

HORN RIVER SR
ET AL CORMACK
C-65-17

WELL NAME: Worm River BR et al Gormack C-65-J.

FIELD

LOCATION: Unit

Latitude

U.W.L.R.

U.W.I.

Area:

Section

Longitude

Grid

01-00-177-10

60-91-13

122-27-21

60.20361 --- 122.45583

3022623100122180

Rig Release Date:

Status:

Information Release Date:

CHANGE OF NAME:

DATE RECEIVED

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20-1-71

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Logs. Large scale..... Small scale.....



Drilling Authority No. 492

Date Issued January 20, 1971

DEPARTMENT OF INDIAN AFFAIRS AND NORTHERN DEVELOPMENT
OIL AND MINERAL DIVISION**WELL COMPLETION DATA***To be submitted in duplicate within thirty days after the completion, rework, abandonment, recompletion or suspension of every well.*Well name and number: **Horn River S E RT AL Oorwack C-65A**

Permit No.

Lease No. **136-65****Murphy Oil Company Ltd.**
(Permitter, Lessee, Licensee)Exploratory Licence No. **1602****Horn River Resources Ltd.**
(Operator)Exploratory Licence No. **1785**Location: Unit **G**Section **65**Grid **61°00', 122°15'**Latitude **60°54'13"**Longitude **122°27'21"**

From Established Reference Marker

Universal Well Location Reference Lat. **60.90361°N., Long. 122.45583°W.**

	DATE	DEPTH	Pool(s)	Interval(s) open to production
Spudded	Jan 4/71		N/A	N/A
Suspended				
Resumed Operations				
Finished Drilling	Jan 27/71	3710 (Dril.) 3699 (K.Log)		
Deepened			Elevation: Gr. 2155 K.D. 2164	
Complete (gas/oil)			Rig No. 35	
Abandoned	Jan 30/71		Drilling Contractor Kanting Oilwell Drilling	
Rig released	Jan 30/71		Contractor's Business Licence No. 800	

CASING RECORD

Casing Size (Inches)	Grade	Weight	Amount	Set at	Boots of Cement and Additives
1. 7	J-55	230	698.18	685	250 sack plus 31 Ca Cl₂
2.					
3.					
4.					
5.					
6.					

GEOLOGICAL TOPS**ELEVATION**

	Depth	Sub Sea
Devonian	1772	↓ 392
Tetcho	2266	- 104
Jean Marie	3290	-1326
Fort Simpson Shale	3650	-1486

CORE RECORD

From	To	Rec.	From	To	Rec.
3094	3504	25			
3450					

LOG RECORD

Log No.	Type of Log	From	To
1	Induction - Electrical	684	3697
1	BHC Sonic Gamma Ray Caliper	684	3697

CEMENTING RECORD (Plug, Sequester, etc.)				PERFORATING RECORD (Interval)				SERVICING RECORD (Acidizing, Fracking, etc.)			
Date	From	To	Remarks	Date	From	To	Remarks	Date	From	To	Remarks
Jan. 30/71	3710	3240	75 sack cement plus 41 Gal				nil				nil
Jan. 30/71	735	Surf	100 sack cement plus 41 Gal								

Plate was welded over surface and identification marker was installed for both wells.

DRILL STEM TESTS

No.	Date	Formation	From	To	V.O. Min.	L.S. Min.	F.S. Min.	CALHRP	FALHRP	LFHRP	F.FHRP	LWP	FHP	REMARKS
1	Jan 28/71	Jean Marie	3310	3710	63	84	120	1212	1226	1214	1218	1621	1616	Recovered 120" mud - tool plugged - considered alarm
2	Jan 29/71	Jean Marie	3305	3710	60	60	120	1041	1027	81	95	1652	1645	Recovered 140" drilling mud

ANALYSIS						PRESENT STATUS OF WELL		
Lab. No.	Sample	From	To	Source	Remarks	Oil	Gas	Dr
Nil								X

Company: Horn River Resources Ltd.

Signed by:

Title: President

Date: March 15, 1971

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



File No.
Drilling Authority No. 492

DEPARTMENT OF INDIAN AFFAIRS AND NORTHERN DEVELOPMENT
OIL AND MINERAL DIVISION

Application to Abandon a Well ~~and 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 Horn River SR et al Gormack C-65A
Location Unit Section 65 Grid S/2 61°00' 122°15'
Latitude 60°54'13" Longitude 122°27'21"
From Established Reference Marker 300C65100 122150
Universal Well Location Reference Lat. 60.90361°N Long 122.45581°W
Permit No. Lease No. 130-65

Murphy Oil Company Ltd.
(Formerly: Laramie, Laramie)

Date of commencement of proposed program Jan. 4, 1971 7:00 PM

OIL, GAS, AND WATER ENCOUNTERED
(Depth)

Oil at
Gas at
Water at

Total Depth 3710
Present condition of well

Date of last operations Rig Released Jan. 30, 1971
Dry and Abandoned 6:00 PM

CASING RECORD

Casing Size O.D. Inches	Weight	Amount	Set At	Grade of Cement and Additives	Amount Poured
1. 7"	20 lb.	698	685 KB	250 plus 2% CaCl ₂	NIL
2.					
3.					
4.					
5.					

PROPOSED ABANDONMENT PROGRAM

No.	From	Geological Formation	Number of Barrels of Cement	Remarks
1.	3710 to 3240	Ft. Simpson Shale, Jean Marie	75 + 4% Gel	
2.	735 up to Surface		130 + 4% Gel	

The following logs have been run IES, Gamma Sonic Caliper
Other operations proposed NIL

Operations to be carried out by Kenting Oilwell Drilling Contractor Licence No. 800

Address Fort Simpson, N.W.T.

Address

Responsible Agent in field Gordon Gillis

Dated at Calgary

this 5th Day of February 1971

Signed by *[Signature]*

Company Horn River Resources Ltd.

Title President

Operator's Exploratory Licence No. 1785

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

(For OIL AND MINERAL DIVISION use only)

APPROVAL

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

Confirming oral approval given by Mr. G. T. Blue on the 28th January 1971,
this approval also containing a condition to erect a riser with identification
marker.

Dated 8th February 1971

[Signature]
Oil Conservation Engineer

LAND 50-00 (12-1-69)

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

Drilling Authority No.

492

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 Law Regulations", application is hereby made for approval to drill:

Name and number of well **Horn River SR et al Carmack C-65A**
 Location: Unit **G** Section **65** Ord **S/2 61°00' 122°15'**
 Latitude **60°54' 13"** Longitude **122°27' 21"**
 Unique Well Identifier **XNO541001A 150**
 Universal Well Location Reference **Int. 60.90561° N., Long. 122.45500° W.**
 Elevation: Ground **2155** **K.B. (est.) 2164** **feet above sea-level.**
 Well is expected to produce from **Joan Marie** **formation at a depth**
 of about **3600** **feet.** Expected total final depth **4000**
 Area assigned to well

(The Oil Conservation Engineer's use only)

Permit No. **136-65** Lessee No. **6232** Acreage **6232**
 Permittee, licensee, or lessor **Murphy Oil Company Ltd.**
 Exploratory Licence No. **1687**
 Surface owned by Crown or **Crown**

(If applicant 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	Scale of Cement
1. 7"	20#	J-55	Used	685	150
2.					
3.					
4.					
5.					

Expected water, gas, and oil horizons and type of control equipment **Paleozoic (Devonian)**

Carbonates - Control with:

2 S.O.P.'s - 10" 900 Series G.K. Hydro
 - 10" 900 Series Schaffer Mechanical Double Gate

Well will be drilled with Rotary Rig No. **35** by **Kenting Oilwell Drilling**

(Drilling Contractor or company)

Responsible agent of applicant:---

At well **Gordon Willis**

Address **c/o Kenting, Can. Del.,**

Pt. Simpson

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

Dated at **Calgary**, this **19** day of **January**, 19 **71**

Signed by **[Signature]** Company **Horn River Resources Ltd.**

Title **President** Operator's Licence No. **1785**

(For Oil and Mineral Division use only)

APPROVED

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

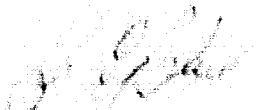
1. Copies of this Drilling Authority shall be exhibited at the Drilling Rig in both the Dayhouse and Drilling Foreman's Office between night and rig release dates.
2. The Company will submit to this office, on Tuesday of each week, the latest Dated 20th January 19 71

Oil Conservation Engineer

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

reports 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. I draw your attention to Sections 95 and 96 of the Canada Oil and Gas Land Regulations.
5. Any additional string of casing are to receive the approval of the Oil Conservation Engineer prior to running.


D.H.J. Davis, Oil Conservation Engineer

**OPERATION REEF
NORTHWEST TERRITORIES
CANADA**

**Geological and Engineering
REPORT**

Horn River S.R. et al CORMACK C-65

61-02-122-15

**PREPARED FOR
HORN RIVER RESOURCES LTD.**

**PREPARED BY
JAMES A. LEWIS ENGINEERING CO. LTD.
Petroleum Reservoir Analysts
CALGARY • ALBERTA**

INTRODUCTION

Horn River SR et al Cormack C-65A

This is a concise report on the drilling of the wells Horn River SR et al Cormack C-65 and C-65A.

Well C-65 was lost before surface casing was run, as a result of a twist-off of drill collars. The rig was skidded and well C-65A was drilled.

The well was drilled through the co-operative exploration program conducted by Horn River Resources Ltd. in the Northwest Territories of Canada.

This report was compiled by James A. Lewis Engineering Co. Ltd. from data supplied by Kenting Exploration Services Ltd. and Scurry Rainbow Oil Ltd.

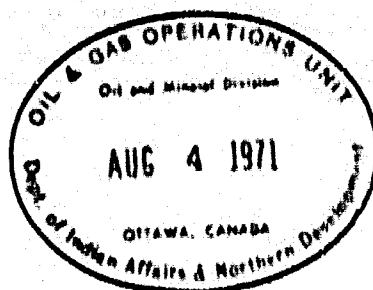


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Section 1
GENERAL

SUMMARY OF WELL DATA

WELL: Horn River SR et al Cormack C-05A

NAME OF OPERATOR: Horn River Resources Ltd.
1020 Aquitaine Tower, 540 Fifth Avenue S.W., Calgary

LEGAL DESCRIPTION: Unit C, Section 05, Grid 61° 00' 122° 15'

LOCATION: LATITUDE: 60° 54' 13" LONGITUDE: 122° 27' 21"

UNIVERSAL WELL LOCATION REFERENCE: Lat 60.90361° N. Long 122.45583° W

UNIQUE WELL IDENTIFIER: 302C058100122150

COORDINATES: _____

PERMIT OR LEASE: Lease 136.05

PERMITTEE, LICENCES, LESSEE: Murphy Oil Company Ltd.

DRILLING AUTHORITY: 492 DATE: January 20, 1971

CLASSIFICATION: Exploratory Wildcat

ELEVATION: GROUND: 2155' K.B. 2104'

DRILLING CONTRACTOR: Kentona Oilwell Drilling Rig No. 35 Rotary

WELL SITE GEOLOGIST: R. Kirkpatrick

SURFACE CASING: 7" 20 lb./ft. wt @ 685 w/c 250 sax + 2% CaCl₂

HOLE SIZE: Surface to 885' - 9 7/8", 885 to 3710' - 6 1/4"

MUD SYSTEM: Gel Chemical

CORRS: No. 1: 3450' to 3504' Rec. 25'

FORMATION TESTS: No. 1: 3310' - 3710' Miron
No. 2: 3308' - 3710' Jean Marie

ABANDONMENT PLUGS: Plug No. 1: 3710 to 3240' - 170 feet 75 sax + 4% Gel
Plug No. 2: 735 to Surface 235' - 130 sax + 4% Gel

LOST CIRCULATION: None

LOGS: IES 3697' - 684'
BHCSGRC 3617' - 684'

WELL SHUDDERED: 7:00 p.m. January 4, 1971

FINISHED DRILLING: 1:00 p.m. January 27, 1971

RIG RELEASED: 8:00 p.m. January 30, 1971

TOTAL DEPTH: 3710' (Driller's) 3699' (Logger's)

STATUS: Drilled and Abandoned

SUMMARY OF WELL DATA

WELL: Horn River SR. v. II Cormack C-65
NAME OF OPERATOR: Horn River Resources Ltd.
1020 Aquitaine Tower, 540 Fifth Avenue S.W., Calgary
LEGAL DESCRIPTION: Unit C, Section 65, Grid 61° 00' N. 122° 15' W
LOCATION: LATITUDE: 60° 54' 13" LONGITUDE: 122° 27' 21"
UNIVERSAL WELL LOCATION REFERENCE: Lat 60.90361° N. Long 122.45583° W
UNIQUE WELL IDENTIFIER: 3006056100122150
COORDINATES: _____
PERMIT OR LEASE: Lease 130-65
PERMITTEE, LICENSEE, LESSEE: Murphy Oil Company Ltd.
DRILLING AUTHORITY: 470 **DATE:** December 14, 1970
CLASSIFICATION: Exploratory Wildcat
ELEVATION: GROUND: 2155' K.B. 2164' Est.
DRILLING CONTRACTOR: Kentuna Oilwell Drilling Rig No. 35 Rotary
WELLSITE GEOLOGIST: _____
SURFACE CASING: None Run
MOLE SIZE: 9-7/8" Surface to 361'
MUD SYSTEM: _____
CORES: _____
FORMATION TESTS: _____
ABANDONMENT PLUGS: No. 1: On Fish. 299' to 278' 14 sax
No. 2: 30' to Surface 21 sax
LOST CIRCULATION: _____
LOGS: _____
WELL SHUTDOW: December 31, 1971
FINISHED DRILLING: _____
RIG RELEASED: January 4, 1971
TOTAL DEPTH: 361'
STATUS: Lost Well Skidded Rig to "A" Location

Section 2
GEOLOGICAL

well. Horn River SR et al Cormack C 85A

James A. Lewis Engineering Co. Ltd.

Sample Description

Surf.-200	Sand - loose quartz, sub-rounded, clear to frosted, 70%, vari-colored 30%, scattered chips of Granite wash type sediments. Abundant granite wash - 10%, pink, orange and black at 40'. 80% clear to frosted quartz at 90'. Granite wash - 10%, pink, orange and black at 150' and 160', sample for 170' missing.
200 - 230	Gravel - vari-colored, some coarse chips of granite wash, loose quartz 60%. Gravel - 50% at 220' and 230'.
230 - 270	Sand - 70%, loose grains, white to frosted, 20% vari-colored sub-angular, 10% black. 80% clear loose quartz at 250', 260' and 270'.
270 - 340	Gravel - 50%, coarse granite wash chips, angular, 50% loose quartz. 8% loose quartz at 310'.
340 - 410	Sand - 60% loose quartz, 30% vari-colored granite wash chips, 10% gravel-coarse grain. 50% loose quartz at 360', some medium-coarse quartz grains, sub-angular at 390'.
410 - 420	Gravel - coarse granite wash chips and grains. Limestone 5%, tan to light brown, crypto-crystalline at 420'.
420 - 510	Sand - loose quartz, gravel - 20%. Granite wash grains, trace limestone - tan, crypto-crystalline. Scattered trace pyrite at 440'-450'. Trace shale - 5%, dark grey at 490' and 500'. Shale - 20% at 510'.
510 - 520	Gravel - granite wash, coarse grain, vari-colored.
520 - 540	Shale - 80%, dark grey. Gravel and loose quartz. Shale 50% at 540'.
540 - 610	Sand - 50% loose quartz. Gravel 30%, coarse grain. Shale - 20%, dark grey at 550'. Shale - 30% at 560'. Shale - 20% at 570'. Shale 40% at 580' and 590'. Shale - 30% at 600'. Shale - 20% at 610'.
610 - 730	Gravel - 50%, granite wash, shale - 40%, sand - 10%. Shale - 20% at 640' and 650'. Scattered trace of limestone chips, tan, crypto-crystalline at 650'. Shale - 20% at 650'-670'. Shale - 10% and loose quartz 20% at 680' and 690'. Shale - 30% at 700'. Shale - 20% at 710'. Scattered chips of limestone - tan, and granite wash - dark green at 720'. Some shale - 10%, and trace limestone - tan at 730'.
730 - 800	Sand - 60%, loose quartz, gravel, granite wash - 20%, shale - 20%. Dark grey at 740' and 750'. Scattered chips of limestone, tan at 780'. Shale - 30%, dark grey and trace of siltstone, medium grey at 800'.
800 - 820	Gravel - granite wash - 50%, medium to coarse chips. Shale - 30%, dark grey. Sand - 20%. Loose quartz at 810'. Shale - 10%, siltstone - 10%, gravel 60% at 820'.

- 820 - 840 Sand - 50%, loose quartz, gravel - 30%, granite wash, shale - 10%
Siltstone - 10%. At 830', gravel - 40%. Shale - 10% at 840'.
- 840 - 860 Gravel - 60%, granite wash, coarse chips. Shale - 30%, dark grey.
Sand - 10%. Loose quartz, trace siltstone at 850'.
- 860 - 920 No samples. Piloting ahead and none caught.
- 920 - 930 Siltstone - 40%, light-medium grey, scattered trace grains
glauconite included, grading to sandstone - 20%, light grey,
very fine grained, glauconitic. Shale - 10%, dark grey, silty.
Scattered coarse quartz grains and chips of granite wash. 30%
off-white to very light grey, medium-soft siltstone.
- 930 - 940 Siltstone, medium-dark grey, slightly glauconitic shaly - dark
grey, scattered quartz grains and granite wash fragments abundant,
20% light grey, medium grey siltstone.
- 940 - 970 Siltstone - 60%, light grey to off-white, very fine speckled,
medium soft, very slightly calcareous. Siltstone - 30%, light
medium grey. Shale - 10%, dark grey at 950'. Scattered quartz
grains and granite wash fragments 950'-970'.
- 970 - 1000 Siltstone - 60%, medium-dark grey, slightly glauconitic.
Siltstone - 30%, light grey, medium soft. Shale - 10%, dark
grey. Rare quartz grains at 990'.
- 1000 - 1060 Siltstone - 50%, light grey-medium grey. Sandstone - 40%, light
grey, slightly glauconitic. Shale - 10%. Siltstone - 70%,
sandstone - 20%, shale - 10% at 1040'.
- 1060 - 1110 Siltstone - 10%, dark grey, sandstone - 20%, light medium grey,
shale - 10%. Dark grey, siltstone - 60%, sandstone - 30%,
shale 10% at 1110'.
- 1110 - 1130 Sandstone - 60%, medium to light grey, very fine to fine grained,
slightly glauconitic in part. Siltstone - 40%, medium to dark
grey, trace shale, dark grey.
- 1130 - 1140 Siltstone - 70%, dark grey. Sandstone - 30%, light grey, very
fine grained, scattered trace shale, dark grey.
- 1140 - 1160 Siltstone - 60%, sandstone - 20%, shale - 20%. Siltstone - 50%,
sandstone - 30%, shale - 20% with scattered granite wash fragments
at 1160'.
- 1160 - 1210 Shale - 50% silty. Siltstone - 30%, medium-dark grey, sandstone
- 20%. Scattered granite wash fragments at 1200'. Shale - 70%,
siltstone - 20%, sandstone - 10% at 1210'.
- 1210 - 1250 Siltstone - dark grey 50%, shale - 40%, sandstone - 10%.
Siltstone - 70%, sandstone - 20%, medium-brown, burnt?, shale
- 10%, dark grey at 1220'.

- 1250 - 1270 Shale - 50%, siltstone - 40%, sandstone - 10%.
- 1270 - 1280 Siltstone - 60%, medium-dark grey. Sandstone - 30%, medium grey. Shale - 10%.
- 1280 - 1310 Sandstone - 70%, light-medium grey. Glauconitic siltstone - 20%. Shale - 10%.
- 1310 - 1370 Shale - 60%, dark grey. Sandstone - 30%. Glauconitic siltstone - 10%. Shale - 60%, sandstone - 20%, glauconitic siltstone - 10%, siltstone - 10%, off-white, medium soft at 1340'. Siltstone - 20%, off-white at 1350' and 1360'.
- 1370 - 1390 Sandstone - 70%, light brown, very fine to fine grained, glauconitic. Shale - 30%, dark grey. Trace siltstone, off-white, medium soft at 1380'.
- 1390 - 1580 Shale - 85%, dark grey. Clean, scattered sandstone - 10% light brown. Scattered siltstone - 5%, off-white at 1400'. Trace siltstone, off-white at 1430' and 1440'. Siltstone - 10%, dark brown at 1500'-1580'.
- 1580 - 1820 Shale - 90%, dark grey. Silty shale to siltstone - 10% at 1600'. Scattered trace sandstone - medium brown, very fine grained, glauconitic at 1610'. Trace siltstone - dark brown at 1720'. Trace shale - black, very finely speckled, bituminous at 1740'. Shale - 5%, black, very finely speckled, bituminous at 1750'. Rare trace plant fragments in black shale at 1760'. Scattered chips limestone, light grey, crypto-crystalline at 1770', 1780' and 1790'. Rare chips of plant remains in shale at 1800'. Scattered chips limestone at 1810' and 1820'.
- 1820 - 1900 Shale - 80%, dark grey. Clean limestone - 20%, light grey, crypto-crystalline. Limestone - 10% at 1840' and 1850'. Limestone - 20%, light tan to light grey, crypto-crystalline at 1860'. Limestone - 5% at 1870'. Limestone - 20% at 1880'. Trace limestone and siltstone in poor sample at 1890' and 1900'.
- 1900 - 2000 Shale - medium grey, some limestone and siltstone in poor sample at 1910' and 1920'. Limestone - 10% at 1930'. Some limestone - 5%, and siltstone - 10%, at 1950', 1960', 1980', 1990', and 2000'.
- 2000 - 2020 Shale - 90%, medium - dark grey. Siltstone - 10%, light grey, medium hard, calcareous. Scattered chips of limestone - light grey, crypto-crystalline. Some siltstone - off-white, medium soft at 2020'.
- 2020 - 2140 Shale - 100%, dark grey to grey black, trace medium grey. Trace siltstone - off-white, medium soft at 2070'. 2080' poor sample. Abundant siltstone, off-white, medium soft at 2090'. Some dope or grease in sample at 2125'.

- 2140 - 2250 Shale - 90%, medium to dark grey, some siltstone - 10%, med. grey at 2160', some siltstone - 20% at 2200', siltstone - 30%, light grey at 2220' - 2250'.
- 2250 - 2320 Limestone - 80%, tan to light brown, micro-crystalline, some crypto-crystalline at 2260'; Shale - 20%, trace limestone, med. brown, micro-crystalline and siltstone - dark brown at 2270'; Limestone 70%, 30% Shale at 2290', some siltstone - 10%, tan at 2310'.
- 2320 - 2350 Limestone - 80%, tan micro-crystalline, some light brown, micro-crystalline; Shale - 20%, medium-dark grey, limestone-70% at 2350'.
- 2350 - 2450 Shale - 90%, medium - dark grey, limestone - 10%, tan, micro-crystalline, scattered trace limestone at 2370', trace shale light green-grey at 2420' and 2430'.
- 2450 - 2500 Shale, medium grey, trace dark grey at 2460'; Shale - 10%, black at 2500'.
- 2500 - 2570 Shale, medium-dark grey, scattered trace limestone, tan to light grey, micro-crystalline, silty, grading to siltstone - 10%, light grey to off-white, calcareous at 2540'; Siltstone - calcareous 30% at 2550' and 2560' and 2570'.
- 2570 - 2600 Shale, medium to dark grey; Siltstone - 20%, light to medium grey, calcareous, scattered chips limestone, tan to light grey, micro-crystalline at 2580'; Siltstone - 10%, medium grey, calcareous and Shale - 10%, black at 2590', trace siltstone and shale - 10%, black at 2600'.
- 2600 - 2630 Shale - medium grey, trace light grey, trace siltstone, medium to brownish grey at 2610'; Siltstone - 10%, light grey, calcareous & trace shale, medium grey, with very fine black flecks as inclusions at 2620'; Siltstone - 10%, light grey to greenish grey, calcareous at 2630'.
- 2630 - 2690 Siltstone - 70%, medium grey to very light green grey, calcareous, Shale - 30% at 2640', trace limestone - light grey, fragmental in part, shell fragments and imprints, rare crinoid stem, rust color staining at 2650' and 2660'. Rare chips of siltstone with shell fragments at 2660' and 2670'. Siltstone - 60%, Shale - 40%, at 2680'.
- 2690 - 2830 Shale - 70%, medium grey to light greenish grey, clean, some shale - (10%), silty, medium grey; Siltstone - light grey to medium grey 20%; some siltstone - (5%), grey brown to light brown, calcareous, medium hard at 2740'; some limestone - (20%), tan to light brown, micro to fine crystalline, silty grading to siltstone and 80% shale at 2770', some siltstone - (5%), light brown, very calcareous at 2780', some limestone - (10%), light to medium brown, crypto to micro-crystalline, and trace siltstone - (5%), light brown, very calcareous at 2790'; 2800' poor sample, trip; trace limestone, tan to light brown, micro-crystalline at 2810'; Siltstone - 20%, light grey and light brown, calcareous, medium hard at 2820'; Siltstone - 30%, light grey, calcareous at 2830'.

- 2830 - 3010 Shale - 90%, medium grey to light greenish grey; Siltstone - 10%, medium grey; scattered chips limestone, light brown & siltstone, light brown at 2840'; Siltstone - 20%, medium grey, calcareous at 2850' and 2860'. Poor samples at 2870'; Siltstone - 5%, medium grey, Shale - 95% at 2880'-2890' & 2900'; Trace shale, medium brown at 2900'-3010'; Trace siltstone, medium brown, calcareous at 2970' and 2980'.
- 3020 - 3230 Shale - 90%, light greenish grey, some medium grey, Shale - 5%, medium brown; Siltstone - 5%, light green/grey at 3030' & 3040'; Shale - 10%, medium brown at 3060'; Shale - 20%, medium brown at 3070' and 3080'. Scattered trace siltstone - green/grey at 3090', 3100' & 3120'. Rare chips of limestone or calcite shell infilling, medium to coarse crystalline at 3140'. Rare chips limestone, light brown, crypto-crystalline, medium hard at 3150'. Scattered trace sandstone - white, very fine to fine grained, calcareous & scattered chips limestone & shattered chips of shell fragments and one crinoid stem at 3160'. Scattered chips of siltstone from 3170' to 3200'; Trace sandstone - light brown, very fine to fine grained, calcareous, light, at 3210'-3230'.
- 3230 - 3290 Shale, medium grey, some light green/grey; Scattered trace of silty shale & siltstone, medium grey, at 3240'; scattered chips limestone, medium brown, fragmental, with shell fragments and imprints rare. Scattered siltstone, medium grey at 3280'. Sample burnt but some sandstone, very fine to fine grained, calcareous, and some siltstone, at 3290'.
- 3290 - 3320 Limestone - 60%, white, chalky & crypto-crystalline, some tan to light grey, crypto-crystalline; Shale - 40%, medium grey at 3300'. Trace limestone - tan, crypto-crystalline to micro-crystalline at 3320'; Rare chip fossil fragments at 3320'.
- 3320 - 3330 Limestone - 70%, white to light grey, chalky to crypto-crystalline, some limestone, tan to light brown, crypto to micro-crystalline at 3330'.
- 3330 - 3340 Limestone, off-white to light tan, crypto-crystalline, trace micro-crystalline, some chalky; Shale cavings 20% at 3340'.
- 3340 - 3360 Limestone, white, crypto to micro-crystalline, some chalky; Some limestone, light tan, crypto to micro-crystalline; Shale 10% cavings.
- 3360 - 3390 Limestone, off-white to light tan, crypto to micro-crystalline, some chalky white limestone; Shale - 30% cavings, limestone 20%, light tan to light brown, crypto to micro-crystalline, at 3380'.
- 3390 - 3400 Limestone, tan to light brown, crypto to coarse crystalline in parts, some limestone, off-white, chalky; Shale - 20%, cavings, at 3400'.
- 3400 - 3430 Limestone, light brown, micro to medium crystalline, trace coarse crystalline; Limestone - 10%, off-white, chalky. Shale - 20%, cavings, at 3410'; Rare chips limestone - off-white, fine to med. crystalline, traces of earthy to inter-crystalline porosity, poor to fair at 3430'.

3430 - 3440 Limestone, white to off-white, some light tan, micro to medium crystalline, scattered coarse crystalline, some chalky, (20%). Scattered chips with poor to fair inter-crystalline porosity at 3440'.

3440 - 3450 Limestone, tan, micro-crystalline, some off-white, micro to coarse crystalline, and scattered white chalky.

Core No. 1 3450 - 3503'. Recovered 25'. Barrel Jammed.

3450 - 3478 Not recovered. Probably chalky limestone, ground up and washed away.

3478 - 3487 Limestone, light to medium grey, crypto to micro-crystalline, very hard, some scattered calcite crystals, and rare fossil shells, numerous stylolites, some fractures and stylolites at 3479' and 3484'. Very abundant stylolites and fossils from 3484 - 3487'.

3487 - 3503 Limestone, light-medium brown, medium to coarse crystalline, hard, some very coarse calcite, abundant stylolites, some inclined at 10° to 20°, scattered fractures from 3493' to 3503'. Eight sections where core has been fractured and been milled up in barrel, scattered very thin shaley partings throughout.

Coring Times 3450' - 15, 11, 9, 12, 9, 10, 10, 11, 8, 7
3460' - 8, 7, 7, 9, 10, 9, 6, 11, 10, 11
3470' - 10, 9, 9, 10, 10, 9, 8, 9, 8, 8
3480' - 7, 9, 10, 10, 9, 8, 5, 10, 8, 5
3490' - 7, 9, 8, 8, 10, 9, 6, 9, 6, 7
3500' - 7, 10, 10, 17, Jammed barrel.

3503 - 3520 Shale, poor sample. Cavings after coring and reaming and fishing for collars.

