i>																																		
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.																											
	<i>4 1/2</i>			<i>394.91</i>			<i>4 1/2</i>	<i>24</i>		<i>394.91</i>	<i>IN</i>		<i>4 1/2</i>	<i>37</i>		<i>394.91</i>	<i>37</i>																												
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																								
			<i>8.9</i>	<i>55</i>						<i>9.1</i>	<i>56</i>																																		
			<i>9.0</i>	<i>52</i>						<i>9.1</i>	<i>53</i>																																		
	ADDITIVES		<i>9.2</i>	<i>62</i>								ADDITIVES <i>Gel - 15 SKS</i>		<i>K.B.</i>	<i>10.20</i>								ADDITIVES <i>GEL 2500</i>																						
		<i>GEL 2200</i>	<i>9.1</i>	<i>54</i>										<i>BENEX - 3 SKS</i>										<i>BENEX 5 SKS</i>																					
		<i>BENEX 4 SKS</i>																																											
CORING	NO.	FROM	TO	RECOVERED	FORMATION	NO.	FROM	TO	RECOVERED	FORMATION	NO.	FROM	TO	RECOVERED	FORMATION																														
SURVEY	2 1/2 DEG. AT <i>2031</i> FT.		2 1/2 DEG. AT <i>2122</i> FT.		2 DEG. AT <i>2212</i> FT.		2 1/4 DEG. AT <i>2301</i> FT.		2 1/4 DEG. AT <i>2392</i> FT.		3 DEG. AT <i>2482</i> FT.		3 1/4 DEG. AT <i>2575</i> 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																																		
	<i>12:00</i>	<i>12:15</i>	<i>RIG SET SWIVEL</i>		<i>8:30</i>	<i>8:45</i>	<i>Drilling</i>		<i>4:00</i>	<i>4:15</i>	<i>Rig set</i>																																		
	<i>12:15</i>	<i>2:00</i>	<i>DRILL</i>		<i>8:45</i>	<i>9:00</i>	<i>Rig set</i>		<i>4:15</i>	<i>4:30</i>	<i>Drilling</i>																																		
	<i>2:00</i>	<i>2:15</i>	<i>SURVEY</i>		<i>8:00</i>	<i>9:00</i>	<i>SURVEY</i>		<i>8:30</i>	<i>8:45</i>	<i>SURVEY</i>																																		
	<i>2:15</i>	<i>4:00</i>	<i>DRILL</i>		<i>9:00</i>	<i>9:45</i>	<i>Drilling</i>		<i>8:45</i>	<i>12:00</i>	<i>DRILL</i>																																		
	<i>4:00</i>	<i>4:15</i>	<i>SURVEY</i>		<i>9:45</i>	<i>10:30</i>	<i>Change SAFER Sub Remove Rubber</i>																																						
	<i>4:15</i>	<i>6:15</i>	<i>DRILL</i>		<i>10:30</i>	<i>12:30</i>	<i>Drilling</i>																																						
	<i>6:15</i>	<i>6:30</i>	<i>SURVEY</i>		<i>12:30</i>	<i>12:45</i>	<i>SURVEY</i>																																						
	<i>6:30</i>	<i>8:00</i>	<i>DRILL</i>		<i>12:45</i>	<i>3:45</i>	<i>Drilling</i>																																						
					<i>3:45</i>	<i>4:00</i>	<i>SURVEY</i>																																						
DRILLER <i>R. Thompson</i>			NO. HELPERS <i>3</i>			DRILLER <i>M. L. Thompson</i>			NO. HELPERS <i>3</i>			DRILLER			NO. HELPERS																														

Hudson's Bay Oil and Gas Company Limited

DAILY DRILLERS REPORT

DATE Feb 24-71

WELL NAME	SECURITY SIMPSON C.P.O. 9 0-24A	LDG. FLG. TO KB	10.20	CASING RECORD	DEPTH	SIZE	WEIGHT	GRADE	CEMENT	ACID	PLUG DOWN	COMPANY SUPERVISOR E. Brown
CONTRACTOR	Kenting	TYPE RIG	20 3000		K. B. ELEV.	10.20						
RIG NO.	35	TOOL PUSHER			GRD. ELEV.	911						

