



WELL COMPLETION FORM
WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License # _____

Name: _____

Address 1: _____

Address 2: _____

City: _____ State: _____ Zip: _____ + _____

Contact Person: _____

Phone: (_____) _____

CONTRACTOR: License # _____

Name: _____

Wellsite Geologist: _____

Purchaser: _____

Designate Type of Completion:

- New Well Re-Entry Workover
- Oil WSW SWD SIOW
- Gas D&A ENHR SIGW
- OG GSW Temp. Abd.
- CM (Coal Bed Methane)
- Cathodic Other (Core, Expl., etc.): _____

If Workover/Re-entry: Old Well Info as follows:

Operator: _____

Well Name: _____

Original Comp. Date: _____ Original Total Depth: _____

- Deepening Re-perf. Conv. to ENHR Conv. to SWD
- Conv. to GSW
- Plug Back: _____ Plug Back Total Depth _____
- Commingled Permit #: _____
- Dual Completion Permit #: _____
- SWD Permit #: _____
- ENHR Permit #: _____
- GSW Permit #: _____

Spud Date or Recompletion Date Date Reached TD Completion Date or Recompletion Date

API No. 15 - _____

Spot Description: _____

_____ - _____ - _____ Sec. _____ Twp. _____ S. R. _____ East West

_____ Feet from North / South Line of Section

_____ Feet from East / West Line of Section

Footages Calculated from Nearest Outside Section Corner:

- NE NW SE SW

County: _____

Lease Name: _____ Well #: _____

Field Name: _____

Producing Formation: _____

Elevation: Ground: _____ Kelly Bushing: _____

Total Depth: _____ Plug Back Total Depth: _____

Amount of Surface Pipe Set and Cemented at: _____ Feet

Multiple Stage Cementing Collar Used? Yes No

If yes, show depth set: _____ Feet

If Alternate II completion, cement circulated from: _____

feet depth to: _____ w/ _____ sx cmt.

Drilling Fluid Management Plan

(Data must be collected from the Reserve Pit)

Chloride content: _____ ppm Fluid volume: _____ bbls

Dewatering method used: _____

Location of fluid disposal if hauled offsite: _____

Operator Name: _____

Lease Name: _____ License #: _____

Quarter _____ Sec. _____ Twp. _____ S. R. _____ East West

County: _____ Permit #: _____

AFFIDAVIT

I am the affiant and I hereby certify that all requirements of the statutes, rules and regulations promulgated to regulate the oil and gas industry have been fully complied with and the statements herein are complete and correct to the best of my knowledge.

Submitted Electronically

KCC Office Use ONLY

- Letter of Confidentiality Received
Date: _____
- Confidential Release Date: _____
- Wireline Log Received
- Geologist Report Received
- UIC Distribution
- ALT I II III Approved by: _____ Date: _____



1077532

Operator Name: _____ Lease Name: _____ Well #: _____

Sec. _____ Twp. _____ S. R. _____ East West County: _____

INSTRUCTIONS: Show important tops and base of formations penetrated. Detail all cores. Report all final copies of drill stems tests giving interval tested, time tool open and closed, flowing and shut-in pressures, whether shut-in pressure reached static level, hydrostatic pressures, bottom hole temperature, fluid recovery, and flow rates if gas to surface test, along with final chart(s). Attach extra sheet if more space is needed. Attach complete copy of all Electric Wire-line Logs surveyed. Attach final geological well site report.

Drill Stem Tests Taken <input type="checkbox"/> Yes <input type="checkbox"/> No <i>(Attach Additional Sheets)</i> Samples Sent to Geological Survey <input type="checkbox"/> Yes <input type="checkbox"/> No Cores Taken <input type="checkbox"/> Yes <input type="checkbox"/> No Electric Log Run <input type="checkbox"/> Yes <input type="checkbox"/> No Electric Log Submitted Electronically <input type="checkbox"/> Yes <input type="checkbox"/> No <i>(If no, Submit Copy)</i> List All E. Logs Run:	<input type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample Name Top Datum
---	---

CASING RECORD <input type="checkbox"/> New <input type="checkbox"/> Used							
Report all strings set-conductor, surface, intermediate, production, etc.							
Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs. / Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives

ADDITIONAL CEMENTING / SQUEEZE RECORD				
Purpose:	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
_____ Perforate _____ Protect Casing _____ Plug Back TD _____ Plug Off Zone				

Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record <i>(Amount and Kind of Material Used)</i>	Depth

TUBING RECORD: Size: _____ Set At: _____ Packer At: _____ Liner Run: Yes No

Date of First, Resumed Production, SWD or ENHR. _____ Producing Method:
 Flowing Pumping Gas Lift Other (Explain) _____

Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity
-----------------------------------	-----------	---------	-------------	---------------	---------

DISPOSITION OF GAS: <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	METHOD OF COMPLETION: <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</i> <i>(Submit ACO-4)</i> <input type="checkbox"/> Other (Specify) _____	PRODUCTION INTERVAL: _____ _____
---	---	--

Form	ACO1 - Well Completion
Operator	Hess Oil Company
Well Name	Beatrice 1-27
Doc ID	1077532

Tops

Name	Top	Datum
Heebner	1947	-438
Brown Lime	2141	-632
Lansing	2188	-679
Stark Shale	2454	-945
Cherokee Shale	2702	-1193
Mississippi	2771	-1262
Kinderhook Shale	2939	-1430
Hunton	3105	-1596
Viola	3218	-1709
Simpson Sand	3325	-1816
RTD	3393	-1884



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Hess Oil Company
PO Box 1009
Mcperson KS 67460
ATTN: Bryan Hess

27-18s-1e
Beatrice #1-27
Job Ticket: 47454 **DST#: 1**
Test Start: 2012.02.05 @ 21:22:02

GENERAL INFORMATION:

Formation: **Mississippi**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 00:40:02
Time Test Ended: 06:39:47
Interval: **2730.00 ft (KB) To 2784.00 ft (KB) (TVD)**
Total Depth: 2784.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair
Reference Elevations: 1504.00 ft (KB)
1500.00 ft (CF)
KB to GR/CF: 4.00 ft
Test Type: Conventional Bottom Hole (Initial)
Tester: Chris Staats
Unit No: 47

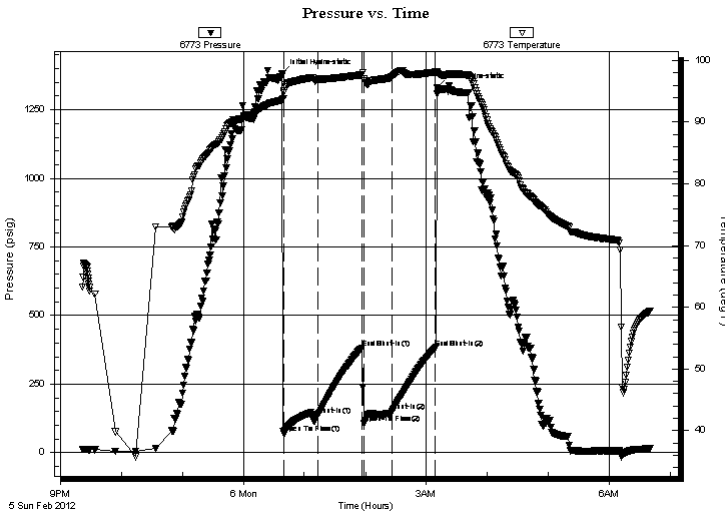
Serial #: 6773

Outside

Press @ Run Depth: 150.70 psig @ 2731.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2012.02.05 End Date: 2012.02.06 Last Calib.: 2012.02.06
Start Time: 21:22:07 End Time: 06:39:47 Time On Btm: 2012.02.06 @ 00:38:17
Time Off Btm: 2012.02.06 @ 03:10:32

TEST COMMENT: IF: Strong blow BOB 2 min
IS: Weak blow back
FF: Strong blow BOB 2 sec GTS 10 min
FS: Weak blow back

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1381.39	93.60	Initial Hydro-static
2	69.84	94.83	Open To Flow (1)
35	137.14	96.94	Shut-In(1)
78	382.04	97.69	End Shut-In(1)
80	108.14	97.02	Open To Flow (2)
108	150.70	97.41	Shut-In(2)
151	383.08	98.12	End Shut-In(2)
153	1331.96	98.02	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
0.00	2802' GIP	0.00
312.00	MUD	2.10

Gas Rates

Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Hess Oil Company

27-18s-1e

PO Box 1009
Mcperson KS 67460

Beatrice #1-27

Job Ticket: 47454

DST#: 1

ATTN: Bryan Hess

Test Start: 2012.02.05 @ 21:22:02

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 10.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 36.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 16.59 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 1800.00 ppm

Filter Cake: 0.02 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
0.00	2802' GIP	0.000
312.00	MUD	2.099

Total Length: 312.00 ft Total Volume: 2.099 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

