



KANSAS CORPORATION COMMISSION 1077532
OIL & GAS CONSERVATION DIVISION

Form ACO-1
June 2009
Form Must Be Typed
Form must be Signed
All blanks must be Filled

WELL COMPLETION FORM
WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License # 5663
Name: Hess Oil Company
Address 1: PO BOX 1009
Address 2: _____
City: MCPHERSON State: KS Zip: 67460 + 1009
Contact Person: Bryan Hess
Phone: (620) 241-4640
CONTRACTOR: License # 32701
Name: C & G Drilling, Inc.
Wellsite Geologist: James C. Hess
Purchaser: _____

Designate Type of Completion:

- New Well Re-Entry Workover
- Oil WSW SWD SLOW
- 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 #: _____

<u>2/1/2012</u>	<u>2/10/2012</u>	<u>2/10/2012</u>
Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date

API No. 15 - 15-115-21426-00-00

Spot Description: _____
NW SE NW NE Sec. 27 Twp. 18 S. R. 1 East West
900 Feet from North / South Line of Section
1850 Feet from East / West Line of Section

Footages Calculated from Nearest Outside Section Corner:
 NE NW SE SW

County: Marion
Lease Name: Beatrice Well #: 1-27
Field Name: _____
Producing Formation: na
Elevation: Ground: 1500 Kelly Bushing: 1509
Total Depth: 3393 Plug Back Total Depth: _____
Amount of Surface Pipe Set and Cemented at: 211 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: 0 ppm Fluid volume: 0 bbls
Dewatering method used: Evaporated
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: NAOMI JAMES Date: 03/30/2012



1077532

Operator Name: Hess Oil Company Lease Name: Beatrice Well #: 1-27
 Sec. 27 Twp. 18 S. R. 1 East West County: Marion

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 checked="" type="checkbox"/> Yes <input type="checkbox"/> No <i>(Attach Additional Sheets)</i> Samples Sent to Geological Survey <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Cores Taken <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Electric Log Run <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Electric Log Submitted Electronically <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <i>(If no. Submit Copy)</i> List All E. Logs Run: Dual Compensated Porosity Dual Induction	<input type="checkbox"/> Log Formation (Top), Depth and Datum <input checked="" type="checkbox"/> Sample Name Top Datum Attached Attached Attached
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CASING RECORD <input checked="" 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
Surface	12.25	8.625	23	2011	Class A	125	3% cat. 2% gel. 1/4# flocculants

ADDITIONAL CEMENTING / SQUEEZE RECORD				
Purpose:	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
<input type="checkbox"/> Perforate <input type="checkbox"/> Protect Casing <input type="checkbox"/> Plug Back TD <input type="checkbox"/> 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: <input type="checkbox"/> Yes <input type="checkbox"/> No	
Date of First, Resumed Production, SWD or ENHR. _____		Producing Method: <input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> 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) (Submit ACO-4)</i> <input type="checkbox"/> Other (Specify) _____	PRODUCTION INTERVAL: _____ _____
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Form	ACO1 - Well Completion
Operator	Hess Oil Company
Well Name	Beatrice 1-27
Doc ID	1077532

Tops

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
Mcpherson KS 67460
ATTN: Bryan Hess

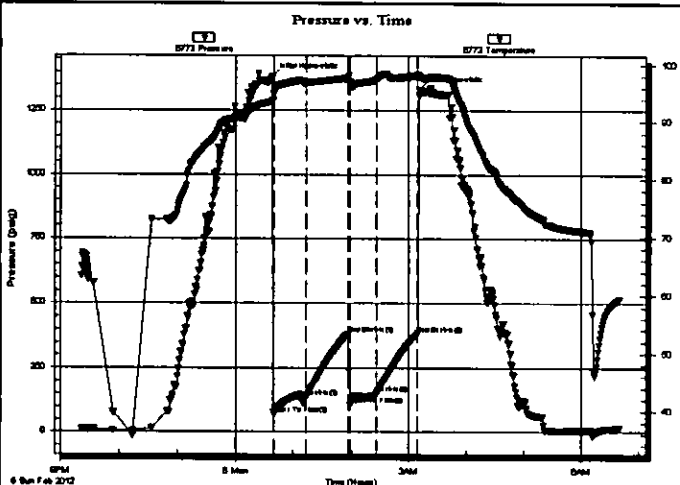
27-18s-1e
Beatrice #1-27
Job Ticket: 47454 DST#: 1
Test Start: 2012.02.05 @ 21:22:02

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**

Serial #: 6773 Outside
Press@RunDepth: **150.70 psig @ 2731.00 ft (KB)**
Start Date: **2012.02.05** End Date: **2012.02.06**
Start Time: **21:22:07** End Time: **06:39:47**
Capacity: **8000.00 psig**
Last Calib.: **2012.02.06**
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

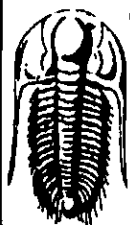
Time (Mn.)	Pressure (psig)	Temp (deg F)	Annotation
0	1381.39	93.60	Initial Hydro-static
2	69.84	94.83	Open To Flow (1)
35	137.14	96.94	Shut-In(1)
78	382.04	97.69	End Shut-In(1)
80	108.14	97.02	Open To Flow (2)
108	150.70	97.41	Shut-In(2)
151	383.08	98.12	End Shut-In(2)
153	1331.96	98.02	Final Hydro-static

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 bbbl
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

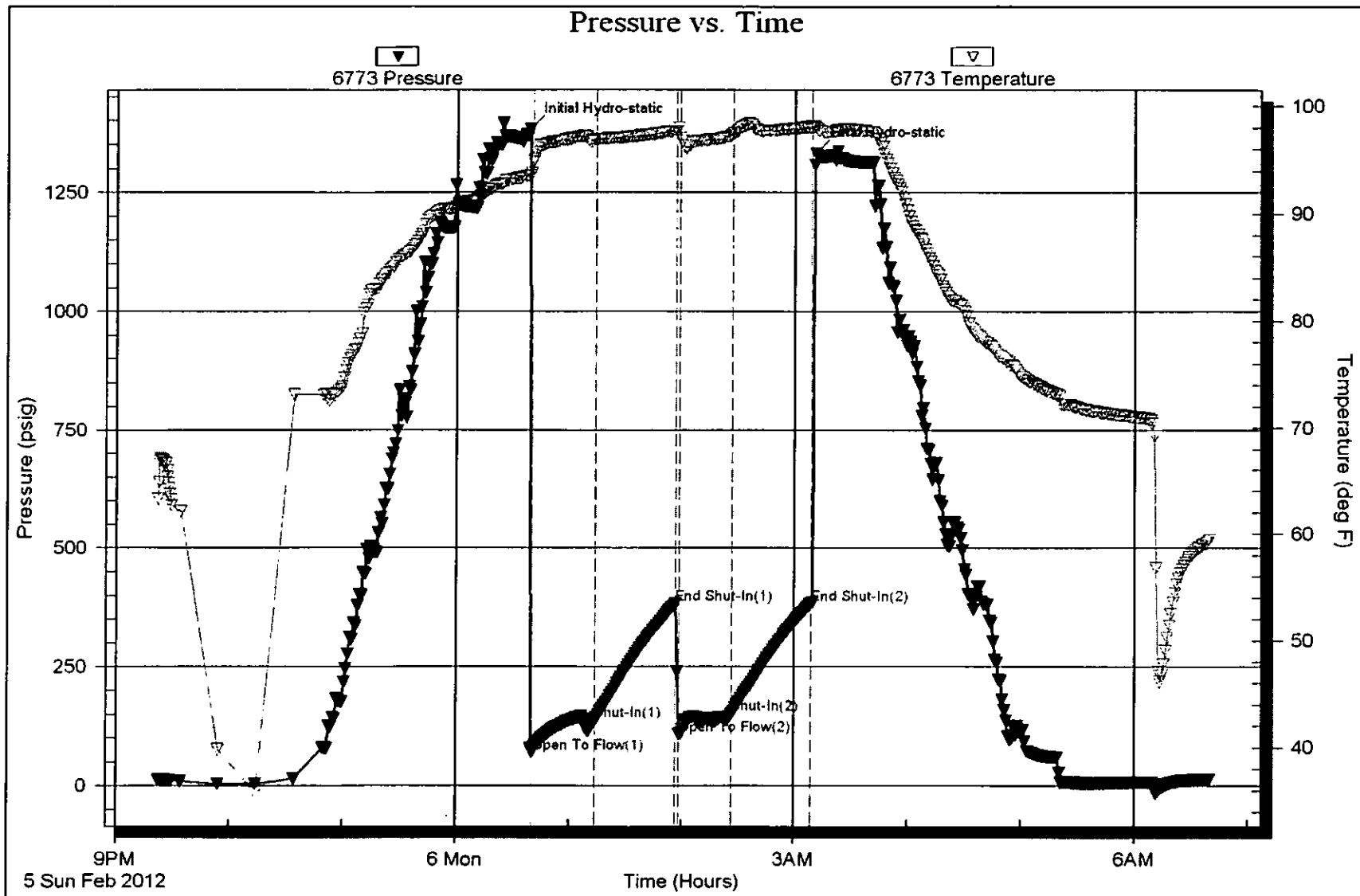
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:





**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Hess Oil Company
PO Box 1009
Mpherson 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

Test Type: **Conventional Bottom Hole (Initial)**

Tester: **Gary Pavoteaux**

Unit No: **56**

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**

Reference Elevations: **1509.00 ft (KB)**

1500.00 ft (CF)

KB to GR/CF: **9.00 ft**

Serial #: 8167

Inside

Press@RunDepth: **154.33 psig @ 2775.00 ft (KB)**

Start Date: **2012.02.06**

End Date:

2012.02.06

Capacity: **8000.00 psig**

Last Calib.: **2012.02.06**

Start Time: **13:46:16**

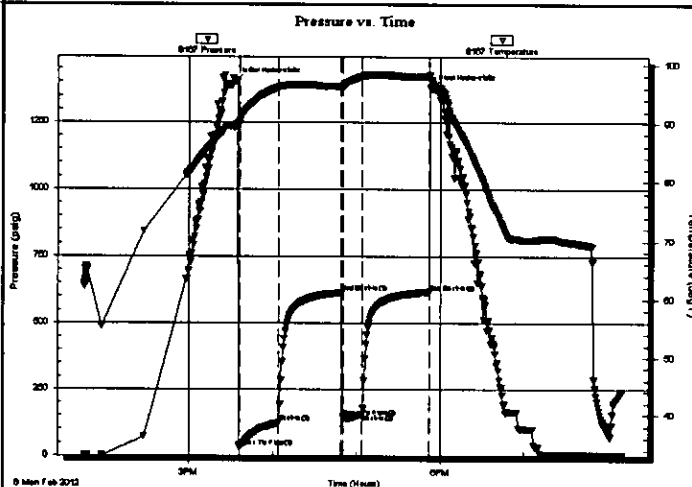
End Time:

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.
FSI: 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% m 95% w /Rw .13ohms@46deg	1.06
180.00	WM 36%w 64%m	1.99
0.00	2215 ftof 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

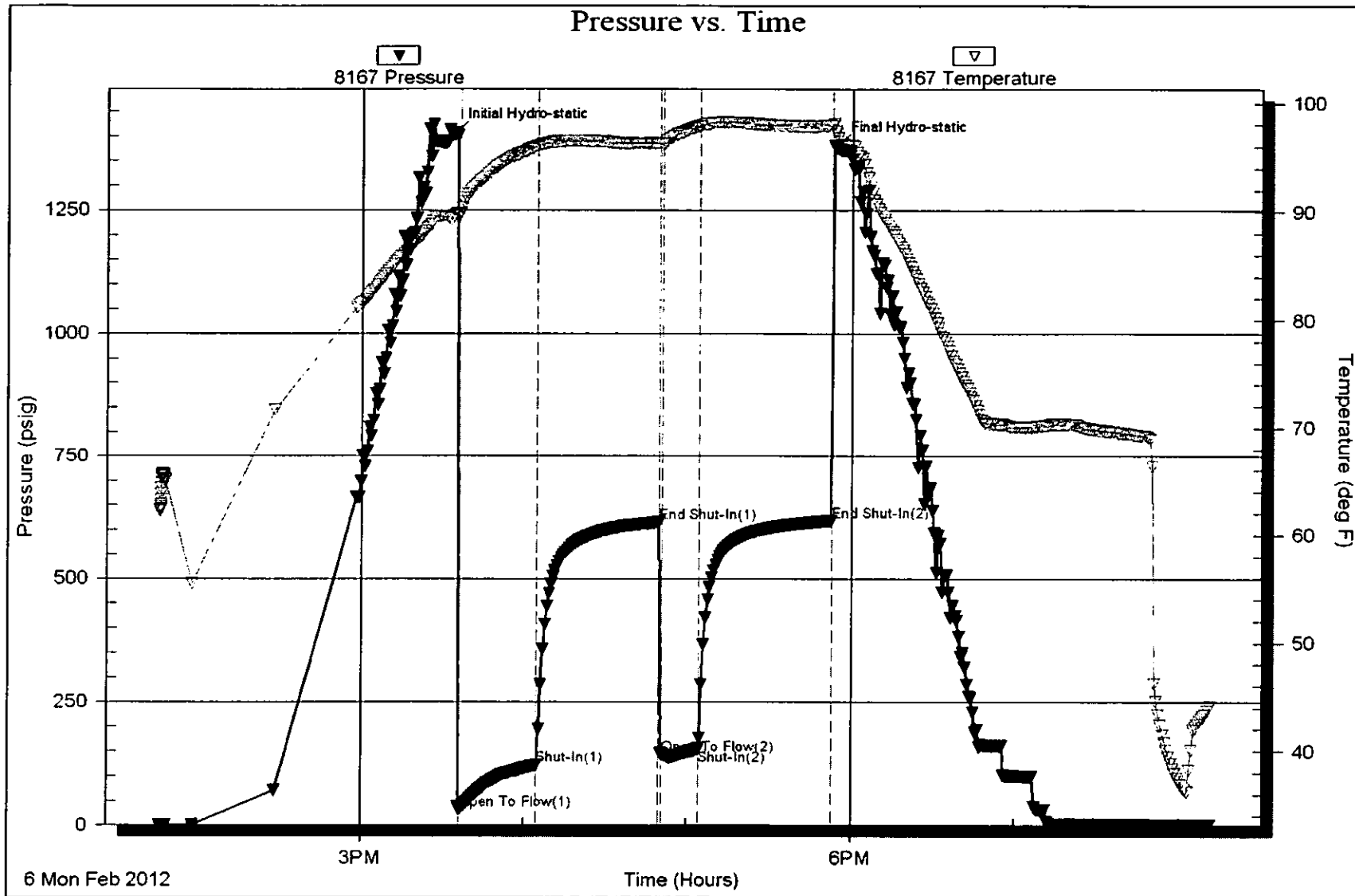
Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	94000 ppm
Viscosity: 56.00 sec/qt	Cushion Volume: bbl		
Water Loss: 9.19 in ³	Gas Cushion Type:		
Resistivity: 0.00 ohm.m	Gas Cushion Pressure: psig		
Salinity: 1700.00 ppm			
Filter Cake: 0.20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

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
215.00	MW 5% _m 95% _w /Rw .13ohms@46deg	1.057
180.00	WM 36% _w 64% _m	1.987
0.00	2215 ft of 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