3520 - 3550 Limestone, tan to light brown, micro to medium crystalline, some chalky and light tan; Shale - 30%, cavings. Scattered traces of fossil fragments and imprints at 3540' and 3550'.

3550 - 3580 Shale - large chips, cavings, some large chips of limestone and siltstone from uphole at 3570'. Scattered chips of limestone, light-medium brown, micro-crystalline to chalky, with rare trace of very poor pin-point porosity at 3580'.

3580 - 3590 Limestone, tan to light brown, micro-crystalline to fine crystalline, some off-white to tan, chalky, Shale - 30%, cavings, at 3590'.

3590 - 3650 Limestone, light-medium brown, micro to fine crystalline; Shale 20%, cavings, at 3600'. Some shale, medium to dark brown, 10% at 3610' and 3620'; Some shale - 10%, medium grey at 3620'. Shale 20%, cavings, at 3630'. Shale 60%, cavings, at 3640' and 3650'.

3650 Shale, medium grey, scattered brown. Limestone 30%, cavings, at 3660'. Limestone 20% at 3670'. Limestone 10% at 3680', scattered trace limestone at 3700' (cavings), trace limestone at 3710'.

Finished logging at 6 a.m. January 28, 1971. TD (Driller 3703'), (Logger 3699')

Section 3
DRILLING AND ENGINEERING

Horn River S R et al Cormack C-65A

SUMMARY OF DAILY DRILLING REPORTS

Date	Depth	Operations
1-4-71	0'	Skidding rig from C-65 to C-65A. 14' north of C-65. C-65 abandoned when 3 drill collars lost in surface hole boulders. Could not fish. Total depth reached 301'. Plugged in two stages. Plug No. 1: 208' - 278', 14 sack cement. Plug No. 2: 30' Surface, 21 sack cement.
1-5-71	131'	Drilling 9 7/8" surface hole. Mud wt. 9.2 Vis. 84. Spudded well 7:00 p.m. January 4, 1971.
1-6-71	413'	Drilling 9 7/8" surface hole. Mud wt. 8.4 Vis. 110.
1-7-71	846'	Drilling 9 7/8" surface hole. Mud wt. 10.4 Vis. 105.
1-8-71	885'	Waiting on cement and nipples up. Ran 17 joints 7" 23 lb. "used" casing w/FC and Guide Shoe 698. 18' overkill. Landed @ 695' K.B. Cemented with 250 sack neat Portland cement + 3% CaCl ₂ . Good returns. Plug down at 9:45 p.m. January 7, 1971.
1-9-71	1280'	Drilling 6 1/4" hole. Headed up and tested Blind rams, pipe rams and Hydril to 1,000 psi, each for 15 minutes.
1-10-71	2001'	Drilling 6 1/4" hole. Mud wt. 8.7 Vis. 20. Surveys - 1930' - 2 1/2", at 2001' - 2 1/4". Holding back to realign hole.
1-11-71	2032'	Wait on repairs.
1-12-71	2032'	Wait on repairs.
1-13-71	2122'	Drilling 6 1/4" hole. Survey 2109' - 4 1/4".
1-14-71	2469'	Drilling 6 1/4" hole. Survey @ 2363' - 2 3/4".
1-15-71	2600'	Drilling 6 1/4" hole.
1-16-71	2755'	Drilling 6 1/4" hole. Mud wt. 9.0 Vis. 46.
1-17-71	2873'	Drilling 6 1/4" hole. Survey 2842' - 7".
1-18-71	3002'	Drilling 6 1/4" hole. Survey 2998' - 6 1/2". Mud wt. 9.5 Vis. 50.

SUMMARY OF DAILY DRILLING REPORTS (Continued)

Horn River S R et al Cormack C-65A

Date	Depth	Operations
1-19-71	3090'	Drilling 6-1/4" hole. Survey 3090' - 7°. Mud wt. 9.5 Vis. 53.
1-20-71	3285'	Drilling 6-1/4" hole. Survey 3285' - 7-1/2°. Mud wt. 9.1 Vis. 55.
1-21-71	3450'	Trip out for core barrel survey 3450' - 10°. Mud wt. 9.2 Vis. 58.
1-22-71	3504'	Pulling Core No. 1. Mud wt. 9.3 Vis. 80.
1-23-71	3504'	Working stuck drill pipe.
1-24-71	3504'	Working stuck drill pipe.
1-25-71	3504'	Backed-off and hoisting free pipe. Backed-off above drill collars.
1-26-71	3504'	Pulling remaining pipe.
1-27-71	3656'	Drilling 6-1/4" hole. Mud wt. 9.2 Vis. 77.
1-28-71	3710'	Preparing Drill Stem Test No. 1. Ran IES Log and BHCSGRC Log.
1-29-71	3710'	Circulating and conditioning hole to Run DST No. 2. Ran DST No. 1: 3310' - 3710'. Weak pull, recovered 120' mud.
1-30-71	3710'	Plugging well. Ran DST No. 2: 3305' - 3710'. Good air blow through- out test. No gas to surface. Recovered 140' Drilling mud. Ran Plug No. 1: 3710' - 3240', 75 sac + 4% Gel.
1-31-71	3710'	T.D. Abandoned Ran Plug No. 2: 735' to Surface, 130 sac + 4% Gel Rig Released 6:00 p.m. January 30, 1971

DRILL STEM TEST REPORT

WELL: Horn River SR at Cormack C 65A

DATE: JANUARY 28, 1971 TEST NO. 1
 INTERVAL TESTED: 3310' - 3710' FORMATION: Jean Marie
 TOTAL DEPTH DRILLER: 3710' LOGS: IES, BHCSGRC
 HOLE SIZE: 6 1/4" NAT HOLE SIZE: 6 1/4"
 TESTING COMPANY: Lynas United OPERATOR: G. Lewchuk

MUD	DRILL PIPE	TEST TOOL
Type <u>Gel Chem</u>	Type <u>IF</u>	Size Rubber <u>6 1/2"</u>
Wt. <u>9.2</u>	Size <u>3 1/2"</u>	Type
Visc. <u>87</u>	Size T.J. <u>4 3/4"</u>	Tool Type
	Custom <u>3 1/2"</u>	Size Choke <u>3/4"</u>
pH	Joint	Wt. to Bit
F.C. <u>2/32</u>	Safety Joint	Pull Loose
Conditions <u>Good</u>	Pump/Out Sub	Fluid Cushion

Bit off Bottom <u>4:00 p.m. 1-27-71</u>	PreFlow <u>7</u> min.	B.H. Temp <u>121</u> °F
Start Tester in <u>10:15 a.m. 1-28-71</u>	I.S.I. <u>84</u> min	Gauge Depth <u>3335</u> K.B.
Tester on Bottom <u>1:45 p.m. 1-28-71</u>	Tool Open <u>63</u> min	<u>3340</u> K.B.
Tool Open <u>2:18 p.m. 1-28-71</u>	F.S.I. <u>120</u> min	
Tool Closed <u>2:25 p.m. 1-28-71</u>	Upper Gauge	Lower Gauge
Tool Open <u>3:49 p.m. 1-28-71</u>	I.H.S. <u>1616</u> psig	I.H.S. <u>1023</u> psig
Tool Closed <u>4:52 p.m. 1-28-71</u>	PreFlow <u>1022</u> psig	PreFlow <u>1027</u> psig
Tool Loose <u>7:00 p.m. 1-28-71</u>	I.S.I. <u>1209</u> psig	I.S.I. <u>1212</u> psig
Tool Out <u>9:30 p.m. 1-28-71</u>	Initial Flow <u>1216</u> psig	Initial Flow <u>1214</u> psig
Rubber Condition <u>Good</u>	Final Flow <u>1219</u> psig	Final Flow <u>1218</u> psig
Tool O.K. <u>Mis Run</u>	Final S.I. <u>1224</u> psig	Final S.I. <u>1220</u> psig
	F.H.S. <u>1609</u> psig	F.H.S. <u>1616</u> psig

BLOW: Mis Run Tool Picked

RECOVERY: 120' Mud

DRILL STEM TEST REPORT

WELL: Horn River SR et al Cornwell C. 65A

DATE: JANUARY 29, 1971 TEST NO: 2
 INTERVAL TESTED: 3306-3710' FORMATION: Lean Alach
 TOTAL DEPTH DRILLER: 3710' LOGS: IES. BHCSQRC
 HOLE SIZE: 6 1/4" RAT HOLE SIZE: 6 1/4"
 TESTING COMPANY: Lynne United OPERATOR: G. Lenchuk

MUD	DRILL PIPE	TEST TOOL
Type <u>Gel Chem</u>	Type <u>IF</u>	Size Rubber <u>5 1/2"</u>
Wt <u>9.2</u>	Size <u>3 1/2</u>	Type
Visc <u>87</u>	Size T.J. <u>4 3/4"</u>	Tool Type
W.L.	Collars <u>3 1/2" IF</u>	Size Choke <u>3/4"</u>
PH	Jars	Wt to Set
P.C.	Safety Joint	Pull Load
Conditions	Pumpout Sub	Fluid Cushion

Bit off Bottom <u>8:15 a.m. 1-29-71</u>	Preflow <u>8</u> min	B.H. Temp. <u>120</u> °F
Start Tester in <u>12:45 p.m.</u>	I.S.I. <u>60</u> min	Gauge Depth <u>3336</u> K.B.
Tester on Bottom <u>2:15 p.m.</u>	Test Open <u>60</u> min	<u>3340</u> K.B.
Test Open <u>2:47 p.m.</u>	F.S.I. <u>120</u> min	
Test Closed <u>2:55 p.m.</u>	Upper Gauge	Lower Gauge
Test Open <u>3:55 p.m.</u>	I.H.S. <u>1653</u> pag	I.H.S. <u>1653</u> pag
Test Closed <u>4:55 p.m.</u>	Preflow <u>74</u> pag	Preflow <u>74</u> pag
Test Loss <u>7:45 p.m.</u>	I.S.I. <u>1037</u> pag	I.S.I. <u>1041</u> pag
Test Out <u>9:45 p.m.</u>	Initial Flow <u>76</u> pag	Initial Flow <u>81</u> pag
Rubber Condition	Final Flow <u>91</u> pag	Final Flow <u>95</u> pag
Test O.K. <u>Yes</u>	Final S.I. <u>1022</u> pag	Final S.I. <u>1027</u> pag
	F.H.S. <u>1643</u> pag	F.H.S. <u>1645</u> pag

BLOW: Good initial puff. Steady strong air blow throughout test.

RECOVERY: 140' Drilling Mud

SURFACE CASING REPORT

Horn River SR at al Cormack C-63A

Size: 7"

Weight: 23 lb./ft.

Grade: J 55 Used

Amount: 698.18' plus Guide Shoe and Float Collar

Landed At: 686.0' K.B.

Cemented With: 250 sack Neat Portland Cement + 3% CaCl_2

Circulated: Good Returns

Plug Down: 9:45 p.m., January 7, 1971

BIT RECORD

Well Horn River SR at Cormack C 85A

BIT NO.	SIZE & TYPE	DEPTH OF Feet	FOOTAGE Feet	HOURS	WEIGHT, M Pounds	R.P.M.	CONDITION
1A	9-7/8 DT J	240	240	15%	10	100	5-3-1
2A	9-7/8 DT J	302	152	5%	20	90	
3A	9-7/8 YTA	447	55	4	20	100	Locked
4A	9-7/8 DT	530	83	4	20	100	5-3-1
5A	9-7/8 DST	630	100	3%	20	100	3-1-1
6A	6-1/4 OSC	840	216	9%	20	150	
MAIN HOLE							
1	6-1/4 OSC	1321	475	11	25	120	0-2-1
2	6-1/4 OSC	2001	680	12%	25	100	
3	6-1/4 YTA	2200	201	12%			3-4-1
4	6-1/4 YTA	2489	303	17	18	150	5-2-1
5	6-1/4 YSI	2718	229	17%	20	100	5-6-1
6	6-1/4 OWV	2795	77	7	6	150	4-6-1
7	6-1/4 OSC	2930	135	13%	8	150	4-6-1
8	6-1/4 SJJ	3090	160	16%	12	150	2-4-1
9	6-1/4 V-2-J	3285	195	16%	15	150	6-7-1
10	6-1/4 V-2-J	3450	165	13%	10	150	

SUMMARY

Surface Hole 885' of 9-7/8 " 32-1/2 hours on bottom.
 Main Hole 3025 of 6-1/4 " 155-1/2 hours on bottom.
 Core Hole 50 of 6-1/8 " 9-1/2 hours on bottom.

James A. Lewis Engineering Co. Ltd

WELL SH of al COUNCIL C-55A

NOTES

~~Allyer S11 of 11 Countach C-05A~~

SUMMARY

Location	Depth	Time	Notes
Surface Hole	01	14	hours on bottom
Main Hole	01	14	hours on bottom
Core Hole	01	14	hours on bottom

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SURVEY RECORD

Horn River SR et al Cormack C 65A

Depth, Feet	Deviation, Degrees
Surface Hole	
90	7/8
130	1
410	3/4
500	3/4
623	3/4
Main Hole	
1045	1/4
1301	1/2
1600	1/2
1939	2 1/2
2001	2 1/2
2109	4 1/4
2200	4 1/4
2469	2 3/4
2490	2 3/4
2728	
2980	7
2811	M.R.
2842	7
2873	7
2930	6 1/2
2998	6 1/2
3059	6 1/2
3090	7
3215	6 7/8
3245	7
3285	7 1/2
3335	6 1/4
3400	6
3450	10

ABANDONMENT REPORT

WELL: Horn River SB et al Cormack C 65A

DATE: January 30, 1971

APPROVAL TO ABANDON BY: J. Milligan Scurry, Rainbow, G. Blue, D.I.A. and N.D.

REPORTED TO ADOGB/DNR/MS

CONTRACTOR: Kentlon Oilwell Drilling Ltd.

HOLE SIZE: 6 1/4"

MUD WEIGHT AND VISCOSITY: 9.2 lbs./gal. 77 sec./QUM 1

AMBIENT TEMPERATURE: 22°F

DRILL PIPE: 3 1/2" I.F.

RAT HOLE PLUGGED WITH: N/A

MOUSE HOLE PLUGGED WITH: N/A

PLUG NO. 1

INTERVAL: 3710' - 3240' SACKS USED: 75 + 45 Gals

ZONES COVERED: Jean Marie, Tatcho, Fort Simpson

CALIPER SIZE: 6 1/4"

SLURRY VOLUME: 98 CUBIC FEET

SACKS REQUIRED: 71

EXCESS: SACKS 4

TOTAL:

START MIX:

END MIX

DISPLACEMENT

PLUG DOWN: 4:15 a.m. January 30, 1971

W.O.C. HOUR 11

FELT AT: Not Felt K.B. WITH POUNDS

ABANDONMENT REPORT (Continued)

WELL: Horn River SR et al Cormack C-85A

PLUG NO. 2

INTERVAL: 735' to Surface SACKS USED: 130

ZONES COVERED: Surface Casing

CALIPER SIZE: 6 1/4"

SLURRY VOLUME: 150 CUBIC FEET

SACKS REQUIRED: 115

EXCESS: 13 15 SACKS

TOTAL

START MIX:

END MIX:

DISPLACEMENT:

PLUG DOWN: 12:00 noon, January 30, 1971

W.O.C. _____ HOURS

FELT AT: Not Felt K.B. WITH _____ POUNDS

PLUG NO. 3

INTERVAL: _____ SACKS USED: _____

ZONES COVERED: _____

CALIPER SIZE: _____

SLURRY VOLUME: _____ CUBIC FEET

SACKS REQUIRED: _____

EXCESS: _____ SACKS

TOTAL

START MIX: _____

END MIX: _____

DISPLACEMENT: _____

PLUG DOWN: _____

W.O.C. _____ HOURS

FELT AT: _____ K.B. WITH _____ POUNDS

Section 4

WELL LOG DATA

Horn River BR et al Cormack C-65A

Log	Scale	Interval
January 28, 1971		
Induction Electrical	2" & 6"/100'	3697'-684'
BHCSQRC	2" & 6"/100'	3697'-684'

Driller T.D. 3710'
Schlumberger T.D. 3699'

Section 4

WELL LOG DATA

Horn River SR et al Cormack C.65A

Log	Scale	Interval
January 28, 1971		
Induction Electrical	2" & 5"/100'	3697' 084'
DHCSGRC	2" & 5"/100'	3697' 084'

Driller T.D. 3710'
Schlumberger T.D. 3699'

WILEY-Blackwell

Vertical Oil Well Drilling

5 - above address

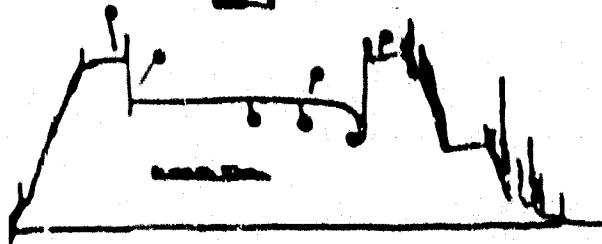
MUD AND MUD DATA		
Mud Type	Gel	
Weight	9.2	Viscosity 87 Water Loss
Filter Cake	2/32"	Bottom Hole Temperature 121°
Drill Pipe Size	3 1/2" IF	Weight 13.30
Drill Collars	3 1/2" IF ID 1 7/8" Foot Res	530
Main Hole or Casing Size	6 1/4"	
Surface or Line Size		No. of Pcs
Bottom Hole Choke Size	3/4"	
Surface Choke Size	1"	
Anchor Rubber Size	5 1/2"	

REMARKS	Tool plugged.
---------	---------------

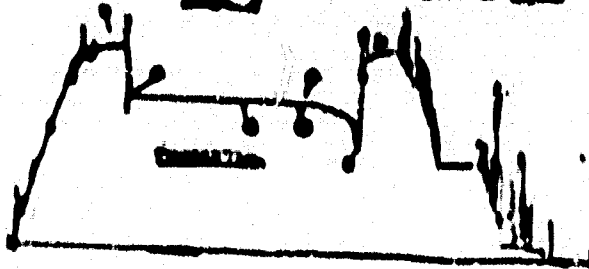
500 541 1220 270
Horn River SR et al Corneek C-65-A
Walt Hanes and Associates

January 28/71
Date of Test

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LYNES UNITED SERVICES LTD.

TEST DATA				GENERAL INFORMATION			
Formation	Test No.	Layer Test		Company	Kenting Oilwell Drilling		
Interval Tested	3335	10	3710	Address			
Foot of Hole Per Tested	402						
Type of Test	Dual Bottom Hole Conventional			Well Name	Horn River SR at al Cormack		
Cushion	Nil	Amper		Well Number	C-65-A- 60' 54' 122' 27'		
Started in Hole at	11:50	Time	Tool Open at 2:47	KB (Elevation)	2164		
Pre Flow	8	Min	Initial Shutin 60	Area	Cormack Lake Province N.T.		
2nd Flow		Min	Second Shutin	Company Rep	D. Kirkpatrick		
Final Flow	60	Min	Final Shutin 120	Tester	G. Lewchuk		
Remarks:				Contractor	Kenting Drilling		
				Tablet No	2014	Date	January 29/71
				Service Report To	5 - above address		
Notes: Tool opened with good initial pull. Good air blow steady throughout the test.							

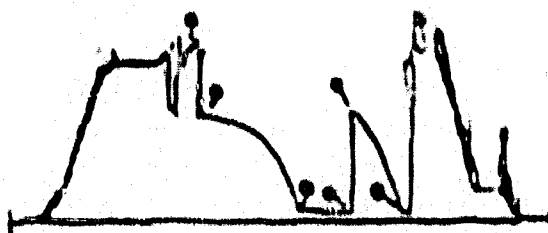
GAS FLOW MEASUREMENTS				MUD AND HOLE DATA			
Measured with				Mud Type	Gel		
				Weight	9.2	Viscosity	95
				Filter Cake	2/32"	Bottom Hole Temperature	120°
				Drill Pipe Size	3 1/2" IF	Weight	13.30
				Drill Collars	3 1/2" IF I.D. 1 7/8"	Foot Run	530
				Mud Hole or Casing Size	6 1/4"		
				Bottom Hole Choke Size	3/4"		
				Surface Choke Size			
				Drill Bit Size	5 1/2"		
				REMARKS	Shut-in pressures suggest very low permeability within the interval tested.		

RECOVERY	
TOTAL FLUID RECOVERED	140
140	ft. of drilling mud
ft. of	
ft. of	
ft. of	
Test was/ was not become Circulated	
Oil Recovery API	Water Specific Gravity
Calidity	

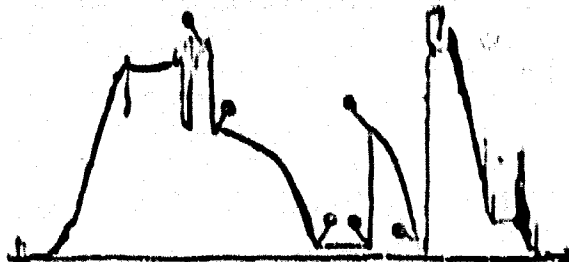
PRESSURE READINGS			
Inside	Outside	Inside	Outside
Recorder No.	956	Recorder No.	1097
Capacity	5000	Capacity	4000
Depth	3335	Depth	3340
NUMBER KEY:			
1 - INITIAL HYDROSTATIC	1653		
2 - PRE FLOW	74		
3 - INITIAL SHUTIN	1037		
4a - 1st INITIAL FLOW			
4b - 2nd INITIAL FLOW			
4c - 3rd INITIAL FLOW	76		
5 - 1st INITIAL FLOW	91		
6 - FINAL FLOW	1022		
7 - FINAL SHUTIN	1643		
8 - FINAL HYDROSTATIC			

Kenting Oilwell Drilling
 Horn River SR at al Cormack C-65-A
 60' 54' 13.00 122' 27' 21.00
 29 JAN 1971
 Date of Test

100' 100' 100' 100' 100' 100' 100' 100' 100' 100'
 100' 100' 100' 100' 100' 100' 100' 100' 100' 100'
 100'



100' 100' 100' 100' 100' 100' 100' 100' 100' 100'
 100' 100' 100' 100' 100' 100' 100' 100' 100' 100'
 100'

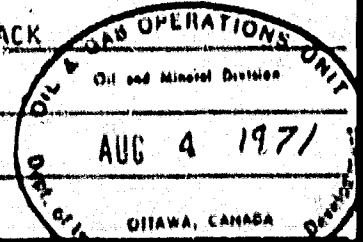


Schlumberger

INDUCTION ELECTRICAL LOG

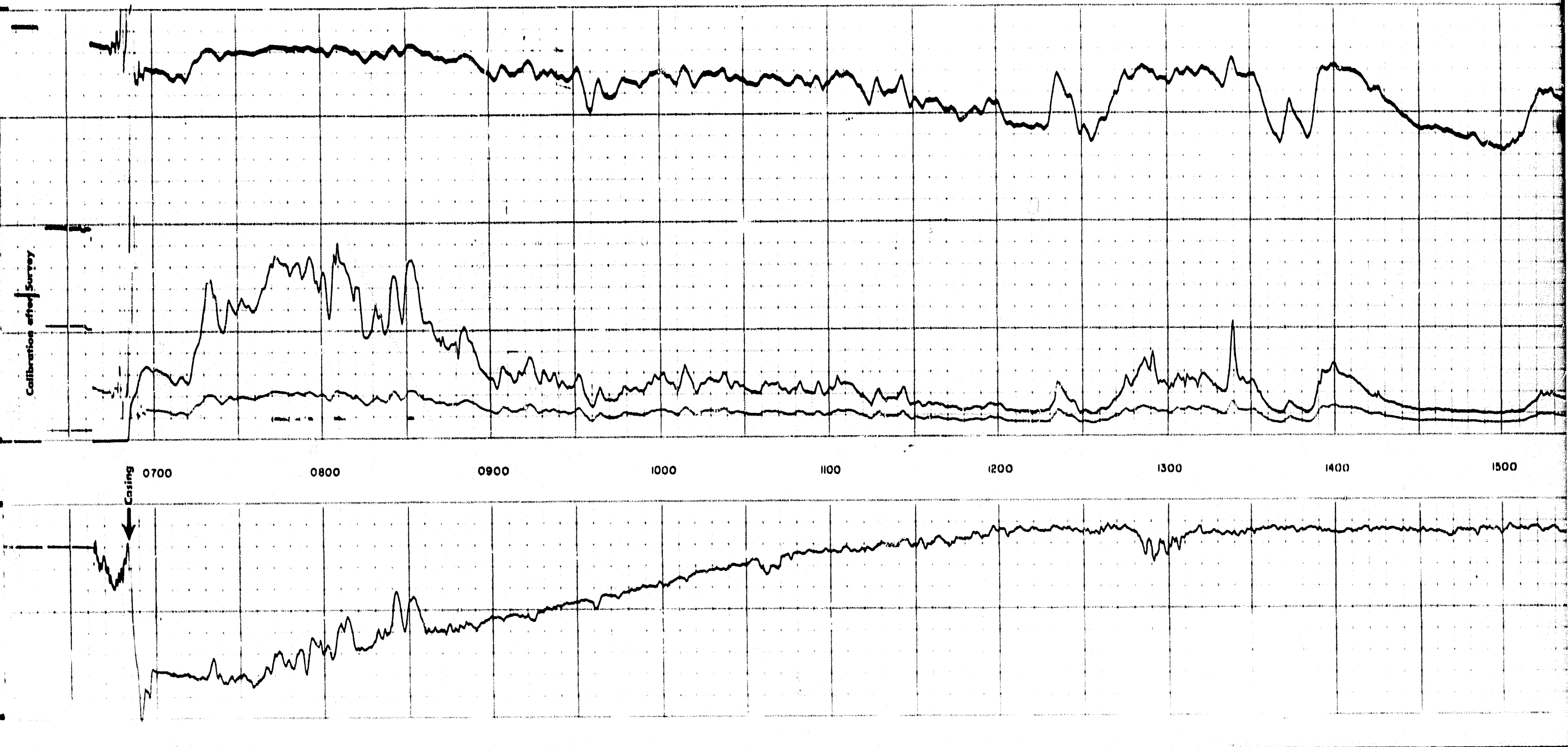
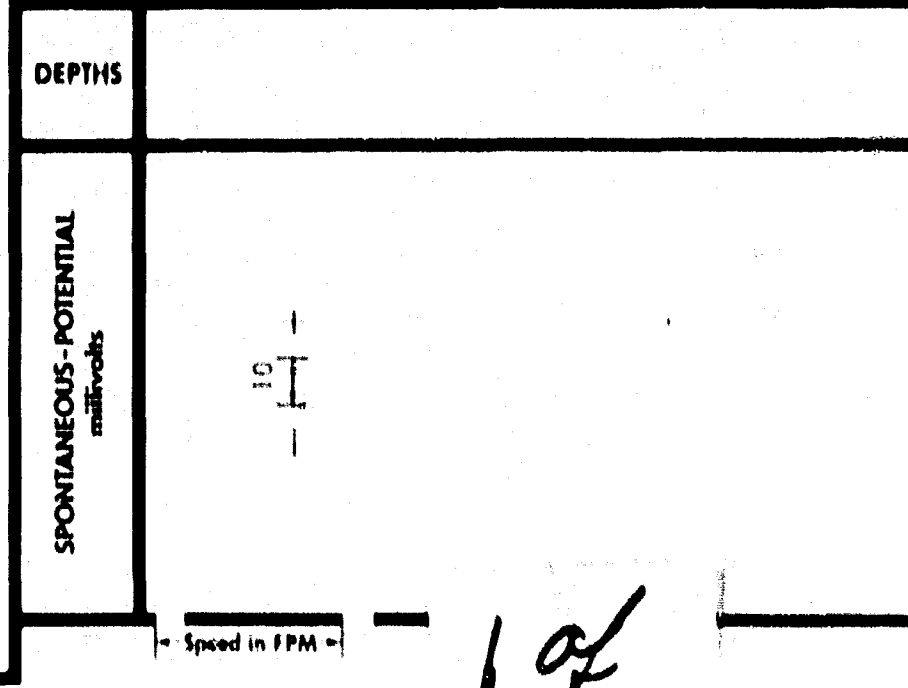
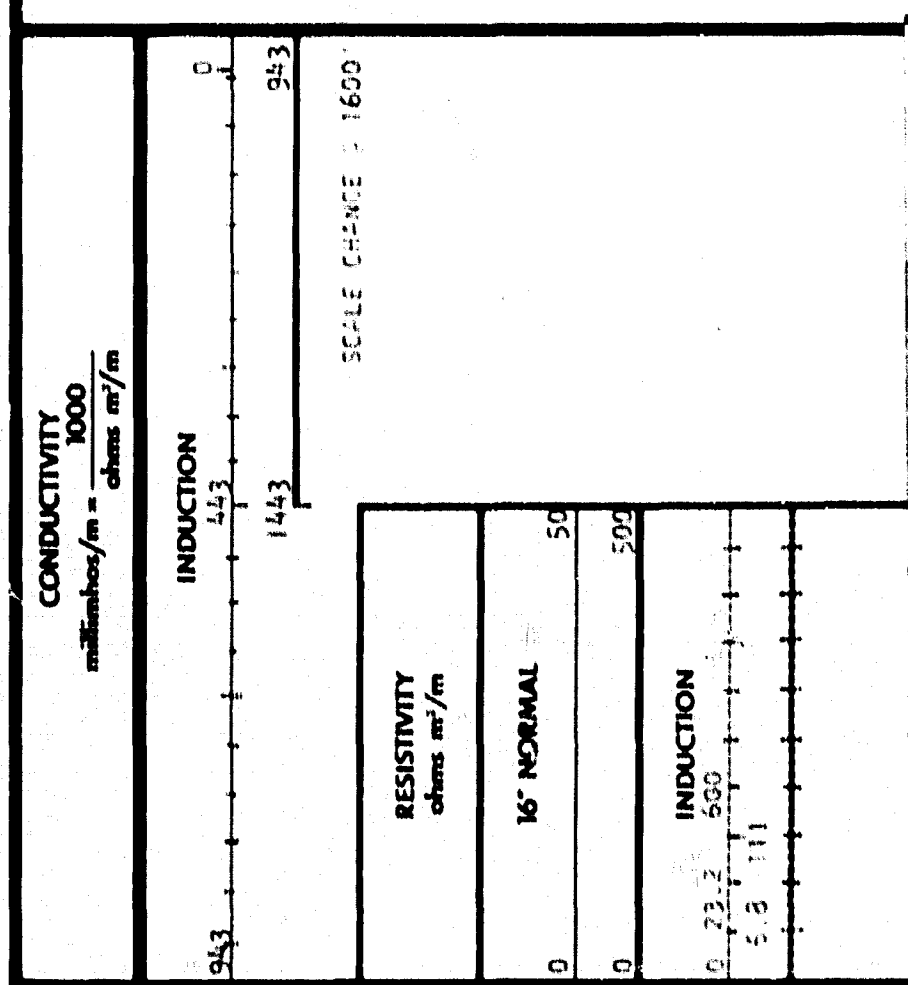
PROVINCE NORTHWEST TERRITORIES
FIELD WILDCAT
WELL HORN RIVER SR ET AL
CORACK C-65A
COMPANY HORN RIVER RESOURCES LTD.