	12 P.M. TO 8 A.M.												8 A.M. TO 4 P.M.												4 P.M. TO 12 P.M.											
DEPTH	START 1547				PROGRESS 127				END 1674				START 1674				PROGRESS				END 1847				START 1847				PROGRESS 92.3				END 1939			
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	21797	OSCI	8 3/4	1384	1674	288	10 1/4	2	21797	OSCI	8 3/4	1384	1847	461	17 1/4	2	21797	OSCI	8 3/4	1384	1939	637	21												
																		3	29191	XIG	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													
	6 x 14		500		120		10-8-6		6 x 14		500		120		4-12		6 x 14		500		120															
DRILLING STRING	SIZE		STANDS		SINGLES		DRILL COL.		KELLY IN		CORE BBL.		SIZE		STANDS		SINGLES		DRILL COL.		KELLY IN		CORE BBL.													
	4 1/2		21				394.91		216				4 1/2		23		1		394.91		1N															
MUD RECORD	TYPE OF MUD		WEIGHT		VIS		WL		PH		FC		TYPE OF MUD		WEIGHT		VIS		WL		PH		FC													
			8.8		42				9.5				Gel-Water		9.0		58				8.9		56													
			9.0		52										9.0		48				8.9		59													
	ADDITIVES		8.8		48								ADDITIVES		Gel		1500 SHS						ADDITIVES		8.9		55									
CORING	NO.		FROM		TO		RECOVERED		FORMATION		NO.		FROM		TO		RECOVERED		FORMATION		NO.		FROM		TO		RECOVERED		FORMATION							
SURVEY	3 DEG. AT 1606 FT.		13 DEG. AT 1665 FT.		DEG. AT		FT.		3 DEG. AT 1726 FT.		34 DEG. AT 1817 FT.		DEG. AT		FT.		3 DEG. AT 1877 FT.		3 DEG. AT 1939 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									
	12 00	12 30	RIG SER / BOPS + MOTOR SHUT OFFS										9 30	9 45	REPACK SWING RIG SER										4 00	6 00	DRILLING									
	12 30	2 45	DRILL										9 30	10 15	DRILLING										6 00	6 15	RIG SER									
	2 15	3 00	SURVEY										10 15	10 30	SURVEY										6 15	6 30	SURVEY									
	3 00	5 45	DRILL										10 30	2 15	DRILLING										6 30	8 15	DRILLING									
	5 45	6 00	SURVEY										2 15	2 30	SURVEY										8 15	8 30	SURVEY									
	6 00	6 30	DRILL										2 30	4 00	DRILLING										8 30	10 00	RETRACT FOR BIT									
	6 30	8 00	REPACK WASH PIPE																						10 00	11 15	RUN IN W/BIT #3									
																									11 15	11 30	BLOW KELLY									
																									11 30	12 00	CLEAN 10' TO BIT									
DRILLER		R. Thompson		NO. HELPERS		3		DRILLER		R. L. Thompson		NO. HELPERS		3		DRILLER				NO. HELPERS		3														

Hudson's Bay Oil and Gas Company Limited

DAILY DRILLERS REPORT

DATE 7.6.23.71

WELL NAME	SECURITY/SIMPSON GRD. 024A	LDG. FLG. TO KB	10	CASING RECORD	DEPTH	SIZE	WEIGHT	GRADE	CEMENT	ACID	PLUG DOWN	COMPANY SUPERVISOR E. Brown	
CONTRACTOR	KENTING	TYPE RIG	G.D. 3000		K. B. ELEV.	921	6 11	10 3/4	32.15	H 40			
RIG NO.	35	TOOL PUSHER			GRD. ELEV.	911							