FLUID SUMMARY

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

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

Mud and Cushion Information

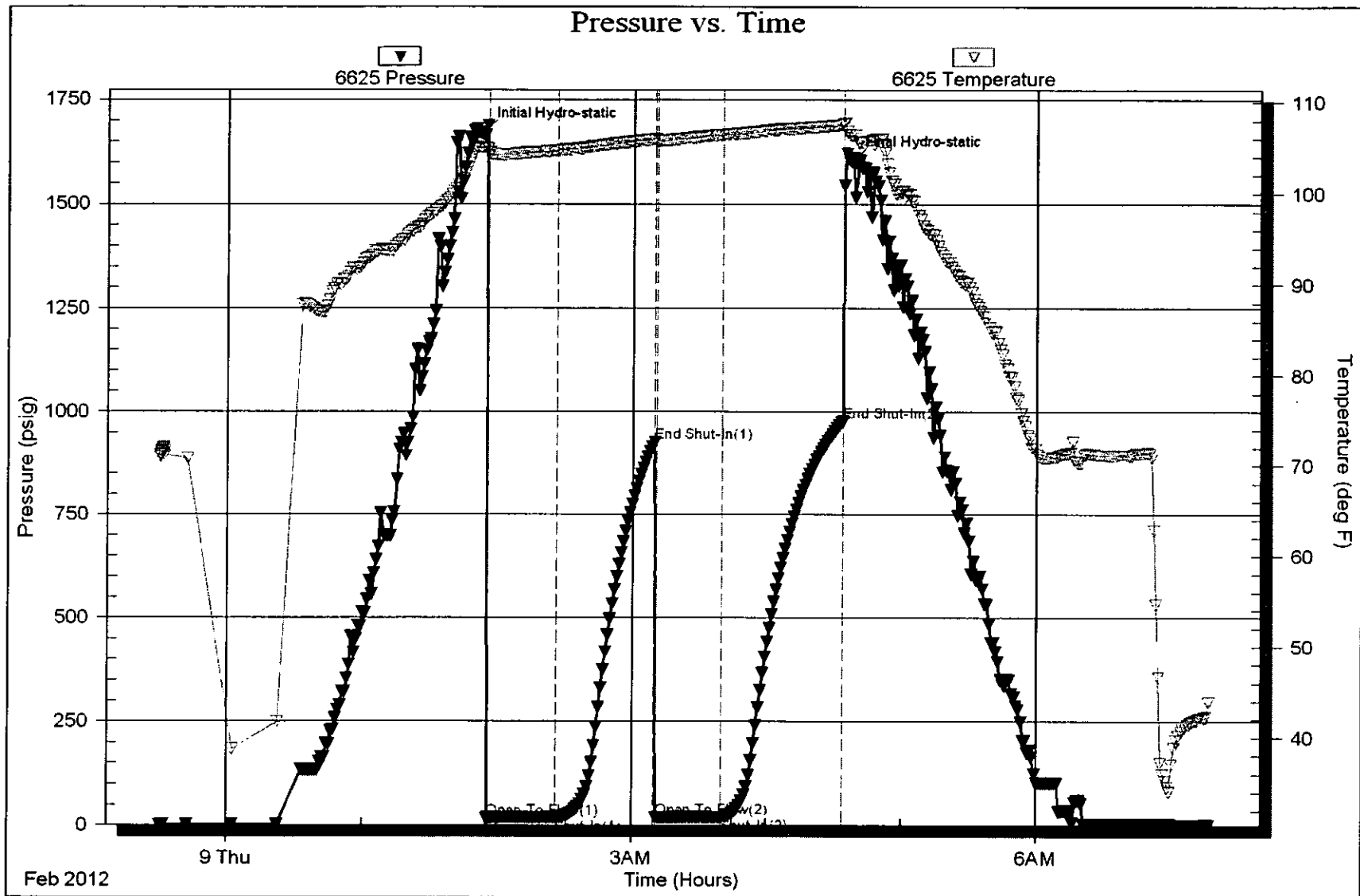
Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 10.00 lb/gal	Cushion Length: ft	Water Salinity:	ppm
Viscosity: 60.00 sec/qt	Cushion Volume: bbl		
Water Loss: 7.97 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 1400.00 ppm			
Filter Cake: 1.00 inches			

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:





**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

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

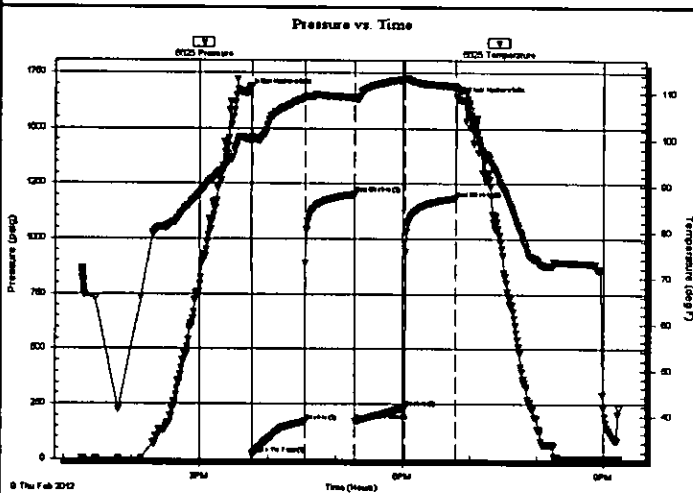
27-18s-1e Marion Ks.
Beatrice #1-27
Job Ticket: 46840 DST#: 4
Test Start: 2012.02.09 @ 13:16:04

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
Reference Elevations: **1507.00 ft (KB)**
1500.00 ft (CF)
KB to GR/CF: **7.00 ft**

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

TEST COMMENT: 45-FIP-w k to a gd bl , 1/4"to 6"bl
45-ISIP-no bl
45-FIP-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

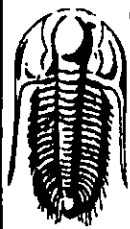
Recovery

Length (ft)	Description	Volume (bbl)
124.00	MW 15%MB5%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
Mcpherson 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

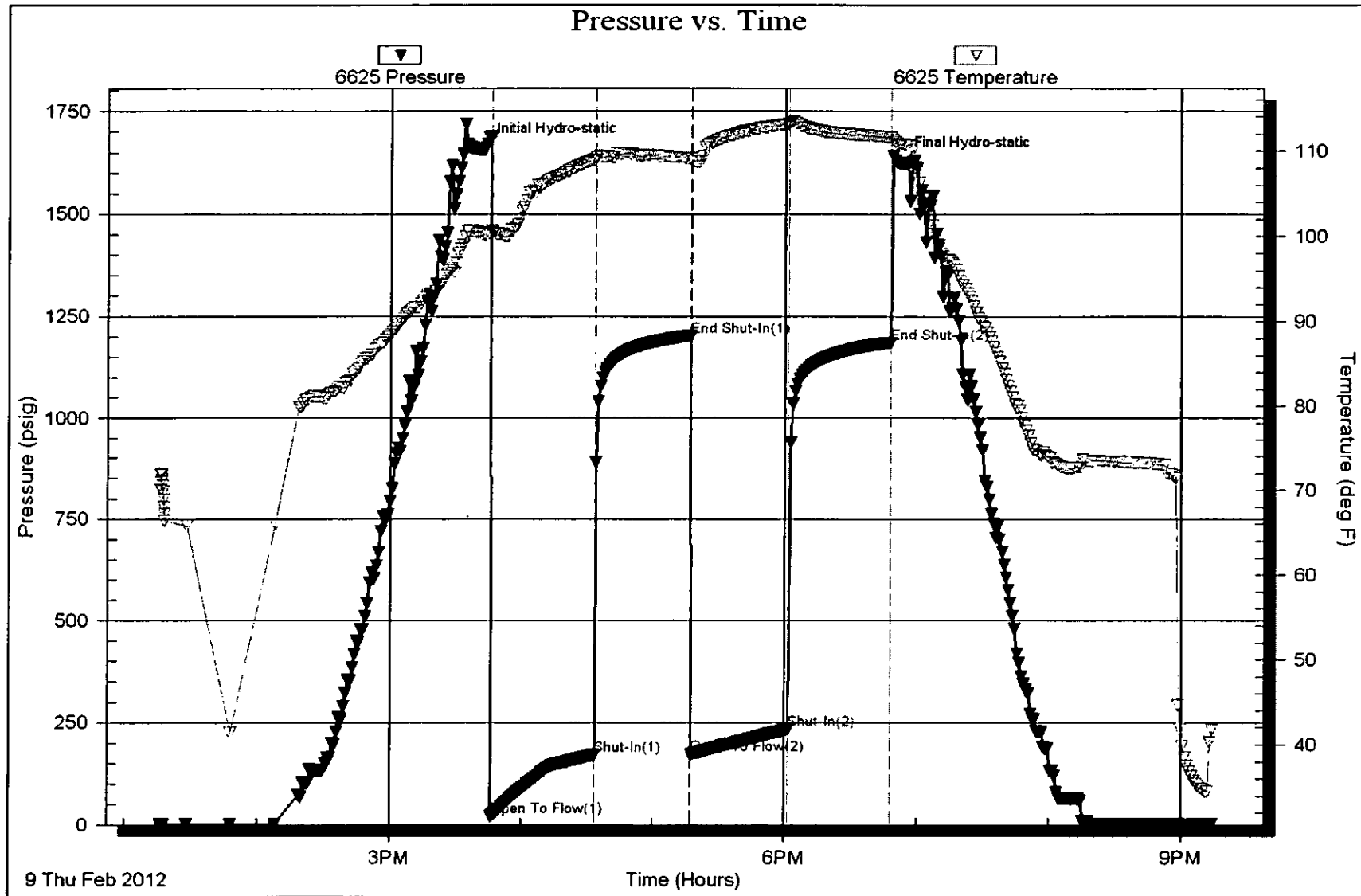
Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	17000 ppm
Viscosity: 51.00 sec/qt	Cushion Volume: bbl		
Water Loss: 7.60 in ³	Gas Cushion Type:		
Resistivity: 0.00 ohm.m	Gas Cushion Pressure: psig		
Salinity: 1100.00 ppm			
Filter Cake: 1.00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