COMPANY HORN RIVER RESOURCES LTD.
WELL HORN RIVER SR ET AL CORACK
C-65A
FIELD WILDCAT
PROVINCE NORTHWEST TERRITORIES
LOCATION 60° 54' 13" N LAT
122° 27' 21" W LONG
Permanent Datum GL Elev. 2155
Log Measured From KB 9 Ft. Above Perm. Datum
Elev. KB 2164
CL 2155
CB 2155

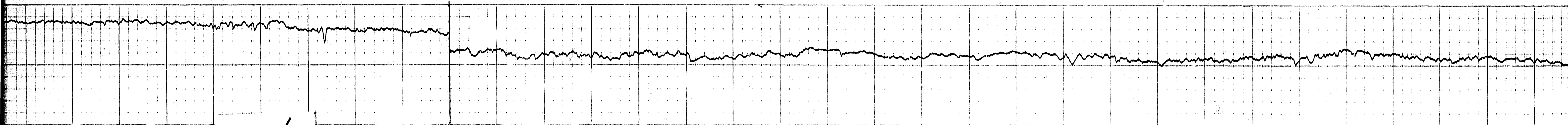
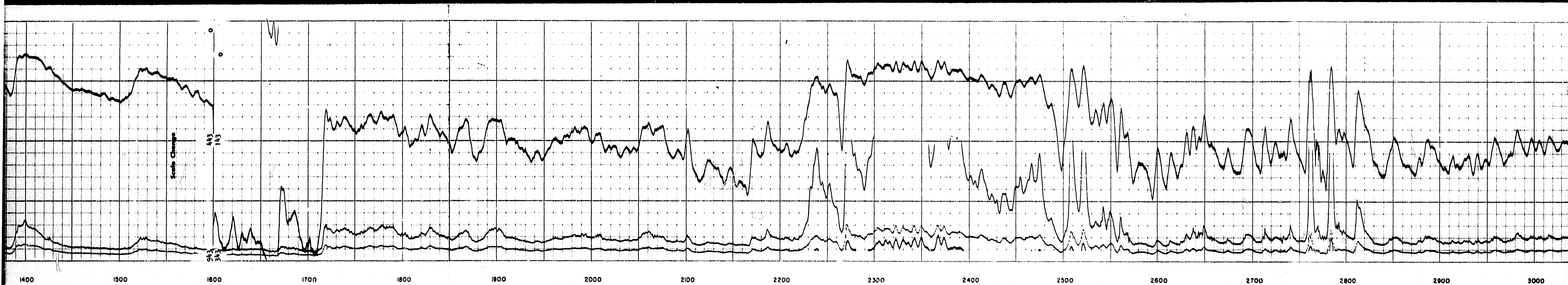


Date	27 JAN 71
Run No	ONE
First Reading	3697
Last Reading	684
Foot Measured	3013
Depth Reached	3698
Bottom Driller	3710
Csg. SOC	684
Csg. Driller	686
Mud Nature	GEL
Dens. Visc.	9.2 177
Mud pH	
Water Loss	
Ret.	2.35 63
BHT	1.22 120
Rnd.	
Risk	
BH Size	6 1/4"
Spacing - AM	16'
MN	34'-6'
Ind. Type	6FF40
Opt. Rig Time	3 HRS
Truck No	5697 EDM
Recorded By	HUTZAL
Witness	GALAWAY

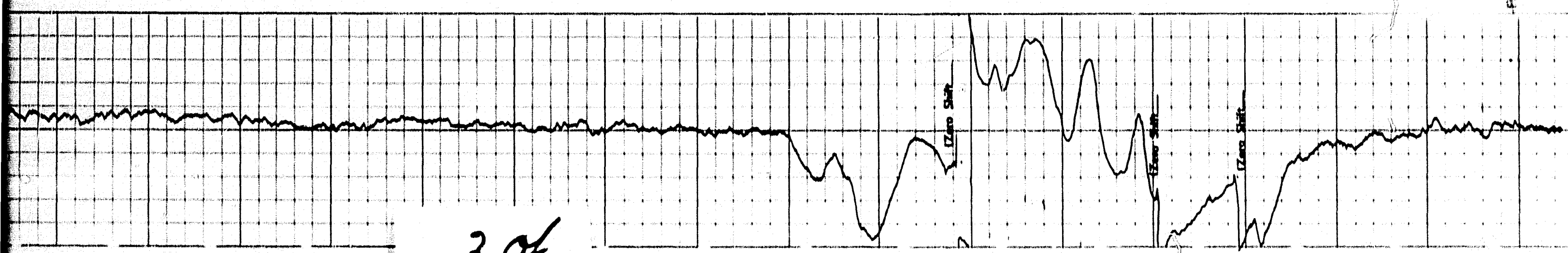
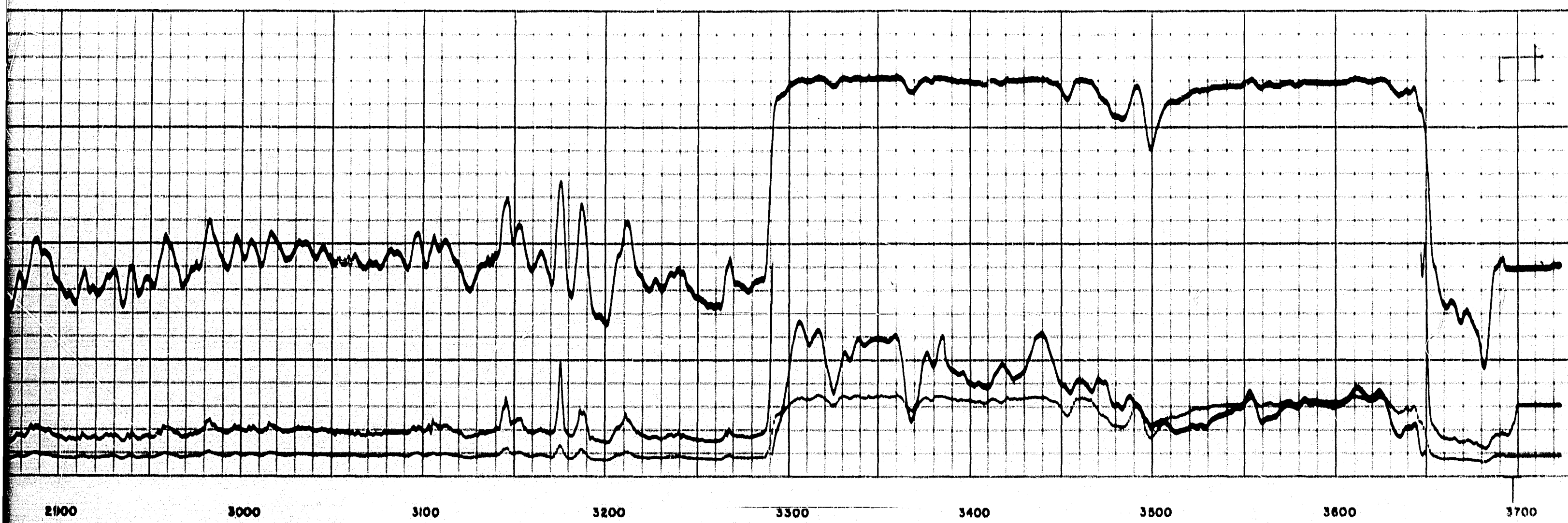
LOG ORIGINALLY RECORDED WITH FOLLOWING CONDUCTIVITY SCALES:
DEPTHS 700 TO 1600 FEET: 0 - 500 - 1000 mhos
1600 TO 3698 FEET: 0 - 200 - 400 mhos
TO GET CORRECT INDUCTION VALUE, USE CORRECTED INDUCTION
SCALE OR READ CONDUCTIVITY UTILIZING ABOVE SCALES. SUBTRACT
57 MILLI-MHOS AND CONVERT TO RESISTIVITY.
EXAMPLE: 43 3409
CONDUCTIVITY VALUE (ORIGINAL SCALE) 117 mho
CORRECTED CONDUCTIVITY 117 - 57 = 60 mhos
CORRECTED INDUCTION = 1000 = 16.7 ohm-m
60



Speed in FPM
1 of



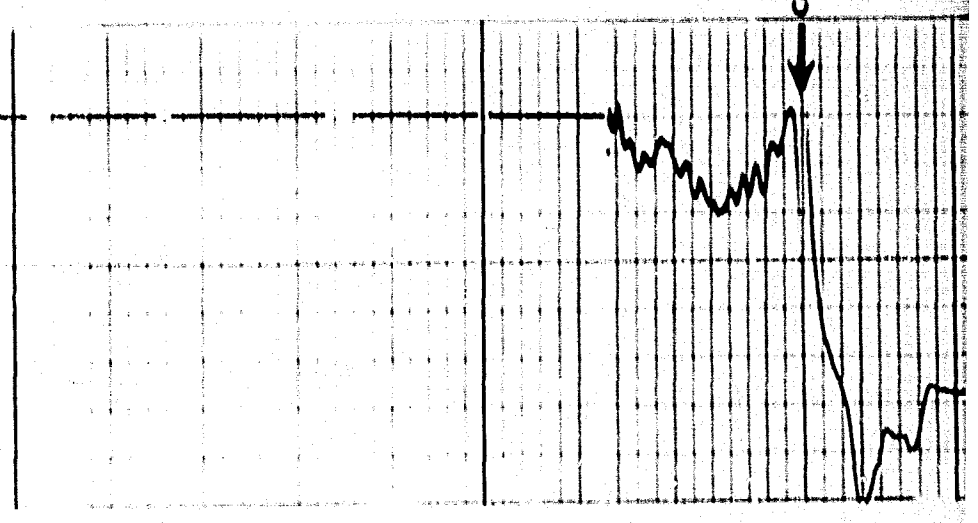
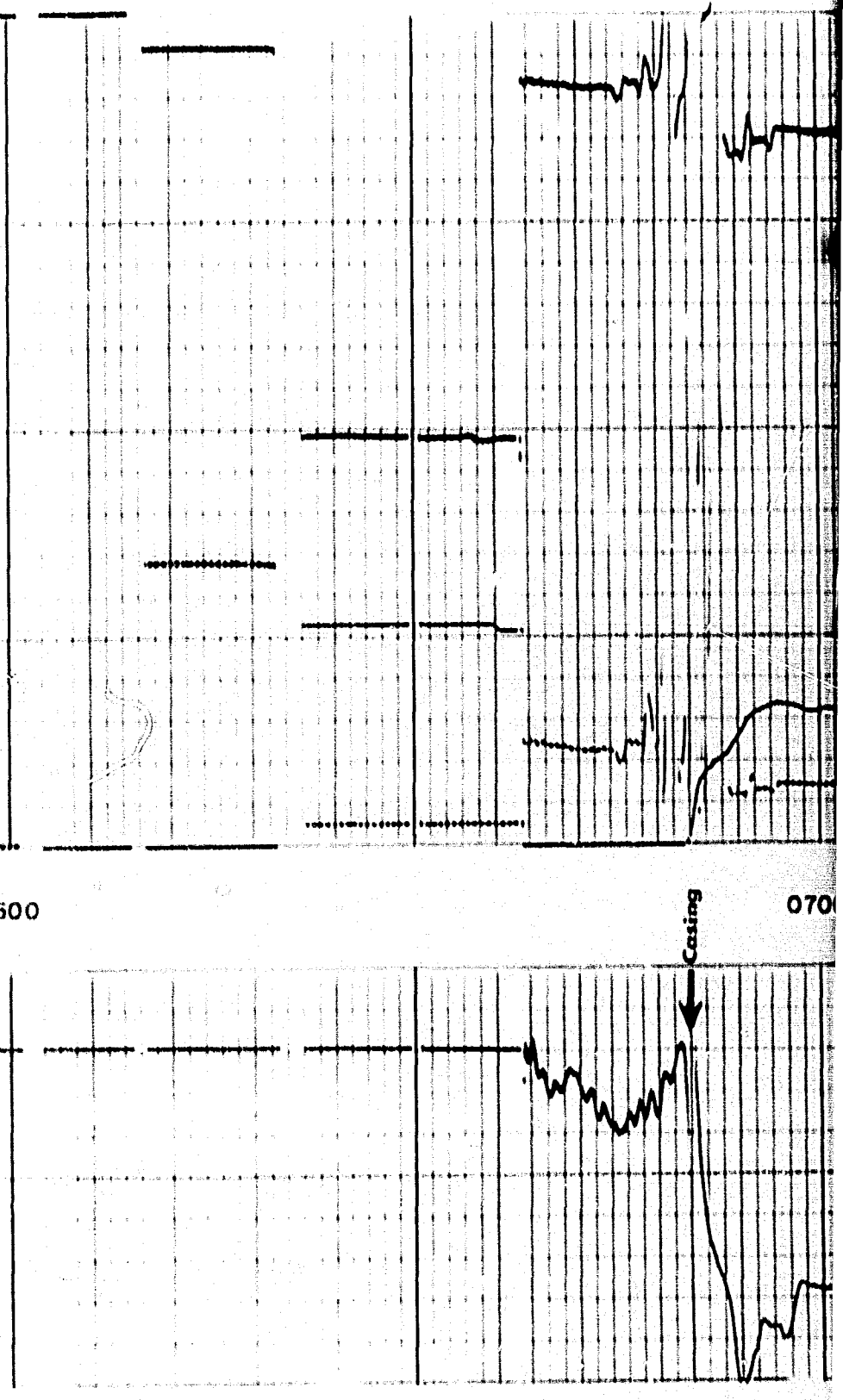
2 of

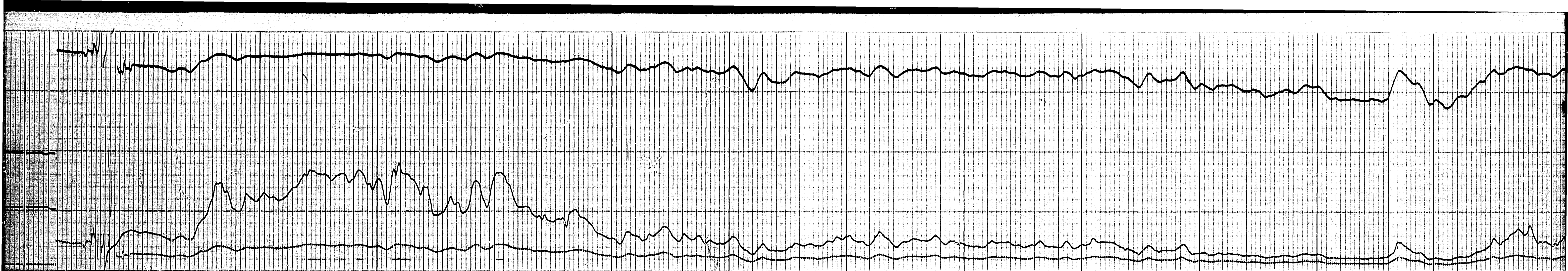


3 of

DETAIL LOG 5' = 100'		
SPONTANEOUS-POTENTIAL millivolts	DEPTHS	CONDUCTIVITY millimhos/cm = $\frac{1000}{\text{ohms cm/m}}$
6.5 111 0 23.2 500 0 500	INDUCTION 16" NORMAL RESISTIVITY ohms m/m	INDUCTION 16" NORMAL RESISTIVITY ohms m/m

DETAIL LOG 5' = 100'		
SPONTANEOUS-POTENTIAL millivolts	DEPTHS	CONDUCTIVITY millimhos/cm = $\frac{1000}{\text{ohms cm/m}}$
6.5 111 0 23.2 500 0 500	INDUCTION 16" NORMAL RESISTIVITY ohms m/m	INDUCTION 16" NORMAL RESISTIVITY ohms m/m





0700

0800

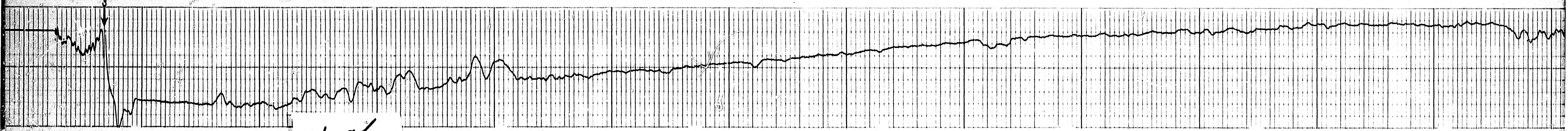
0900

1000

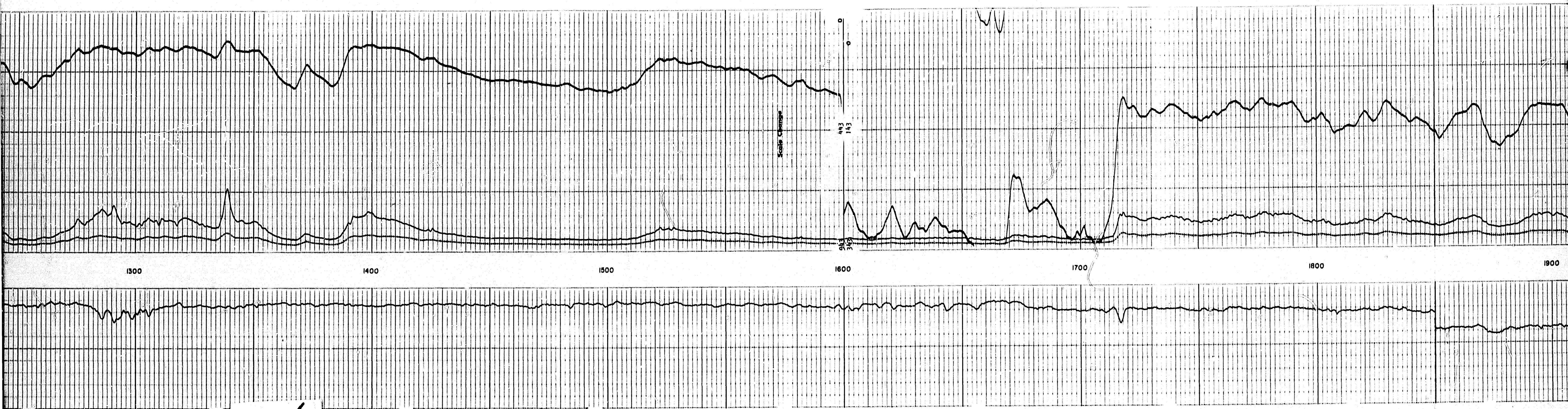
1100

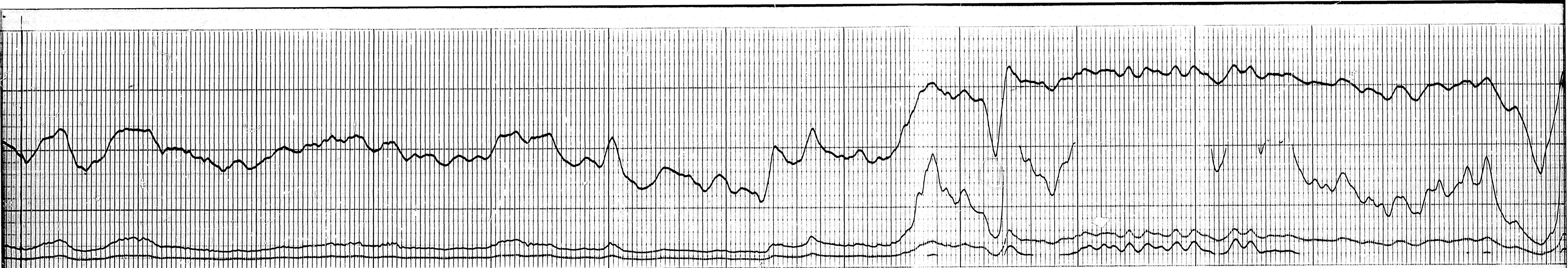
1200

1300



4 of





1900

2000

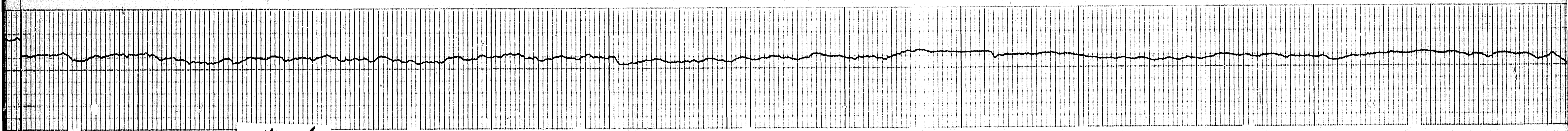
2100

2200

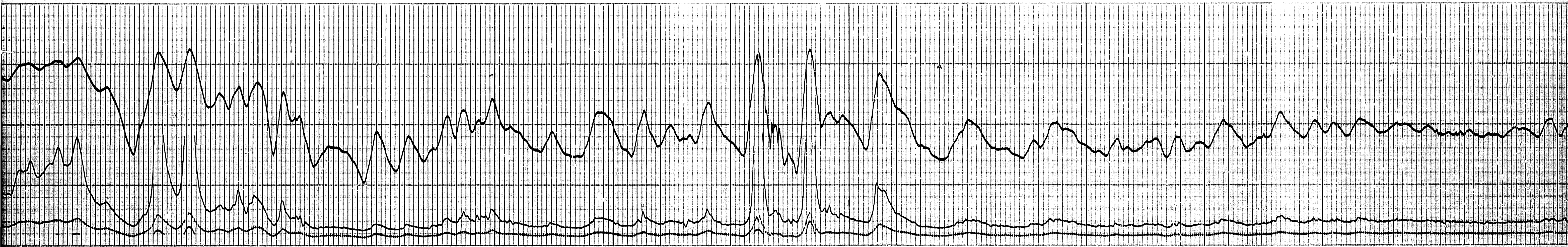
2300

2400

2500



6 of



2500

2600

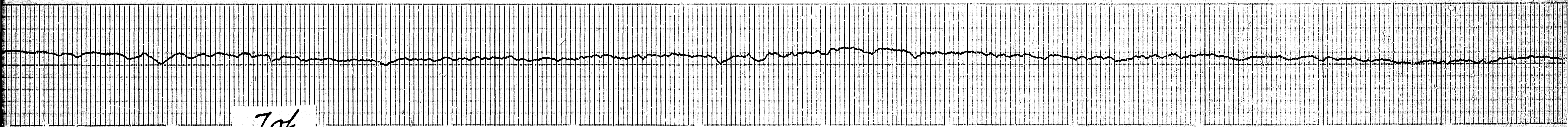
2700

2800

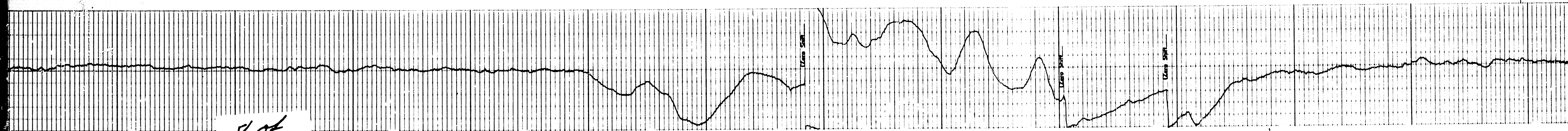
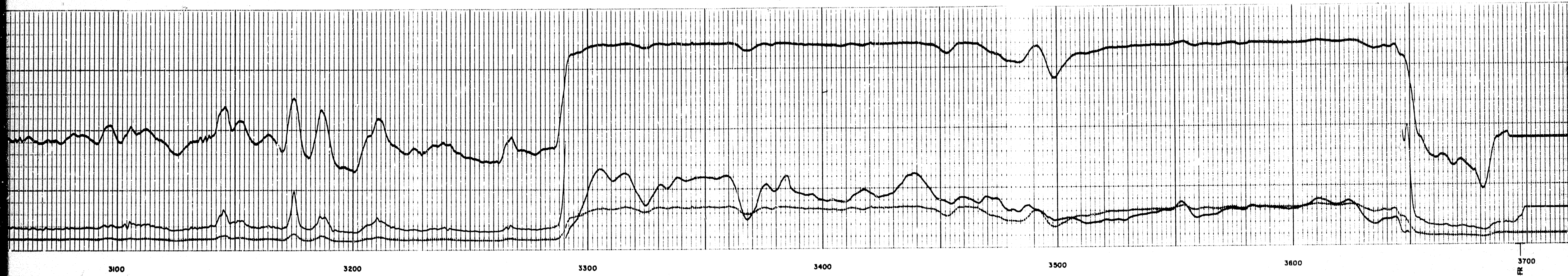
2900