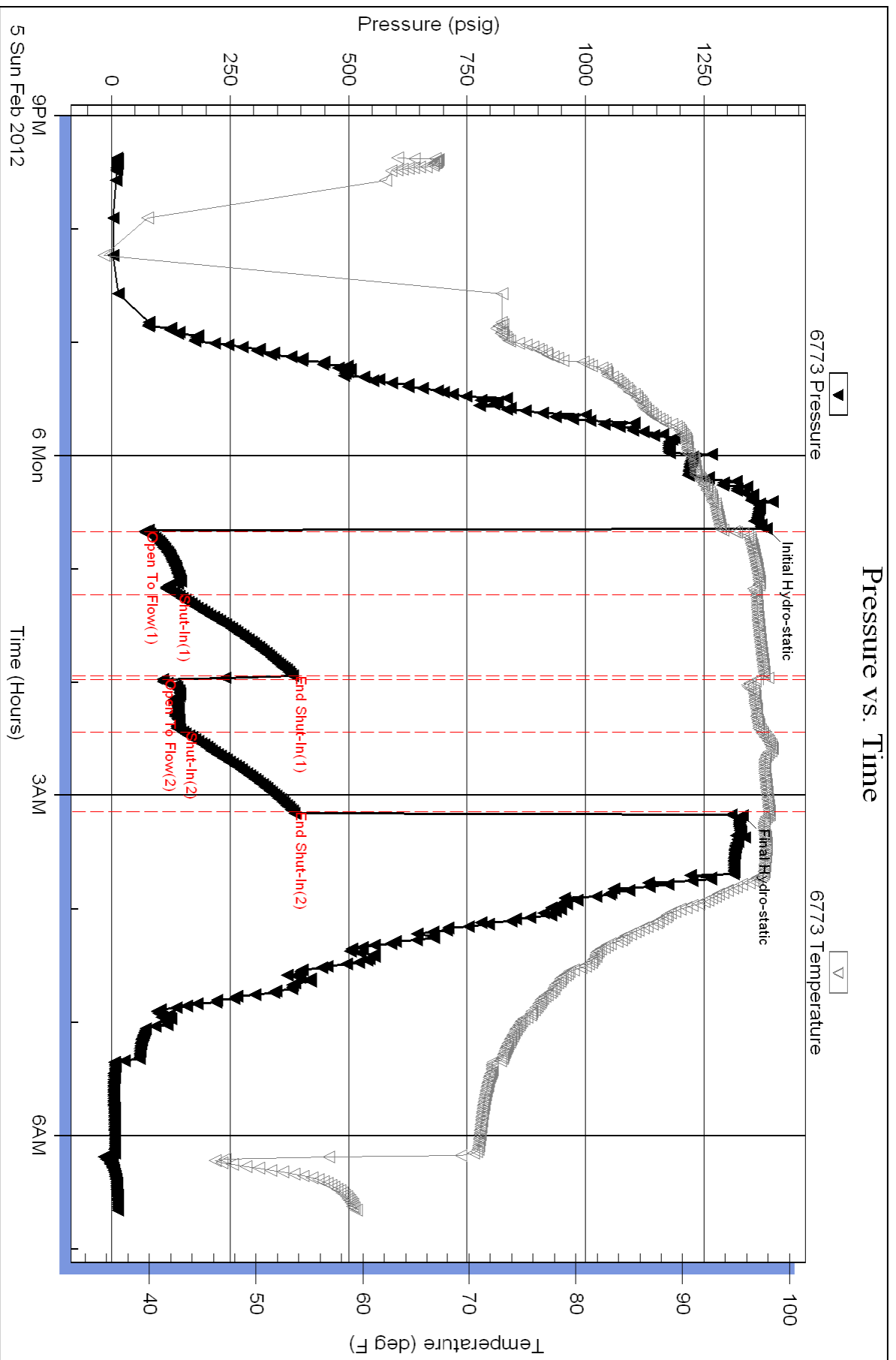
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time





**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Hess Oil Company
PO Box 1009
Mcperson KS 67460
ATTN: Jamie Hess

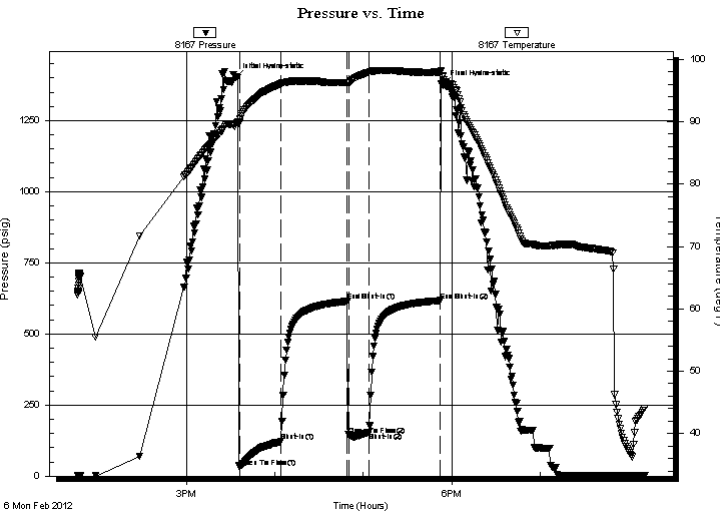
27-18s-1e Marion Ks.
Beatrice #1-27
Job Ticket: 45731 **DST#: 2**
Test Start: 2012.02.06 @ 13:46:15

GENERAL INFORMATION:

Formation: **Miss.**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 15:36:00
Time Test Ended: 20:11:15
Interval: **2774.00 ft (KB) To 2794.00 ft (KB) (TVD)**
Total Depth: 2794.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair
Test Type: Conventional Bottom Hole (Initial)
Tester: Gary Pevoteaux
Unit No: 56
Reference Elevations: 1509.00 ft (KB)
1500.00 ft (CF)
KB to GR/CF: 9.00 ft

Serial #: 8167 Inside
Press @ Run Depth: 154.33 psig @ 2775.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2012.02.06 End Date: 2012.02.06 Last Calib.: 2012.02.06
Start Time: 13:46:16 End Time: 20:11:15 Time On Btm: 2012.02.06 @ 15:33:30
Time Off Btm: 2012.02.06 @ 17:54:00

TEST COMMENT: IF: Strong blow . B.O.B. in 26 secs.
IS: Weak to fair blow . Increase to 5".
FF: Strong blow . B.O.B. in 5 mins.
FS: Fair blow . Increase to 10".



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1401.57	89.66	Initial Hydro-static
3	32.40	89.91	Open To Flow (1)
31	121.49	96.07	Shut-In(1)
76	614.81	96.28	End Shut-In(1)
77	143.87	96.22	Open To Flow (2)
91	154.33	97.92	Shut-In(2)
139	617.09	97.93	End Shut-In(2)
141	1376.70	97.20	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
215.00	MW 5%w 95%w /Rw .13ohms @46deg	1.06
180.00	WM 36%w 64%w	1.99
0.00	2215 ft of GIP	0.00

Gas Rates

Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Hess Oil Company
PO Box 1009
Mcperson KS 67460
ATTN: Jamie Hess

27-18s-1e Marion Ks.
Beatrice #1-27
Job Ticket: 45731 **DST#: 2**
Test Start: 2012.02.06 @ 13:46:15

Mud and Cushion Information

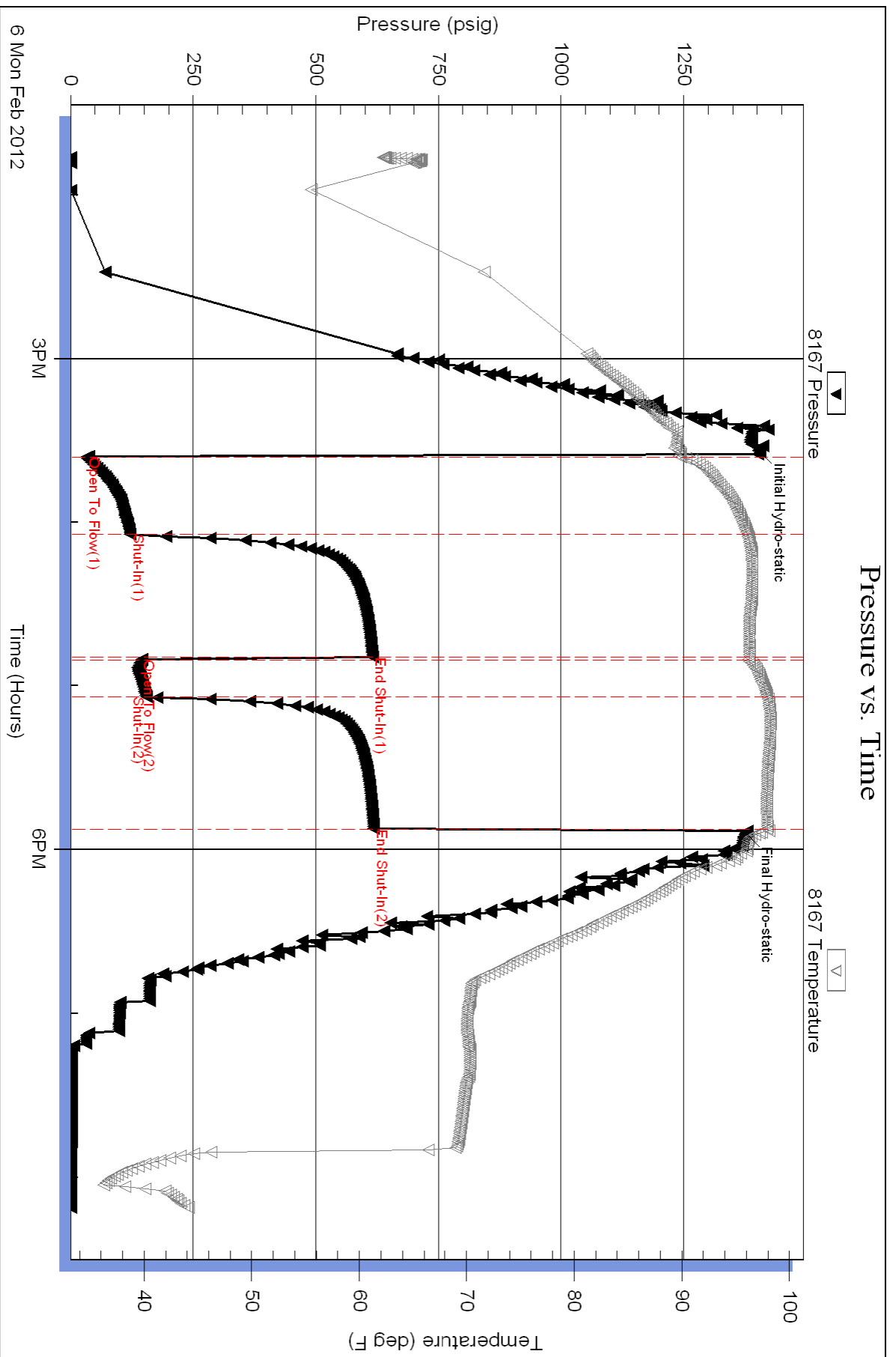
Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	94000 ppm
Viscosity: 56.00 sec/qt	Cushion Volume: bbl		
Water Loss: 9.19 in ³	Gas Cushion Type:		
Resistivity: 0.00 ohm.m	Gas Cushion Pressure: psig		
Salinity: 1700.00 ppm			
Filter Cake: 0.20 inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
215.00	MW 5% <i>m</i> 95% <i>w</i> /Rw .13ohms @46deg	1.057
180.00	WM 36% <i>w</i> 64% <i>m</i>	1.987
0.00	2215 ftof GIP	0.000