	12 P.M. TO 8 A.M.												8 A.M. TO 4 P.M.												4 P.M. TO 12 P.M.											
DEPTH	START 1127 PROGRESS 175 END 1302												START 1302 PROGRESS 82 END 1384												START 1344 PROGRESS 163 END 1547											
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	15686	OSC	3 3/4	1127	1302	691	1 1/2	1	15686	OSC	8 3/4	1302	1384	774	2 1/4	2	21797	OSC	4 1/2	1344	1547	163	4 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	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 X 14	500	120	10-20	6 X 14	500	120-65	10-20	6 X 14	500	60-80	22	6 X 14	500	60-80	22	6 X 14	500	60-80	22	6 X 14	500	60-80	22												
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	14	1	394.91	32		4 1/2	16		394.91	24		4 1/2	18	1	394.91	3700		4 1/2	18	1	394.91	3700													
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												
	GEL-B	8.9	35				GEL-WATER	9.2	42				Gel-WATER	9.4	47				Gel-WATER	9.4	47															
		9.0	45					9.2	44					9.7	55					9.7	55															
ADDITIVES	GEL-4500						ADDITIVES						GEL-2500F						ADDITIVES						GEL-475K											
	2V68-2 GALS						DU-68 35AL												BENEX-4 SK																	
CORING	NO.	FROM	TO	RECOVERED	FORMATION	NO.	FROM	TO	RECOVERED	FORMATION	NO.	FROM	TO	RECOVERED	FORMATION	NO.	FROM	TO	RECOVERED	FORMATION	NO.	FROM	TO	RECOVERED	FORMATION											
SURVEY	3/4 DEG. AT 1184 FT. 1 DEG. AT 1275 FT. DEG. AT FT. 1 DEG. AT 1344 FT. DEG. AT FT. DEG. AT FT. 2 3/4 DEG. AT 1547 FT. DEG. AT FT. DEG. AT FT.						3/4 DEG. AT 1184 FT. 1 DEG. AT 1275 FT. DEG. AT FT. 1 DEG. AT 1344 FT. DEG. AT FT. DEG. AT FT. 2 3/4 DEG. AT 1547 FT. DEG. AT FT. DEG. AT FT.						3/4 DEG. AT 1184 FT. 1 DEG. AT 1275 FT. DEG. AT FT. 1 DEG. AT 1344 FT. DEG. AT FT. DEG. AT FT. 2 3/4 DEG. AT 1547 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:																							
	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																					
	1200	1210	DRILL				800	815	DRILL				400	600	MIX MUD																					
	1230	1245	BIG SURVEY				815	845	BIG SURVEY				600	700	RUN IN W/ BIT																					
	1245	200	DRILL				845	915	DRILL				700	1145	DRILL 8 1/2																					
	200	215	SURVEY				915	1000	WORK ON FROZEN AIR LINES				1145	1200	SURVEY																					
	215	345	DRILL				1000	1215	DRILL																											
	345		HOLE TIGHTEN CON @ 1214 TO				1215	100	DROP SURVEY																											
		415	1184 WORK PIPE				100	215	TRIP FOR BIT																											
	415	645	DRILL				215	300	REPAIR RHEUM																											
	645	700	SURVEY				300	400	PUMP CLEAN MUD (H 40) + MIX MUD																											
700	800	DRILL																																		
DRILLER J. Anderson						NO. HELPERS 3						DRILLER R. W. W. W.						NO. HELPERS 3						DRILLER M. L. Thompson						NO. HELPERS 3						

Hudson's Bay Oil and Gas Company Limited

DAILY DRILLERS REPORT

DATE FEB 22/71

WELL NAME	SECURITY Simpson 609 24 A	L.D.G. FLG. TO KB	10	CASING	DEPTH	SIZE	WEIGHT	GRADE	CEMENT	ACID	PLUG DOWN	COMPANY SUPERVISOR
CONTRACTOR	KENTING	TYPE RIG	G.D. 3000	K. B. ELEV.	921	RECORD	610KD1074					UP Brown
RIG NO.	35	TOOL PUSHER		GRD. ELEV.	911							