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
124.00	MW 15%MB5%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





ENTERED

TICKET NUMBER 33626
 LOCATION Eureka
 FOREMAN Rick Ledford

PO Box 884, Chanute, KS 68720
 620-431-9210 or 800-467-8676

FIELD TICKET & TREATMENT REPORT

CEMENT API # 15-115-21426

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY	
2/11/12	3628	Beetcke #1-27	27	185	1E	Marion	
CUSTOMER Hess Oil Company			C+G Oris	TRUCK #	DRIVER	TRUCK #	DRIVER
MAILING ADDRESS P.O. Box 1009				445	Dave		
CITY McPherson				502	Steve Davis	(Eldorado)	
STATE KS							
ZIP CODE 67460							

JOB TYPE P.T.A. 0 HOLE SIZE _____ HOLE DEPTH _____ CASING SIZE & WEIGHT _____
 CASING DEPTH _____ DRILL PIPE _____ TUBING _____ OTHER _____
 SLURRY WEIGHT 14 # SLURRY VOL _____ WATER gal/sk 7.0 CEMENT LEFT in CASING _____
 DISPLACEMENT _____ DISPLACEMENT PSI _____ MIX PSI _____ RATE _____

REMARKS: Safety meeting. Rig up to drill pipe. Plugging orders as follows:
35 sks @ 250'
30 sks @ 60' to surface
30 sks @ cathole
20 sks @ mousehole
115 sks total

"Thank You"

ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
5405H	1	PUMP CHARGE	1030.00	1030.00
5406	100	MILEAGE	2.00	200.00
1131	115 sks	60/40 Permox cement	12.55	1443.25
1118B	395 #	420 gal	.21	82.95
5407	4.95	ten mileage bulk truck	1.34	397.98
			subtotal	3194.18
			7.0% SALES TAX	119.04
			ESTIMATED TOTAL	3313.22

Rev'n 3737

241804

AUTHORIZATION Duke Coulter TITLE _____ DATE _____

I acknowledge that the payment terms, unless specifically amended in writing on the front of the form or in the customer's account records, at our office, and conditions of service on the back of this form are in effect for services identified on this form.

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

<u>HUNTON</u>	<u>3105</u>	<u>(-1596)</u>
<u>VIOLA</u>	<u>3218</u>	<u>(-1709)</u>
<u>SIMPSON SAND</u>	<u>3325</u>	<u>(-1816)</u>

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

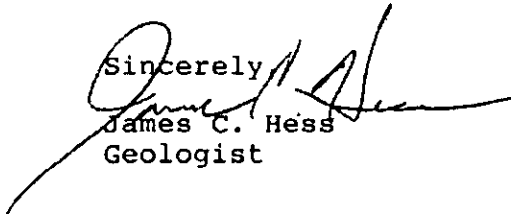
3393 (-1884)

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.



HESS OIL COMPANY

P.O. Box 1009

McPherson, KS 67460-1009

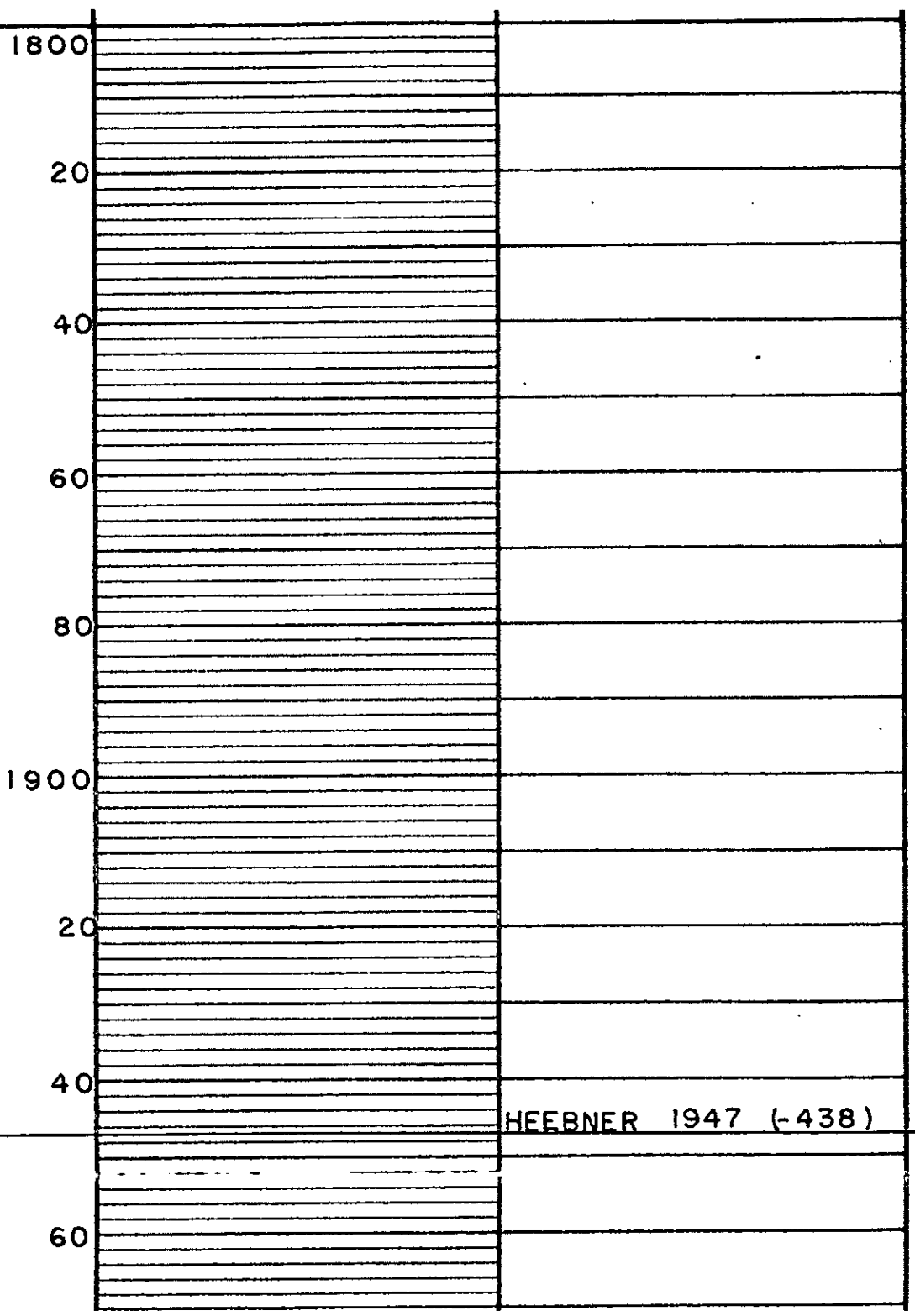
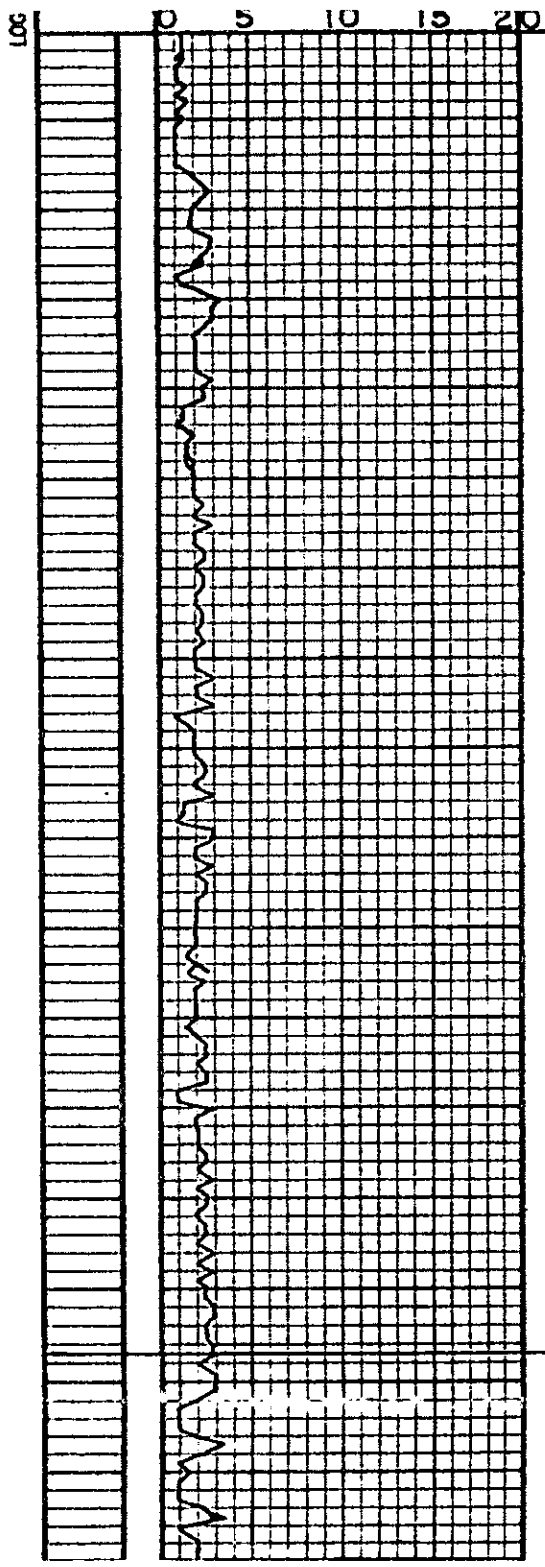
O.I.L.