Total Length: 395.00 ft Total Volume: 3.044 bbl
Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #: none
Laboratory Name: Laboratory Location:
Recovery Comments:





TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Hess Oil Company
 PO Box 1009
 Mcpherson KS 67460
 ATTN: Jamie Hess

27-18s-1e Marion Ks.
Beatrice #1-27
 Job Ticket: 46839 **DST#: 3**
 Test Start: 2012.02.08 @ 23:30:23

GENERAL INFORMATION:

Formation: **Simpson Sd**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 01:55:18
 Time Test Ended: 07:16:17
 Interval: **3314.00 ft (KB) To 3334.00 ft (KB) (TVD)**
 Total Depth: 3334.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Ray Schwager
 Unit No: 42
 Reference Elevations: 1507.00 ft (KB)
 1500.00 ft (CF)
 KB to GR/CF: 7.00 ft

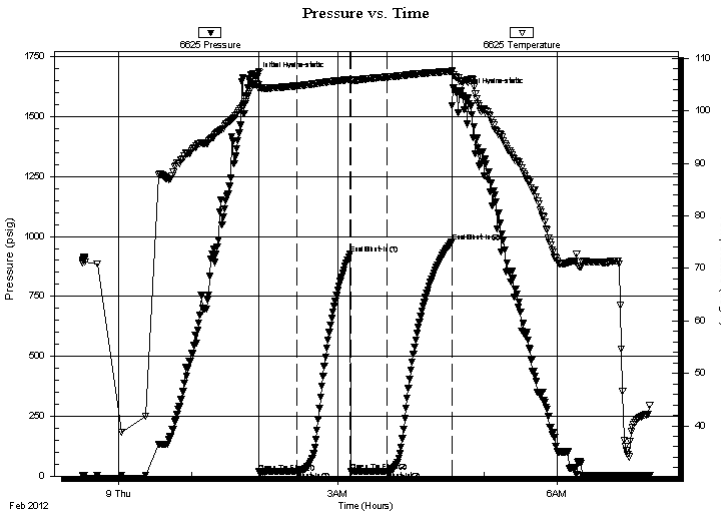
Serial #: 6625

Inside

Press @ Run Depth: 20.15 psig @ 3315.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2012.02.08 End Date: 2012.02.09 Last Calib.: 2012.02.09
 Start Time: 23:30:23 End Time: 07:16:17 Time On Btm: 2012.02.09 @ 01:52:48
 Time Off Btm: 2012.02.09 @ 04:36:47

TEST COMMENT: 30-IFP-surface bl died in 20min
 45-ISIP-no bl
 30-FFP-no bl
 45-FSIP-no bl

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1668.18	105.08	Initial Hydro-static
3	17.23	104.23	Open To Flow (1)
33	19.72	104.77	Shut-In(1)
77	926.92	105.97	End Shut-In(1)
78	19.76	105.80	Open To Flow (2)
107	20.15	106.44	Shut-In(2)
161	977.18	107.54	End Shut-In(2)
164	1600.72	106.42	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
10.00	mud	0.05

* Recovery from multiple tests

Gas Rates

Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Hess Oil Company
PO Box 1009
Mcperson KS 67460
ATTN: Jamie Hess

27-18s-1e Marion Ks.
Beatrice #1-27
Job Ticket: 46839 **DST#: 3**
Test Start: 2012.02.08 @ 23:30:23

Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 10.00 lb/gal	Cushion Length: ft	Water Salinity:	ppm
Viscosity: 60.00 sec/qt	Cushion Volume: bbl		
Water Loss: 7.97 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 1400.00 ppm			
Filter Cake: 1.00 inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
10.00	mud	0.049

Total Length: 10.00 ft Total Volume: 0.049 bbl
 Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
 Laboratory Name: Laboratory Location:
 Recovery Comments:

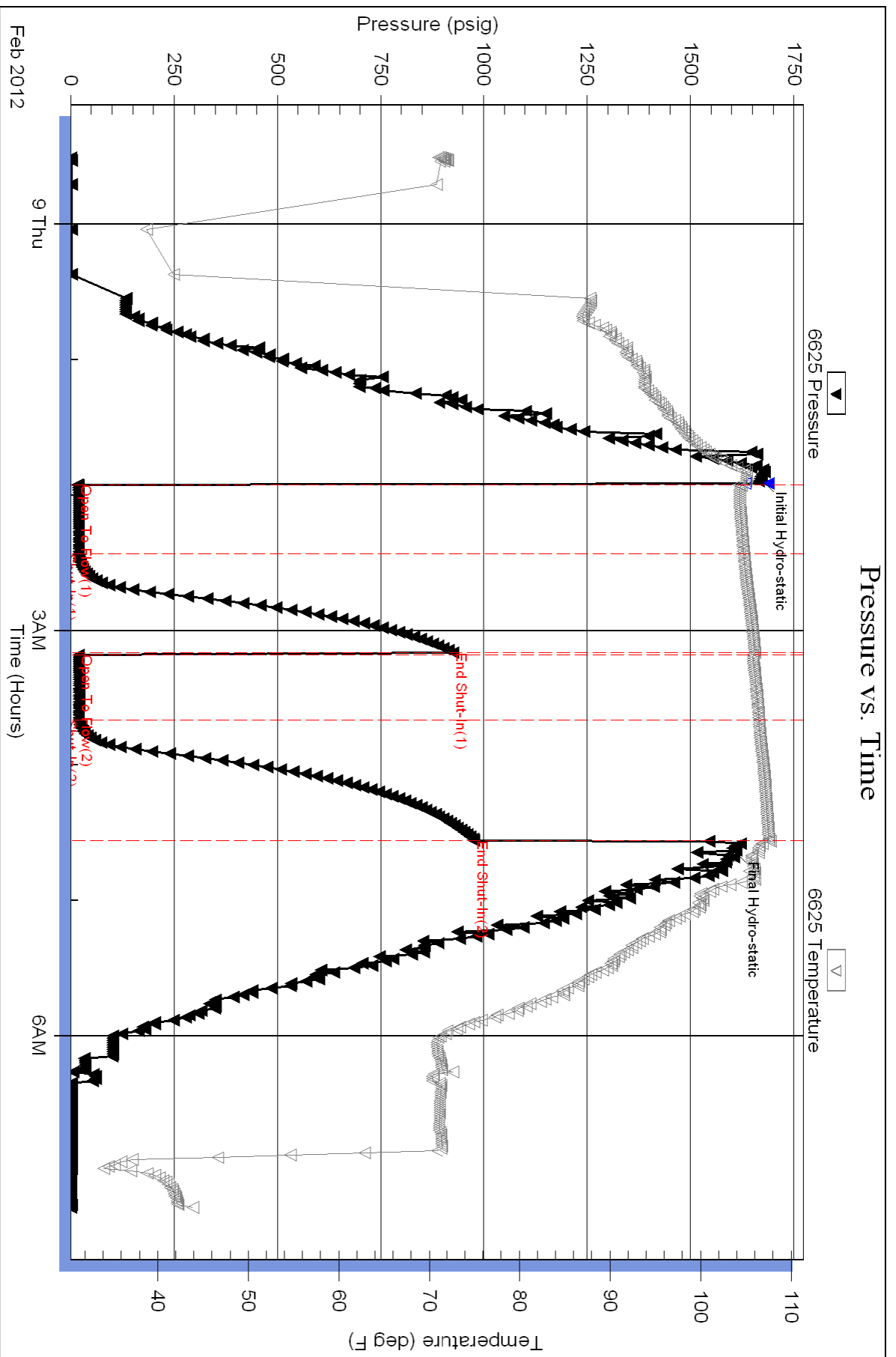
Serial #: 6625

Inside

Hess Oil Company

Beatrice #1-27

DST Test Number: 3





**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Hess Oil Company
PO Box 1009
Mcperson KS 67460
ATTN: Jamie Hess

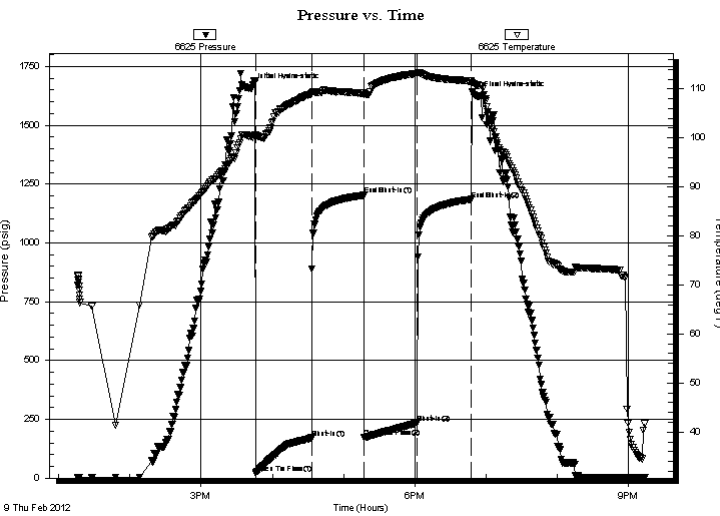
27-18s-1e Marion Ks.
Beatrice #1-27
Job Ticket: 46840 **DST#: 4**
Test Start: 2012.02.09 @ 13:16:04

GENERAL INFORMATION:

Formation: **Simpson Sd**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 15:45:59
Time Test Ended: 21:13:28
Interval: **3314.00 ft (KB) To 3344.00 ft (KB) (TVD)**
Total Depth: 3344.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair
Test Type: Conventional Bottom Hole (Reset)
Tester: Ray Schwager
Unit No: 42
Reference Elevations: 1507.00 ft (KB)
1500.00 ft (CF)
KB to GR/CF: 7.00 ft

Serial #: 6625 Inside
Press @ Run Depth: 234.37 psig @ 3321.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2012.02.09 End Date: 2012.02.09 Last Calib.: 2012.02.09
Start Time: 13:16:04 End Time: 21:13:28 Time On Btm: 2012.02.09 @ 15:41:29
Time Off Btm: 2012.02.09 @ 18:51:58

TEST COMMENT: 45-IFP-w k to a gd bl , 1/4" to 6" bl
45-ISIP-no bl
45-FFP-surface to 1 1/2" bl
45-FSIP-no bl



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1657.54	100.28	Initial Hydro-static
5	21.61	100.46	Open To Flow (1)
52	170.87	109.02	Shut-In(1)
96	1202.30	109.13	End Shut-In(1)
96	172.64	108.86	Open To Flow (2)
140	234.37	113.16	Shut-In(2)
186	1185.16	111.60	End Shut-In(2)
191	1624.56	110.80	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
124.00	MW 15%M85%W w/show of oil	0.61
372.00	Water	3.89

* Recovery from multiple tests

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Hess Oil Company
PO Box 1009
Mcpheerson KS 67460
ATTN: Jamie Hess

27-18s-1e Marion Ks.
Beatrice #1-27
Job Ticket: 46840 **DST#: 4**
Test Start: 2012.02.09 @ 13:16:04

Mud and Cushion Information

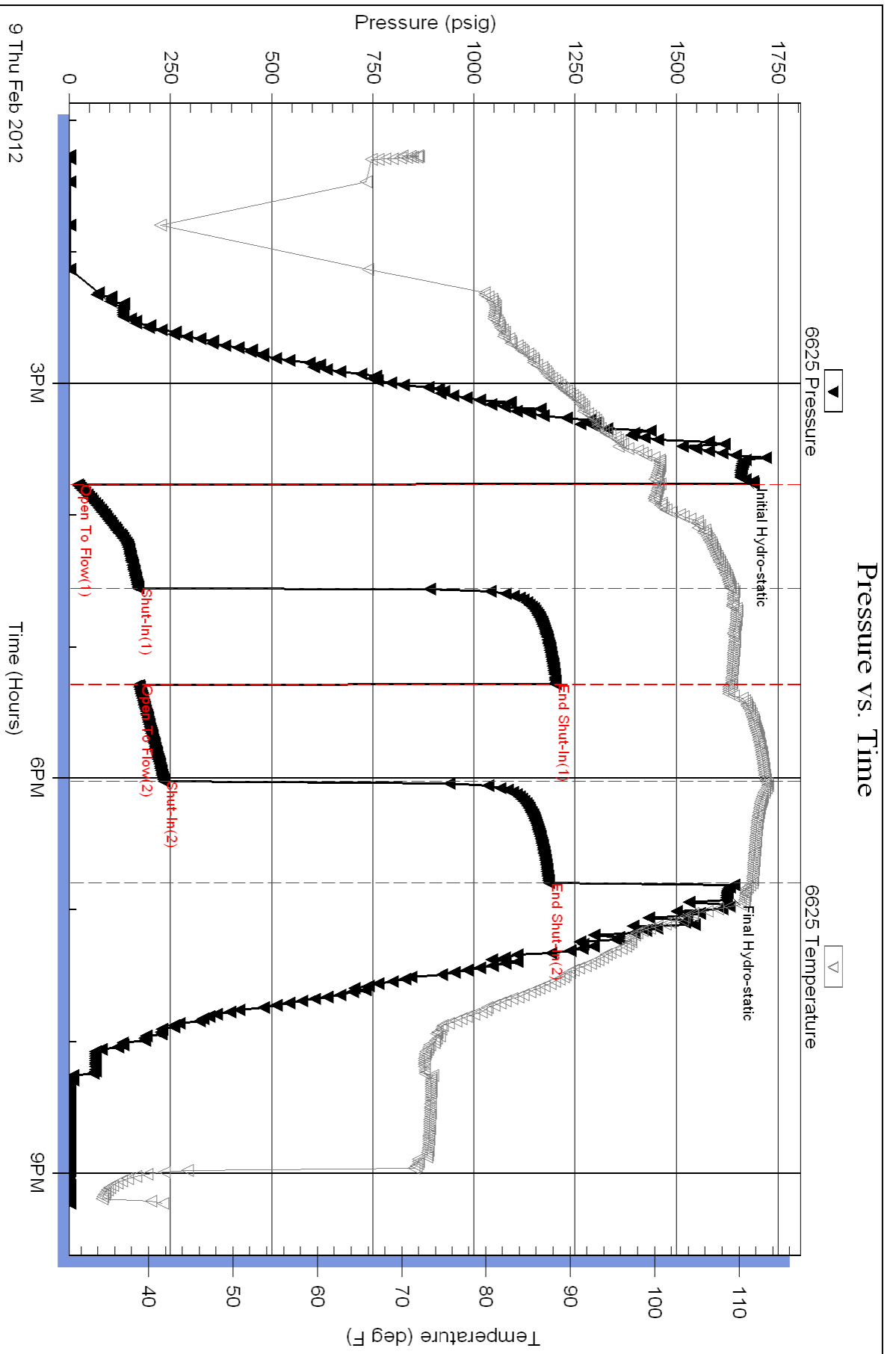
Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	17000 ppm
Viscosity: 51.00 sec/qt	Cushion Volume: bbl		
Water Loss: 7.60 in ³	Gas Cushion Type:		
Resistivity: 0.00 ohm.m	Gas Cushion Pressure: psig		
Salinity: 1100.00 ppm			
Filter Cake: 1.00 inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
124.00	MW 15%M85%W w/show of oil	0.610
372.00	Water	3.888

Total Length: 496.00 ft Total Volume: 4.498 bbl
 Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
 Laboratory Name: Laboratory Location:
 Recovery Comments: RW .67 @ 42F



HESS OIL COMPANY

225 N. Market, Suite 300

Wichita, Kansas 67202

(316) 263-2243

GEOLOGICAL REPORT

BEATRICE #1 - 27

900' FNL, 1850' FEL of

SECTION 27 - 18S - 1E

MARION COUNTY, KANSAS

Commenced: 2-1-12 Elevations: 1500' GR, 1509' KB
Completed: 2-10-12 Surface Pipe: 8-5/8" at 200' KB
Contractor: C & G Drilling Production Pipe: none

One foot drilling time was kept from 1800' to Rotary Total Depth. Ten foot drilling samples (wet & dry) were kept from 2100' to RTD.

Following are sample tops, descriptions of zones of interest (including all shows of oil & gas), and the results of all drill stem tests.

<u>HEEBNER</u>	<u>1947</u>	<u>(-438)</u>
<u>BROWN LIME</u>	<u>2141</u>	<u>(-632)</u>
<u>LANSING</u>	<u>2188</u>	<u>(-679)</u>
<u>STARK SHALE</u>	<u>2454</u>	<u>(-945)</u>
<u>CHEROKEE SHALE</u>	<u>2702</u>	<u>(-1193)</u>
<u>MISSISSIPPI</u>	<u>2771</u>	<u>(-1262)</u>

HESS OIL COMPANY

225 N. Market, Suite 300

Wichita, Kansas 67202

(316) 263-2243

Beatrice #1-27

Page 2

MISSISSIPPI (cont.)