	12 P.M. TO 8 A.M.												8 A.M. TO 4 P.M.												4 P.M. TO 12 P.M.																										
DEPTH	START 614 PROGRESS 615 END 615												START 615 PROGRESS 827 END 212												START 827 PROGRESS 300 END 1127																										
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	15686	OSC	8 3/4	610	615			1	15686	OSC-3	8 3/4	609	827	217	5 1/4		1	15686	OSC3	8 3/4	609	1127	517	11 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	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 X 14	300	100	10'000	6 X 14	400	100	10	6 X 14	500	100	10-20	6 X 14	500	100	10-20	6 X 14	500	100	10-20	6 X 14	500	100	10-20																											
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	3	1	394.91	7		4 1/2	7		394.91	77		4 1/2	12		394.91	2		4 1/2	12		394.91	2																												
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																											
	GEL	8.4	28				GEL-DU68	8.4	28				GEL	8.9	36				GEL	8.9	36																														
								8.4	29						9.0	35																																			
	ADDITIVES						ADDITIVES	8.4	32				ADDITIVES						ADDITIVES																																
							GEL 2000#	8.4	32				GEL 2000#						GEL 2500#																																
							DUCB 2 GAL.		BICARB 100#				DUCB 2 GAL.						D.V.68 2 GAL																																
CORING	NO.	FROM	TO	RECOVERED	FORMATION	NO.	FROM	TO	RECOVERED	FORMATION	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.	DEG. AT	FT.	DEG. AT	FT.																									
	18	675	2 1/2	787			2	856	1 1/4	977	1 1/4	1095																																							
DRILL STEM TESTS	NO.	INTERVAL	FORMATION	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.)	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.)	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.	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.	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:				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																							
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	FROM	TO	DESCRIPTION OF WORK	FROM	TO	DESCRIPTION OF WORK																								
	1200	1230	PRESSURE TEST BLIND RAMS	1200	1230	PRESSURE TEST BLIND RAM	4.00	4.15	rig service	4.00	4.15	rig service	4.00	4.15	rig service	4.00	4.15	rig service	4.00	4.15	rig service	4.00	4.15	rig service	4.00	4.15	rig service																								
			To 1000 P.S.I. HELD OK			To 1000 P.S.I. HELD OK																																													
	1230		TIGHTEN DOWN FLOW NIPPLE	830	830	FINISH OUT	4.15	4.30	Survey	4.15	4.30	Survey	4.15	4.30	Survey	4.15	4.30	Survey	4.15	4.30	Survey	4.15	4.30	Survey	4.15	4.30	Survey																								
			CHANGE GRAND PALKING	830	900	RIG SER. BOBS	4.30	6.45	Drill	4.30	6.45	Drill	4.30	6.45	Drill	4.30	6.45	Drill	4.30	6.45	Drill	4.30	6.45	Drill	4.30	6.45	Drill																								
			WAIT ON RIGHT ANGLE DRIVE	900	1000	RUN IN W/ BIT	6.45	7.00	Survey	6.45	7.00	Survey	6.45	7.00	Survey	6.45	7.00	Survey	6.45	7.00	Survey	6.45	7.00	Survey	6.45	7.00	Survey																								
	330	400	TRIP IN HOLE	1000	1145	DRILL 8 3/4 HOLE	7.00	9.15	Drill	7.00	9.15	Drill	7.00	9.15	Drill	7.00	9.15	Drill	7.00	9.15	Drill	7.00	9.15	Drill	7.00	9.15	Drill																								
	400	500	PRESSURE TEST 4 1/2 RAMS	1145	1200	SURVEY	9.15	9.45	Work Mud ring (SHUFFLING SHALE)	9.15	9.45	Work Mud ring (SHUFFLING SHALE)	9.15	9.45	Work Mud ring (SHUFFLING SHALE)	9.15	9.45	Work Mud ring (SHUFFLING SHALE)	9.15	9.45	Work Mud ring (SHUFFLING SHALE)	9.15	9.45	Work Mud ring (SHUFFLING SHALE)	9.15	9.45	Work Mud ring (SHUFFLING SHALE)																								
			6 1/2 DRILL TO 1000 P.S.I. HELD OK	1200	1000	DRILL	9.45	10.30	Drill	9.45	10.30	Drill	9.45	10.30	Drill	9.45	10.30	Drill	9.45	10.30	Drill	9.45	10.30	Drill	9.45	10.30	Drill																								
	500	600	DRILL OUT	1000	1000	DRILL	10.30	11.00	Survey + clean shaker tank	10.30	11.00	Survey + clean shaker tank	10.30	11.00	Survey + clean shaker tank	10.30	11.00	Survey + clean shaker tank	10.30	11.00	Survey + clean shaker tank	10.30	11.00	Survey + clean shaker tank	10.30	11.00	Survey + clean shaker tank																								
600	730	DRILL OUT PLUGGED BIT	1000	1000	DRILL	11.00	12.00	Drill	11.00	12.00	Drill	11.00	12.00	Drill	11.00	12.00	Drill	11.00	12.00	Drill	11.00	12.00	Drill	11.00	12.00	Drill																									
DRILLER	J. Brown												NO. HELPERS	4												DRILLER	Dwight Green												NO. HELPERS	3											