3000

3100



704

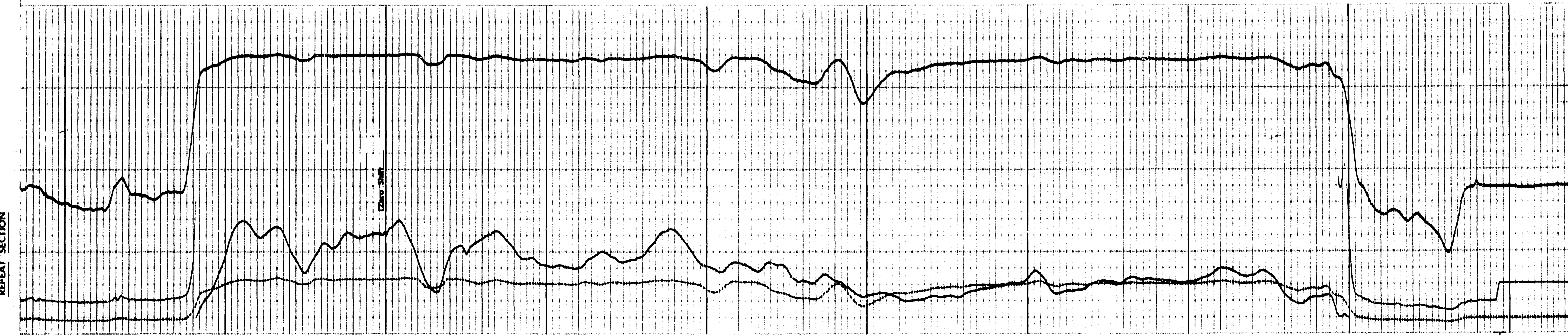


8 of



3700
RE

REPEAT SECTION



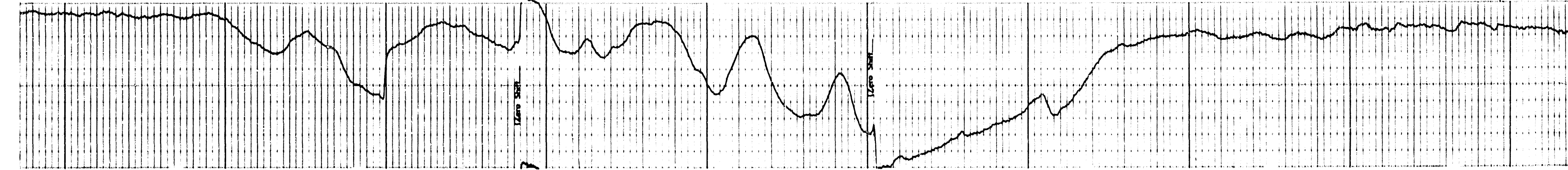
3300

3400

3500

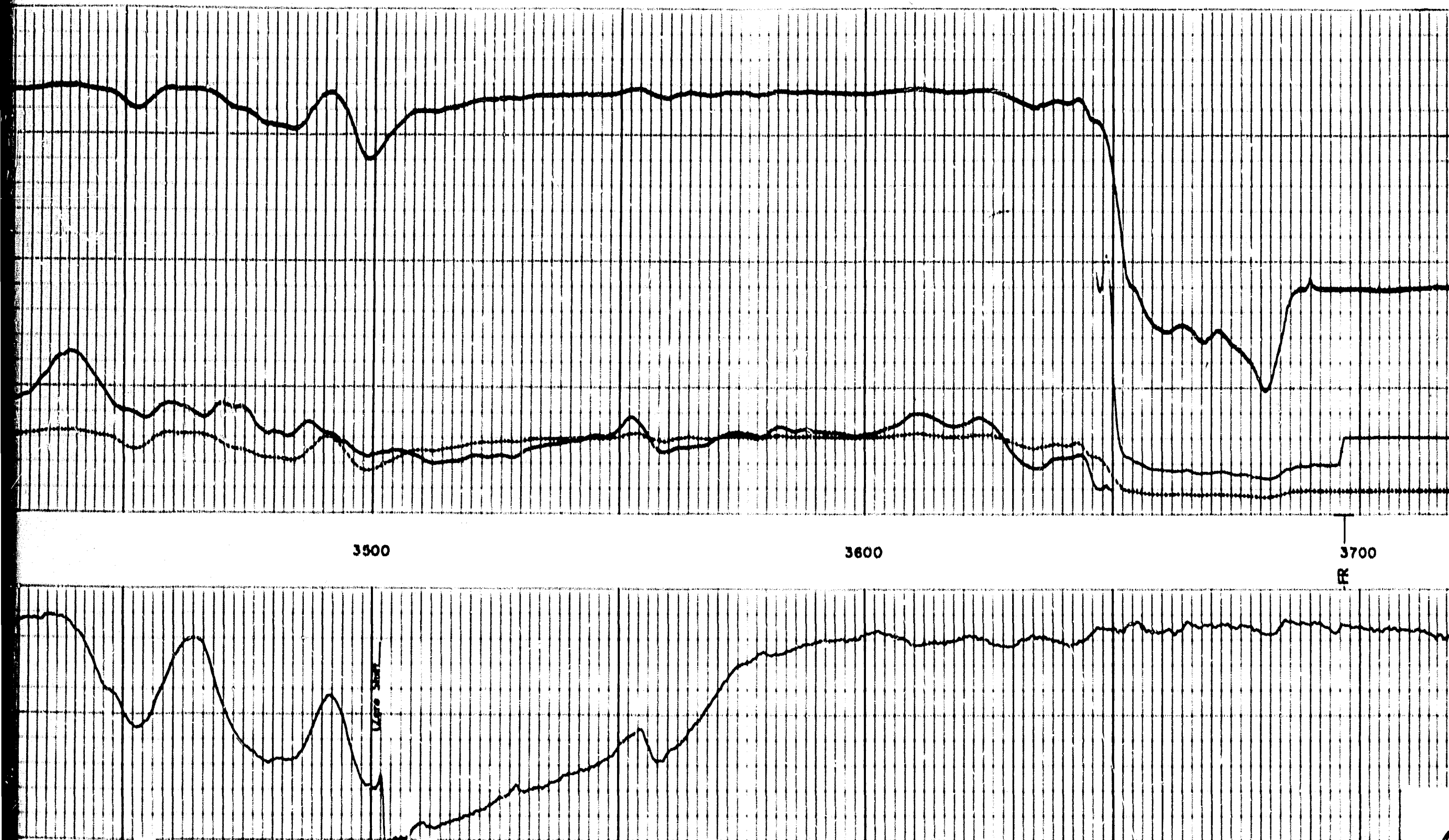
3600

3700
RE

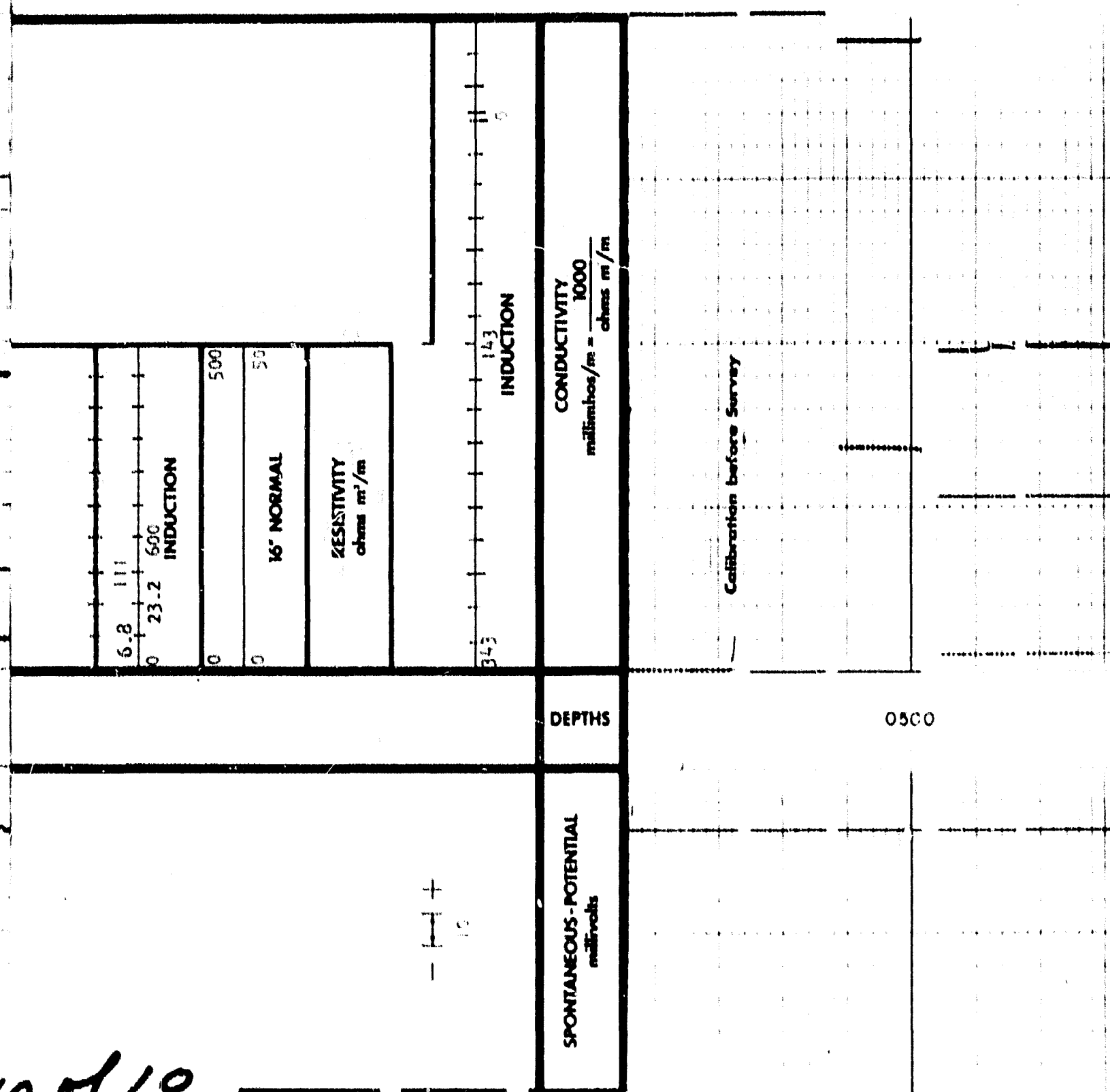


9 of

6.8	23.2	500	500	500
INDUCTION	INDUCTION	INDUCTION	INDUCTION	INDUCTION
16" NORMAL	16" NORMAL	16" NORMAL	16" NORMAL	16" NORMAL
RESISTIVITY	RESISTIVITY	RESISTIVITY	RESISTIVITY	RESISTIVITY
ohms m/ft	ohms m/ft	ohms m/ft	ohms m/ft	ohms m/ft



10 of 10

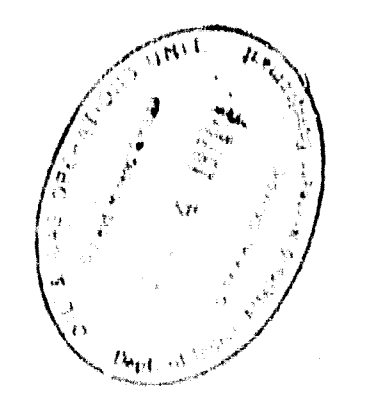


SCHLUMBERGER

COMPANY: ALBERTA ELECTRIC POWER CO. LTD.

WELL: HORN RIVER BRISTOL COMBAC C-65

FIELD: ALBERTA PROVINCE: NORTHWEST TERRITORIES

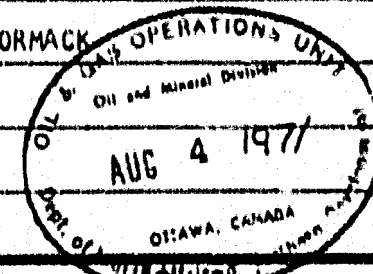


SCHLUMBERGER

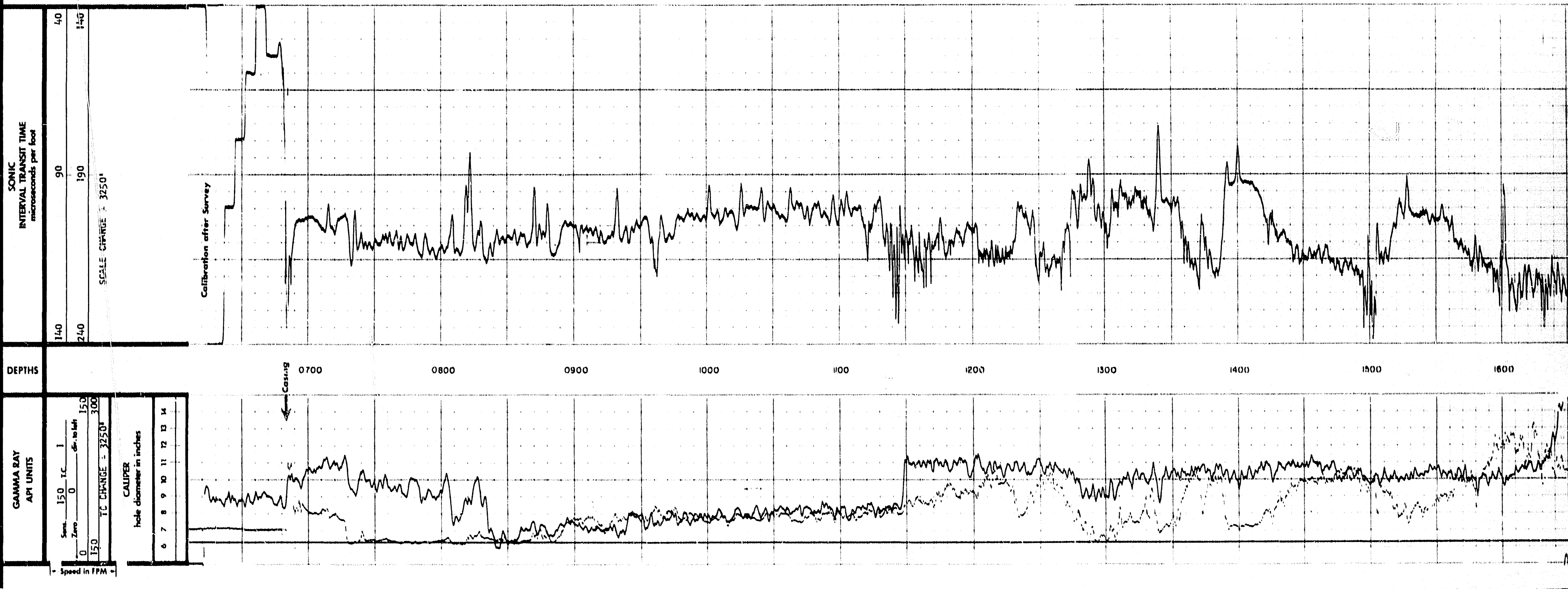
BOREHOLE COMPENSATED
SONIC LOG

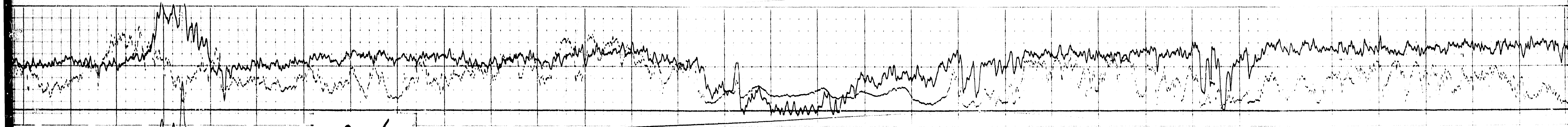
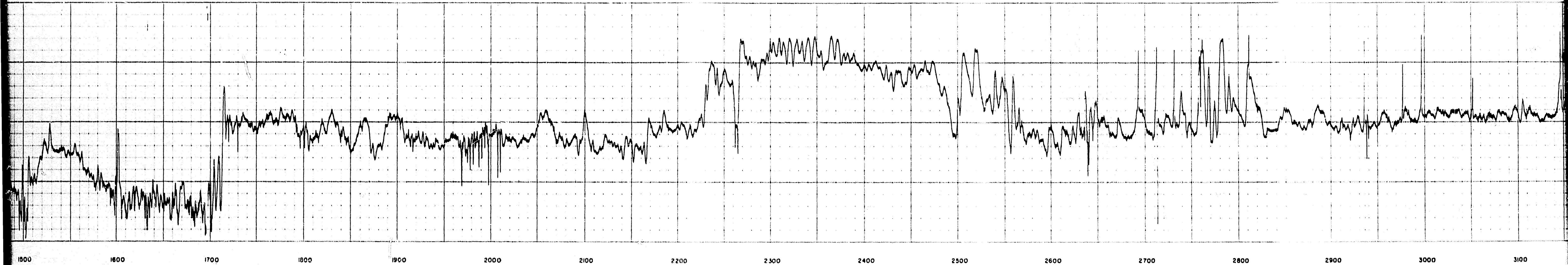
SCHLUMBERGER OF CANADA Calgary Alberta

PROVINCE	NORTHWEST TERRITORIES	COMPANY	HORN RIVER RESOURCES LTD.	
FIELD	WILDCAT	WELL	HORN RIVER SR ET AL CORMACK	
WELL	CORMACK C-65A	FIELD	WILDCAT	
COMPANY	HORN RIVER RESOURCES LTD.	PROVINCE	NORTHWEST TERRITORIES	
LOCATION		60° 54' 13" N LAT	122° 27' 21" W LONG	
Permanent Datum		GL	Elev. 2155	
Log Measured From		KB	9 ft. Above Perm. Datum	
ELEV. KB		2164	GL	2155
CMF				
Date	28 JAN 71			
Run No.	ONE			
First Reading	3697			
Last Reading	684			
Feet Measured	3013			
Depth Reached	3699			
Bottom Driller	3710			
Cog. SOC	684			
Cog. Driller	686			
Mud Nature	GEL CHEM			
Dens. Visc.	9.2	177		
Mud pH				
Water Loss				
Res.	2.33	63	°F	
• BHT	1.22	120	°F	
Rml				
Rmc				
BH Size	6 1/4"			
Span	2'	2'	2'	
Opr. Rig Time	2.5 HRS			
Truck No.	5697 EDM			
Recorded By	HUTZAL			
Witness	GALLOWAY			

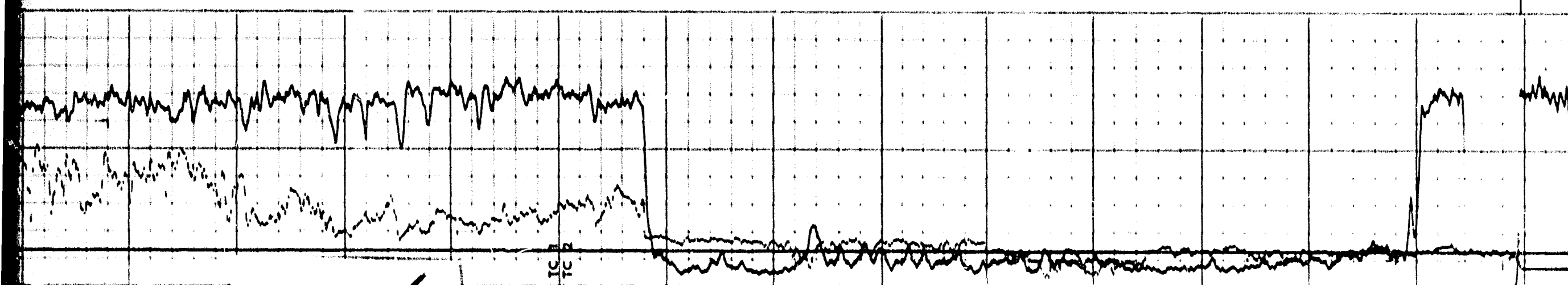
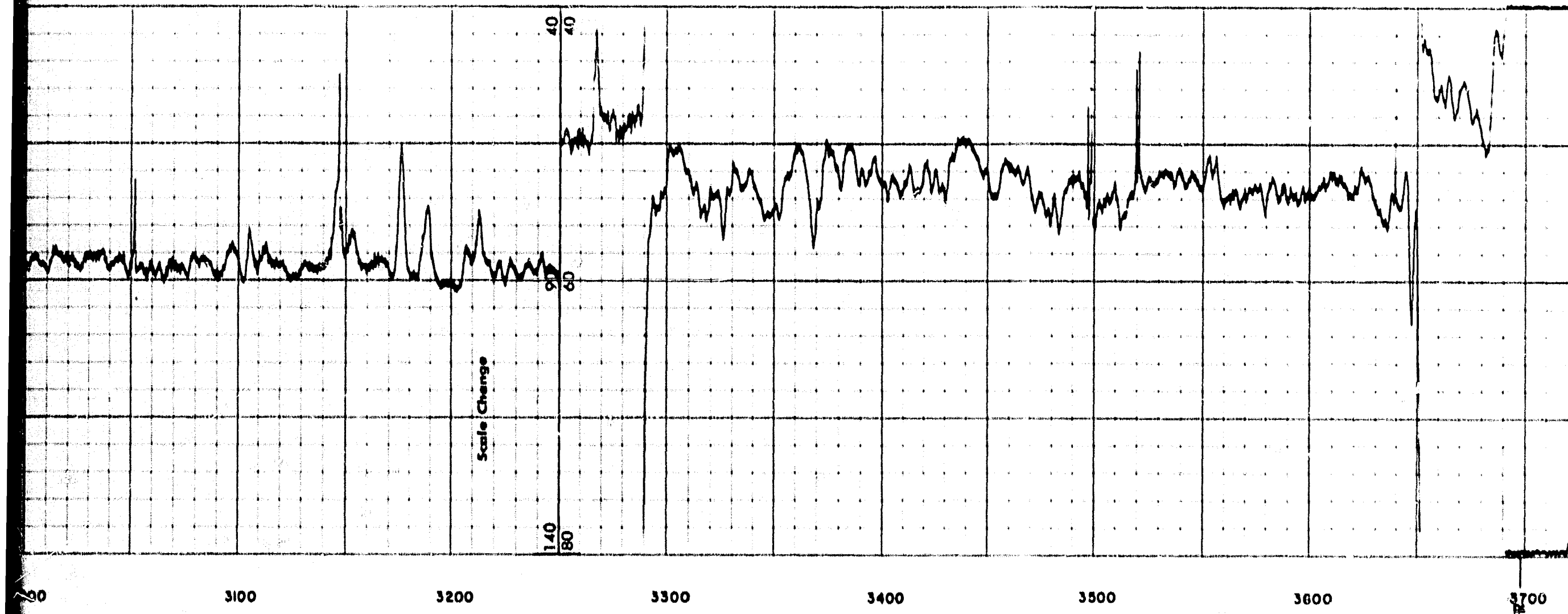


30 P-R 71 CAL EP	Drilling Stopped	1300	27th	Calibration Stopped	1500	27th	Tool on Bottom	125	B.M.T.							
Caliper No.	5830	Panel No.	A 188	Generator Type	CALIPER	Gamma Ray Calibration	Background CFS	40	Gamma Ray Calibration	Test Source CFS	435	Gamma Ray Calibration	Gain Increase Divisions	10.0	Panel Serial Top for Cal.	CAL





2 of



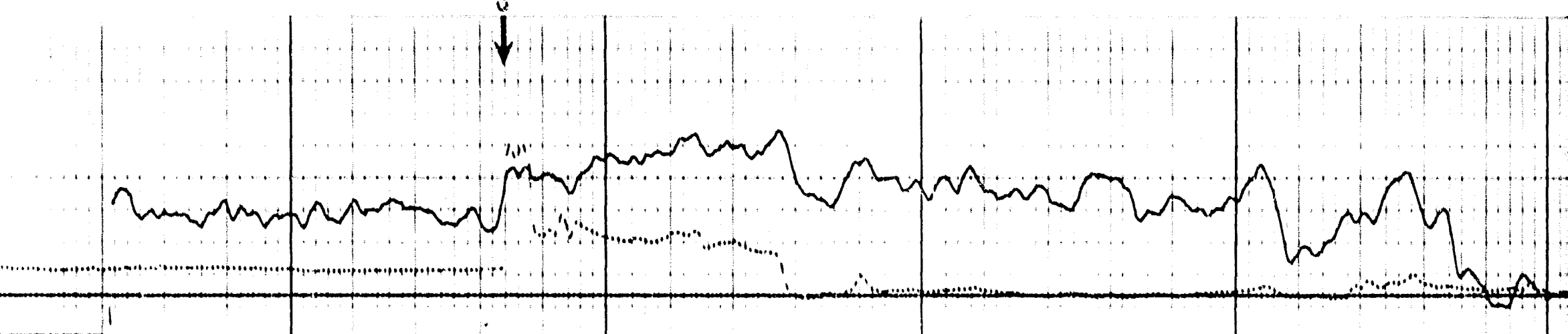
SONIC INTERVAL TRANSIT TIME microseconds per foot
120
80
100
60
40

DEPTHS
6 7 8 9 10 11 12 13 14
hole diameter in inches
Sens 150 TC 2
Zero 0 div to left
150
300
Gamma Ray API Units

SONIC INTERVAL TRANSIT TIME microseconds per foot
140
240
90
190
40
140

DEPTHS
6 7 8 9 10 11 12 13 14
hole diameter in inches
Sens 150 TC 1
Zero 0 div to left
150
300
Gamma Ray API Units

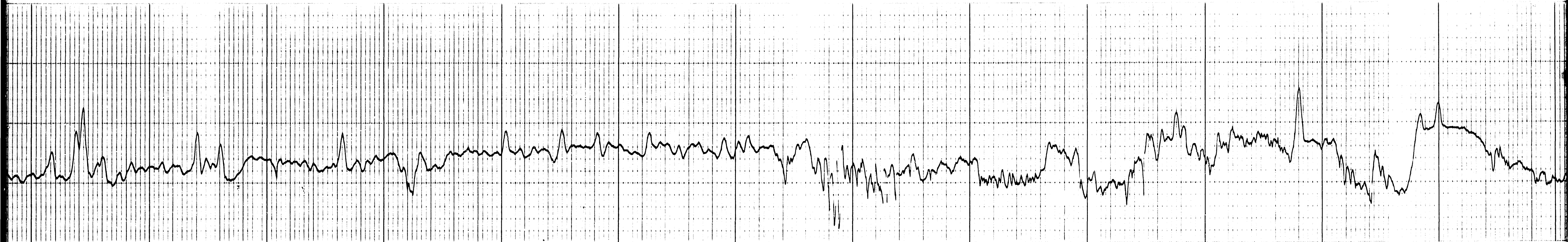
DETAIL LOG
5' = 100'



Calibration after Survey

↓ Casing

39



0800

0900

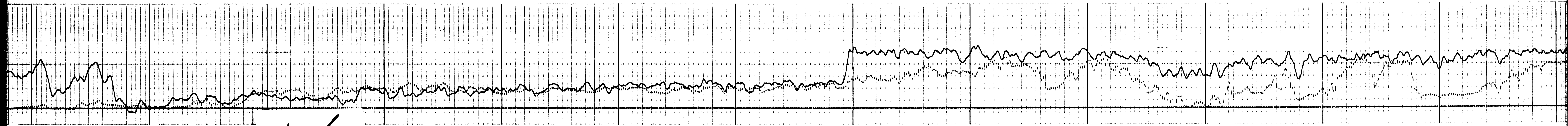
1000

1100

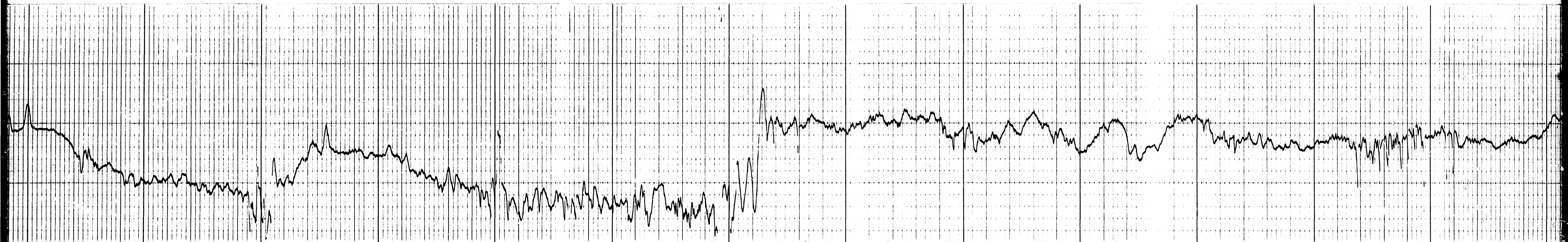
1200

1300

1400



4 of



1400

1500

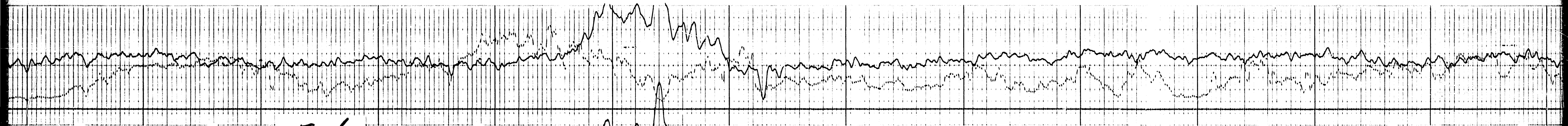
1600

1700

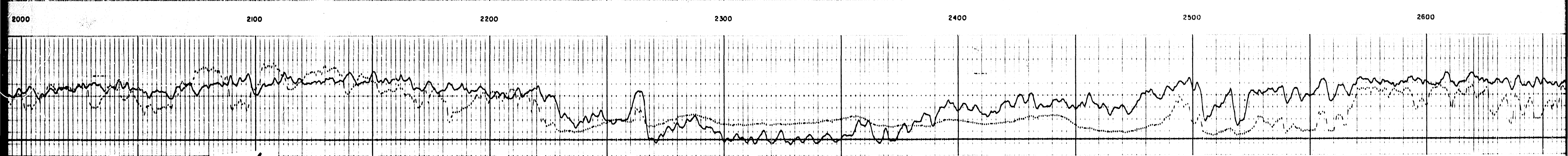
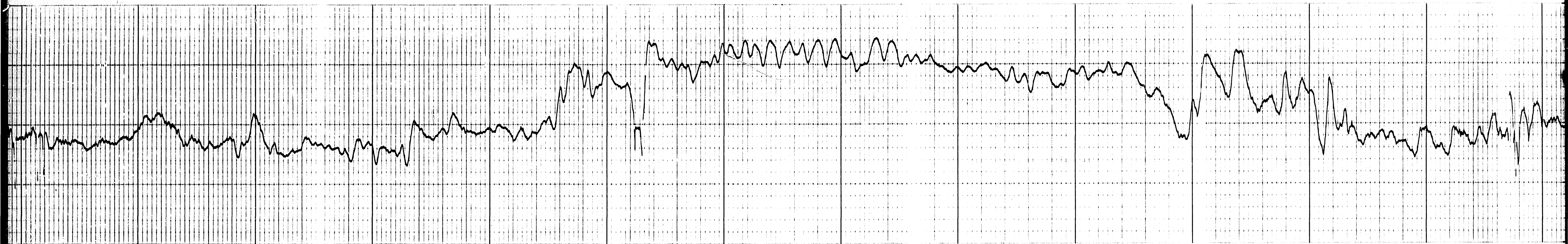
1800