2771-80' KB White, very fine to finely crystalline, dolomite. Good show of gas bubbles, no show of free oil in very poor intercrystalline porosity, slight odor, no stain, and no cut.

2781-84' KB White dolomite as above & some White tripolitic & sharp cherts. Good show of gas bubbles, No free oil, weak stain that cuts good, slight odor.

DRILL STEM TEST #1 2730 to 2784' KB 54' Anchor

Blow: bottom of bucket in 2 min., 2nd -- gas to surface 10 min. (TSTM)

Times: Open 30, Closed 45, Open 30, Closed 45.

Recovered: 312' Water Cut Mud (no chlorides ?)

Pressures: IH 1381# IF 69 - 137# ISIP 382#
FH 1331# FF 108 - 150# FSIP 383#

2785-94' KB White, tripolitic & sharp, cherts. Good show of gas bubbles, fair show of free oil in poor intercrystalline porosity, good stain, light odor, and a good cut.

DRILL STEM TEST #2 2774 - 2794' KB 20' Anchor

Blow: bottom of bucket in 25 sec. 2nd-- BOB in 5 min.

Times: Open 30, Closed 45, Open 15, Closed 45.

Recovered: 2215' Gas
335' Mud Cut SW Chlorides 94,000 ppm

Pressures: IH 1402# IF 32 - 121# ISIP 615#
FH 1377# FF 144 - 154# FSIP 617#

KINDERHOOK SHALE 2939 (-1430)

HESS OIL COMPANY

225 N. Market, Suite 300

Wichita, Kansas 67202

(316) 263-2243

Beatrice #1-27

Page 3

HUNTON 3105 (-1596)

VIOLA 3218 (-1709)

SIMPSON SAND 3325 (-1816)

3325-30' KB Clear to brown, fine to medium grained, well rounded, fairly sorted, sandstone clusters & loose grains. Fair show of free oil in ss clusters, slight odor, good stain, and a strong cut.

3331-34' KB Clear to tan, fine to medium grained, well sorted, well rounded, sandstone clusters & loose grains. Weak show of free oil in "tite" sandstone clusters, slight stain, no odor, and a fair cut.

DRILL STEM TEST #3 3314 to 3334' KB 20' Anchor

Blow: weak surface blow -- died in 20 min.
2nd -- no blow.

Times: Open 30, Closed 45, Open 30, Closed 45.

Recovered: 10' Mud

Pressures: IH 1668# IF 17 - 19# ISIP 926#
FH 1600# FF 19 - 20# FSIP 977#

3335-40' KB Clear, medium grained, well rounded, well sorted, sandstone clusters & loose grains. Good show of free oil in fair intergranular porosity, fair odor, good stain, and a strong cut !!!

DRILL STEM TEST #4 3314 to 3344' KB 30' Anchor

Blow: Slow build to 6". 2nd -- weak build to 1½".

Times: Open 45, Closed 45, Open 45, Closed 45.

Recovered: 496' Mud Cut SW with show of oil.

Pressures: IH 1657# IF 21 - 170# ISIP 1202#
FH 1624# FF 172 - 234# FSIP 1185#

3348-52' KB Clear to tan, small grained, well sorted, fairly rounded, sandstone clusters & loose grains.

HESS OIL COMPANY

225 N. Market, Suite 300

Wichita, Kansas 67202

(316) 263-2243

Beatrice #1-27

Page 4

3348-52' KB

(cont.)

Slight show of free oil in poor intergranular porosity, no odor, slight stain, and a weak cut.

Looks to "tite" to produce and would be 4 - 8' below water test.

ROTARY TOTAL DEPTH

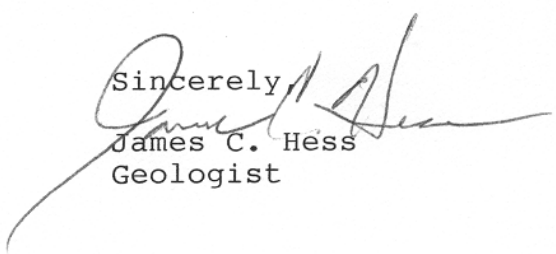
3393 (-1884)

A full set of Dual Compensated Porosity and Dual Induction logs were run to evaluate the well & prospect. Most of the tops were reasonably close. There was some development in the top of the Viola --- 2' 8% with 55% SW and 2' 10% with 58% SW. There were no sample shows !

There were 2 sample shows untested. The first was below the water test in the Miss. 2795 - 2800' KB --- few gas bubbles & slight show of free oil. The second was below the water test in the Simpson Sand 3348-52' KB. ---- slight show & no odor.

It was decided to plug the Beatrice #1 - 27 on 2-10-12. I believe there is an oilwell close by, but I may not be the one to find it. Crud.

Sincerely,


James C. Hess
Geologist

H·E·S·S



O·I·L
C·O

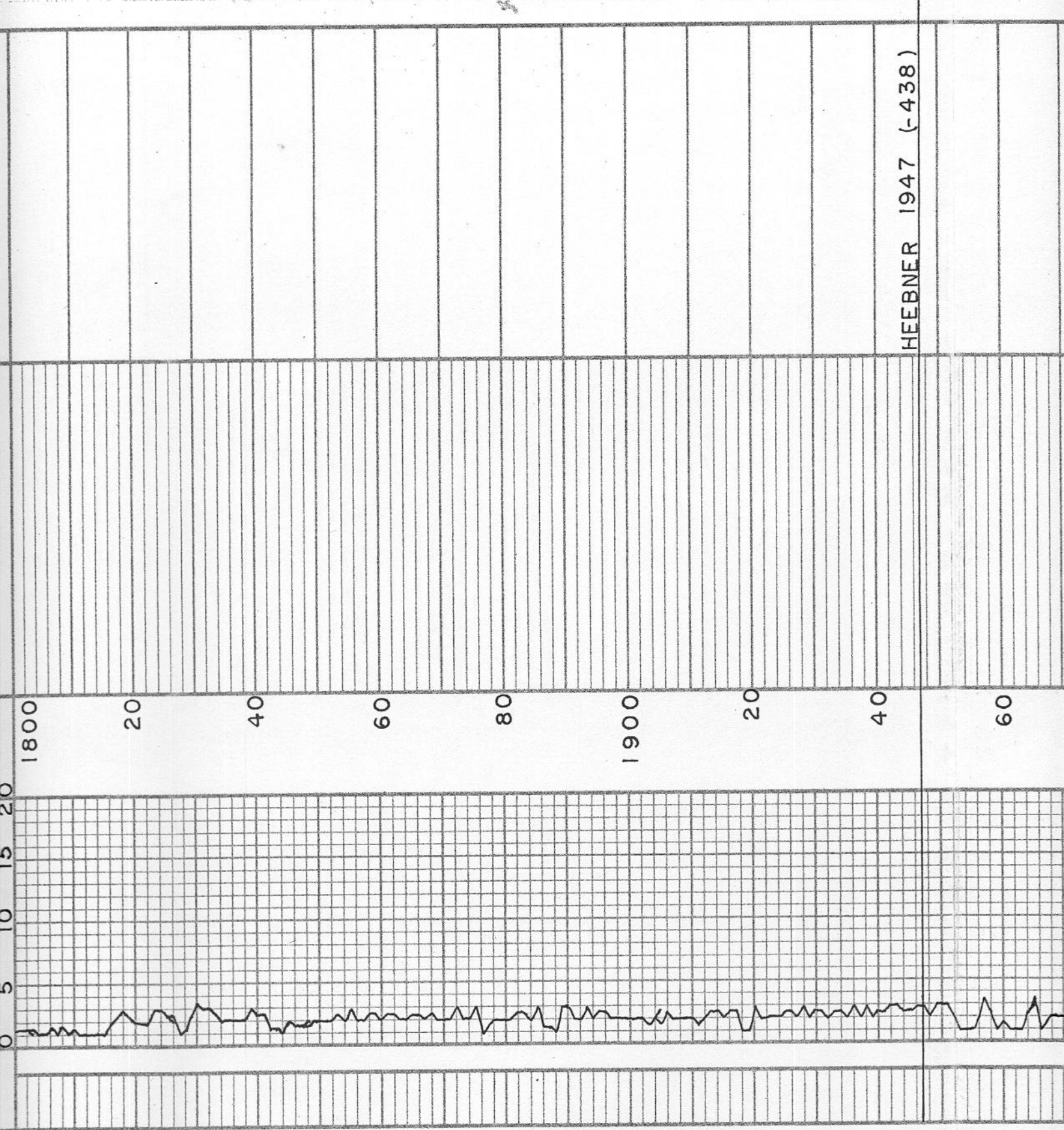
HESS OIL COMPANY
P.O. Box 1009
McPherson, KS 67460-1009