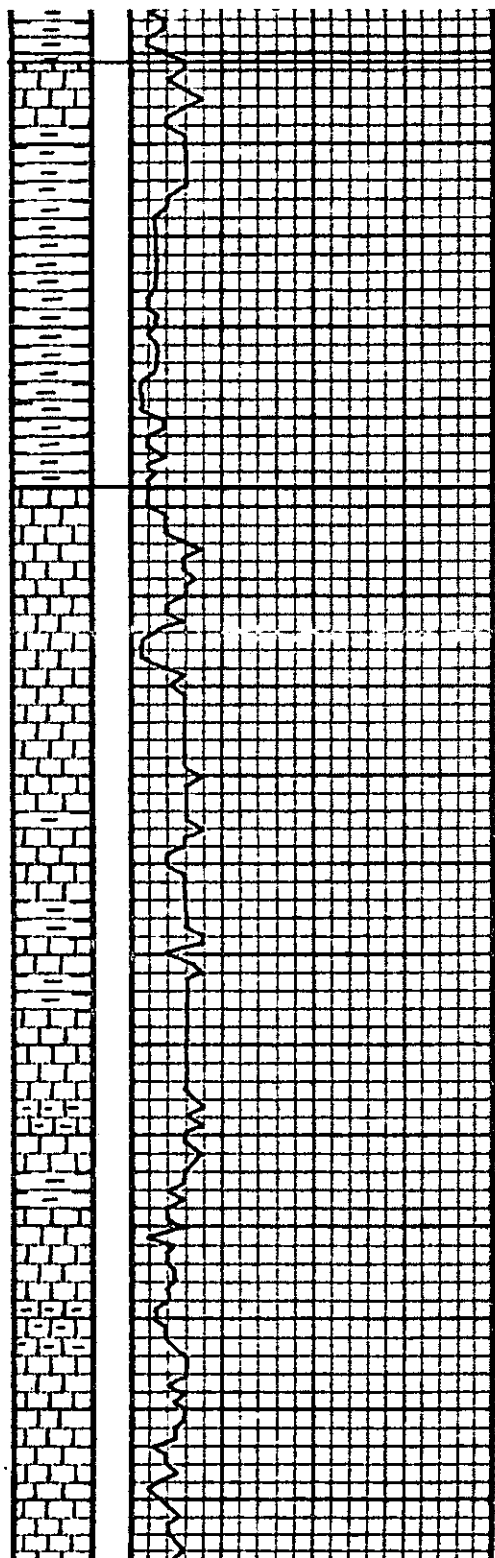
C.O.

GEOLOGIST'S REPORT

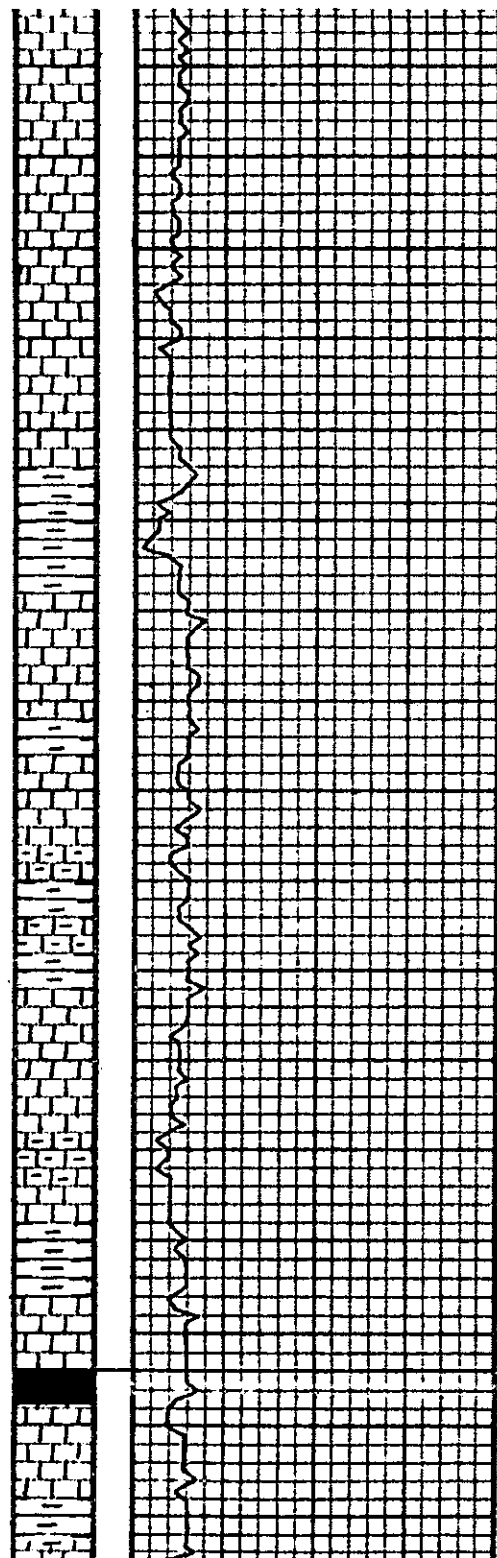
DRILLING TIME AND SAMPLE LOG

COMPANY <u>HESS OIL COMPANY</u>		ELEVATIONS																																	
LEASE <u>BEATRICE #1-27</u>		KB <u>1509'</u>																																	
FIELD <u>- WILDCAT -</u>		DF <u>1507'</u>																																	
LOCATION <u>900' FNL, 1850' FEL</u>		GL <u>1500'</u>																																	
SEC <u>27</u> TWSP <u>18 S</u> RGE <u>1 E</u>		Measurements Are All From <u>KB</u>																																	
COUNTY <u>MARION</u> STATE <u>KANSAS</u>																																			
CONTRACTOR <u>C & G DRILLING COMPANY</u>		CASING SURFACE <u>8-5/8" at 200'</u>																																	
SPUD <u>2-1-12</u> COMP <u>2-10-12</u>		PRODUCTION <u>none</u>																																	
RTD <u>3393'</u> LTD <u>3394'</u>		ELECTRICAL SURVEYS																																	
MUD UP <u>2450'</u> TYPE MUD <u>CHEMICAL</u>		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"> <tr><td></td><td></td><td>1 E</td><td></td></tr> <tr><td></td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td></td><td></td></tr> </table>			1 E																													
		1 E																																	
LANSING		2188 (-679)																																	
MISSISSIPPI		2771 (-1262)																																	
KINDERHOOK SHALE		2939 (-1430)																																	
VIOLA		3218 (-1709)																																	
SIMPSON SAND		3325 (-1816)																																	
ARBUCKLE		none																																	
R T D		3393 (-1884)																																	