1900

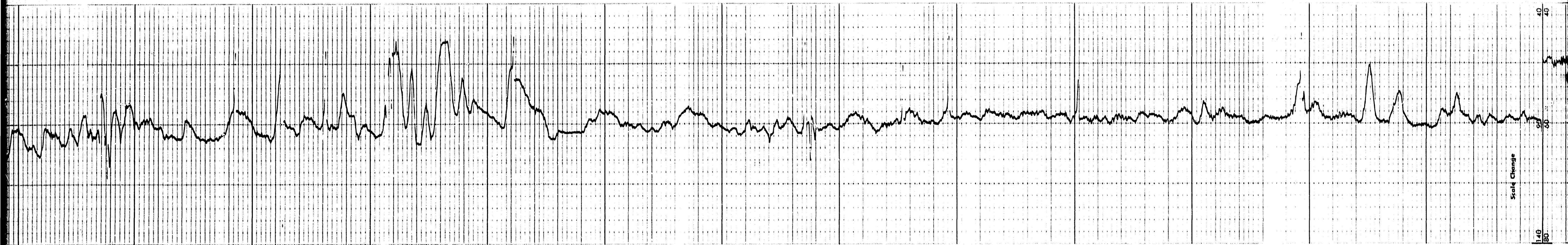
2000



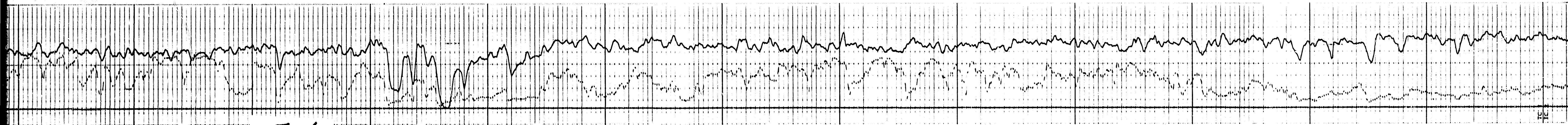
5 of



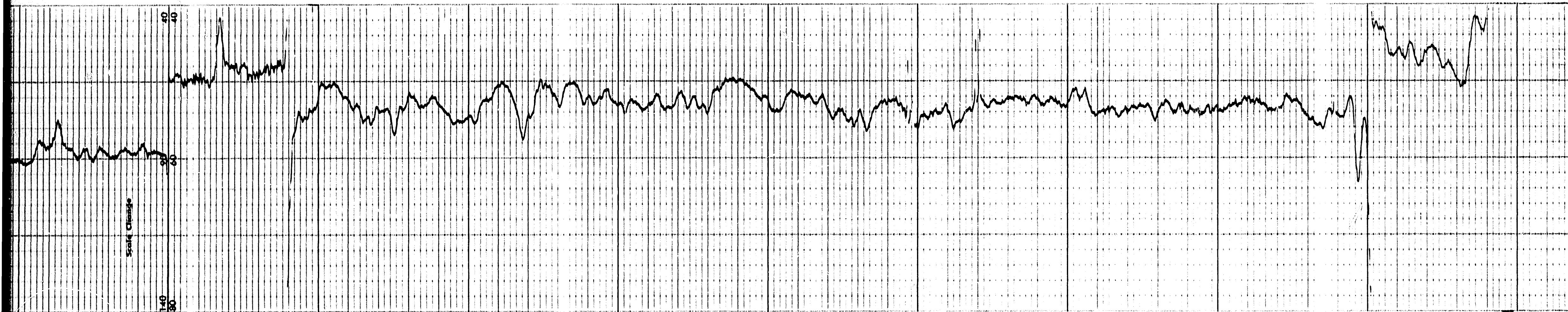
6 of



2600 2700 2800 2900 3000 3100 3200



704



3200

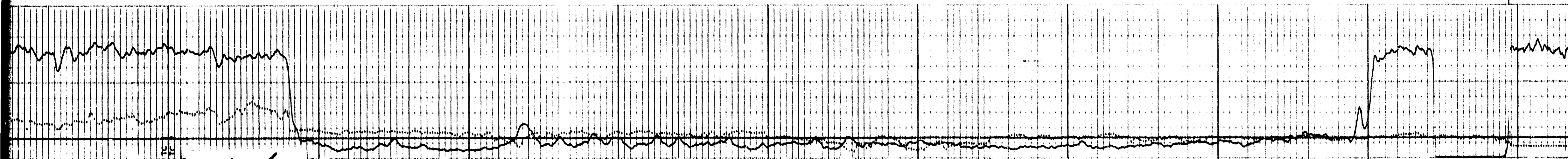
3300

3400

3500

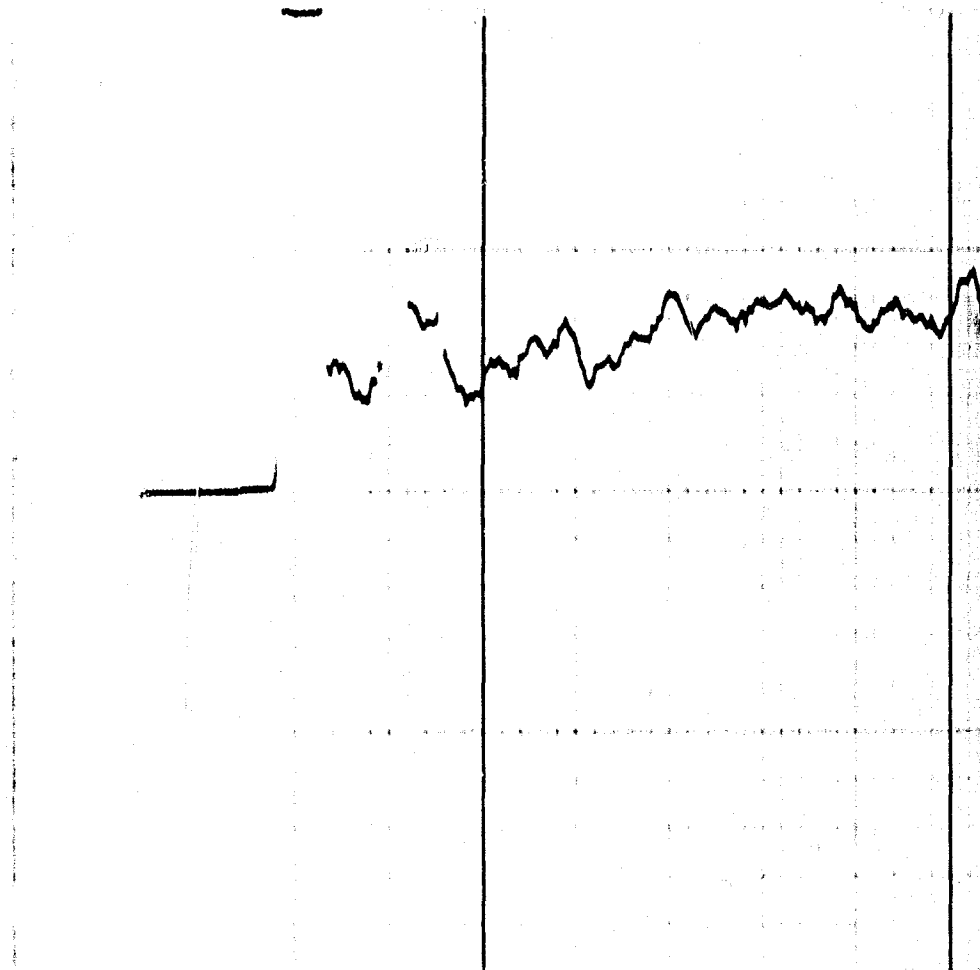
3600

3700

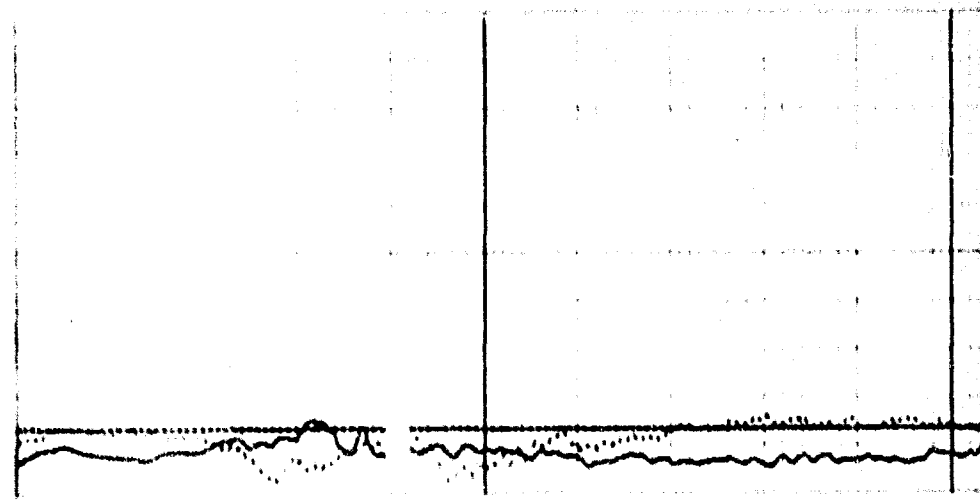


8 of

REPEAT SECTION

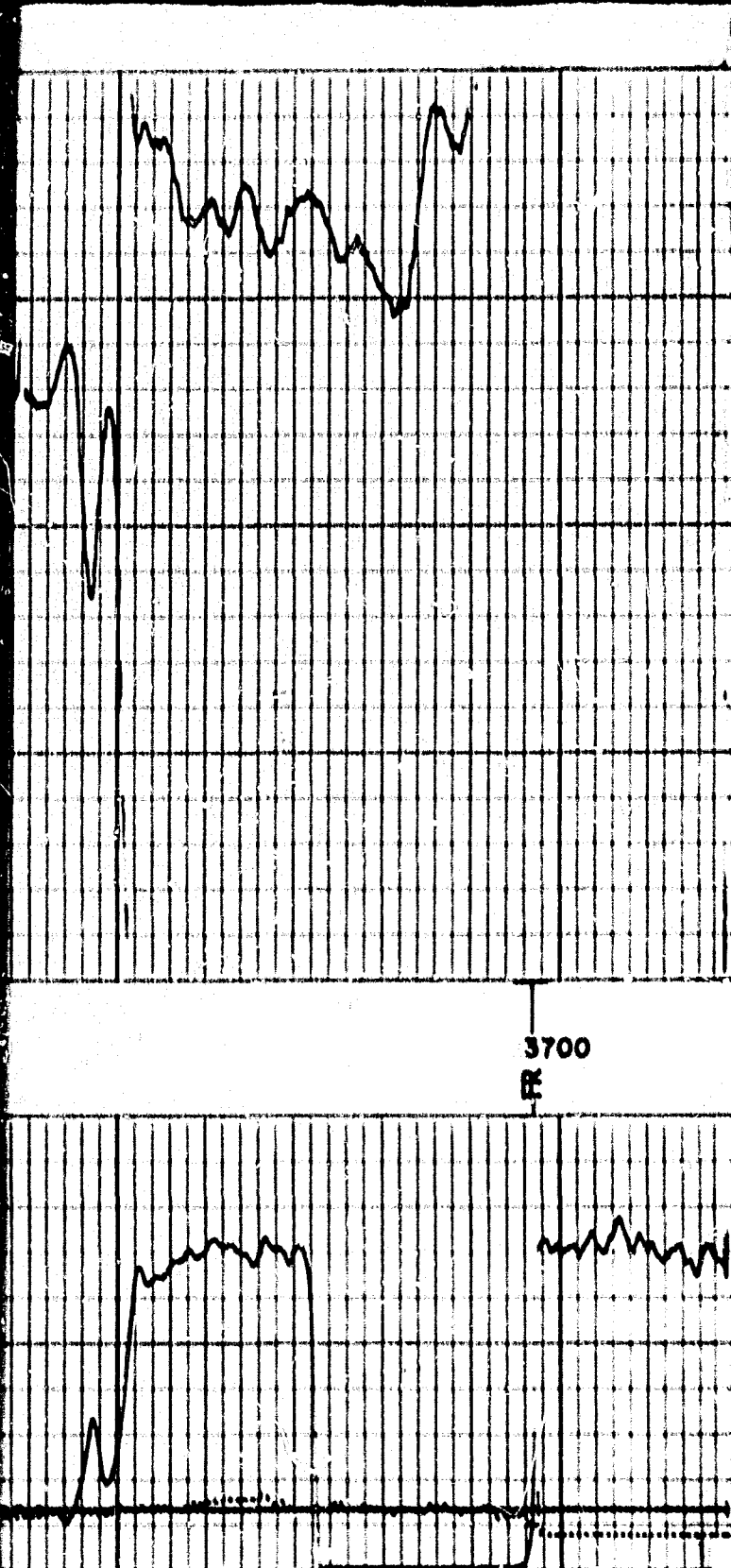


3500

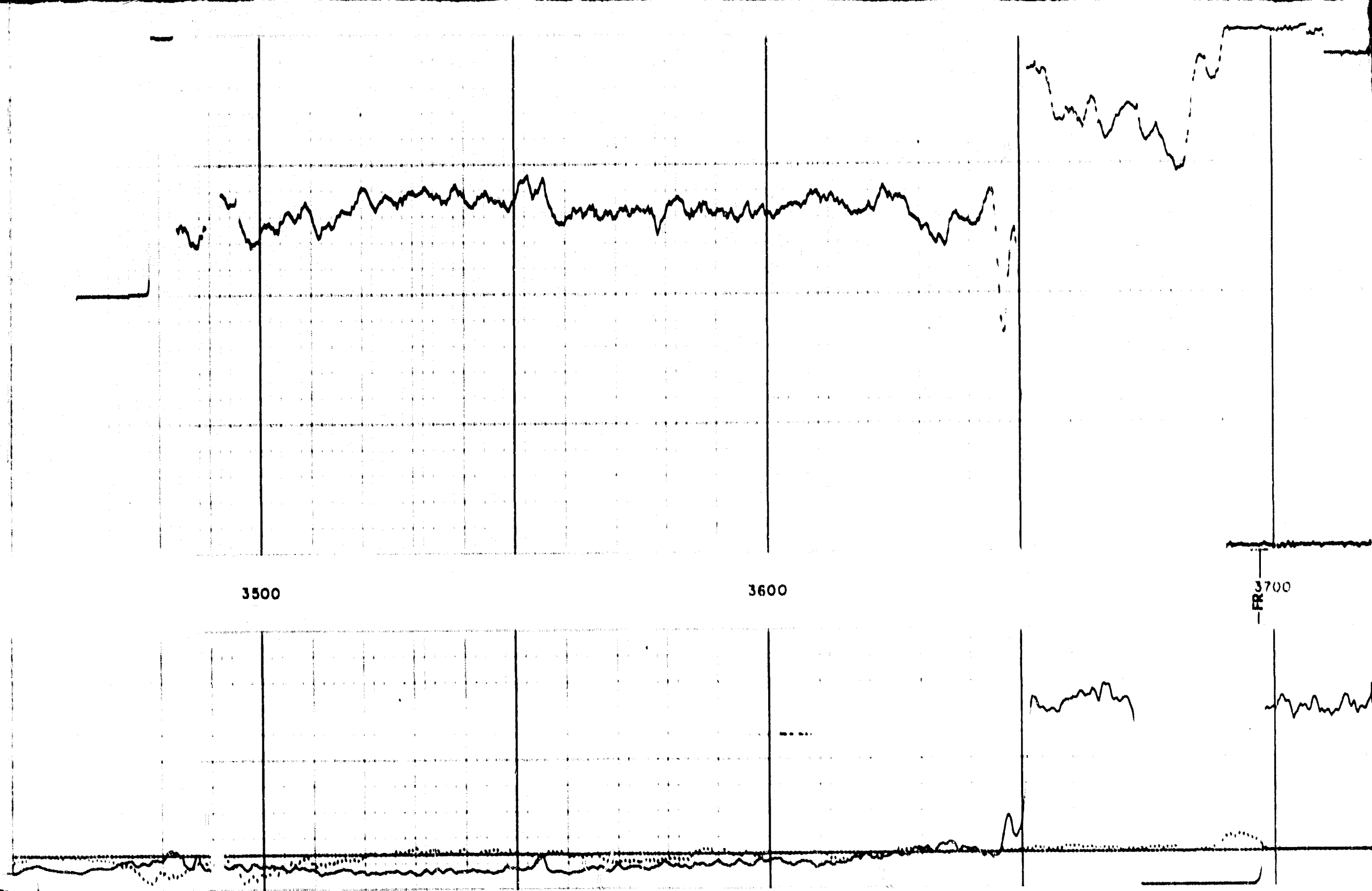


949

REPEAT SECTION



3700
FR



3500

3600

3700
FR

6 7 8 9 10 11 12 13 14

CALIPER
hole diameter in inches

Sens. 150 TC 2
Zero 0 0 150
150 300

Speed in FPM

GAMMA RAY
API UNITS

DEPTHS

SONIC
INTERVAL TRANSIT TIME
microseconds per foot

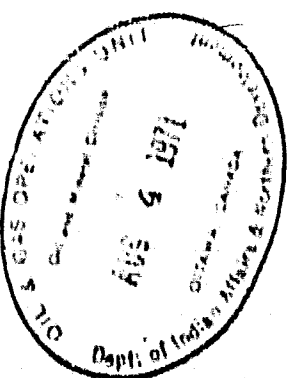
120 100 80
80 60 40

COMPANY HORN RIVER RESOURCES LTD.

WELL HORN RIVER SR ET AL CORP-CK C-65

FIELD ALBERTA PROVINCE NORTHWEST TERRITORIES

SCHLUMBERGER



KENTING OILWELL DRILLING

DIVISION OF KENTING EXPLORATION SERVICES LTD.

DAILY DRILLING REPORT

DAY WORK RECORD

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

RIG No. 35 LOCATION KEN PIVOT W. AL. COMPAH 11 AREA C-65A DATE JAN 30 1971

Team — Midnight - 8 a.m.		From	Footage	To	Mrs. on Bottom	Wt. Drill String (1000 lbs)	DRILL COLLARS			FUEL	WATER	COAL	Stands
Specify actual hours worked	Hrs.	No.	Size	Type	Size Jct.	Serial No.	Weight	R.P.M.	Ft. Drilled	Mrs.	Feet Reamed	Mrs.	CONDITION
Driller <u>D. L. LAMAR</u>	12												
Derrick <u>W. D. LAMAR</u>	12												
Floor <u>MAYAN MUSUMANSKI</u>	12												
Mechanics													
Extra <u>Barry Paulsen</u>	6												
Injuries													
Notes													
Team — 8 a.m. to 4 p.m.		From	Footage	To	Mrs. on Bottom	Wt. Drill String (1000 lbs)	DRILL COLLARS			FUEL	WATER	COAL	Stands
Specify actual hours worked	Hrs.	No.	Size	Type	Size Jct.	Serial No.	Weight	R.P.M.	Ft. Drilled	Mrs.	Feet Reamed	Mrs.	CONDITION
Driller													
Derrick													
Floor													
Mechanics													
Extra <u>Barry Paulsen</u>	8												
Injuries													
Notes													
Team — 4 p.m. to Midnight		From	Footage	To	Mrs. on Bottom	Wt. Drill String (1000 lbs)	DRILL COLLARS			FUEL	WATER	COAL	Stands
Specify actual hours worked	Hrs.	No.	Size	Type	Size Jct.	Serial No.	Weight	R.P.M.	Ft. Drilled	Mrs.	Feet Reamed	Mrs.	CONDITION
Driller <u>ROY KUMAR</u>	12												
Derrick <u>F. KUMAR</u>	12												
Floor <u>M. VIKTOROV</u>	12												
Mechanics													
Extra <u>BOB BROWNE</u>	12												
Injuries													
Notes													

REMARKS		Start	Stop	Interval
Rig Setup		12:00	12:15	1/4
Run in OPEN END		12:15	2:45	2 1/2
Rig To + Cement Plug #1		2:45	4:15	1 1/2
Trip OUT 15 STD		4:15	4:45	1/2
LAY D / D.C. + D.P.		4:45	8:00	3 1/4
Company Time				
Cont's Time				
LAY DOWN D.C.		8:00	10:00	2
Borehole Kelly		10:00	10:30	1/2
Trip in 12 STD + 1 SINGLE		10:30	11:15	3/4
Rig To Cement		11:15	11:30	1/4
Cement Plug #2		11:30	12:00	1/2
LAY D / D.P.		12:00	12:30	1/2
Drain Pump + Clean Tank		12:30	4:00	3 1/2
Company Time				
Cont's Time				
Clean Mud Tanks		4:00		
Down Kelly D.C. + TANK				
OUT D.O.P. LAY D / D.P.				
Dig CEMENT WELD ON PLATE				
Company Time				
Cont's Time				
Rig Released				
6:00 P.M.				
Company Time				
Cont's Time				

Total Ring on Bit No. _____ D.P. Calipered Date _____ Results _____ From Pipe Rack _____ Total Contractor Time _____ Hrs _____ Toolpusher _____
 B.O.P. Test-Operated _____ Time _____ Results _____ Total Company Time _____ Hrs _____ Approved by _____

DIVISION OF RENTING EXPLORATION SERVICES LTD.

DAY WORK RECORD

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

RIS No. 35 LOCATION Hohen Piquet S.C. 157. Ab. CORNMAN AREA C-65-A DATE Jan. 29 1971

Year — Midnight - 8 a.m.		7 p.m.		Feet . .		To		Hrs on Bottom		Wt Drill String (1000 lbs)		DRILL COLLARS No OD ID Wgt				Fuel Gals		WATER Bbls		COAL Tons		Stands Singles	
Specify actual hours worked		Hrs.																					
Driller	<i>Dwight C. GILSON</i>	<i>12</i>																					
Derrick	<i>E.D. LANA, JR. H.</i>	<i>12</i>																					
Floor	<i>M. MUSHKUNSKI</i>	<i>12</i>																					
Floor																							
Floor																							
Motor	<i>R. MUSHKUNSKI</i>	<i>12</i>																					
Mechanics																							
Bats																							
Injures																							
Pipes																							

[illegible][illegible][illegible]

Totco Ring on Bit No.

D.P. Calipered Data

Results

From Pipe Rock

Total Contractor Time

Mr.

foolpucker

B.O.P. Test-Operated

Time

Results

Total Company Time

340

Approved by

KENTING OILWELL DRILLING

DIVISION OF KENTING EXPLORATION SERVICES LTD.

DAILY DRILLING REPORT

DAY WORK RECORD

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

RIG No. 33 LOCATION HEARN RIVER SR. AREA, COLUMBIA LAKE AREA C65A DATE JAN 28 1971

From		Footage		To	Hrs. on Bottom	Wt. Drill String (1000 lbs.)	DRILL COLLARS			FUEL	WATER	COAL	Stands
							No.	OD	ID	Wgt.	Gals.	Bbls.	Tons
Driller <u>Dwight Green</u>		12											
Derrick <u>Ed Lamash</u>		12											
Floor <u>Rayon Mushumanski</u>		12											
Floor													
Motor <u>Ed Mushumanski</u>		12											
Mechanics													
Extra													
Injuries													
Notes													

From		Footage		To	Hrs. on Bottom	Wt. Drill String (1000 lbs.)	DRILL COLLARS			FUEL	WATER	COAL	Stands
							No.	OD	ID	Wgt.	Gals.	Bbls.	Tons
Driller													
Derrick													
Floor													
Floor													
Motor													
Mechanics													
Extra													
Injuries													
Notes													

From		Footage		To	Hrs. on Bottom	Wt. Drill String (1000 lbs.)	DRILL COLLARS			FUEL	WATER	COAL	Stands
							No.	OD	ID	Wgt.	Gals.	Bbls.	Tons
Driller													
Derrick													
Floor													
Floor													
Motor													
Mechanics													
Extra													
Injuries													
Notes													

REMARKS		Start	Time Stop	Interval
Logging		12.00	6.00	6
Log #1 12.00 - 3.00				
Log #2 3.00 - 6.00				
Test out Log #1		6.00	6.45	3/4
Wait on Order		6.45	8.00	1 1/4
Company Time				
Cont'r Time				
Log #3 8.00 - 8.15		8.00	8.15	1/4
Make up test #1		8.15	10.15	2
Run in test #1		10.15	12.00	1 3/4
Work on sandline cable		12.00	12.45	1/2
Run in test #1		12.45	1.45	1
Make up test		1.45	2.15	1/2
Logging		2.15	3.00	3/4
Company Time				
Cont'r Time				
Testing		3.00	7.00	3
Add power line cable		7.00	7.15	1/4
Testing		7.15	7.30	1/4
Testing		7.30	7.45	1/4
Testing		7.45	8.00	1/4
Testing		8.00	8.15	1/4
Testing		8.15	8.30	1/4
Testing		8.30	8.45	1/4
Testing		8.45	9.00	1/4
Testing		9.00	9.15	1/4
Testing		9.15	9.30	1/4
Testing		9.30	9.45	1/4
Testing		9.45	10.00	1/4
Testing		10.00	10.15	1/4
Testing		10.15	10.30	1/4
Testing		10.30	10.45	1/4
Testing		10.45	11.00	1/4
Testing		11.00	11.15	1/4
Testing		11.15	11.30	1/4
Testing		11.30	11.45	1/4
Testing		11.45	12.00	1/4
Testing		12.00	12.15	1/4
Testing		12.15	12.30	1/4
Testing		12.30	12.45	1/4
Testing		12.45	1.00	1/4
Testing		1.00	1.15	1/4
Testing		1.15	1.30	1/4
Testing		1.30	1.45	1/4
Testing		1.45	2.00	1/4
Testing		2.00	2.15	1/4
Testing		2.15	2.30	1/4
Testing		2.30	2.45	1/4
Testing		2.45	3.00	1/4
Testing		3.00	3.15	1/4
Testing		3.15	3.30	1/4
Testing		3.30	3.45	1/4
Testing		3.45	4.00	1/4
Testing		4.00	4.15	1/4
Testing		4.15	4.30	1/4
Testing		4.30	4.45	1/4
Testing		4.45	5.00	1/4
Testing		5.00	5.15	1/4
Testing		5.15	5.30	1/4
Testing		5.30	5.45	1/4
Testing		5.45	6.00	1/4
Testing		6.00	6.15	1/4
Testing		6.15	6.30	1/4
Testing		6.30	6.45	1/4
Testing		6.45	7.00	1/4
Testing		7.00	7.15	1/4
Testing		7.15	7.30	1/4
Testing		7.30	7.45	1/4
Testing		7.45	8.00	1/4
Testing		8.00	8.15	1/4
Testing		8.15	8.30	1/4
Testing		8.30	8.45	1/4
Testing		8.45	9.00	1/4
Testing		9.00	9.15	1/4
Testing		9.15	9.30	1/4
Testing		9.30	9.45	1/4
Testing		9.45	10.00	1/4
Testing		10.00	10.15	1/4
Testing		10.15	10.30	1/4
Testing		10.30	10.45	1/4
Testing		10.45	11.00	1/4
Testing		11.00	11.15	1/4
Testing		11.15	11.30	1/4
Testing		11.30	11.45	1/4
Testing		11.45	12.00	1/4
Testing		12.00	12.15	1/4
Testing		12.15	12.30	1/4
Testing		12.30	12.45	1/4
Testing		12.45	1.00	1/4
Testing		1.00	1.15	1/4
Testing		1.15	1.30	1/4
Testing		1.30	1.45	1/4
Testing		1.45	2.00	1/4
Testing		2.00	2.15	1/4
Testing		2.15	2.30	1/4
Testing		2.30	2.45	1/4
Testing		2.45	3.00	1/4
Testing		3.00	3.15	1/4
Testing		3.15	3.30	1/4
Testing		3.30	3.45	1/4
Testing		3.45	4.00	1/4
Testing		4.00	4.15	1/4
Testing		4.15	4.30	1/4
Testing		4.30	4.45	1/4
Testing		4.45	5.00	1/4
Testing		5.00	5.15	1/4
Testing		5.15	5.30	1/4
Testing		5.30	5.45	1/4
Testing		5.45	6.00	1/4
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Testing		6.15	6.30	1/4
Testing		6.30	6.45	1/4
Testing		6.45	7.00	1/4
Testing		7.00	7.15	1/4
Testing		7.15	7.30	1/4
Testing		7.30	7.45	1/4
Testing		7.45	8.00	1/4
Testing		8.00	8.15	1/4
Testing		8.15	8.30	1/4
Testing		8.30	8.45	1/4
Testing		8.45	9.00	1/4
Testing		9.00	9.15	1/4
Testing		9.15	9.30	1/4
Testing		9.30	9.45	1/4
Testing		9.45	10.00	1/4
Testing		10.00	10.15	1/4
Testing		10.15	10.30	1/4
Testing		10.30	10.45	1/4
Testing		10.45	11.00	1/4
Testing		11.00	11.15	1/4
Testing		11.15	11.30	1/4
Testing		11.30	11.45	1/4
Testing		11.45	12.00	1/4
Testing		12.00	12.15	1/4
Testing		12.15	12.30	1/4
Testing		12.30	12.45	1/4
Testing		12.45	1.00	1/4
Testing		1.00	1.15	1/4
Testing		1.15	1.30	1/4
Testing		1.30	1.45	1/4
Testing		1.45	2.00	1/4
Testing		2.00	2.15	1/4
Testing		2.15	2.30	1/4
Testing		2.30	2.45	1/4
Testing		2.45	3.00	1/4
Testing		3.00	3.15	1/4
Testing		3.15	3.30	1/4
Testing		3.30	3.45	1/4
Testing		3.45	4.00	1/4
Testing		4.00	4.15	1/4
Testing		4.15	4.30	1/4
Testing		4.30	4.45	1/4
Testing		4.45	5.00	1/4
Testing		5.00	5.15	1/4
Testing		5.15	5.30	1/4
Testing		5.30	5.45	1/4
Testing		5.45	6.00	1/4
Testing		6.00	6.15	1/4
Testing		6.15	6.30	1/4
Testing		6.30	6.45	1/4
Testing		6.45	7.00	1/4
Testing		7.00	7.15	1/4
Testing		7.15	7.30	1/4
Testing		7.30	7.45	1/4
Testing		7.45	8.00	1/4
Testing		8.00	8.15	1/4
Testing		8.15	8.30	1/4
Testing		8.30	8.45	1/4
Testing		8.45	9.00	1/4
Testing		9.00	9.15	1/4
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Testing		9.45	10.00	1/4
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Testing		10.15	10.30	1/4
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Testing		10.45	11.00	1/4
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Testing		11.30	11.45	1/4
Testing		11.45	12.00	1/4
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Testing		12.30	12.45	1/4
Testing		12.45	1.00	1/4
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Testing		1.30	1.45	1/4
Testing		1.45	2.00	1/4
Testing		2.00	2.15	1/4
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Testing		3.45	4.00	1/4
Testing		4.00	4.15	1/4
Testing		4.15	4.30	1/4
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Testing		8.30	8.45	1/4
Testing		8.45	9.00	1/4
Testing		9.00	9.15	1/4
Testing		9.15	9.30	1/4
Testing		9.30	9.45	1/4
Testing		9.45	10.00	1/4
Testing		10.00	10.15	1/4

DIVISION OF KENTING EXPLOATION SERVICES LTD.

DAY WORK RECORD

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

RIO No. 35 LOCATION 1000' N. 100' W. of station 645 AREA 5.65 H DATE July 22, 1957

Year — Midnight — 8 a.m. Specify actual hours worked _____ Hrs.	From _____ Footage _____ To _____ Hrs. on Bottom _____ Wt. Drill String (1000 lbs.) _____ No. _____ OD _____ ID _____ Wgt. _____ Gals _____ WATER _____ COAL _____ Stands _____
	Driller <u>ROY McMAHON</u> Derrick <u>FRANK FRANKS</u> Floor _____ Floor _____ Floor _____ Motor <u>JOHN McMAHON</u> Mechanic _____ Extra _____ Injuries _____ Floor _____
3584 72 3056 142 60 10 4 2	No. 1 _____ Size _____ Type _____ Size Jolt _____ Serial No. _____ Weight _____ RPM _____ Ft. Drilled _____ Hrs. _____ Feet Reamed _____ Hrs. _____ CONDITION _____ D. Collars _____ Other Ft. _____
MUD WEIGHT _____ VISCOSITY _____ GEL _____ No. 1 _____ Prod. _____ S.P.M. _____ Model _____ No. 2 _____ Prod. _____ S.P.M. _____ Model _____	Additives _____ At Surveys Degree _____ MOTOR HOURS _____ Heat Oil Change _____ 1 385 1 387 4 1 TOTAL 7656
PUMPS No. 1 _____ Prod. _____ S.P.M. _____ Model _____ No. 2 _____ Prod. _____ S.P.M. _____ Model _____	Size _____ TRIPS _____ No. Lines _____ TON MILES _____ TOTAL MILES _____ Slip _____ Feet Lost _____ Next Slip _____ General <u>SANDY TRAIL PORTLAND CEMENT (SANDY TRAIL)</u>

[illegible][illegible][illegible]

Totco Ring on Bit No.