GEOLOGIST'S REPORT

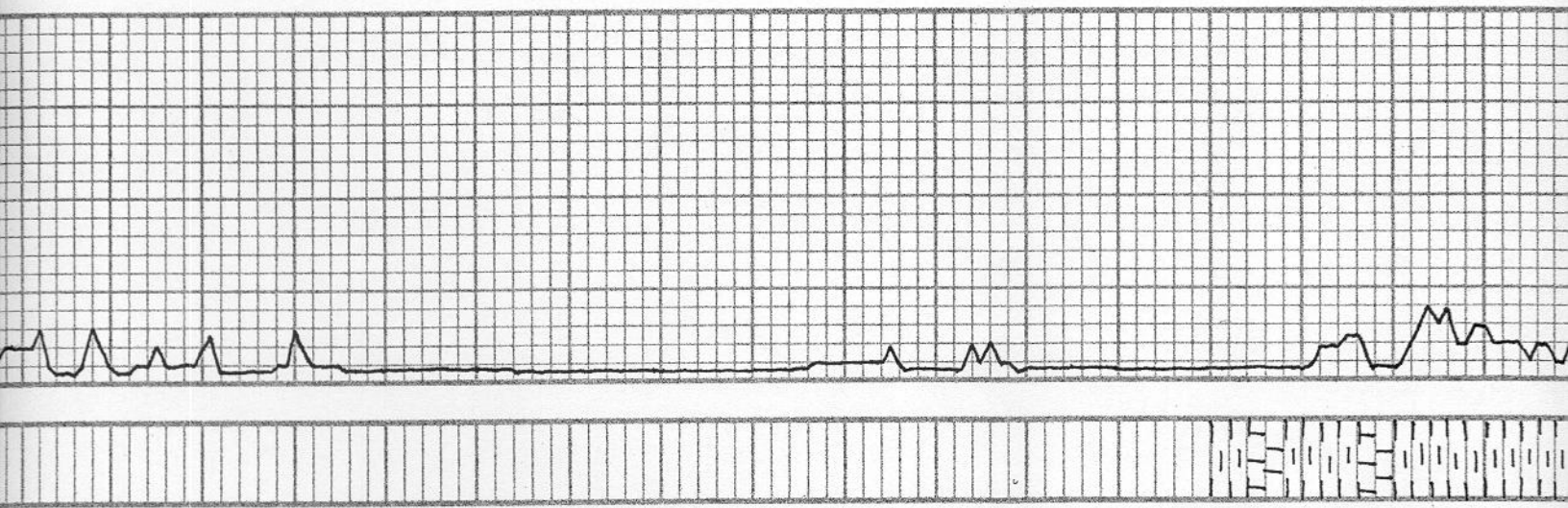
DRILLING TIME AND SAMPLE LOG

COMPANY <u>HESS OIL COMPANY</u> LEASE <u>BEATRICE #1-27</u> FIELD <u>- WILDCAT -</u> LOCATION <u>900' FNL, 1850' FEL</u> SEC <u>27</u> TWSP <u>18 S</u> RGE <u>1 E</u> COUNTY <u>MARION</u> STATE <u>KANSAS</u>	ELEVATIONS KB <u>1509'</u> DF <u>1507'</u> GL <u>1500'</u> Measurements Are All From <u>KB</u>
CONTRACTOR <u>C & G DRILLING COMPANY</u> SPUD <u>2-1-12</u> COMP <u>2-10-12</u> RTD <u>3393'</u> LTD <u>3394'</u> MUD UP <u>2450'</u> TYPE MUD <u>CHEMICAL</u>	CASING SURFACE <u>8-5/8" at 200'</u> PRODUCTION <u>none</u> ELECTRICAL SURVEYS COMPENSATED DENSITY & DUAL IND.
SAMPLES SAVED FROM <u>2100'</u> TO <u>TD</u> DRILLING TIME KEPT FROM <u>1800'</u> TO <u>TD</u> SAMPLES EXAMINED FROM <u>2100'</u> TO <u>TD</u> GEOLOGICAL SUPERVISION FROM <u>1785'</u> TO <u>TD</u> GEOLOGIST ON WELL <u>JAMES C. HESS</u>	

FORMATION TOPS	LOG	SAMPLES									
HEEBNER		1947 (-438)	<table border="1" style="width:100%; height:100%; border-collapse: collapse;"> <tr><td colspan="2" style="text-align: center;">1 E</td></tr> <tr><td style="width:50%;"></td><td style="width:50%; text-align: center;">+</td></tr> <tr><td style="text-align: center;">27</td><td style="text-align: center;">18 S</td></tr> <tr><td colspan="2" style="height: 20px;"></td></tr> </table>	1 E			+	27	18 S		
1 E											
	+										
27	18 S										
LANSING		2188 (-679)									
MISSISSIPPI		2771 (-1262)									
KINDERHOOK SHALE		2939 (-1430)									
VIOLA		3218 (-1709)									
SIMPSON SAND		3325 (-1816)									
ARBUCKLE		none									
RTD		3393 (-1884)									



HEEBNER 1947 (-438)



80

2000

20

40

60

80

2100

20

40

SOME SILTSTONE W/PE'S INT-TAN
VF-FIN SL CHALKY LM
SOME GREEN - GRAY SH'S

AA W/MOSTLY SH'S NO ~~PE~~ NO SHOW

MOSTLY SH'S
W/PE'S LM NO SHOW

MOSTLY GREEN + GRAY SH'S
W/PE'S LM NO SHOW

BROWN LIME 2141 (-632)

BROWN LIME 2141 (-632)

w/pe's lm no show

Tan - Br VF-Film DS LM
Some green sh's

Mostly green Red sh's
w/pe's lm

Mostly grey + green sh's
No ♂ No show

Mostly sh's

AA w/ NO ♂ NO show

Crn - Grey VF-Film sl chalky lm
w/pe's wt chalky lm
Some green sh's

Tan - grey Film sl foss lm
w/pe's wt chalky lm
FEW green sh's
Fair ♂
NO show

Crn - Grey Fxlm sl foss lm
w/pe's wt chalky lm
FEW sh's

AA w/ NO ♂ NO show

AA w/ same green sh's
NO ♂ NO show

Crn - grey VF-Film sl chalky lm
w/pe's wt chalky lm
FEW green sh's

AA w/ less sh's
No ♂ No show

AA w/Few green sh's
No ♂ NO show

Tan - grey Fxlm lm w/Fair ♂
(sl foss)
NO show

wt-Tan - grey VF-Film lm
w/pe's wt chalky lm
FEW sh's

AA w/ NO ♂ NO show

AA

LANSING 2188 (-679)

40

60

80

2200

20

40

60

80

2300

AA

AA No of No show

20

Lim - grey VF-Fxlm sl chalky Lm
Some wt chalky Lm
Some Fair of
Few sh's No show

WT - grey VF-Fxlm sl chalky Lm
w/pe's wt chalky Lm
Few green sh's

40

AA w/Few sh's No of No show

AA w/Some green sh's No of No show

60

Some green sh's
w/pe's Tan-grey VF-Fxlm sl chalky Lm
Some wt chalky Lm

sl show of light oil in cut
MFO No oil wt-Cem VF-Fxlm Lm

80

Tan-grey VF-Fxlm Lm
w/pe's wt chalky Lm
Some green sh's

Lim - wt VF-Fxlm sl chalky Lm
w/Some wt chalky Lm
Some green sh's

2400

AA w/more green sh's

Tan - grey VF-Fxlm sl Foss Lm
w/Some wt chalky Lm
Few green sh's

20

AA w/pe's wt chalky Lm
No of No show

WT - grey VF-Fxlm sl chalky Lm
w/pe's wt chalky Lm
Few green sh's

40

AA w/more sh's No of No show

STARK SHALE 2454

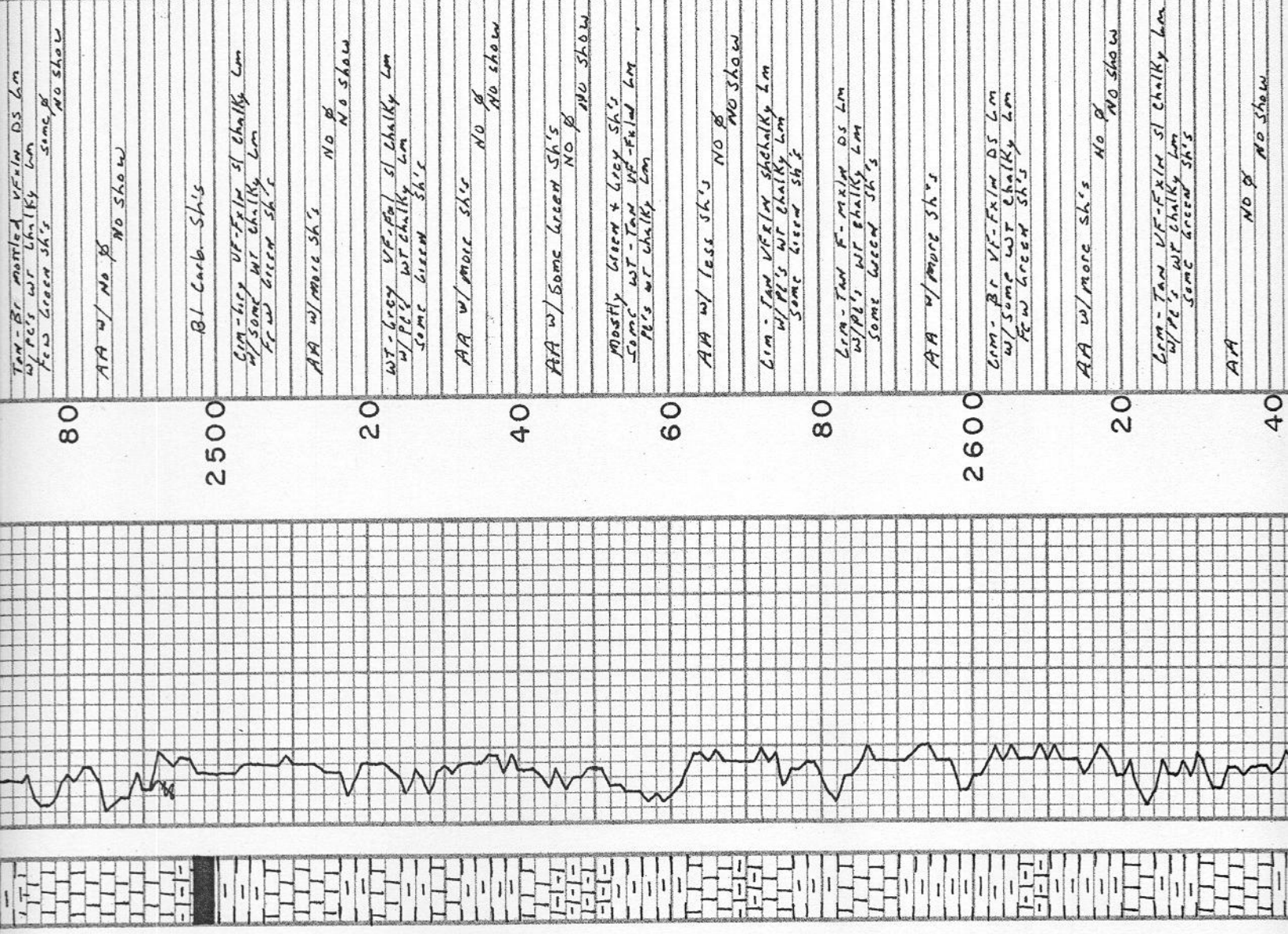
(-945)