Hudson's Bay Oil and Gas Company Limited

DAILY DRILLERS REPORT

DATE *FEB 21/71*

WELL NAME	<i>SECURITY SIMPSON CORP 624A</i>	LDG. FLG. TO KB	<i>10</i>	CASING RECORD	DEPTH	SIZE	WEIGHT	GRADE	CEMENT	ACID	PLUG DOWN	COMPANY SUPERVISOR <i>J. Brown</i>	
CONTRACTOR	<i>KENTING</i>	TYPE RIG	<i>G.D. 3000</i>		K. B. ELEV.	<i>921</i>	<i>10 3/4</i>		<i>H. 40.</i>	<i>540</i>	<i>CALLS</i>		<i>2044A</i>
RIG NO.	<i>35</i>	TOOL PUSHER	<i>B. FORSYTHE</i>		GRD. ELEV.	<i>911</i>							

	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																																										
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																			
	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.																			
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															
	<i>1200</i>	<i>1230</i>	<i>RUN CSG</i>										<i>800</i>		<i>CUT OFF CSG WELD ON</i>										<i>400</i>	<i>1100</i>	<i>NIPPLE UP.</i>															
	<i>1230</i>	<i>100</i>	<i>CIRC CSG</i>										<i>400</i>		<i>BLIND</i>										<i>1100</i>	<i>1200</i>	<i>PRESSURING UP BLINDS</i>															
	<i>150</i>	<i>200</i>	<i>CEMENT & RING PLUG</i>																																							
	<i>200</i>	<i>800</i>	<i>W.O.C.</i>																																							
<i>RAN 21 JTS/NEW H-40. 32.75" 10 3/4" CSG 613.41 INCHES</i>																																										
<i>CEMENT BY B-J W/ 540 SX CONST CEMENT + 2% CADI</i>																																										
<i>W/ 1000 P.S.T. @ 200 A.M. FEB 21-71</i>																																										
<i>Placed HOWCO CENTRALIZER</i>																																										
<i>DRILLER <i>[Signature]</i> NO. HELPERS <i>135</i></i>																																										
<i>DRILLER <i>[Signature]</i> NO. HELPERS <i>4</i></i>																																										
<i>DRILLER <i>[Signature]</i> NO. HELPERS <i>3</i></i>																																										

Hudson's Bay Oil and Gas Company Limited

DAILY DRILLERS REPORT

DATE 7-20-71

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.													
Security Simpson L.P.D. 0-24-A		10'													
Kenting		921													
35		911													
		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 586 PROGRESS 19 END 605				START 605 PROGRESS 605 END 610				START 580 PROGRESS 30 END 610			
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			
3A RR 2192 DT 8 3/4 586 605 95 73 3/4				3A RR 8 3/4 605 610 5 1 1/4				2A AR AT 15 510 610 105 3 1/4							
				2A AR DT 12 425 480 55 5											
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 X 14 500 100 4,000				6 X 14 500 160 10,000				8 X 14 500 120 12,000							
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 1/2 394.91 24				4 1/2 394.91				4 1/2 394.91 22							
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			
GEL 9.2 65				GEL 9.8 180				GEL 9.8 153				9.8 147			
ADDITIVES				ADDITIVES GEL - 800				ADDITIVES GEL - 1200							
CORING				NO. FROM TO RECOVERED FORMATION				NO. FROM TO RECOVERED FORMATION				NO. FROM TO RECOVERED FORMATION			
SURVEY				1° DEG. AT 586 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			
12.00 2.15 Drill				9:00 9:15 DRILL 8 3/4 HOLE				4:00 4:15 REAMING							
2.15 2.30 Rig Service				9:15 10:15 R.P.T. TO CHANGE HOLE SIZE TO 10"				4:15 4:45 RIG SER							
2.30 2.45 Survey				10:15 10:30 RIG SER				4:45 6:30 REAMING							
2.45 8.00 Drill				10:30 11:00 CLEAN TO BIT				6:30 7:00 DUMMY TRIP 3 STD							
				11:00 4:00 BEAM FROM 510 - 584				7:00 7:30 CIRC							
								7:30 8:30 HOIST TO RUN CS9							
								8:30 9:00 RIG TO RUN CS9							
								9:00 12:00 RUN CS9							
DRILLER Dwight Green NO. HELPERS 3				DRILLER Anderson NO. HELPERS 4				DRILLER R. Kluska NO. HELPERS							

[illegible]