D.P. Calipered Date

Results

From Pipe Rack

Total Converter Time

1409.

Toolpusher

B.O.P. Test-Operated

Time

Results

Total Company Time

He.

Approved by

KENTING OILWELL DRILLING

DIVISION OF KENTING EXPLORATION SERVICES LTD.

DAILY DRILLING REPORT

DAY WORK RECORD

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

RIG No. 35 LOCATION HEARN RIVER, SRETRA, CARMACK AREA, C-65A DATE JAN 26, 1971

Hour — Midnight - 8 a.m.		Hour — 8 a.m. to 4 p.m.		Hour — 4 p.m. to Midnight	
Driller	Hrs.	Driller	Hrs.	Driller	Hrs.
Anderson	8	Dwight Green	16	Red Mushumanski	6
Derick	8	Maryn Mushumanski	8	Red Mushumanski	6
Floor		Floor		Floor	
Floor		Floor		Floor	
Mechanics		Mechanics		Mechanics	
Extra		Extra		Extra	
Injuries		Injuries		Injuries	
Fire		Fire		Fire	

From	Footage	To	Mrs. on Bottom	Wt. Drill String (1000 lbs.)	DRILL COLLARS	FUEL	WATER	COAL	Stands
No.	Size	Type	Size Jct.	Serial No.	Weight	R.P.M.	Ft. Drilled	Mrs.	Feet Reamed
13	6 1/2	3-735	13	853836	4000	125	36	1	12
13	6 1/2	451-T	3-13	853836	4000	125	36	1	12
13	6 1/2	451-T	3-13	853836	4000	125	36	1	12

MUD	WEIGHT	VISCOSITY	GEL	At Surface Degree	MOTOR HOURS	Feet Oil Change
13	8.5	78	350	372	377	3486
13	8.5	78	350	372	377	3486
13	8.5	78	350	372	377	3486

W.L.	F.C.	pH	General
			SAFETY TALK ON USE OF TUNGS USED TO TAP THE PIPE WHILE FISHING.
			SAFETY TALK ON HANDLING OF PIPE

REMARKS	Start	Time Stop	Interval
HEIST OUT W/FISH	11:00		
WET PIPE		5:15	5 1/4
BRKDN DOWN JARS & SUBS	5:15	6:00	3/4
BRKDN BIT & STABILIZER	6:00	6:15	1/4
REPAIR FLAT	6:15	6:45	1/2
RUN IN DASHING & CHECK D.C.	6:45	8:00	1 1/4
Rig Low	8:00	8:15	1/4
Run in D.C. & Check	8:15	9:15	1
Throw out Mud Line	9:15	11:00	1 1/4
Remain Bit #13	11:00	12:00	2
Learn	12:00	3:00	2
Ream Rat Hole	3:00	4:00	1
3450 — 3486			
Ream Rat Hole	4:00		
3486 — 3504		5:00	1
Drill	5:00	12:00	7

Totco Ring on Bit No. D.P. Calipered Date Results From Pipe Rack Total Contractor Time Hrs. Toolpusher
 B.O.P. Test-Operated Time Results Total Company Time Hrs. Approved by

KENTING OILWELL DRILLING

DIVISION OF KENTING EXPLORATION SERVICES LTD.

DAILY DRILLING REPORT

DAY WORK RECORD

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

RIG No. 35 LOCATION ST. AN. RIVER RETAIL CORNER KAREA

DATE JAN 25 1971

Year — Midnight - 8 a.m.
Specify actual hours worked Hrs.
Driller K. ANDERSON 12
Derrick F. SAEHWK 12
Floor W. HARPER 12
Motor M. LARIVIERE 12
Mechanics
Extra
Injuries
Fire

From	Footage	To	Hrs. on Bottom	Wt. Drill String (1000 lbs.)	DRILL COLLARS	FUEL	WATER	COAL	Stands			
No.	Size	Type	Size Jct.	Serial No.	Weight	R.P.M.	Fe. Drilled	Hrs.	Feet Beamed	Hrs.	CONDITION	
MUD										At Survey Degree	MOTOR HOURS	Heat Oil Change
WEIGHT												
VISCOSITY												
GEL												
PUMPS												
No. 1												
No. 2												
General												
W.L.												
F.C.												
pH												

SAFETY TALK ON USE OF CHEMICALS

PIPE SUNK @ STABILIZER 3278

TRY FOR BACK OFF @ 3363

REMARKS

47 RAN FREE P.I. INCLINATOR

TORQUE PUMP & RUN STRINGS

MIS RUN - RECOVER TOOLS

RUN SECOND STRING SHOT

BACH OFF @ FIRST D.C. ABOVE

STABILIZER

THAW OUT CATHEADS CONTROLS

HIST OUT PIPE TIGHT

UP LINE & THAW OUT AIR LINES

Year — 8 a.m. to 4 p.m.
Specify actual hours worked Hrs.
Driller D. Wright 12
Derrick R. K. K. K. 12
Floor M. M. M. M. 12
Motor R. M. M. M. 12
Mechanics
Extra B. B. B. B. 5
Injuries
Fire

From	Footage	To	Hrs. on Bottom	Wt. Drill String (1000 lbs.)	DRILL COLLARS	FUEL	WATER	COAL	Stands			
No.	Size	Type	Size Jct.	Serial No.	Weight	R.P.M.	Fe. Drilled	Hrs.	Feet Beamed	Hrs.	CONDITION	
MUD										At Survey Degree	MOTOR HOURS	Heat Oil Change
WEIGHT												
VISCOSITY												
GEL												
PUMPS												
No. 1												
No. 2												
General												
W.L.												
F.C.												
pH												

SAFETY TALK ON TONGE PAIL

REMARKS

HIST PIPE WET BLOCKS

pick up 4 D.C. & make

up jam

Year — 4 p.m. to Midnight
Specify actual hours worked Hrs.
Driller
Derrick
Floor
Floor
Motor
Mechanics
Extra
Injuries
Fire

From	Footage	To	Hrs. on Bottom	Wt. Drill String (1000 lbs.)	DRILL COLLARS	FUEL	WATER	COAL	Stands			
No.	Size	Type	Size Jct.	Serial No.	Weight	R.P.M.	Fe. Drilled	Hrs.	Feet Beamed	Hrs.	CONDITION	
MUD										At Survey Degree	MOTOR HOURS	Heat Oil Change
WEIGHT												
VISCOSITY												
GEL												
PUMPS												
No. 1												
No. 2												
General												
W.L.												
F.C.												
pH												

REMARKS

Rollers on Drills

Run in

WORK OVER FISH

JAR ON FISH

CAR WORK FISH

Totco Ring on Bit No. _____ D.P. Calipered Date _____ R. sigls _____ From Pipe Rack _____ Total Contractor Time _____ Hrs. _____ Toolpusher _____
B.O.P. Test-Operated _____ Time _____ Results _____ Total Company Time _____ Hrs. _____ Approved _____

KENTING OILWELL DRILLING

DIVISION OF KENTING EXPLORATION SERVICES LTD.

DAILY DRILLING REPORT

DAY WORK RECORD

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

RIG No. 35 LOCATION HORN RIVER S.R. ETAL C.R. MACKIN AREA DATE JAN 24 1971

Year — Midnight - 8 a.m.
Specify actual hours worked Hrs.

Driller **KANDERSON** 12
Derrick **J. SASHANK** 12
Floor **J. HARRER** 12
Floor
Motor **M. LARIVIERE** 12
Mechanics
Extra
Injuries
Press

From Footage To Hrs on Bottom Wt. Drill String (1000 lbs.) No. O.D. I.D. Wgt. DRILL COLLARS FUEL WATER COAL Stands
12 6' NOV 2-13 17842 16 4 2 24 47 467.21 3.90 2.98 3461

MUD WEIGHT VISCOSITY GEL
No. 1 Pres. 1000 P.M. 1000
No. 2 Pres. 1000 P.M. 1000
PUMPS
General **DISPLACED 16 P.B.L.**

W.L. F.C. pH

REMARKS
47 WORKPIPE (STUCK)
PUT ON KELLY HOSE CIRC
TO DISPLACE ACID TO SUMP
WORK STUCK PIPE
12 6 4
6 2
2

Company Time Cont's Time
7:00 H:00 3
11:00 H:00 5

Year — 8 a.m. to 4 p.m.
Specify actual hours worked Hrs.

Driller **David B. Green** 12
Derrick **John B. Green** 12
Floor **John B. Green** 12
Floor **John B. Green** 12
Motor **John B. Green** 12
Mechanics
Extra **Benny Paulsen** 12
Injuries
Press

From Footage To Hrs on Bottom Wt. Drill String (1000 lbs.) No. O.D. I.D. Wgt. DRILL COLLARS FUEL WATER COAL Stands
12 6' NOV 2-13 17842 16 4 2 24 47 467.21 3.90 2.98 3461

MUD WEIGHT VISCOSITY GEL
No. 1 Pres. 1000 P.M. 1000
No. 2 Pres. 1000 P.M. 1000
PUMPS
General **SAFETY TALK ON HAND TOOLS**

W.L. F.C. pH

REMARKS
Work pipe again stuck
repair Rotary
7:00 H:00 3
11:00 H:00 5

Company Time Cont's Time
7:00 H:00 3
11:00 H:00 5

Year — 4 p.m. to Midnight
Specify actual hours worked Hrs.

Driller
Derrick
Floor
Floor
Motor
Mechanics
Extra
Injuries
Press

From Footage To Hrs on Bottom Wt. Drill String (1000 lbs.) No. O.D. I.D. Wgt. DRILL COLLARS FUEL WATER COAL Stands
12 6' NOV 2-13 17842 16 4 2 24 47 467.21 3.90 2.98 3461

MUD WEIGHT VISCOSITY GEL
No. 1 Pres. 1000 P.M. 1000
No. 2 Pres. 1000 P.M. 1000
PUMPS
General

W.L. F.C. pH

REMARKS
REPAIR ROTARY CLUTCH
7:00 H:00 3
11:00 H:00 5

Company Time Cont's Time
7:00 H:00 3
11:00 H:00 5

Totco Ring on Bit No.

J.P. Caliper Date

Results

From Pipe Rack

Total Contractor Time

Hrs.

Toolpusher

B.O.P. Test-Operated

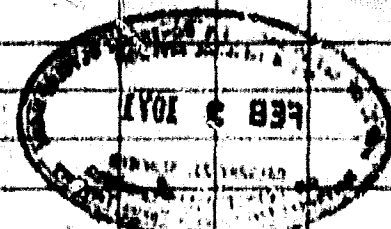
Time

Results

Total Company Time

Hrs.

Approved by



KENTING OILWELL DRILLING

DIVISION OF KENTING EXPLORATION SERVICES LTD.

DAILY DRILLING REPORT

DAY WORK RECORD

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

RIG No. 35 LOCATION Abu Bakr DATE Nov 22, 1971

Time — Midnight - 8 a.m.

Specify actual hours worked

Driller A. Anderson Hrs. 12

Derrick F. S. S. H. H. Hrs. 12

Floor J. H. R. D. E. B. Hrs. 12

Floor M. A. B. R. I. E. N. Hrs. 12

Mechanics

Extra

Injuries

Fire

From 3450 To 4100 Footage 650

Drill String (1000 lbs.) No. 16 OD 4 1/2 ID 2 Wgt. 16

DRILL COLLARS No. 16 OD 4 1/2 ID 2 Wgt. 16

FUEL Gals. 1 WATER Bbls. 1 COAL Tons. 1

Standards 47 Singles 1

CONDITION 16721 D. Collars 16721 Other 1

At Survey Degree 1 MOTOR HOURS 1 Heat Oil Change 1

Sub. Ft. 1 Ft. Up On Kelly 1 TOTAL 3526

Slip 1 Post 1 Cut 1 Foot Left on Spool 1 Next Slip 1

General SAFETY TALK ON SAFETY WEARING EQUIPMENT

REMARKS	Start	Stop	Interval
<u>CUT CORE #1</u>	<u>12:00</u>	<u>12:45</u>	<u>45</u>
<u>TIGHTEN LINER HANGER</u>	<u>12:45</u>	<u>1:15</u>	<u>30</u>
<u>CORE</u>	<u>1:15</u>	<u>1:45</u>	<u>30</u>

Time — 8 a.m. to 4 p.m.

Specify actual hours worked

Driller W. A. Green Hrs. 12

Derrick W. A. Green Hrs. 11

Floor M. A. B. R. I. E. N. Hrs. 12

Floor M. A. B. R. I. E. N. Hrs. 12

Mechanics

Extra B. A. R. Y. P. A. U. L. E. R. Hrs. 8

Injuries

Fire

From 3450 To 4100 Footage 650

Drill String (1000 lbs.) No. 16 OD 4 1/2 ID 2 Wgt. 16

DRILL COLLARS No. 16 OD 4 1/2 ID 2 Wgt. 16

FUEL Gals. 1 WATER Bbls. 1 COAL Tons. 1

Standards 47 Singles 1

CONDITION 16721 D. Collars 16721 Other 1

At Survey Degree 1 MOTOR HOURS 1 Heat Oil Change 1

Sub. Ft. 1 Ft. Up On Kelly 1 TOTAL 3450

Slip 1 Post 1 Cut 1 Foot Left on Spool 1 Next Slip 1

General WALKING IN FRONT OF POP VALVE BARROCK LINE

Company Time	Cont's Time
<u>Blow Kelly & Ric Service</u>	<u>8:00</u>
<u>Pull Core #1</u>	<u>8:30</u>
<u>Recover Core #1</u>	<u>10:45</u>
<u>Wait on Order</u>	<u>12:00</u>
<u>Service on Bble & Lay Down</u>	<u>2:30</u>
<u>Run in bit 72</u>	<u>3:45</u>
<u>Break Circ</u>	<u>6:30</u>
<u>Work on Pump</u>	<u>6:45</u>
<u>Run to Bottom</u>	<u>7:30</u>
<u>Work on Rotary Clutch</u>	<u>8:10</u>

Time — 4 p.m. to Midnight

Specify actual hours worked

Driller B. A. L. E. M. A. H. Hrs. 12

Derrick

Floor

Floor

Floor

Mechanics

Extra

Injuries

Fire

From 4100 To 4100 Footage 0

Drill String (1000 lbs.) No. 16 OD 4 1/2 ID 2 Wgt. 16

DRILL COLLARS No. 16 OD 4 1/2 ID 2 Wgt. 16

FUEL Gals. 1 WATER Bbls. 1 COAL Tons. 1

Standards 47 Singles 1

CONDITION 16721 D. Collars 16721 Other 1

At Survey Degree 1 MOTOR HOURS 1 Heat Oil Change 1

Sub. Ft. 1 Ft. Up On Kelly 1 TOTAL 3450

Slip 1 Post 1 Cut 1 Foot Left on Spool 1 Next Slip 1

General

Company Time	Cont's Time
<u>Work on Rotary Clutch</u>	<u>8:10</u>

Totco Ring on Bit No.

D.P. Camped On

Results

From Pipe Rack

Total Contractor Time

Mrs.

Toolpusher

B.O.P. Test-Operated

Time

Results

Total Company Time

Mrs.

Approved by

KENTING OILWELL DRILLING

DIVISION OF KENTING EXPLORATION SERVICES LTD.

DAILY DRILLING REPORT

DAY WORK RECORD

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

RIG No. 35 LOCATION HORN RIVER RETAIL COMMACK AREA CUSA DATE AN 21 1971

Hour — Midnight - 8 a.m.		From	Footage	To	Mts. on Bottom	Wt. Drill String (1000 lbs.)	DRILL COLLARS	FUEL	WATER	COAL	Stand
Specify actual hours worked		3443	7	3450	1	50	1 1/2				47
Driller	KANDERSON										
Derrick	F. SASHUK										
Floor											
Floor	J. HARDER										
Floor											
Motor	M. LARIVIERE										
Mechanics											
Extra											
Injuries											
First											

REMARKS	Start	Time	Interval
CIRC SAMPLE	12:00	12:30	1/2
DRILL	12:30	1:30	1
CIRC SAMPLE	1:30	2:00	1/2
CIRC WAIT ON OBB	2:00	2:30	5
HOIST STRAP	2:30	3:00	5

Hour — 8 a.m. to 4 p.m.		From	Footage	To	Mts. on Bottom	Wt. Drill String (1000 lbs.)	DRILL COLLARS	FUEL	WATER	COAL	Stand
Specify actual hours worked		3450	12	3462	2	60	1 1/2				47
Driller	D. GREEN										
Derrick	W. KUMBERG										
Floor											
Floor	M. MUKHUMBAR										
Floor											
Motor	B. MUKHUMBAR										
Mechanics											
Extra	B. PRINCE										
Injuries											
First											

REMARKS	Start	Time	Interval
TRIP OUT TO CORE STAND	8:00	10:00	2
SLIP 17" D. CUT 68"	10:00	10:30	1/2
WAIT ON CORE BBL	10:30	11:00	5/8
RAN NEW 14" CHECK, DISCOVERED			
SURVEYS @ 10" D.W.F.			

Hour — 4 p.m. to Midnight		From	Footage	To	Mts. on Bottom	Wt. Drill String (1000 lbs.)	DRILL COLLARS	FUEL	WATER	COAL	Stand
Specify actual hours worked		3462	17	3479	2	60	1 1/2				47
Driller	T. ANDERSON										
Derrick	F. SASHUK										
Floor											
Floor	J. HARDER										
Floor											
Motor	M. LARIVIERE										
Mechanics											
Extra											
Injuries											
First											

REMARKS	Start	Time	Interval
UNLOAD CORE BBL PICKUP	4:00	5:30	1 1/2
RUN IN	5:30	6:00	1/2
WORK ON AIR LINES	6:00	6:45	3/4
RUN IN	6:45	8:45	2
CIRC CORE BBL TO CORE	8:45	10:00	1 1/4
STOP	10:00	10:30	2

Total Ring on Bit No.	D.P. <u>35</u> Date <u>AN 21 1971</u>	Results	From Pipe Rack	Total Contractor Time	Mrs.	Toolpusher <u>John Forsyth</u>
B.O.P. Test Operated		Results		Total Company Time	Mrs.	Approved by

KENTING OILWELL DRILLING

DIVISION OF KENTING EXPLORATION SERVICES LTD.

DAILY DRILLING REPORT

DAY WORK RECORD

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

RIG No. **35** LOCATION **HEARN RIVER SRET R. CUMMACK AREA** DATE **JUN 20 1971**

Tool — Midnight - 8 a.m.		From	Footage	To	Mts. on Bottom	Wt. Drill String (1000 lbs.)	DRILL COLLARS			FUEL	WATER	COAL	Standby
Specify actual hours worked							No.	OD	ID	Wgt.	Gals.	Bbls.	Tons
Driller	K. ANDERSON	3245	40	3285	3 1/2	60	16	4 1/2	2				45
Derrick	F. SACHUK												
Floor													
Floor	HARDER												
Floor													
Motor	M. LARIVIERE												
Mechanics													
Extra													
Injuries													
Notes													

Tool — 8 a.m. to 4 p.m.		From	Footage	To	Mts. on Bottom	Wt. Drill String (1000 lbs.)	DRILL COLLARS			FUEL	WATER	COAL	Standby
Specify actual hours worked							No.	OD	ID	Wgt.	Gals.	Bbls.	Tons
Driller	D. ANDERSON	3285	60	3345	5 1/4	60	16	4 1/2	2				46
Derrick	W. ANDERSON												
Floor	W. ANDERSON												
Floor													
Motor	R. ANDERSON												
Mechanics													
Extra	B. ANDERSON												
Injuries													
Notes													

Tool — 4 p.m. to Midnight		From	Footage	To	Mts. on Bottom	Wt. Drill String (1000 lbs.)	DRILL COLLARS			FUEL	WATER	COAL	Standby
Specify actual hours worked							No.	OD	ID	Wgt.	Gals.	Bbls.	Tons
Driller	K. ANDERSON	3285	98	3443	7 1/2	60	16	4 1/2	2				47
Derrick	F. SACHUK												
Floor													
Floor	HARDER												
Floor													
Motor	M. LARIVIERE												
Mechanics													
Extra													
Injuries													
Notes													

REMARKS	Start	Time	Interval
Big SER	12:00	12:15	1/4
DRILL	12:15	12:30	1/4
SURVEY	12:30	12:45	1/4
DRILL	12:45	1:00	1/4
SURVEY BLANKET	1:00	1:15	1/4
TRI-FAN BIT	1:15	1:30	1/4
8			
run in bit 20'	7:00	7:30	1/4
ream 30' to bottom	7:30	10:15	1/4
Drill	10:15	11:00	1/4
clean out Flow Line	11:00	11:15	1/4
Drill	11:15	3:00	3 1/4
Survey	3:00	3:15	1/4
Drill	3:15	4:00	3/4
Drill	4:00	7:45	3 1/4
Survey	7:45	8:15	1/2
DRILL	8:15	12:00	3 1/4
8			

Totco Ring on Bit No.	D.P. Caliper Date	Results	From Pipe Rack	Total Contractor Time	Mrs.	Inspusher
B.O.P. Test-Operated	Time	Result		Total Company Time	Mrs.	Approved by

KENTING OILWELL DRILLING

DIVISION OF KENTING EXPLORATION SERVICES LTD.

DAILY DRILLING REPORT

DAY WORK RECORD

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

RIG No. 35 LOCATION HORN RIVER COARMACK H C 65A AREA

DATE 5/19/1971

Tour — Midnight - 8 a.m.		From Footage To										Hrs. on Bottom		Wt. Drill String (1000 lbs.)		DRILL COLLARS		FUEL		WATER		COAL		REMARKS		Start Time		Stop Time		Interval							
Specify actual hours worked		Hrs.		No.		Size		Type		Size Jct.		Serial No.		Weight		R.P.M.		Ft. Drilled		Hrs.		Feet Reamed		Hrs.		CONDITION		C.B. Ft.		D. Collars		Other Ft.					
Driller	G. K. KIMMER	8																																			
Derrick	F. FRASER	8																																			
Floor	M. NIKIFORUK	8																																			
MUD WEIGHT		12 Mo		2 a.m.		4 a.m.		6 a.m.		Additives		At Surface Degree		MOTOR HOURS		Hrs. On Change		C.B. Ft.		D. Collars		Other Ft.		TOTAL		Neat Slip											
MUD VISCOSITY		95		94		93		92		GRA 2000 H		At Surface Degree		MOTOR HOURS		Hrs. On Change		C.B. Ft.		D. Collars		Other Ft.		TOTAL		Neat Slip											
MUD GEL		46		47		50		49		GRINEX 8% K		At Surface Degree		MOTOR HOURS		Hrs. On Change		C.B. Ft.		D. Collars		Other Ft.		TOTAL		Neat Slip											
PUMPS		No. 1		Pro. Turb		S.P.M.		Liner Size		Liner Size		No. 2		Pro. Turb		S.P.M.		Liner Size		Liner Size		No. 3		Pro. Turb		S.P.M.		Liner Size		Liner Size		No. 4		Pro. Turb		S.P.M.	
W.L.		F.C.		pH																																	
Driller	A. ANDERSON	8																																			
Derrick	E. SASHUK	8																																			
Floor	J. HARDER	8																																			
MUD WEIGHT		95		94		93		92		GRA 2000 H		At Surface Degree		MOTOR HOURS		Hrs. On Change		C.B. Ft.		D. Collars		Other Ft.		TOTAL		Neat Slip											
MUD VISCOSITY		46		47		50		49		GRINEX 8% K		At Surface Degree		MOTOR HOURS		Hrs. On Change		C.B. Ft.		D. Collars		Other Ft.		TOTAL		Neat Slip											
MUD GEL		46		47		50		49		GRINEX 8% K		At Surface Degree		MOTOR HOURS		Hrs. On Change		C.B. Ft.		D. Collars		Other Ft.		TOTAL		Neat Slip											
PUMPS		No. 1		Pro. Turb		S.P.M.		Liner Size		Liner Size		No. 2		Pro. Turb		S.P.M.		Liner Size		Liner Size		No. 3		Pro. Turb		S.P.M.		Liner Size		Liner Size		No. 4		Pro. Turb		S.P.M.	
W.L.		F.C.		pH																																	
Driller	D. NIGHTGERAN	8																																			
Derrick	W. NUBAMBURG	8																																			
Floor	M. MUSAUMASHI	8																																			
MUD WEIGHT		92		92		92		92		GRA 2000 H		At Surface Degree		MOTOR HOURS		Hrs. On Change		C.B. Ft.		D. Collars		Other Ft.		TOTAL		Neat Slip											
MUD VISCOSITY		70		60		55		55		GRA 2000 H		At Surface Degree		MOTOR HOURS		Hrs. On Change		C.B. Ft.		D. Collars		Other Ft.		TOTAL		Neat Slip											
MUD GEL		46		47		50		49		GRINEX 8% K		At Surface Degree		MOTOR HOURS		Hrs. On Change		C.B. Ft.		D. Collars		Other Ft.		TOTAL		Neat Slip											
PUMPS		No. 1		Pro. Turb		S.P.M.		Liner Size		Liner Size		No. 2		Pro. Turb		S.P.M.		Liner Size		Liner Size		No. 3		Pro. Turb		S.P.M.		Liner Size		Liner Size		No. 4		Pro. Turb		S.P.M.	
W.L.		F.C.		pH																																	

Totco Ring on Bit No. D.P. Calipered Date Results From Pip
 B.O.P. Test-Operated Time Results
 Total Contractor Time Hrs. Toolpusher
 Total Company Time Hrs. Approved by

DIVISION OF KENTING EXPLORATION SERVICES LTD

DAY WORK RECORD

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

RIG No. 55 LOCATION HORN RIVER SR. F. A. SUMNER L.B. AREA Channel 1 DATE Jan 18 1971

REMARKS

	REMARKS	Time		
		Start	Stop	Interval
Pick Surveyor		12.00	12.15	1/4
Dance 64 hrs		12.15	1.00	1 1/2
Lunch at DAD		1.40	6.15	4 1/2
Dance		8.15	7.30	3/4
Survey		7.30	7.30	1/2
Dance		7.30	9.00	1 1/2
Campfire Time				
Capt's Time				

Tour — 8 a.m. to 4 p.m.

Company Time	Country Time
DRINK	8 ⁰⁰ 10 ¹⁵ 3 ¹⁴
RIG E.P.C. & BOYS	10 ¹⁰ 10 ⁵⁰ 1 ¹⁴
DRINK	10 ³⁰ 10 ⁵⁰ 2 ¹²
REPAIR ROTARY DRILLS	11 ⁰⁰ 1 ³⁰ 1 ¹²
DRINK	1 ³⁰ 4 ⁰⁰ 2 ¹²
	8

Yow - 4 p.m. to Midnite

Security system hasn't worked

Company Time	Cont's Time		
Drill	4.00	4.30	1/2
Rig. Serv. & Runway	4.30	5.00	1/2
Drill	5.00	7 1/3	2 3/4
Blow Kelly & Drop Runway	7.45	8.15	1/2
trip for bit	8.15	10.20	2 1/4
replace Boring Rotary Drive	10.30	12.00	1 1/2

Totco Ring on Bit No.

D.P. Calipered Date

Results

from Pipe Rock

Total Contractor TimeH₂O

Toolpusher

B.O.P. Test-Operated

Time

Results

Total Company Time

44. H. 1.

Approved by _____

KENTING OILWELL DRILLING

DIVISION OF KENTING EXPLORATION SERVICES LTD.