60

Gr carb. sh's

Tan + Gr (Mottled) VF-Fxlm DS Lm
w/pe's wt chalky Lm
Few green sh's No show

Tan - Gr mottled VF-Fxlm DS Lm



Tan - Br mottled VF-Fx/LM DS LM
w/PE's w/ chalky LM
few green sh's some ♂
NO SHOW

AA w/ No ♂
NO SHOW

B1 Carb. Sh's

GM - big VF-Fx/LM sl chalky LM
w/ some w/ chalky LM
FE w/ green sh's

AA w/more sh's NO ♂
NO SHOW

WT - grey VF-Fx/LM sl chalky LM
w/PE's w/ chalky LM
some green sh's

AA w/more sh's NO ♂
NO SHOW

AA w/ some green sh's NO ♂
NO SHOW

Mostly green + grey sh's
Some WT - Tan VF-Fx/LM
PE's w/ chalky LM

AA w/ less sh's NO ♂
NO SHOW

LM - Tan VF-Fx/LM chalky LM
w/PE's w/ chalky LM
some green sh's

LM - Tan F-Mix/LM DS LM
w/PE's w/ chalky LM
some green sh's

AA w/more sh's

GM - Br VF-Fx/LM DS LM
w/ some w/ chalky LM
FE w/ green sh's

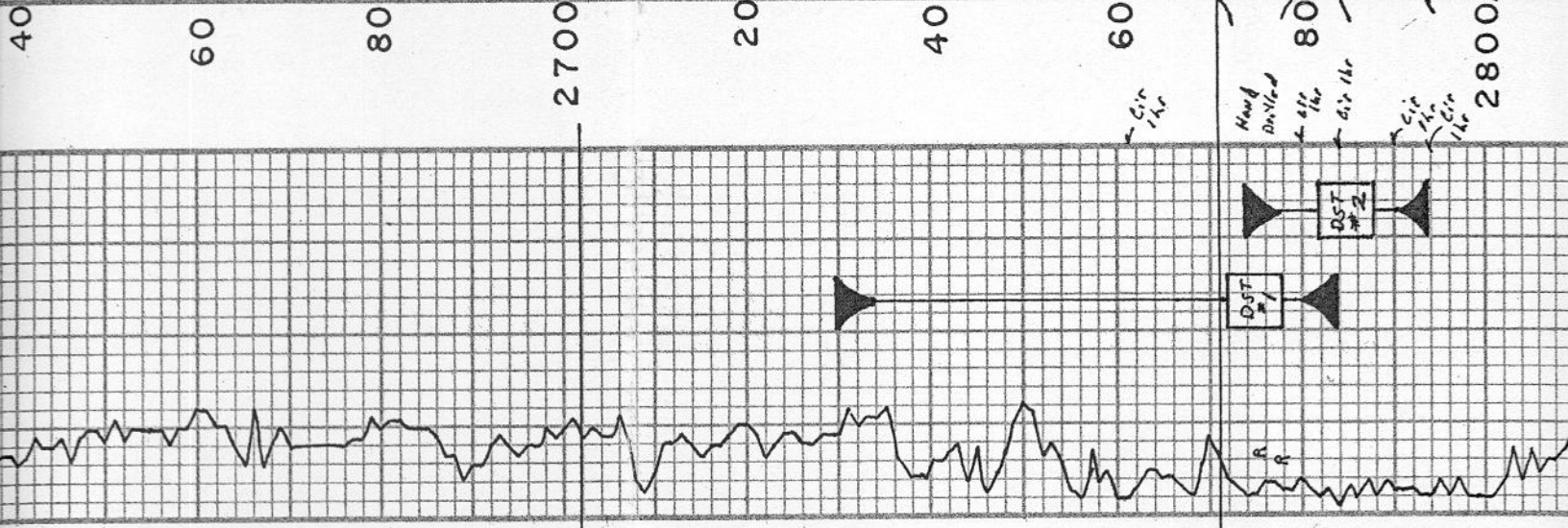
AA w/more sh's NO ♂
NO SHOW

GM - Tan VF-Fx/LM sl chalky LM
w/PE's w/ chalky LM
some green sh's

AA
NO ♂
NO SHOW

CHEROKEE SHALE 2702
(-1193)

40
AA w/more sh's No β No show
WT-17 grey VF-Fair DS LM
w/PC's w/ chalky LM
Some green sh's
60
AA w/ some sh's No β No show
GM-Tan VF-Fair DS LM
w/PC's w/ chalky LM
Some green sh's
80
AA w/more sh's No β No show
GM-Tan VF-Fair DS LM
w/PC's w/ chalky LM
Some green sh's
2700
AA w/more sh's No β No show
NT-Grey VF-Fair sl chalky LM
w/PC's w/ chalky LM
Some green & grey sh's
20
AA w/more sh's No β No show
Mostly green & grey sh's
Some NT-Grey w/ chalky LM
PC's w/ chalky LM
40
AA w/ mostly sh's No β No shows
WT-Grey-Tan VF-Fair sl chalky LM
w/PC's w/ chalky LM
Some green & red sh's
60
AA w/more Red & green sh's
Some f.m grain clear-grey
sandstone clusters w/ shale filled β
No show
AA w/more sh's



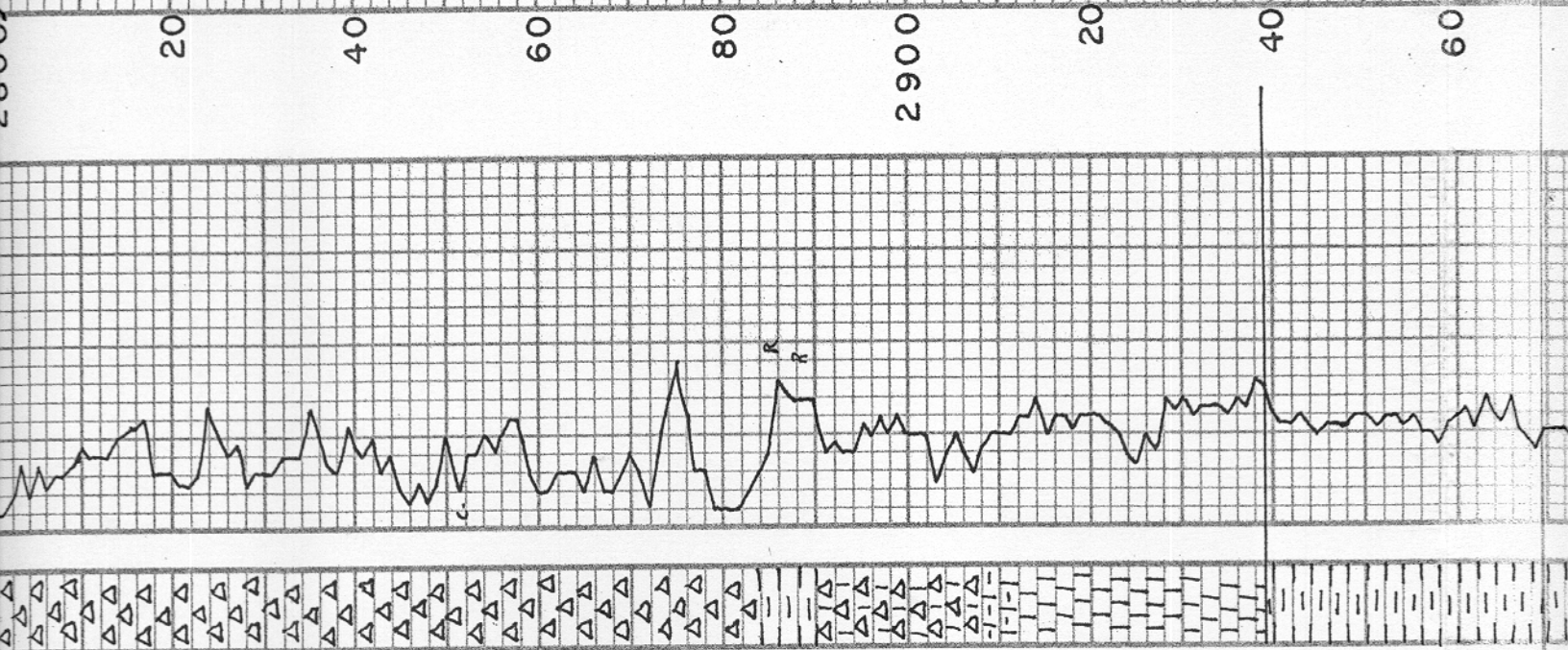
DST #1	2730 - 2784' KB
54' ANCHOR	
TIMES:	30
	30-45- 50 -45
RECOVERED:	No shale
	312' WCM (10' w)
	90' w