Hudson's Bay Oil and Gas Company Limited

DAILY DRILLERS REPORT

DATE 7-18-71

WELL NAME	Security Simpson APOL 0-24-A	LDG. FLG. TO KB	10'	CASING RECORD	DEPTH	SIZE	WEIGHT	GRADE	CEMENT	ACID	PLUG DOWN	COMPANY SUPERVISOR
CONTRACTOR		K. B. ELEV.	921									
RIG NO.		GRD. ELEV.	911									

	12 P.M. TO 8 A.M.												8 A.M. TO 4 P.M.												4 P.M. TO 12 P.M.											
DEPTH	START 330.				PROGRESS 90				END 420'				START 420				PROGRESS 70				END 490.				START 490				PROGRESS 20				END 510.			
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												
	2A	CX663	DT	15	95	420	377	15 1/4	2A	CX663	DT	15	95	420	377	16	3A	21797	OSCIGT	8 3/4	425	510	85	6 1/2												
										3A	21797	OSCIGT	8 3/4	425	490	65	5																			
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		300		160		6-8 m.		6		300		180		4-6 m.		6		300		100		4-6 m.													
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													
	G.W.		9.0		61								G.W.		9.1		62																			
	ADDITIVES		N.I.										ADDITIVES		N.I.																					
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									
	12:00	1:15	DRILL 15"										8:00	8:15	R.E. SER										4:00	4:30	DRILL 8 3/4"									
	1:15	1:30	SURVEY @ 350 - 7/8										8:15	9:00	DRILL 15"										4:30	5:00	R.E. SER / SWIVEL & SURVEY @ 495-1 1/8									
	1:30	3:00	DRILL 15"										9:00	10:30	TRIP & CHG Bit TO 8 3/4										5:00	6:00	DRILL 8 3/4"									
	3:00	3:45	WORK Balled up Bit.										10:30	11:30	DRILL 8 3/4"										6:00	9:30	REPAIR R. ANGLE DRIVE.									
	3:45	6:45	DRILL 15"										11:30	11:45	SURVEY @ 434 1 1/8										9:30	10:30	TRIP OUT.									
	6:45	7:00	SURVEY @ 465 - 1 1/8										11:45	1:45	DRILL 8 3/4										10:30	12:00	REPAIR RIGHT ANGLE DRIVE.									
	7:00	8:00	DRILL 15"										1:45	2:00	SURVEY @ 465 - 1 1/8																					
													2:00	4:00	DRILL 8 3/4																					
DRILLER		D. Aron		NO. HELPERS		3		DRILLER		K. Anderson		NO. HELPERS		2		DRILLER		R. Klemola		NO. HELPERS		3														

Hudson's Bay Oil and Gas Company Limited

DAILY DRILLERS REPORT

DATE Feb 17-71

WELL NAME	Security Simpson A.P.O. 0-24-A	LDG. FLG. TO KB	10'	CASING RECORD	DEPTH	SIZE	WEIGHT	GRADE	CEMENT	ACID	PLUG DOWN	COMPANY SUPERVISOR	
CONTRACTOR	Kurting	TYPE RIG	L.D. 3000		K. B. ELEV.	921							
RIG NO.	35	TOOL PUSHER	A Smythe		GRD. ELEV.	911							

	12 P.M. TO 8 A.M.								8 A.M. TO 4 P.M.								4 P.M. TO 12 P.M.								
DEPTH	START 60		PROGRESS 4		END 64				START 64		PROGRESS 66		END 130.		START 130		PROGRESS 200.		END 330						
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	42787	WT	8 3/4	42	64	22	3 1/4	1A	42787	WT	8 3/4	42	130	95	53	5 3/4	2A	CX663	DT	15	95	330.	135	8 1/2
													92	95	53	1 1/2									
													95	130.	35	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
	6	350	60	All	6	350	100	All	6	350	100	6-8 m.

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		8.5	66				G W		8.9	65				G W		9.0	69			
	ADDITIVES		N.I.					ADDITIVES		N.I.					ADDITIVES		N.I.				

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.)			VALVE OPEN (MINS.)			VALVE OPEN (MINS.)		
	INITIAL SHUT-IN (MINS.)			INITIAL SHUT-IN (MINS.)			INITIAL SHUT-IN (MINS.)		
	FINAL SHUT-IN (MINS.)			FINAL 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.		