DAILY DRILLING REPORT

DAY WORK RECORD

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

RIG No. **35** LOCATION **North River Sub F.A. Campbell C-50** AREA **Barren** DATE **Jan 17 1951**

Tour — Midnight - 8 a.m.
Specify actual hours worked

Driller **C. L. KOLINER** Hrs. **8**
Derrick **F. FARRER** Hrs. **8**
Floor **M. NIKIFORIK** Hrs. **8**
Floor
Floor
Motor **B. BRIDGEMAN** Hrs. **8**
Mechanics
Extra
Injuries: **NIL**
Fire: **NIL**

From	Footage	To	Hrs. on Bottom	Wt. Drill String (1000 lbs)	DRILL COLLARS	FUEL	WATER	COAL	Slips
No.	Size	Type	Size Jct.	Serial No.	Weight	R.P.M.	Ft. Drilled	Hrs.	Foot Reamed
1	6 1/4	ST	3-12	863731	15	150	36	3	1

MUD WEIGHT **9.5** VISCOSITY **49** GEL **100** ADDITIVES **GEL - 2000, WATER - 30, GEL - 150, WATER - 300**

PUMPS No. 1 **64** No. 2 **64** No. 3 **64** No. 4 **64**

At Surveys Degree **2811** MOTOR HOURS **156** Heat Oil Change **2.98**

Slips **37** Single **1** Other **0** Total **37**

Slip **37** Post **0** Cut **0** Foot Left on Rack **0** Next Slip **0**

REMARKS	Start	Time Stop	Interval
Done 6 1/4 Hole	12.00	12.00	0
Survey & Ream	12.00	1.00	1
Rin. Service	1.00	1.15	15
Done	1.15	2.00	45
Survey	2.00	4.00	2
Done	4.00	7.40	3
Survey	7.40	8.00	20

Tour — 8 a.m. to 4 p.m.
Specify actual hours worked

Driller **K. ANDERSON** Hrs. **8**
Derrick **F. FARRER** Hrs. **8**
Floor **J. HARDER** Hrs. **8**
Floor
Floor
Motor **M.** Hrs. **8**
Mechanics
Extra
Injuries: **NIL**
Fire: **NIL**

From	Footage	To	Hrs. on Bottom	Wt. Drill String (1000 lbs)	DRILL COLLARS	FUEL	WATER	COAL	Slips
No.	Size	Type	Size Jct.	Serial No.	Weight	R.P.M.	Ft. Drilled	Hrs.	Foot Reamed
1	6 1/4	ST	3-12	223558	15	150	36	3	1

MUD WEIGHT **9.4** VISCOSITY **50** GEL **100** ADDITIVES **GEL - 900, WATER - 100, WATER**

PUMPS No. 1 **64** No. 2 **64** No. 3 **64** No. 4 **64**

At Surveys Degree **2873** MOTOR HOURS **156** Heat Oil Change **2.98**

Slips **38** Single **1** Other **0** Total **38**

Slip **38** Post **0** Cut **0** Foot Left on Rack **0** Next Slip **0**

REMARKS	Start	Time Stop	Interval
Rig Set & B.P.	8.00	8.15	15
Drill	8.15	8.25	10
Survey	8.25	8.30	5
TRIP OUT	8.30	8.40	10

Tour — 4 p.m. to Midnight
Specify actual hours worked

Driller **A. Green** Hrs. **8**
Derrick **W. H. Thompson** Hrs. **8**
Floor **W. H. Thompson** Hrs. **8**
Floor
Floor
Motor **W. H. Thompson** Hrs. **8**
Mechanics
Extra
Injuries: **NIL**
Fire: **NIL**

From	Footage	To	Hrs. on Bottom	Wt. Drill String (1000 lbs)	DRILL COLLARS	FUEL	WATER	COAL	Slips
No.	Size	Type	Size Jct.	Serial No.	Weight	R.P.M.	Ft. Drilled	Hrs.	Foot Reamed
1	6 1/4	ST	3-12	863731	15	150	36	3	1

MUD WEIGHT **9.5** VISCOSITY **50** GEL **100** ADDITIVES **GEL - 900, WATER - 100, WATER**

PUMPS No. 1 **64** No. 2 **64** No. 3 **64** No. 4 **64**

At Surveys Degree **2930** MOTOR HOURS **164** Heat Oil Change **2.98**

Slips **39** Single **1** Other **0** Total **39**

Slip **39** Post **0** Cut **0** Foot Left on Rack **0** Next Slip **0**

REMARKS	Start	Time Stop	Interval
trip for 6 1/4	4.00	5.15	1 1/4
run in 2 1/2	5.15	6.00	45
run in bit	6.00	7.15	1 1/4
blow Kelly & Break Circ.	7.15	8.30	1 15
Drill	8.30	11.30	3
Survey 2966	11.30	12.01	1/2

Totco Ring on Bit No. **15** D.P. Compared Date **1/17/51** Results **OK** From Pipe Rack **10:30**

B.O.P. Test-Operated **1/17/51** Time **10:30** Results **OK**

Total Contractor Time **8** Hrs. Total Company Time **8** Hrs. Testpusher **W. H. Thompson** Approved by **W. H. Thompson**

KENTING OILWELL DRILLING

DIVISION OF KENTING EXPLORATION SERVICES LTD.

DAILY DRILLING REPORT

DAY WORK RECORD

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

RIG No. 35... LOCATION *W. River S. E. R. C. AREA G. M. N. C. L.* DATE *JAN 16 1951*

Year — Midnight 8 a.m.		From		Footage		To		Hrs. on Bottom		WT. Drill String (1000 lbs.)		DRILL COLLARS		FUEL		WATER		COAL		Standards	
Specify actual hours worked		Hrs.		2789		27		2755		2 49		16 44 2 25								Singles	
Driller <i>G. L. KOLLNER</i>		8		No.		Size		Type		Size Jaws		Serial No.		Weight		R.P.M.		Ft. Drilled		Hrs.	
Derrick <i>E. FANSEN</i>		8		6		5 1/2		OWU		3-12		20080		7		150		29		2	
Floor <i>M. WILKINSON</i>		8		PUMPS		No. 1		Dial		No. 2		Dial		No. 3		Dial		No. 4		Dial	
Floor				MUD		12 Ma.		12 Ma.		12 Ma.		12 Ma.		Additives		At Surface Degree		MOTOR HOURS		Hrs. on Change	
Floor				WEIGHT		96		100		46		100		46		100		46		100	
Motor <i>B. BENDREED</i>		8		VISCOSITY		46		100		46		100		46		100		46		100	
Mechanics				GEL		300		60		300		60		300		60		300		60	
Extra				PUMPS		No. 1		Dial		No. 2		Dial		No. 3		Dial		No. 4		Dial	
Injuries: <i>Nil</i>				PUMPS		No. 1		Dial		No. 2		Dial		No. 3		Dial		No. 4		Dial	
First: <i>Nil</i>				PUMPS		No. 1		Dial		No. 2		Dial		No. 3		Dial		No. 4		Dial	

REMARKS		Start	Stop	Interval
<i>THROW OUT SPINDLE 1/2"</i>		12:00	4:00	4
<i>RUN IN. HING</i>		4:00	5:00	1 1/4
<i>HOW ON HING HING, R. H. HING. R. H. HING. R. H. HING.</i>		5:00	6:00	3 1/4
<i>DRILL 2 1/2" HING</i>		6:00	9:00	2

Year — 8 a.m. to 4 p.m.		From		Footage		To		Hrs. on Bottom		WT. Drill String (1000 lbs.)		DRILL COLLARS		FUEL		WATER		COAL		Standards	
Specify actual hours worked		Hrs.		2755		35		2790		4 1/2		55		1 1/4						Singles	
Driller <i>K. ANDERSON</i>		8		No.		Size		Type		Size Jaws		Serial No.		Weight		R.P.M.		Ft. Drilled		Hrs.	
Derrick <i>F. GASHUK</i>		8		6		5 1/2		OWU		3-12		20080		7		150		62		1 1/4	
Floor <i>J. HARPER</i>		8		PUMPS		No. 1		Dial		No. 2		Dial		No. 3		Dial		No. 4		Dial	
Floor				MUD		12 Ma.		12 Ma.		12 Ma.		12 Ma.		Additives		At Surface Degree		MOTOR HOURS		Hrs. on Change	
Floor				WEIGHT		95		90		95		95		46		100		46		100	
Motor <i>M. LARIVIERE</i>		8		VISCOSITY		5		250		45		45		2790		7					
Mechanics				GEL		300		60		300		60		300		60		300		60	
Extra				PUMPS		No. 1		Dial		No. 2		Dial		No. 3		Dial		No. 4		Dial	
Injuries: <i>Nil</i>				PUMPS		No. 1		Dial		No. 2		Dial		No. 3		Dial		No. 4		Dial	
First: <i>Nil</i>				PUMPS		No. 1		Dial		No. 2		Dial		No. 3		Dial		No. 4		Dial	

REMARKS		Start	Stop	Interval
<i>RIGGER</i>		8:00	8:15	1 1/4
<i>DRILL</i>		8:15	10:00	1 1/4
<i>STRING NEW SAND LINE</i>		10:00	12:00	2 1/2
<i>DRILL</i>		12:00	1:15	1 1/4
<i>SURVEY TWICE CLEARANCE</i>		1:15	3:00	1 1/4
<i>DRILL</i>		3:00	4:00	1

Year — 4 p.m. to Midnight		From		Footage		To		Hrs. on Bottom		WT. Drill String (1000 lbs.)		DRILL COLLARS		FUEL		WATER		COAL		Standards	
Specify actual hours worked		Hrs.		2790		5		2796		1/2		55		16		44		2		Singles	
Driller <i>W. B. B. B. B.</i>		8		No.		Size		Type		Size Jaws		Serial No.		Weight		R.P.M.		Ft. Drilled		Hrs.	
Derrick <i>W. B. B. B. B.</i>		8		6		5 1/2		OWU		3-12		20080		7		150		65		7	
Floor <i>W. B. B. B. B.</i>		8		PUMPS		No. 1		Dial		No. 2		Dial		No. 3		Dial		No. 4		Dial	
Floor				MUD		12 Ma.		12 Ma.		12 Ma.		12 Ma.		Additives		At Surface Degree		MOTOR HOURS		Hrs. on Change	
Floor				WEIGHT		2600		3		198		147		46		100		46		100	
Motor <i>W. B. B. B. B.</i>		8		VISCOSITY		46		100		46		100		46		100		46		100	
Mechanics				GEL		300		60		300		60		300		60		300		60	
Extra				PUMPS		No. 1		Dial		No. 2		Dial		No. 3		Dial		No. 4		Dial	
Injuries: <i>Nil</i>				PUMPS		No. 1		Dial		No. 2		Dial		No. 3		Dial		No. 4		Dial	
First: <i>Nil</i>				PUMPS		No. 1		Dial		No. 2		Dial		No. 3		Dial		No. 4		Dial	

REMARKS		Start	Stop	Interval
<i>DRILL</i>		4:00	4:30	1/2
<i>Drop Survey & Blow Kelly</i>		4:30	5:00	1/2
<i>Trip for bit 6</i>		5:00	7:30	2 1/2
<i>sub in bit 7</i>		7:30	9:30	2
<i>Blow Kelly & Break Circ</i>		9:30	10:00	1/2
<i>Ream H. H. H. to bottom</i>		10:00	12:00	2

Total Ring on Bit No.	D.P. Calipered Data	Results	From Pipe Rack	Total Contractor Time	Hrs.	Toolpusher
B.O.P. Test-Operated	Time	Results		Total Company Time	Hrs.	Approved by

KENTING OILWELL DRILLING

DIVISION OF KENTING EXPLORATION SERVICES LTD.

DAILY DRILLING REPORT

DAY WORK RECORD

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

RIG No. 35 LOCATION Area: Queen St. E. At Cornwell L. C. 55 AREA Cornwell L. C. 55 DATE JAN 15 1991

Hour — Midnight — 8 a.m.		From	Footage	To	Hrs. on Bottom	Wt. Drill String (1000 lbs.)	DRILL COLLARS			FUEL	WATER	COAL	Stands
Specify actual hours worked		No.	Size	Type	Size Jct.	Serial No.	Weight	R.P.M.	Fe. Drilled	Hrs.	Feet Reamed	Hrs.	Feet
Driller	<u>E. L. KRAMER</u>	<u>5</u>	<u>6 1/2</u>	<u>YSI</u>	<u>3-12</u>	<u>989038</u>	<u>30</u>	<u>100</u>	<u>101</u>	<u>5' 5"</u>			<u>12</u>
Drillbit	<u>E. F. FARRAR</u>	<u>5</u>	<u>6 1/2</u>	<u>YSI</u>	<u>3-12</u>	<u>989038</u>	<u>30</u>	<u>100</u>	<u>101</u>	<u>5' 5"</u>			<u>12</u>
Motor	<u>M. W. WARD</u>	<u>5</u>	<u>6 1/2</u>	<u>YSI</u>	<u>3-12</u>	<u>989038</u>	<u>30</u>	<u>100</u>	<u>101</u>	<u>5' 5"</u>			<u>12</u>
MUD		12 Mo.	2 a.m.	4 a.m.	Additives		At Surveys Degree		MOTOR HOURS		Feet Drilled		Feet
WEIGHT		<u>92.93</u>	<u>93</u>	<u>93</u>	<u>CEL-1000</u>				<u>100</u>		<u>100</u>		<u>100</u>
VISCOSITY		<u>33.70</u>	<u>33</u>	<u>33</u>	<u>CEL-1000</u>				<u>100</u>		<u>100</u>		<u>100</u>
GEL		<u>1.0</u>	<u>1.0</u>	<u>1.0</u>	<u>CEL-1000</u>				<u>100</u>		<u>100</u>		<u>100</u>
PUMPS		No. 1	Feet	Feet	No. 2		Feet		Feet		Feet		Feet
Model		<u>5</u>	<u>100</u>	<u>100</u>	Model		<u>5</u>		<u>100</u>		<u>100</u>		<u>100</u>
No. 2		<u>5</u>	<u>100</u>	<u>100</u>	No. 3		<u>5</u>		<u>100</u>		<u>100</u>		<u>100</u>
Model		<u>5</u>	<u>100</u>	<u>100</u>	Model		<u>5</u>		<u>100</u>		<u>100</u>		<u>100</u>
No. 3		<u>5</u>	<u>100</u>	<u>100</u>	No. 4		<u>5</u>		<u>100</u>		<u>100</u>		<u>100</u>
Model		<u>5</u>	<u>100</u>	<u>100</u>	Model		<u>5</u>		<u>100</u>		<u>100</u>		<u>100</u>
No. 4		<u>5</u>	<u>100</u>	<u>100</u>	No. 5		<u>5</u>		<u>100</u>		<u>100</u>		<u>100</u>
Model		<u>5</u>	<u>100</u>	<u>100</u>	Model		<u>5</u>		<u>100</u>		<u>100</u>		<u>100</u>
No. 5		<u>5</u>	<u>100</u>	<u>100</u>	No. 6		<u>5</u>		<u>100</u>		<u>100</u>		<u>100</u>
Model		<u>5</u>	<u>100</u>	<u>100</u>	Model		<u>5</u>		<u>100</u>		<u>100</u>		<u>100</u>
No. 6		<u>5</u>	<u>100</u>	<u>100</u>	No. 7		<u>5</u>		<u>100</u>		<u>100</u>		<u>100</u>
Model		<u>5</u>	<u>100</u>	<u>100</u>	Model		<u>5</u>		<u>100</u>		<u>100</u>		<u>100</u>
No. 7		<u>5</u>	<u>100</u>	<u>100</u>	No. 8		<u>5</u>		<u>100</u>		<u>100</u>		<u>100</u>
Model		<u>5</u>	<u>100</u>	<u>100</u>	Model		<u>5</u>		<u>100</u>		<u>100</u>		<u>100</u>
No. 8		<u>5</u>	<u>100</u>	<u>100</u>	No. 9		<u>5</u>		<u>100</u>		<u>100</u>		<u>100</u>
Model		<u>5</u>	<u>100</u>	<u>100</u>	Model		<u>5</u>		<u>100</u>		<u>100</u>		<u>100</u>
No. 9		<u>5</u>	<u>100</u>	<u>100</u>	No. 10		<u>5</u>		<u>100</u>		<u>100</u>		<u>100</u>
Model		<u>5</u>	<u>100</u>	<u>100</u>	Model		<u>5</u>		<u>100</u>		<u>100</u>		<u>100</u>
No. 10		<u>5</u>	<u>100</u>	<u>100</u>	No. 11		<u>5</u>		<u>100</u>		<u>100</u>		<u>100</u>
Model		<u>5</u>	<u>100</u>	<u>100</u>	Model		<u>5</u>		<u>100</u>		<u>100</u>		<u>100</u>
No. 11		<u>5</u>	<u>100</u>	<u>100</u>	No. 12		<u>5</u>		<u>100</u>		<u>100</u>		<u>100</u>
Model		<u>5</u>	<u>100</u>	<u>100</u>	Model		<u>5</u>		<u>100</u>		<u>100</u>		<u>100</u>
No. 12		<u>5</u>	<u>100</u>	<u>100</u>	No. 13		<u>5</u>		<u>100</u>		<u>100</u>		<u>100</u>
Model		<u>5</u>	<u>100</u>	<u>100</u>	Model		<u>5</u>		<u>100</u>		<u>100</u>		<u>100</u>
No. 13		<u>5</u>	<u>100</u>	<u>100</u>	No. 14		<u>5</u>		<u>100</u>		<u>100</u>		<u>100</u>
Model		<u>5</u>	<u>100</u>	<u>100</u>	Model		<u>5</u>		<u>100</u>		<u>100</u>		<u>100</u>
No. 14		<u>5</u>	<u>100</u>	<u>100</u>	No. 15		<u>5</u>		<u>100</u>		<u>100</u>		<u>100</u>
Model		<u>5</u>	<u>100</u>	<u>100</u>	Model		<u>5</u>		<u>100</u>		<u>100</u>		<u>100</u>
No. 15		<u>5</u>	<u>100</u>	<u>100</u>	No. 16		<u>5</u>		<u>100</u>		<u>100</u>		<u>100</u>
Model		<u>5</u>	<u>100</u>	<u>100</u>	Model		<u>5</u>		<u>100</u>		<u>100</u>		<u>100</u>
No. 16		<u>5</u>	<u>100</u>	<u>100</u>	No. 17		<u>5</u>		<u>100</u>		<u>100</u>		<u>100</u>
Model		<u>5</u>	<u>100</u>	<u>100</u>	Model		<u>5</u>		<u>100</u>		<u>100</u>		<u>100</u>
No. 17		<u>5</u>	<u>100</u>	<u>100</u>	No. 18		<u>5</u>		<u>100</u>		<u>100</u>		<u>100</u>
Model		<u>5</u>	<u>100</u>	<u>100</u>	Model		<u>5</u>		<u>100</u>		<u>100</u>		<u>100</u>
No. 18		<u>5</u>	<u>100</u>	<u>100</u>	No. 19		<u>5</u>		<u>100</u>		<u>100</u>		<u>100</u>
Model		<u>5</u>	<u>100</u>	<u>100</u>	Model		<u>5</u>		<u>100</u>		<u>100</u>		<u>100</u>
No. 19		<u>5</u>	<u>100</u>	<u>100</u>	No. 20		<u>5</u>		<u>100</u>		<u>100</u>		<u>100</u>
Model		<u>5</u>	<u>100</u>	<u>100</u>	Model		<u>5</u>		<u>100</u>		<u>100</u>		<u>100</u>
No. 20		<u>5</u>	<u>100</u>	<u>100</u>	No. 21		<u>5</u>		<u>100</u>		<u>100</u>		<u>100</u>
Model		<u>5</u>	<u>100</u>	<u>100</u>	Model		<u>5</u>		<u>100</u>		<u>100</u>		<u>100</u>
No. 21		<u>5</u>	<u>100</u>	<u>100</u>	No. 22		<u>5</u>		<u>100</u>		<u>100</u>		<u>100</u>
Model		<u>5</u>	<u>100</u>	<u>100</u>	Model		<u>5</u>		<u>100</u>		<u>100</u>		<u>100</u>
No. 22		<u>5</u>	<u>100</u>	<u>100</u>	No. 23		<u>5</u>		<u>100</u>		<u>100</u>		<u>100</u>
Model		<u>5</u>	<u>100</u>	<u>100</u>	Model		<u>5</u>		<u>100</u>		<u>100</u>		<u>100</u>
No. 23		<u>5</u>	<u>100</u>	<u>100</u>	No. 24		<u>5</u>		<u>100</u>		<u>100</u>		<u>100</u>
Model		<u>5</u>	<u>100</u>	<u>100</u>	Model		<u>5</u>		<u>100</u>		<u>100</u>		<u>100</u>
No. 24		<u>5</u>	<u>100</u>	<u>100</u>	No. 25		<u>5</u>		<u>100</u>		<u>100</u>		<u>100</u>
Model		<u>5</u>	<u>100</u>	<u>100</u>	Model		<u>5</u>		<u>100</u>		<u>100</u>		<u>100</u>
No. 25		<u>5</u>	<u>100</u>	<u>100</u>	No. 26		<u>5</u>		<u>100</u>		<u>100</u>		<u>100</u>
Model		<u>5</u>	<u>100</u>	<u>100</u>	Model		<u>5</u>		<u>100</u>		<u>100</u>		<u>100</u>
No. 26		<u>5</u>	<u>100</u>	<u>100</u>	No. 27		<u>5</u>		<u>100</u>		<u>100</u>		<u>100</u>
Model		<u>5</u>	<u>100</u>	<u>100</u>	Model		<u>5</u>		<u>100</u>		<u>100</u>		<u>100</u>
No. 27		<u>5</u>	<u>100</u>	<u>100</u>	No. 28		<u>5</u>		<u>100</u>		<u>100</u>		<u>100</u>
Model		<u>5</u>	<u>100</u>	<u>100</u>	Model		<u>5</u>		<u>100</u>		<u>100</u>		<u>100</u>
No. 28		<u>5</u>	<u>100</u>	<u>100</u>	No. 29		<u>5</u>		<u>100</u>		<u>100</u>		<u>100</u>
Model		<u>5</u>	<u>100</u>	<u>100</u>	Model		<u>5</u>		<u>100</u>		<u>100</u>		<u>100</u>
No. 29		<u>5</u>	<u>100</u>	<u>100</u>	No. 30		<u>5</u>		<u>100</u>		<u>100</u>		<u>100</u>
Model		<u>5</u>	<u>100</u>	<u>100</u>	Model		<u>5</u>		<u>100</u>		<u>100</u>		<u>100</u>
No. 30		<u>5</u>	<u>100</u>	<u>100</u>	No. 31		<u>5</u>		<u>100</u>		<u>100</u>		<u>100</u>
Model		<u>5</u>	<u>100</u>	<u>100</u>	Model		<u>5</u>		<u>100</u>		<u>100</u>		<u>100</u>
No. 31		<u>5</u>	<u>100</u>	<u>100</u>	No. 32		<u>5</u>		<u>100</u>		<u>100</u>		<u>100</u>
Model		<u>5</u>	<u>100</u>	<u>100</u>	Model		<u>5</u>		<u>100</u>		<u>100</u>		<u>100</u>
No. 32		<u>5</u>	<u>100</u>	<u>100</u>	No. 33		<u>5</u>		<u>100</u>		<u>100</u>		<u>100</u>
Model		<u>5</u>	<u>100</u>	<u>100</u>	Model		<u>5</u>		<u>100</u>		<u>100</u>		<u>100</u>
No. 33		<u>5</u>	<u>100</u>	<u>100</u>	No. 34		<u>5</u>		<u>100</u>		<u>100</u>		<u>100</u>
Model		<u>5</u>	<u>100</u>	<u>100</u>	Model		<u>5</u>		<u>100</u>		<u>100</u>		<u>100</u>
No. 34		<u>5</u>	<u>100</u>	<u>100</u>	No. 35		<u>5</u>		<u>100</u>		<u>100</u>		<u>100</u>
Model		<u>5</u>	<u>100</u>	<u>100</u>	Model		<u>5</u>		<u>100</u>		<u>100</u>		<u>100</u>
No. 35		<u>5</u>	<u>100</u>	<u>100</u>	No. 36		<u>5</u>		<u>100</u>		<u>100</u>		<u>100</u>
Model		<u>5</u>	<u>100</u>	<u>100</u>	Model		<u>5</u>		<u>100</u>		<u>100</u>		<u>100</u>
No. 36		<u>5</u>	<u>100</u>	<u>100</u>	No. 37		<u>5</u>		<u>100</u>		<u>100</u>		<u>100</u>
Model		<u>5</u>	<u>100</u>	<u>100</u>	Model		<u>5</u>		<u>100</u>		<u>100</u>		<u>100</u>
No. 37		<u>5</u>	<u>100</u>	<u>100</u>	No. 38		<u>5</u>		<u>100</u>		<u>100</u>		<u>100</u>
Model		<u>5</u>	<u>100</u>	<u>100</u>	Model		<u>5</u>		<u>100</u>		<u>100</u>		<u>100</u>
No. 38		<u>5</u>	<u>100</u>	<u>100</u>	No. 39		<u>5</u>		<u>100</u>		<u>100</u>		<u>100</u>
Model		<u>5</u>	<u>100</u>	<u>100</u>	Model		<u>5</u>		<u>100</u>		<u>100</u>		<u>100</u>
No. 39		<u>5</u>	<u>100</u>	<u>100</u>	No. 40		<u>5</u>		<u>100</u>		<u>100</u>		<u>100</u>
Model		<u>5</u>	<u>100</u>	<u>100</u>	Model		<u>5</u>		<u>100</u>		<u>100</u>		<u>100</u>
No. 40		<u>5</u>	<u>100</u>	<u>100</u>	No. 41		<u>5</u>		<u>100</u>		<u>100</u>		<u>100</u>
Model		<u>5</u>	<u>100</u>	<u>100</u>	Model		<u>5</u>		<u>100</u>		<u>100</u>		<u>100</u>
No. 41		<u>5</u>	<u>100</u>	<u>100</u>	No. 42		<u>5</u>		<u>100</u>		<u>100</u>		<u>100</u>
Model		<u>5</u>	<u>100</u>	<u>100</u>	Model		<u>5</u>		<u>100</u>		<u>100</u>		<u>100</u>
No. 42		<u>5</u>	<u>100</u>	<u>100</u>	No. 43		<u>5</u>		<u>100</u>		<u>100</u>		<u>100</u>
Model		<u>5</u>	<u>100</u>	<u>100</u>	Model		<u>5</u>		<u>100</u>		<u>100</u>		<u>100</u>
No. 43		<u>5</u>	<u>100</u>	<u>100</u>	No. 44		<u>5</u>		<u>100</u>		<u>100</u>		<u>100</u>
Model		<u>5</u>											

KENTING OILWELL DRILLING

DIVISION OF KENTING EXPLORATION SERVICES LTD.

DAILY DRILLING REPORT

DAY WORK RECORD

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

RIG No. 25 LOCATION How River, S.E. of M. L. L. 600 AREA, Canada DATE JUN 14, 1941

Hour — Midnight to 8 a.m.

Specify actual hours worked

Driller G. L. KENNEDY 8

Derrick F. FANER 8

Motor B. BENDERS 8

Mechanics

Extra

Injuries NIN

From 106 To 2469 Footage

Wt. Drill String (1000 lbs.) 3 1/4

DRILL COLLARS

FUEL

WATER

COAL

Stand 33

Condition

MUD

Wt. 9.4

Viscosity 35

GEL

ADDITIVES

At Surface Degree

MOTOR HOURS

Next Oil Change

Subs. Ft.

Up On Kelly

TOTAL

2469.45

PUMPS

No. 1

No. 2

No. 3

No. 4

No. 5

No. 6

No. 7

No. 8

No. 9

No. 10

No. 11

No. 12

No. 13

No. 14

No. 15

No. 16

No. 17

No. 18

No. 19

No. 20

No. 21

No. 22

No. 23

No. 24

No. 25

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No. 27

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No. 29

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No. 38

No. 39

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No. 70

No. 71

No. 72

No. 73

No. 74

No. 75

No. 76

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REMARKS

Start

Stop

Interval

12:00

12:10

1/10

12:10

12:20

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12:20

12:30

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12:40

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4:00

1/10

KENTING OILWELL DRILLING

DIVISION OF KENTING EXPLORATION SERVICES LTD.

DAILY DRILLING REPORT

DAY WORK RECORD

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

RIG No. 1 LOCATION: KENTING RIVER, S.E. of KENTING AREA: KENTING DATE: JUN 13, 1981

Hour — Midnight to 8 a.m.

Specify actual hours worked

Driller: C. L. KENNEDY

Derrick: F. FRANK

Floor: M. HARRIS

Floor:

Floor:

Motor: B. BENEFIELD

Mechanics:

Extra:

Injuries: Nil

Press: Nil

From	Footage	To	Mts. on Bottom	Wt. Drill String (1000 lbs.)	DRILL COLLARS	FUEL	WATER	COAL	Stands
No.	Size	Type	Size Jct.	Serial No.	Weight	R.P.M.	Feet Drilled	Mts. Foot Reamed	CONDITION
2002	70	21/2	5 1/2	11	11	11	11	11	11
2003	64	21/2	3 1/4	11	11	11	11	11	11

MUD	12 Mts.	2 a.m.	4 a.m.	6 a.m.	Additives	At Surface Degree	MOTOR HOURS	Heat Oil Change
WEIGHT	9.1	9.0	9.0	6.6	BENEX-1000	2109	4.4	1
VISCOSITY	42	35	35	36				2
GEL					1" STREAM H ₂ O			3

No. 1	1000	1000	1000	1000	Model	SP.M.	SP.M.	SP.M.	SP.M.
2002	200	200	200	200	200	200	200	200	200

Size	TRIPS	No. Lines	TON MILES	TOTAL MILES	Slip	Foot	Cut	Foot Left	Next Slip
200	1	1	1	1	1	1	1	1	1

REMARKS

Drill 1st 100 ft. 180 R.P.M. 1st 100 ft. 180 R.P.M.

Run Sand & Clay

Surveying Trench To Go To Bottom

Drill 1st 100 ft. 180 R.P.M. 1st 100 ft. 180 R.P.M.

Survey

Drill 1st 100 ft. 180 R.P.M. 1st 100 ft. 180 R.P.M.

Start	Stop	Interval
12:00	4:00	4
4:00	6:00	2
6:00	8:00	2
8:00	10:00	2
10:00	12:00	2

Hour — 8 a.m. to 4 p.m.