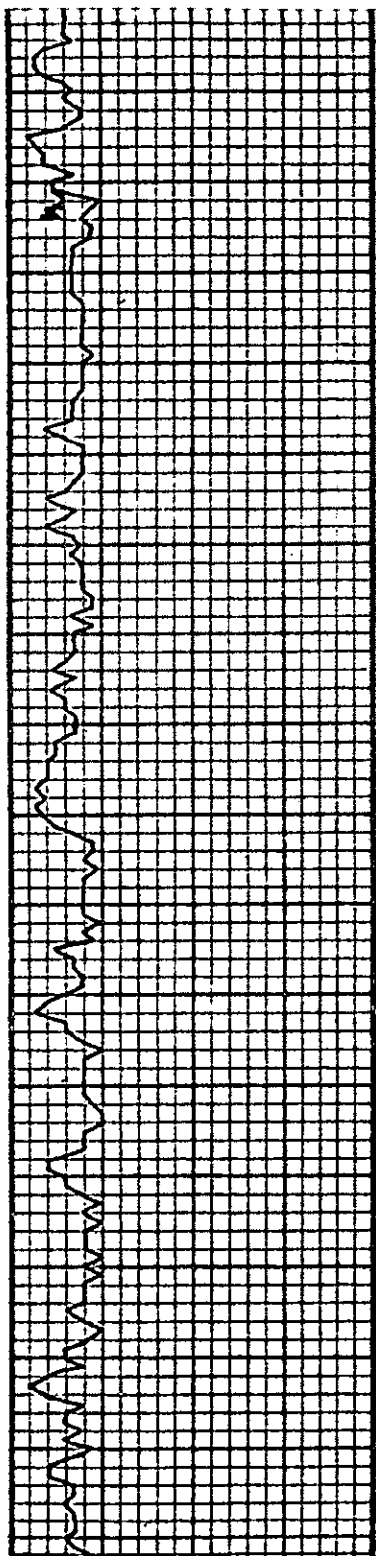




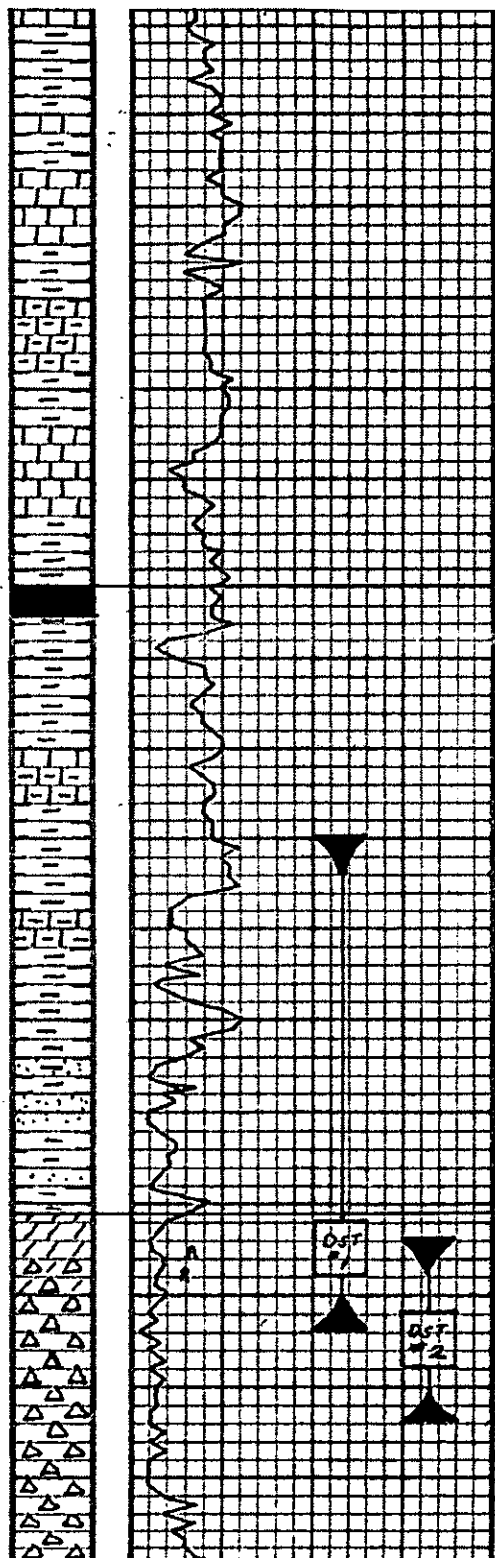
40	w/pe's Lm no show	BROWN LIME 2141 (-632)
	Tan - Br V-FIN OS LM Some Green sh's	
	Mostly heavy Red sh's w/pe's Lm	
60		
	Mostly heavy - bedded sh's no p no show	
	Mostly sh's	
80	AA w/ NO p no show	LANSING 2188 (-679)
	Lm - Grey V-F - Pale & Chalky Lm w/pe's w/ Chalky Lm Some heavy sh's	
2200		
	Tan - heavy Pale sl. Foss. Lm w/pe's w/ shaly Lm Few Green sh's Fair p no show	
	Com - Grey Extra sl. Foss. Lm w/pe's w/ shaly Lm Few sh's	
20		
	AA w/ NO p no show	
	AA w/ some heavy sh's no p no show	
40		
	Lm - heavy V-F - Pale sl. Chalky Lm w/pe's w/ Chalky Lm Few heavy sh's	
	AA w/ less sh's no p no show	
60		
	AA w/ Few Green sh's no p no show	
	Tan - heavy Pale Lm (sl. Foss) w/pe's p no show	
80		
	wt-Tan - heavy V-F - Pale Lm w/pe's w/ Chalky Lm Few sh's	
	AA w/ NO p no show	
2300		
	AA	



	AA	
	AA	
20	No P No show	
	Lim - Gray v. fine sl. chalky lm Some wt. chalky lm Few sh's Some fine sh.	
40	wt - gray v. fine sl. chalky lm w/ pe's wt. chalky lm Few green sh's	
	AA w/ few sh's No P No show	
	AA w/ some green sh's No P No show	
60	Some green sh's w/ pe's tan - gray v. fine sl. chalky lm Some wt. chalky lm	
	Sl show of light oil in cut No P No show	
80	Tan - gray v. fine lm w/ pe's wt. chalky lm Some green sh's	
	Lim - wt. v. fine sl. chalky lm w/ some wt. chalky lm Some green sh's	
2400	AA w/ more green sh's	
	Tan - gray v. fine sl. fine lm w/ some wt. chalky lm Few green sh's	
20	AA w/ pe's wt. chalky lm No P No show	
	wt - gray v. fine sl. chalky lm w/ pe's wt. chalky lm Few green sh's	
40	AA w/ no sh's No P No show	
	STARK SHALE 2454	
	Bl carb. sh's	(-945)
60	Tan - Bl (mottled) v. fine pe lm w/ pe's wt. chalky lm Few green sh's No show	
	Tan - Bl mottled, v. fine pe lm	