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	7 ⁰⁰	REPAIR SWIVEL	8 ⁰⁰	10 ³⁰	DRILL 8 3/4"	4 ⁰⁰	5 ⁰⁰	DRILL 15" 11 ³⁰ 12 ⁰⁰ DRILL 15"
	7 ⁰⁰	8 ⁰⁰	DRILL 8 3/4"	10 ³⁰	10 ⁴⁵	R.C. SER 9 SURVEY	5 ⁰⁰	5 ³⁰	SURVEY - 152'-5/8"
				10 ⁴⁵	11 ³⁰	CHG HOLE SIZE 15"	5 ³⁰	6 ¹⁵	DRILL 15" #
				11 ³⁰	1 ⁰⁰	Beam to 15"	6 ¹⁵	6 ³⁰	SURVEY 180'-1/2
				1 ⁰⁰	2 ⁰⁰	DRILL 15"	6 ³⁰	7 ⁴⁵	DRILL 15"
				2 ⁰⁰	3 ⁰⁰	REPAIR SWIVEL	7 ⁴⁵	8 ⁰⁰	SURVEY 237'-1/2
				3 ⁰⁰	4 ⁰⁰	DRILL 15"	8 ⁰⁰	10 ⁰⁰	DRILL 15"
							10 ⁰⁰	10 ¹⁵	SURVEY 293'-7/8
							10 ¹⁵	11 ¹⁵	DRILL 15"

DRILLER	D. Green	NO. HELPERS	3	DRILLER	K. Anderson	NO. HELPERS	3	DRILLER	B. Klemola	NO. HELPERS	3
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Hudson's Bay Oil and Gas Company Limited

DAILY DRILLERS REPORT

DATE 7/16/71

WELL NAME	Security Simpson SPOG 024-A	LDG. FLG. TO KB		CASING RECORD	DEPTH	SIZE	WEIGHT	GRADE	CEMENT	ACID	PLUG DOWN	COMPANY SUPERVISOR
CONTRACTOR	Kentucky	TYPE RIG	A.D. 3090		K. B. ELEV.							
RIG NO.	35	TOOL PUSHER	A. 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		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																														
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		350		60		all						
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							
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:										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															
							8 ⁰⁰	4 ⁰⁰	moving rig up.				4 ⁰⁰	8 ⁰⁰	Rig to Spud in.															
													8 ⁰⁰	9 ⁰⁰	Mix Mud															
													9 ⁰⁰	11 ¹⁵	DRILL 1 DRY FT + 20 RLG AHEAD.															
													11 ¹⁵	12 ⁰⁰	REPAIR SWIVEL															
DRILLER				NO. HELPERS				DRILLER K. Anderson				NO. HELPERS 2				DRILLER R. K. Klemola				NO. HELPERS 8.										

Hudson's Bay Oil and Gas Company Limited

DAILY DRILLERS REPORT

DATE Feb 15-71

WELL NAME	Security Services & Pools - 0-24 A.	LDG. FLG. TO KB		CASING	DEPTH	SIZE	WEIGHT	GRADE	CEMENT	ACID	PLUG DOWN	COMPANY SUPERVISOR
CONTRACTOR	Hunting	TYPE RIG	H. 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																																											
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																																											
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																															
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																																
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 AM - 1:00 PM																						MADE UP + RAN 42' BBL TYPE CONDUCTOR PIPE (WELDED 2" BISCUT ON BOTTOM)																																									
			RAN 1st STAGE CEMENT W/ 16 5x CEMENT + 15% PAC12 W.O.C 1 HR.																						2nd STAGE 30 5x CEMENT + 6% PAC12 W.O.C 2 HRS																																									
			3rd STAGE 51 5x + 6% PAC12																						9 3 5x CEMENT + 6% PAC12 INSIDE BBL W.O.C.																																									
DRILLER					NO. HELPERS				DRILLER				K. Anderson				NO. HELPERS				3				DRILLER								NO. HELPERS																																	

Hudson's Bay Oil and Gas Company Limited

DAILY DRILLERS REPORT

DATE Feb 14-71

WELL NAME	Security Simpson APOB 0-24	LDG. FLG. TO KB		CASING	DEPTH	SIZE	WEIGHT	GRADE	CEMENT	ACID	PLUG DOWN	COMPANY
CONTRACTOR	Keating	TYPE RIG	A.D. 3000	K. B. ELEV.								SUPERVISOR
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								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																		
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																			
	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																							