RECOVERED: 312' WCM (10xw 905m)
 PRESSURES: FH 1381#
 FH 1331#
 IF 69-137#
 FF 108-150#
 FZIP 382A
 FZIP 383#

DST #2
 2774 - 2794' KB
 20' ANCHOR
 TIMES: 15
 30-45 - 30-45
 RECOVERED: 2215' Gas (94,000 form)
 335' MCSW
 PRESSURES: FH 1402#
 FH 1377#
 IF 32-121#
 FF 144-154#
 FZIP 615#
 FZIP 617#

WT-Tan weathered + sharp Δ's
 FC's WT Chalky Lm
 Few Green Sh's
 AA w/ few sh's NO SHOW
 WT-Tan weathered + sharp Δ's
 Fair NO SHOW
 Clear-Tan weathered + sharp Δ's
 FC's Sh's Some B NO SHOW
 Clear-WT weathered Δ's
 Some B NO SHOW
 WT-Tan weathered + sharp Δ's
 FC's Sh's
 Clear-WT-Tan Tripolitic + sharp Δ's
 FC's WT Chalky Lm
 FEW Sh's
 AA w/ some Green Sh's NO SHOW
 Clear-WT-Tan Tripolitic + sharp Δ's
 FC's WT Chalky Lm
 Some Green Sh's
 AA w/ some Lim-Gray v. Fine DS Lm
 NO B NO SHOW
 WT-Gray v. Fine DS Lm
 w/ FC's WT Chalky Lm
 FEW Sh's
 AA w/ more Sh's NO B NO SHOW
 Lim-Gray v. Fine DS Lm
 w/ FC's WT Chalky Lm
 Some Green Sh's
 AA w/ NO B NO SHOW
 Mostly Green + Grey Sh's
 FC's WT-Tan v. Fine DS Lm
 NO B NO SHOW
 AA
 w/ NO B NO SHOW
 AA w/ mostly Sh's NO B NO SHOW

KINDERHOOK SHALE 2939
 (-1430)



AA w/ mostly sh's No ♂ No show

Green + grey sh's

80

AA w/ No ♂ No show

3000

Green + grey sh's No ♂ No show

AA w/ No ♂ No show

AA w/ No ♂ No show

20

Green + grey sh's

AA w/ No ♂ No show

40

Mostly Green + grey sh's
w/ some wt. - If grey w/ some chalky bn
No ♂ No show

Back to mostly Green + grey sh's

60

AA w/ No ♂ No show

Mostly Green + grey sh's
some Red sh's

80

AA w/ No ♂ No show

AA

No ♂ No show

3100

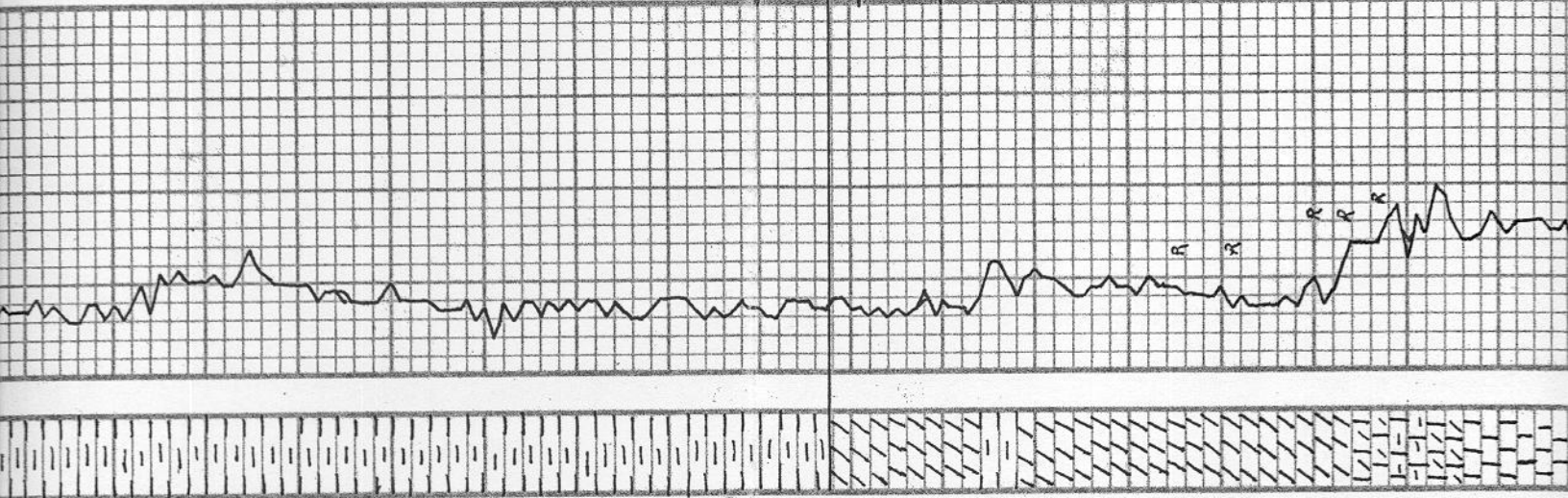
HUNTON 3105 (-1596)

PC's wt-TAM VFXM OS Dale
mostly Green + grey sh's

Mostly Green + Red sh's

20

AA w/ mostly sh's No ♂ No show



NO SHOW

Mostly green + grey sh's
NO ♂
NO SHOW

Mostly green + grey sh's
Some grey siltstone
NO ♂
NO SHOW

AA w/ NO ♂
NO SHOW

Mostly sh's + siltstone
NO ♂
NO SHOW

AA w/ NO ♂
NO SHOW

Mostly green + grey sh's
Some grey siltstone
NO ♂
NO SHOW

Green + grey sh's
Lots of soft sh
NO ♂
NO SHOW

AA w/ NO ♂
NO SHOW

Soft green + grey sh's
NO ♂
NO SHOW

Tan - Br F-Mxin Dolo.
Some Poor Interbed ♂
NO SHOW

tan - Br F-Mxin Dolo.
NO SHOW

WT. Tan - DK Br F-Mxin Dolo.
Some wt chalky Lm
Some green sh's
NO ♂
NO SHOW

Tan - DK Br Mxin Dolo.
PLS wt chalky Lm
Some green sh's
NO SHOW

Tan - Br Mxin Dolo.
w/ some green sh's
Fair ♂
NO SHOW

AA w/ less sh's
Poor - Fair ♂
NO SHOW

Tan - Br F-Mxin Dolomitic Lm
w/ FB's Br Mxin Dolomite
Few green sh's

AA w/ few sh's
NO ♂
NO SHOW

tan - Br F-Mxin Lm
w/ some wt chalky Lm
Few green sh's

VIOLA 3218 (-1709)

DST #3
3314-3334' KB 20' ANCHOR
TIMES: 30-45-30-45
RECOVERED: 10' Mud
PRESSURES: IH 1668 # FH 1600 #
IF 17-19 # FF 19-20 # ISIP 926 # FSIP 977 #

40

60

80

3200

20

40

60

80

air 1hr

air 1hr

air 1hr

R

R

R

R

R

R

W/ some wt chalky LM
Few green sh's

WT - Br VC-Film sl dolomitic LM
w/ some wt chalky LM
Few green sh's

AA w/more sh's No B No show

Fair - Good show of fine oil sl odor
Clear-BI

Weak - Fair show of fine oil "Tite"

Some clusters ~~NEB~~ NO odor

Some sl residue No odor
Sample came later than reported
"Tite" Clear sl cluster w/ good show oil
Fair odor. 3334-60 KB

Clear - Tan P-56 Tite sl clusters
w/ sl show fine oil No odor

Mostly green & grey sh's No B
No show

Mostly green & grey sh's
Some "Tite" sl clusters No B
No show

Mostly green & grey sh's
Few clear - grey sl clusters No B
No show

Clear - Tan P-56 Tite sl clusters
w/ sl show fine oil No odor

Mostly green - grey sh's
Few clear - Tan "Tite" sl clusters
No show

SIMPSON SAND 3325

(-1816)

ROTARY TOTAL DEPTH

3393 (-1884)

DST #4

3314-3344' KB

30' ANCHOR

TIMES:

45-45-45-45

RECOVERED:

496' M.C.S.W. w/show of oil

PRESSURES:

IH 1657 #
FH 1624 #

IF 21-170 #

FF 172-234 #

ISIP 1202 #
FSP 1183

3300

20

40

60

80

3400

20

40

60