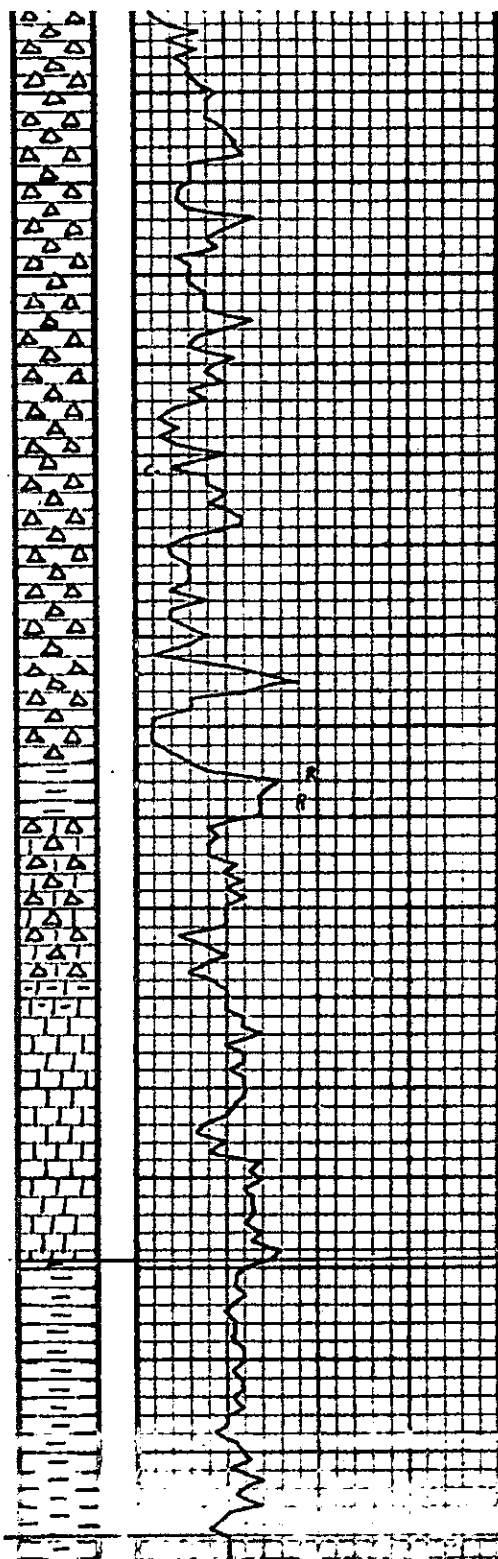
80	Lim - Br. marled v. fine DS Lm w/ PE's w/ chalky Lm Few Green sh's some # NO SHOW
	AA w/ No # NO SHOW
2500	Bl. Carb. Sh's
	Lim - lgy v. fine sl chalky Lm w/ some w/ chalky Lm Few Green sh's
	AA w/ more sh's NO # NO SHOW
20	WT - lgy v. fine sl chalky Lm w/ PE's w/ chalky Lm Some Green sh's
	AA w/ more sh's NO # NO SHOW
40	AA w/ some Green sh's NO # NO SHOW
	Mostly lgy + lgy sh's Some w/ Tan v. fine Lm PE's w/ chalky Lm
60	AA w/ less sh's NO # NO SHOW
	Lim - Tan v. fine sh. chalky Lm w/ PE's w/ chalky Lm Some Green sh's
80	Lim - Tan F. marl DS Lm w/ PE's w/ chalky Lm Some Green sh's
	AA w/ more sh's
2600	Lim - Br. v. fine DS Lm w/ some w/ chalky Lm Few Green sh's
	AA w/ more sh's NO # NO SHOW
20	Lim - Tan v. fine sl chalky Lm w/ PE's w/ chalky Lm Some Green sh's
	AA NO # NO SHOW
40	



40	NO SHOW	
	AA w/ more sh's	
	NO #	
	NO SHOW	
	WT - 1/2 grey vt - fine DS Lm	
	w/PC's wt chalky Lm	
	Some green sh's	
60	AA w/ some sh's	
	NO #	
	NO SHOW	
	Lm - Tan vt - fine DS Lm	
	w/PC's wt chalky Lm	
	Some green sh's	
80	AA w/ more sh's	
	NO #	
	NO SHOW	
	Lm - Tan vt - fine DS Lm	
	w/PC's wt chalky Lm	
	Some green sh's	
2700		CHEROKEE SHALE 2702
	AA Bl. Carb. sh's	
		(-1193)
	WT - grey vt - fine sl chalky Lm	
	w/PC's wt chalky Lm	
	Some green & grey sh's	
	AA w/ more sh's	
	NO #	
	NO SHOW	
20	Mostly green & grey sh's	
	Some wt - grey vt fine Lm	
	PC's wt chalky Lm	
	AA w/ mostly sh's	
	NO #	
	NO SHOW	
40	WT - grey - Tan vt - fine sl chalky Lm	
	w/PC's wt chalky Lm	
	Some green & red sh's	
	AA w/ more red & green sh's	
	Some fine green clear - grey sandstone clastic w/ shale filled	
	NO SHOW	
60	AA w/ more sh's	
		MISSISSIPPI 2771 (-1262)
	WT vt - fine DS. Dolo. w/ gas bubbles	
	vt fine #	
	NO SHOW	
80	WT weathered DS stain Lm's some w/ oil	
	DS Lm's bubbles some oil stain	
	Lead show of Lm bubbles in oil	
	Ear's show oil wt weathered & sh'm	
	DS	
	Ear's Lm bubbles in wt nicotine	
	& show DS some in edge	
	DS oil sl show oil	
2800		
	WT - fine weathered & cherty Lm	
	vt wt chalky Lm	
	Some green sh's	

short trip 19 cards (right 1900-2100)

DST #1
2730 - 2784' KB
54' ANCHOR
TIMES: 30
30 - 45 - 50 - 45
RECOVERED: No shales (103 w) 312' WCM (90.5 w)



	WT - Top weathered + sharp D's 10' WT Chalky Lm Few green sh's
	AA w/ few sh's No show
20	WT - Top weathered + sharp D's Fair L No show
	Clear - Top weathered + sharp D's Few sh's Some B No show
40	Clear - WT weathered D's Some B No show
	WT - Top weathered + sharp D's Few sh's
60	Clear - WT - Top Tripolitic + sharp D's PE's WT Chalky Lm Few sh's
	AA w/ some Green sh's No show
80	Clear - WT - Top Tripolitic + sharp D's PE's WT Chalky Lm Some Green sh's
	AA w/ some Lm - Gray V. Pale D's Lm No B No show
2900	WT - Heavy WT - Pale D's Lm w/ PE's WT Chalky Lm Fair sh's
	AA w/ more sh's No B No show
20	Lm - Grey WT - Pale D's Lm w/ PE's WT Chalky Lm Some Green sh's
	AA w/ No B No show
40	Mostly heavy & heavy sh's PE's WT - Top V. Pale D's Lm No B No show
	AA w/ No B No show
60	AA w/ mostly sh's - No B No show

RECOVERED: ^{2215'}
312' WCM (103W)
903M

PRESSURES:
SH 1361"
FH 1331"
IF 69-137"
FF 108-150"
FSIP 983"
FSIP 983"