Specify actual hours worked

Driller: K. ANDERSON

Derrick: F. FRANK

Floor: B. BENEFIELD

Floor:

Floor:

Motor: M. LARIVIERE

Mechanics:

Extra:

Injuries: Nil

Press: Nil

From	Footage	To	Mts. on Bottom	Wt. Drill String (1000 lbs.)	DRILL COLLARS	FUEL	WATER	COAL	Stands
No.	Size	Type	Size Jct.	Serial No.	Weight	R.P.M.	Feet Drilled	Mts. Foot Reamed	CONDITION
2122	84	2306	3 3/4	44	18	4 1/2	205	13	22.65
2123	64	2306	3 1/4	44	18	4 1/2	205	13	22.65

MUD	8 a.m.	10 a.m.	12 noon	2 p.m.	Additives	At Surface Degree	MOTOR HOURS	Heat Oil Change
WEIGHT	4.5	4.7	4.7	4.7		22.6	4.4	1
VISCOSITY	43	47	47	47				2
GEL								3

No. 1	1000	1000	1000	1000	Model	SP.M.	SP.M.	SP.M.	SP.M.
2122	200	200	200	200	200	200	200	200	200

Size	TRIPS	No. Lines	TON MILES	TOTAL MILES	Slip	Foot	Cut	Foot Left	Next Slip
2122	1	1	1	1	1	1	1	1	1

REMARKS

Drill

Run Sand & Clay

Drill

CHECK VALVES 1200

Drill

Survey

TRIP FOR BIT

Unhook on Drive Chain

Drill

Company Time	Cont'r Time
8:00	8:45
8:45	9:00
9:00	9:30
9:30	9:45
9:45	12:15
12:15	12:30
12:30	2:00
2:00	3:00
3:00	4:00

Hour — 4 p.m. to Midnight

Specify actual hours worked

Driller: Dwight Green

Derrick: W. HARRIS

Floor: Maryn Harriman

Floor:

Floor:

Motor: M. LARIVIERE

Mechanics:

Extra:

Injuries: Nil

Press: Nil

From	Footage	To	Mts. on Bottom	Wt. Drill String (1000 lbs.)	DRILL COLLARS	FUEL	WATER	COAL	Stands
No.	Size	Type	Size Jct.	Serial No.	Weight	R.P.M.	Feet Drilled	Mts. Foot Reamed	CONDITION
2206	157	2363	7	44	13	4 1/2	2	7	22.25
2207	64	2363	3 1/4	44	13	4 1/2	2	7	22.25

MUD	4 p.m.	6 p.m.	8 p.m.	10 p.m.	Additives	At Surface Degree	MOTOR HOURS	Heat Oil Change
WEIGHT	4.3	3.8	3.8	3.8	Cosmic 50%		3.6	1
VISCOSITY	36	38	38	38	BENIX 100		3.5	2
GEL								3

No. 1	1000	1000	1000	1000	Model	SP.M.	SP.M.	SP.M.	SP.M.
2206	200	200	200	200	200	200	200	200	200

Size	TRIPS	No. Lines	TON MILES	TOTAL MILES	Slip	Foot	Cut	Foot Left	Next Slip
2206	1	1	1	1	1	1	1	1	1

REMARKS

Run Sand & Clay

Drill

Run Sand & Clay

Drill

Run Sand & Clay

Drill

Company Time	Cont'r Time
4:00	4:15
4:15	5:00
5:00	12:00

Totco Ring on Bit No. D.P. Calipered Date Results From Pipe Rack Total Contractor Time Hrs. Toolpusher

B.O.P. Test-Operated Time Results Total Company Time Hrs. Approved by

KENTING OILWELL DRILLING

DIVISION OF KENTING EXPLORATION SERVICES LTD.

DAILY DRILLING REPORT

DAY WORK RECORD

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

RIG No. 55 LOCATION HARRIS RIVER SW E 1/4 Sec 16 T4N R4E AREA COMMACK DATE JAN 14 1981

Hour — Midnight - 8 a.m.
Specify actual hours worked

Driller **P. L. KRAMER** 8
Derrick **E. FANSEN** 10
Floor **H. NIELSEN** 9
Floor
Floor
Motor **P. B. VERNER** 8
Mechanic
Extra
Injuries **NIL**
Fire

From Footage To Hrs. on Bottom Wt. Drill String (1000 lbs.) No. O.D. I.D. Wgt. FUEL Gall. WATER Bbls. COAL Tons Stands 26 6 Singles 1 D. Collars 372.25 Other Ft. 0 C.B. Ft. 0 Sub. Ft. 0 Ft. Up On Kelly 0 TOTAL 372.25

MUD WEIGHT 12 Ma 2 a.m. 4 a.m. 6 a.m. Additives At Surveys Degree MOTOR HOURS 1 36 P.W. 2 35 Pump 3 4 5

PUMPS No. 1 Pro. 1000 S.P.M. Model 1000 No. 2 Pro. 1000 S.P.M. Model 1000

General **Pat 20/20 Screen 2" Snake Hammer**

W.L. F.C. pH

REMARKS
Wait on Swivel

Start	Stop	Interval
12:00	12:10	10

Hour — 8 a.m. to 4 p.m.
Specify actual hours worked

Driller **K. ANDERSON** 8
Derrick **E. FANSEN** 8
Floor **M. NIELSEN** 5
Floor
Motor **M. LARIVIERE** 8
Mechanic
Extra
Injuries **NIL**
Fire

From Footage To Hrs. on Bottom Wt. Drill String (1000 lbs.) No. O.D. I.D. Wgt. FUEL Gall. WATER Bbls. COAL Tons Stands 26 6 Singles 1 D. Collars 372.25 Other Ft. 0 C.B. Ft. 0 Sub. Ft. 0 Ft. Up On Kelly 0 TOTAL 372.25

MUD WEIGHT 8 a.m. 10 a.m. 12 Noon 2 p.m. Additives At Surveys Degree MOTOR HOURS 1 36 P.W. 2 35 Pump 3 4 5

PUMPS No. 1 Pro. 1000 S.P.M. Model 1000 No. 2 Pro. 1000 S.P.M. Model 1000

General

W.L. F.C. pH

Company Time Cont'r Time

Wait on Swivel 12:00-12:10 10
Pick up Swivel, Service 12:10-12:20 10
Make up same 12:20-12:30 10
Trip in Ream Tighter 12:30-12:40 10

Hour — 4 p.m. to Midnight
Specify actual hours worked

Driller **D. Wright** 8
Derrick **E. FANSEN** 8
Floor **M. NIELSEN** 5
Floor
Motor **M. LARIVIERE** 8
Mechanic
Extra
Injuries **NIL**
Fire

From Footage To Hrs. on Bottom Wt. Drill String (1000 lbs.) No. O.D. I.D. Wgt. FUEL Gall. WATER Bbls. COAL Tons Stands 26 6 Singles 1 D. Collars 372.25 Other Ft. 0 C.B. Ft. 0 Sub. Ft. 0 Ft. Up On Kelly 0 TOTAL 372.25

MUD WEIGHT 4 p.m. 6 p.m. 8 p.m. 10 p.m. Additives At Surveys Degree MOTOR HOURS 1 36 P.W. 2 35 Pump 3 4 5

PUMPS No. 1 Pro. 1000 S.P.M. Model 1000 No. 2 Pro. 1000 S.P.M. Model 1000

General

W.L. F.C. pH

Company Time Cont'r Time

rig serve. 4:00-4:15 15
run in to 1950 ream from 1350 ft. 4:15-4:30 15
mix mud to raise 2 in. 4:30-4:45 15
run to 2032 4:45-5:00 15
Drill 150 RPM 6 in on bit 5:00-5:15 15

Tight Huber due to Full Huber
STABILIZER

Totco Ring on Bit No.

D.P. Caliper Date

Results

From Pipe Rack

Total Contractor Time

Hrs.

Toolpusher

B.O.P. Test-Operated

Time

Results

Total Company Time

Hrs.

Approved by

KENTING OILWELL DRILLING

DIVISION OF KENTING EXPLORATION SERVICES LTD.

DAILY DRILLING REPORT

DAY WORK RECORD

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

RIG No. 55 LOCATION *High River Sta. Ft. Ch. Can. N.E. 1/4 Sec. 15 AREA CORMACK L.* DATE *Jan 11* 19*51*

Time — Midnight - 8 a.m.		From		Footage		To	Hrs. on Bottom	Wt. Drill String (1000 lbs.)	DRILL COLLARS			FUEL	WATER	COAL	Stands	
Specify actual hours worked		Hrs.		No.		Size	Type	Size Jct.	Serial No.	Weight	R.P.M.	Ft. Drilled	Hrs.	Feet Drilled	Hrs.	CONDITION
Driller	<i>P. L. KALLINATH</i>	8		3	6 1/4	YTH	2-14	78575								
Derrick	<i>F. FRASER</i>	8														
Motor	<i>M. M. MURPHY</i>	8														
MUD		12 m.		2 a.m.		4 a.m.		6 a.m.		Additives		At Surveys Degree		MOTOR HOURS		Feet Oil Change
WEIGHT		VISCOSITY		GEL												
No. 1		No. 2		No. 3		No. 4		No. 5		No. 6		No. 7		No. 8		
PUMPS		PUMPS		PUMPS		PUMPS		PUMPS		PUMPS		PUMPS		PUMPS		
General		General		General		General		General		General		General		General		
W.L.		F.C.		pH												

REMARKS	Start	Time	Interval
<i>Top out of hole</i>	<i>12:00</i>	<i>12:15</i>	<i>1/2</i>
<i>Wait on Swivel Repairs</i>	<i>12:15</i>	<i>12:30</i>	<i>1/2</i>

Time — 8 a.m. to 4 p.m.		From		Footage		To	Hrs. on Bottom	Wt. Drill String (1000 lbs.)	DRILL COLLARS			FUEL	WATER	COAL	Stands	
Specify actual hours worked		Hrs.		No.		Size	Type	Size Jct.	Serial No.	Weight	R.P.M.	Ft. Drilled	Hrs.	Feet Drilled	Hrs.	CONDITION
Driller	<i>K. ANDERSON</i>	8		3	6 1/4	YTH	2-14	78575								
Derrick	<i>K. BASHUK</i>	8														
Motor	<i>M. M. MURPHY</i>	8														
MUD		8 a.m.		10 a.m.		12 noon		2 p.m.		Additives		At Surveys Degree		MOTOR HOURS		Feet Oil Change
WEIGHT		VISCOSITY		GEL												
No. 1		No. 2		No. 3		No. 4		No. 5		No. 6		No. 7		No. 8		
PUMPS		PUMPS		PUMPS		PUMPS		PUMPS		PUMPS		PUMPS		PUMPS		
General		General		General		General		General		General		General		General		
W.L.		F.C.		pH												

REMARKS	Company Time	Cont's Time
<i>Wait on Swivel</i>	<i>8:00</i>	<i>8:15</i>
<i>Wait on Swivel</i>	<i>8:15</i>	<i>8:30</i>

Time — 4 p.m. to Midnight		From		Footage		To	Hrs. on Bottom	Wt. Drill String (1000 lbs.)	DRILL COLLARS			FUEL	WATER	COAL	Stands	
Specify actual hours worked		Hrs.		No.		Size	Type	Size Jct.	Serial No.	Weight	R.P.M.	Ft. Drilled	Hrs.	Feet Drilled	Hrs.	CONDITION
Driller	<i>Dwight Green</i>	8		3	6 1/4	YTH	2-14	78515								
Derrick	<i>Willard Thompson</i>	8														
Motor	<i>Morgan Murchison</i>	8														
MUD		4 p.m.		6 p.m.		8 p.m.		10 p.m.		Additives		At Surveys Degree		MOTOR HOURS		Feet Oil Change
WEIGHT		VISCOSITY		GEL												
No. 1		No. 2		No. 3		No. 4		No. 5		No. 6		No. 7		No. 8		
PUMPS		PUMPS		PUMPS		PUMPS		PUMPS		PUMPS		PUMPS		PUMPS		
General		General		General		General		General		General		General		General		
W.L.		F.C.		pH												

REMARKS	Company Time	Cont's Time
<i>Wait on Swivel</i>	<i>4:00</i>	<i>4:10</i>
<i>Wait on Swivel</i>	<i>4:10</i>	<i>4:20</i>

Totco Ring on Bit No. _____ D.P. Calipered Date _____ Results _____ From Pipe Rack _____ Total Contractor Time _____ Hrs. _____ Toolpusher _____
 B.O.P. Test-Operated _____ Time _____ Results _____ Total Company Time _____ Hrs. _____ Approved by _____

¹ DIVISION OF MARITIME EXPLORATION SERVICES LTD.

DAY WORK RECORD

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

RIG No. 95 LOCATION Horn River Se. E. 1/4, Commack L-4-13 AREA Commack DATE Jan 10 1971

[illegible][illegible][illegible]

REMARKS	Time		
	Start	Stop	Interval
Rig Service	18 ⁰⁰	18 ¹⁷	1/4
Cable Pump Joints	18 ¹⁵	18 ²⁹	1/4
DRAW 6 1/2 HRS.	18 ⁰⁰	5 ⁴⁵	5
SURVEY	6 ⁴⁵	6 ⁰⁰	1/4
DRAW	6 ⁰⁰	6 ³⁰	1/2
SURVEY	6 ³⁰	6 ⁴⁵	1/4
DRAW	6 ⁴⁵	8 ⁰⁰	1 1/4
Company Time	Cen't's Time		
RIGGER	8 ⁰⁰	8 ¹⁵	1/4
SURVEY	8 ¹⁵	8 ³⁰	1/4
BLOW KELLY	8 ³⁰	8 ⁴⁵	1/4
Trip for BIT	8 ⁴⁵	12 ⁰⁰	3 1/4
RAM 90' (Fanning Hole)	12 ⁰⁰	12 ⁰⁰	1
SURVEY	1 ⁰⁰	1 ¹⁵	1/4
OILING & Holding up	1 ¹⁵	3 ⁴⁵	2 1/2
SURVEY MISRUN	3 ⁴⁵	4 ⁰⁰	1/4
Company Time	Cen't's Time		
Rig Serv.	4 ⁰⁰	4 ¹⁵	1/4
SURVEY	4 ¹⁵	4 ³⁰	1/4
Work on Swivel	4 ³⁰	7 ⁰⁰	2 1/2
Pull 18 stands	7 ⁰⁰	7 ³⁰	1/2
Put Work on Swivel	7 ³⁰	1 ⁰⁰	3 1/2
Trip out	1 ⁰⁰	12 ⁰⁰	1
Company Time	Cen't's Time		

Totco Ring on Bit No.

D.P. Calipered Date

Results

From Pipe Rack

Total Contractor Time

He.

Tealpusher

A.O.P. Test-Operated

Time

Results

Total Company Time

Mr.

Approved by

KENTING OILWELL DRILLING

DIVISION OF KENTING EXPLORATION SERVICES LTD.

DAILY DRILLING REPORT

DAY WORK RECORD

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

RIG No. 22 LOCATION Near River Sta. 5. Dr. RICHMOND L. C. 5. AREA CANNON L. DATE JAN. 9, 1951

Hour — Midnight - 8 a.m.

Specify actual hours worked

Driller **R. KAMMER** 8

Driller **F. FARRER** 8

Floor **M. MUSHAMANSKI** 4

Floor **M. ROSETH** 4

Floor

Motor **B. BENNETT** 8

Mechanics

Extra

Injuries: Nil

Notes: Nil

From	Footage	To	Mts. on Bottom	Wt. Drill String (1000 lbs.)	DRILL COLLARS	FUEL	WATER	COAL	Stands
No.	Size	Type	Size Jct.	Serial No.	Weight	R.P.M.	Fe. Drilled	Mts. Foot Reamed	CONDITION
1014	2 1/2	12 1/2	7 1/2	30	13	4 1/2	2 1/2	15	2 1/2
1	6 1/4	10 1/2	5 1/2	2134	25	120	395	9 1/2	Running

MUD	12 M.	2 a.m.	4 a.m.	6 a.m.	Additives	At Surface Degree	MOTOR HOURS	Heat Oil Change
WEIGHT	8.3	8.8	8.3	8.4		1046	1/4	
VISCOSITY	39	42	48	30				
GEL								

No.	Size	Type	Serial No.	Weight	R.P.M.	Fe. Drilled	Mts. Foot Reamed	CONDITION
1	4 1/2	10 1/2	2134	25	120	395	9 1/2	Running

Size	TRIPS	No. Lines	TON MILES	TOTAL MILES	Slip	Feet Cut	Feet Left on Spool	Heat Slip

W.L. FC pH

REMARKS

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KENTING OILWELL DRILLING

DIVISION OF KENTING EXPLORATION SERVICES LTD.

DAILY DRILLING REPORT

DAY WORK RECORD

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

RIG No. 35 LOCATION H. R. SR ETAL CUNNACK L C 6500 AREA MARK DATE JAN 5 1971

Time — Midnight - 8 a.m.		Specify actual hours worked		Hrs.
Driller	G. B. Buhkhuu	4		
Derrick	E. KAZAR	8		
Floor	M. MUSHUMANSKI	8		
Floor				
Floor				
Motor	B. BUNDKALD	8		
Mechanics				
Extra				
Injuries	Nil			
Fire				

Time — 8 a.m. to 4 p.m.		Specify actual hours worked		Hrs.
Driller	L. ANDERSON	8		
Derrick	E. JAZAR	8		
Floor	M. ROUSUYN	8		
Floor				
Floor				
Motor	M. LARIVIERE	8		
Mechanics				
Extra				
Injuries	Nil			
Fire				

Time — 4 p.m. to Midnight		Specify actual hours worked		Hrs.
Driller	Dwight CHARTY	8		
Derrick	W. NORMAN	8		
Floor	M. MUSHUMANSKI	8		
Floor				
Floor				
Motor	R. MUSHUMANSKI	8		
Mechanics				
Extra				
Injuries	Nil			
Fire				

REMARKS	Start	Time Stop	Interval
W.O.S. SHOCK etc. INSTALL BOWL HEAD UP	12:45	4:45	4:00
HEAD UP	8:00	3:15	
HEAD UP. P.S. BLIND RAMP & NEW P.S.T. HOLD OK.	8:40	3:00	7:40
	3:00	4:00	1:00
RIP SURF	4:10	4:15	1/2
TRIP IN	4:15	5:45	1:30
PIPES TEST 1 PIPE RAMP	5:45	6:00	15
PIPES HYDRAULIC HOLD GOOD	6:00	6:30	30
WORK ON NEW RAMP	6:30	7:00	30
DRILL CUT & CONNECT	7:00	7:30	30
CHURN CUT TO 55'S.	7:30	8:10	40
DRILL	8:10	12:00	3:50

KENTING OILWELL DRILLING

DIVISION OF KENTING EXPLORATION SERVICES LTD.

DAILY DRILLING REPORT

DAY WORK RECORD

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

RIG No. 35 LOCATION Horn R. 52 Rt. H. Conn. AREA 62 MA 1/2 L. DATE Jan 7 1971

Hour — Midnight - 8 a.m.		From	Footage	To	Hrs on Bottom	Wt. Drill String (1000 lbs.)	DRILL COLLARS			FUEL	WATER	COAL	Stands
Specify actual hours worked							No.	OD	ID	Wgt	Gals	Bbls	Tons
Driller	C. L. Kuhlman	8	604	242	846.5	510	100	93	150	223			
Derrick	V. K. R. 2. 2. 2.	8											
Floor	V. M. 12. 12. 2.	8											
Floor													
Floor													
Motor	B. B. 2. 2. 2. 2. 2.	3											
Mechanics													
Extra													
Injuries													
Fire													

REMARKS			Start	Time	Interval
Drill 9 1/2 Hole			12:00	1:00	1/4
Rig 2. 2. 2.			1:00	1:15	1/4
Summary			1:15	1:30	1/4
Trip To Run 6 1/2 Bit			1:30	1:45	1/4
Drill 6 1/2 Hole			1:45	2:00	1/4
Clean out Pump			2:00	2:15	1/4
Drill			2:15	2:30	1/4
Work Man Rig			2:30	2:45	1/4
Drill			2:45	3:00	1/4

Hour — 8 a.m. to 4 p.m.		From	Footage	To	Hrs on Bottom	Wt. Drill String (1000 lbs.)	DRILL COLLARS			FUEL	WATER	COAL	Stands
Specify actual hours worked							No.	OD	ID	Wgt	Gals	Bbls	Tons
Driller	K. Anderson	8	846	39	885	28	100	28	150	281			
Derrick	V. K. R. 2. 2. 2.	8											
Floor	M. Robinson	8											
Floor													
Floor													
Motor	M. Lariviere	8											
Mechanics													
Extra													
Injuries													
Fire													

REMARKS			Start	Time	Interval
Rig 2. 2. 2.			8:00	8:15	1/4
Drill 6 1/2 Hole			8:15	8:30	1/4
Work on Pump			8:30	8:45	1/4
Drill			8:45	9:00	1/4
Trip Out To Run 9 1/2 Bit			9:00	9:15	1/4
Run 9 1/2			9:15	9:30	1/4
Clean out Pump			9:30	9:45	1/4
Work on Pump			9:45	10:00	1/4
Clean out Pump			10:00	10:15	1/4
Run to 9 1/2			10:15	10:30	1/4
Clean out Pump			10:30	10:45	1/4
Trip Out To Run 9 1/2 Bit			10:45	11:00	1/4

Hour — 4 p.m. to Midnight		From	Footage	To	Hrs on Bottom	Wt. Drill String (1000 lbs.)	DRILL COLLARS			FUEL	WATER	COAL	Stands
Specify actual hours worked							No.	OD	ID	Wgt	Gals	Bbls	Tons
Driller	Dwight Green	8	885										
Derrick	W. H. 2. 2. 2.	8											
Floor	M. M. 2. 2. 2.	8											
Floor													
Floor													
Motor	R. M. 2. 2. 2. 2. 2.	8											
Mechanics													
Extra													
Injuries													
Fire													

REMARKS			Start	Time	Interval
Trip + Rig To Run 6 1/2			4:00	4:15	1/4
Run 6 1/2			4:15	4:30	1/4
Clean 6 1/2			4:30	4:45	1/4
Clean out 6 1/2			4:45	5:00	1/4
Run 6 1/2			5:00	5:15	1/4
Clean out 6 1/2			5:15	5:30	1/4
Run 6 1/2			5:30	5:45	1/4
Clean out 6 1/2			5:45	6:00	1/4

Totco Ring on Bit No.	D.P. Caliper Date	Results	From Pipe Rack	Total Contractor Time	Hrs	Footage
B.O.P. Test-Operated	Time	Results		Total Company Time	Hrs	Approved by

DIVISION OF KENTING EXPLORATION SERVICES LTD.

DAILY DRILLING REPORT

DAY WORK RECORD

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

RIG No. 35 LOCATION H. R. D. R. PTAL Co. 12 Mac K. C. 65 AREA Co. 12 Mac K. E. DATE JAN. 6. 1971

[illegible]

Year — 8 a.m. to 4 p.m.		From		Feetage		Hrs. on		Wt. Drill String		DRILL COLLARS				FUEL		WATER		COAL		Stands			
Specify actual hours worked		Hrs.		419.		34		447		(1000 lbs.)		No. O.D. I.D. Wgt.				Gals.		Bbls.		Tons			
Driller		8		B		No.		Size		Type		Size Jct.		Serial No.		Weight		R.P.M.		Ft. Drilled		Hrs.	
Derrick		8		I		No.		Size		Type		Serial No.		Weight		R.P.M.		Ft. Drilled		Hrs.		Feet Reamed	
Floor		8		S		No.		Size		Type		Serial No.		Weight		R.P.M.		Ft. Drilled		Hrs.		Feet Reamed	
Motor		8		MUD		8 a.m.		10 a.m.		12 Noon		2 p.m.		Additions		At Surveys Degree		MOTOR HOURS		Hrs. Oil Change		C.B. Ft.	
Pumps		8		WEIGHT		9.5		120		15		120		LIME 25.								Subs. Ft.	
Motor		8		VISCOSITY		20		15		120												Ft. Up On Kelly	
Mechanics		8		OIL																		TOTAL	
Extra		8		PUMPS		No. 1		Pro-tube		Model		S.P.M.										Ft. Up On Kelly	
Inlets		8		No. 2		Pro-tube		Model		S.P.M.												TOTAL	
Fire		8		No. 3		Pro-tube		Model		S.P.M.												TOTAL	
		8		No. 4		Pro-tube		Model		S.P.M.												TOTAL	
		8		No. 5		Pro-tube		Model		S.P.M.												TOTAL	
		8		No. 6		Pro-tube		Model		S.P.M.												TOTAL	
		8		No. 7		Pro-tube		Model		S.P.M.												TOTAL	
		8		No. 8		Pro-tube		Model		S.P.M.												TOTAL	
		8		No. 9		Pro-tube		Model		S.P.M.												TOTAL	
		8		No. 10		Pro-tube		Model		S.P.M.												TOTAL	
		8		No. 11		Pro-tube		Model		S.P.M.												TOTAL	
		8		No. 12		Pro-tube		Model		S.P.M.												TOTAL	
		8		No. 13		Pro-tube		Model		S.P.M.												TOTAL	
		8		No. 14		Pro-tube		Model		S.P.M.												TOTAL	
		8		No. 15		Pro-tube		Model		S.P.M.												TOTAL	
		8		No. 16		Pro-tube		Model		S.P.M.												TOTAL	
		8		No. 17		Pro-tube		Model		S.P.M.												TOTAL	
		8		No. 18		Pro-tube		Model		S.P.M.												TOTAL	
		8		No. 19		Pro-tube		Model		S.P.M.												TOTAL	
		8		No. 20		Pro-tube		Model		S.P.M.												TOTAL	
		8		No. 21		Pro-tube		Model		S.P.M.												TOTAL	
		8		No. 22		Pro-tube		Model		S.P.M.												TOTAL	
		8		No. 23		Pro-tube		Model		S.P.M.												TOTAL	
		8		No. 24																			

[illegible]

REMARKS	Time		
	Start	Stop	Interval
Rig 5000.	12:00	12:15	1/4
Engine B.T. #3	12:15	12:45	1/2
Churn OUT 300	12:45	1:00	1/4
Break Circ B.T. Thumped	1:00	1:15	1/4
Pohl out. Run in	1:15	2:45	1 1/2
Work on Pump	2:45	3:00	1/4
Drill L.	3:00	3:15	1/4
Work on Pump & Survey	3:15	3:45	1/2
Drill L.	3:45	4:15	3/4
Churn OUT. Pump.	4:15	8:00	3 3/4
Company Time	Cont's Time		
Work on Pump and Section	8:00	10:45	2 1/2
Drill L.	10:45	11:00	1/4
Work on Pump	11:00	11:15	1/2
Drill L.	11:15	11:45	1/2
Work on Pump	11:45	12:15	1/2
Drill L.	12:15	1:15	1
Work Night Hole Raise L.C.	1:15	2:15	1
Drill L.	2:15	3:00	3/4
Trip from B.T. Hole to Pump	3:00	4:00	1
Company Time	Cont's Time		
Rig 5000 Survey	4:15	4:30	1/4
Rig in	4:30	4:45	1/4
Drill L.	4:45	8:30	3 3/4
Trip from B.T. Survey	8:30	9:30	1
Work on Pump	9:30	9:45	1/4
Drill L.	9:45	10:00	1/4

Totco Ring on Bit No.

D.P. Calibrated Data

Results

From Pipe Rock

Total Contractor Time

3400.

Toniputhe

B.U.P. Test-Operated

Time

Results

Total Company Time

448

Approved by _____

KENTING OILWELL DRILLING

DIVISION OF KENTING EXPLORATION SERVICES LTD.

DAILY DRILLING REPORT

DAY WORK RECORD

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

RIG No. 35 LOCATION H.K. 5K W.TAL. LUKMAK. C-65 AREA 12 MARK L. DATE Jan 5, 1971

Time — Midnight - 8 a.m.		From	Footage	To	Hrs. on Bottom	Wt. Drill String (1000 lbs.)	DRILL COLLARS	FUEL	WATER	COAL	Stands
Specify actual hours worked											
Driller	E.L. Kellinor	10	41	131	4 1/4	30	2 1/2				
Derrick	F. KAZUR	10	78	DT 1	15	120	131				
Floor	V. MUYER										
Floor											
Floor											
Motor	B. BENDER										
Mechanics											
Extra											
Injuries											
First											

Time — 8 a.m. to 4 p.m.		From	Footage	To	Hrs. on Bottom	Wt. Drill String (1000 lbs.)	DRILL COLLARS	FUEL	WATER	COAL	Stands
Specify actual hours worked											
Driller	A. RUDINSON	131	109	240	6 1/2	22	5 1/2				
Derrick	V. JASHUK	131	109	DT 1	15	120	240				
Floor	M. KALSHIN										
Floor											
Motor	M. KARIVIANI										
Mechanics											
Extra											
Injuries											
First											

Time — 4 p.m. to Midnight		From	Footage	To	Hrs. on Bottom	Wt. Drill String (1000 lbs.)	DRILL COLLARS	FUEL	WATER	COAL	Stands
Specify actual hours worked											
Driller	Dwight GARRAN	240	102	342	4 1/2	25	7				
Derrick	W. NORMAN	240	102	DT 5	15	120	342				
Floor	M. MURRAY										
Floor											
Motor	R. MURRAY										
Mechanics											
Extra											
Injuries											
First											

REMARKS	Time		
	Start	Stop	Interval
Rig 5000	12:00	12:15	1/4
Churn Cut D-300	12:15	2:15	2
Drill 1	2:15	3:00	3/4
Churn Cut D-300	3:00	3:30	1/2
Drill (Rock)	3:30	4:00	1
Tip Churn Cut Black B.T.	4:00	5:00	1
Drill (Rock)	5:00	7:00	2
Churn	7:00	7:15	1/4
Churn Cut D-300	7:15	7:30	1/4
Drill 1	7:30	8:00	1/2
Company Time	8:00	8:15	1/4
Rig 5000	8:15	11:15	3
Drill 1 (Rock)	11:15	11:30	1/4
Ch D-300	11:30	12:00	1
Drill (Rock)	12:00	12:30	1/4
Churn D-300	12:30	1:45	1 1/4
Drill 1	1:45	2:00	1/4
Churn D-300	2:00	3:00	1
Drill 1	3:00	3:15	1/4
Churn D-300	3:15	3:45	1/2
Drill 1	3:45	4:00	1/4
Company Time	4:00	4:15	1/4
Rig 5000	4:15	4:45	1/2
Tip Churn B.T.	4:45	7:00	2 1/4
Drill 1	7:00	7:15	1/4
Work on Pump	7:15	7:45	1/2
Drill 1	7:45	8:00	1/4
Churn	8:00	8:30	1/2
Drill 1	8:30	9:00	1/2
Work on Pump	9:00	9:45	1/2
Drill 1	9:45	11:00	1 1/4
Tip Churn Black B.T.	11:00	12:00	1
Company Time			
Contractor Time			
Total Contractor Time			
Total Company Time			

Tolson Ring on Bit No.
B.O.P. Test-Operated

D.P. Caliper Date
Time

Results
Results

From Pipe Rack

Total Contractor Time
Total Company Time

Hrs. Toolpusher
Hrs. Approved by

S. Wright