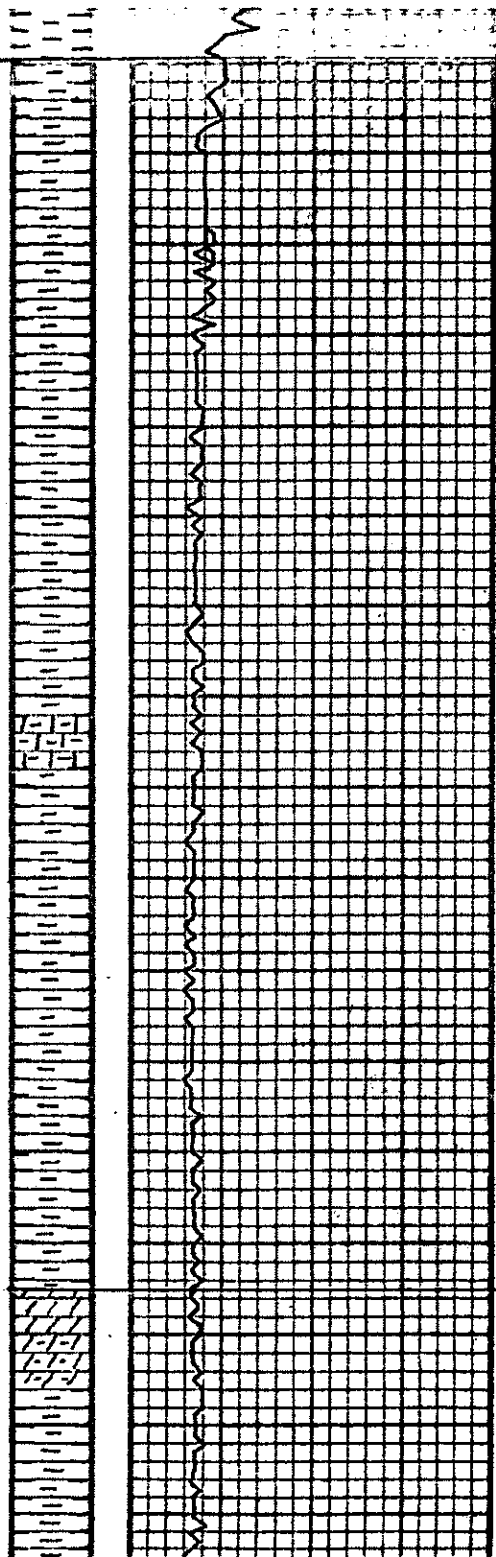
DST #2
2774 - 2794' KB
20' ANCHOR

TIMES: 15
30-45-~~50~~-45

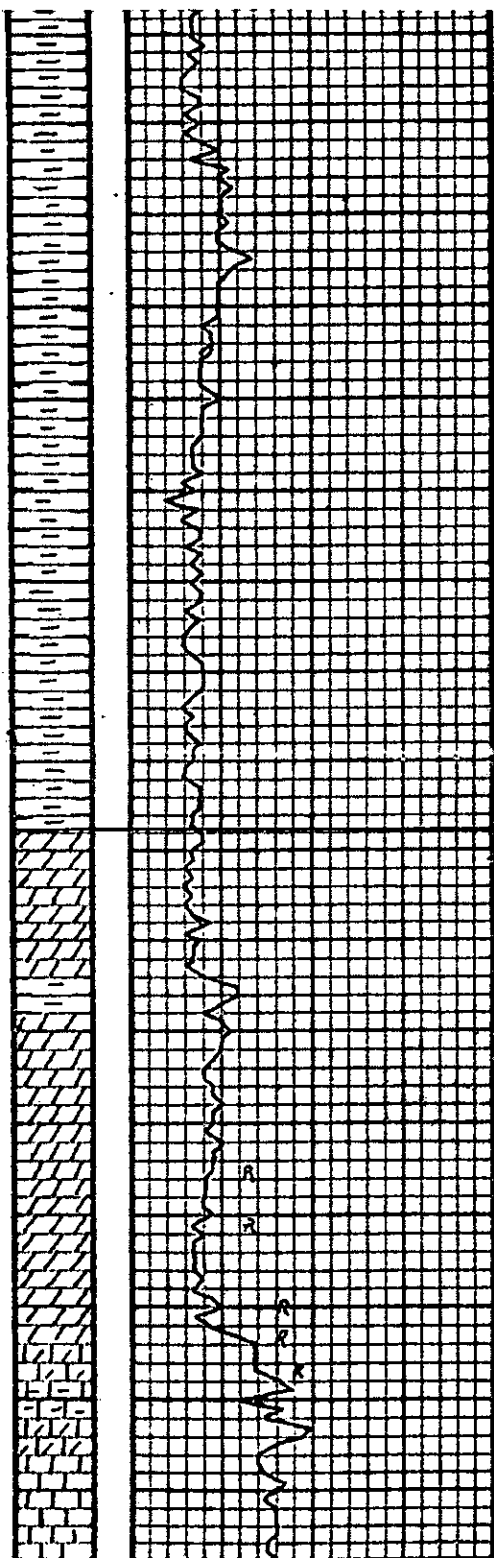
RECOVERED:
2215' Lm
835' ACSLW (94,000 ppm)

PRESSURES:
IH 1402"
FH 1377"
IF 32-121"
FF 144-154"
JSIP 615"
FSIP 617"

KINDERHOOK SHALE 2939
(-1430)



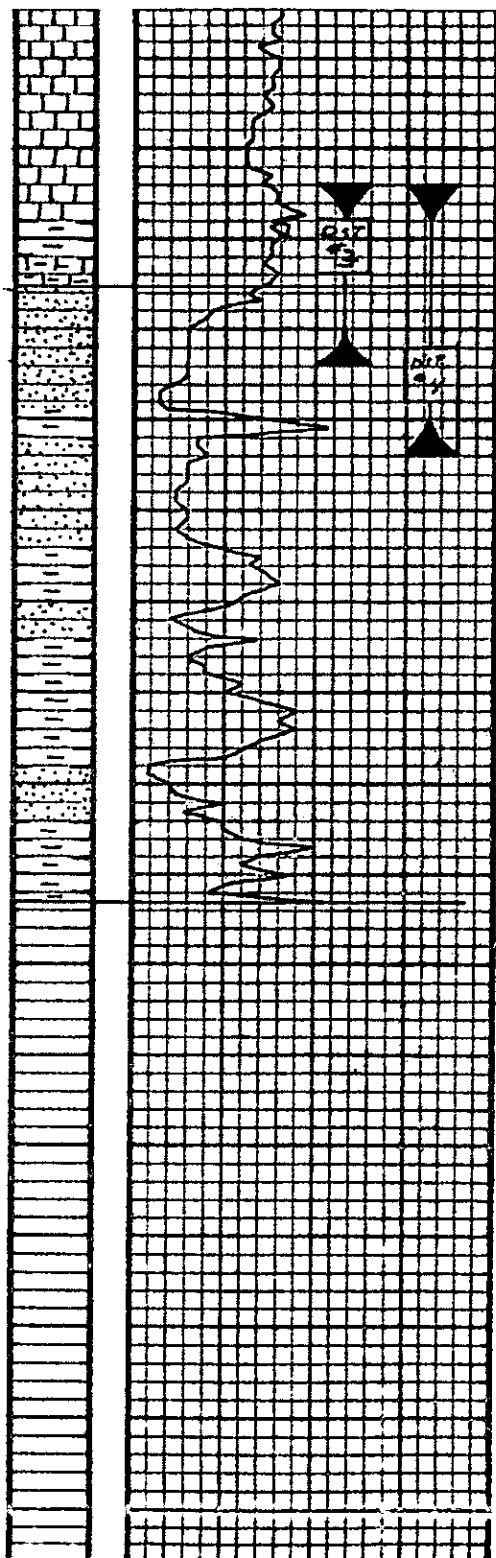
	AA w/ mostly sh's NO # NO SHOW	
80	Green + grey sh's	
	AA w/ NO # NO SHOW	
3000	Green + grey sh's NO # NO SHOW	
	AA w/ NO # NO SHOW	
	AA w/ NO # NO SHOW	
20	Green + grey sh's	
	AA w/ NO # NO SHOW	
40	Mostly Green + grey sh's w/ some wt. in grey shale NO # NO SHOW	
	Back to mostly Green + Grey sh's	
60	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-TAN VE-IN OS Dola 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
40	Mostly green & grey sh's Some grey siltstone No # NO SHOW
	AA w/ No # No show
60	Mostly sh's & siltstone No # NO SHOW
	AA w/ No # No show
80	Mostly green & grey sh's Some grey siltstone No # NO SHOW
	Green & grey sh's Lots of soft sh No # NO SHOW
3200	AA w/ No # No show
	Soft green & grey sh's No # NO SHOW
20	Top - Dr F-main Dolo Some fine limestone # No show Com - Dr F-main Dolo NO SHOW
	WT-TAN - DR Br F-main Dolo Some w/ chalky lm Some green sh's No # NO SHOW
40	Tan - DR Br main Dolo Pr's w/ chalky lm Some green sh's No show
	Top - Dr main Dolo w/ some green sh's No # NO SHOW
60	AA w/ fine sh's Poor - fine # No show
	Top - Dr F-main Dolomitic lm w/ Pr's of main Dolomite Few green sh's
80	AA w/ fine sh's No # NO SHOW
	Com - Dr F-main 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 1648" FH 1600" IF 17-19" FP 19-20" ISIP 926" FSIP 977"



3300	U/Sand, wt. chalky, low Few green sh's
	WT - Br. U.S. Paleol. sl. dolomitic Lm w/ some wt. chalky, low Few green sh's
20	AA w/ fine sh's NO P NO SHOW
	Fair - lead show of fine oil sl odor Clear - Br
	Weak - fair show of fine oil "Fire"
40	Sand - blue-gray - NO P NO SHOW Same as (above) NO P Sample came later than expected "Fire" clear in cluster; "Good show of Fair odor. 3329-40 W"
	Clear - Tan P-16 1770 ss clusters w/ sl show fine sl. NO odor
60	Mostly green & grey sh's NO P NO SHOW
	Mostly green & grey sh's Some "P.P." ss clusters NO P NO SHOW
80	Mostly green & grey sh's Few clear - grey ss clusters NO P NO SHOW
	Clear - Tan P-16 U.S. P. bed ss clusters black. Reddish Some barren P NO SHOW
	Mostly green - grey sh's Few clear - Tan "P.P." ss 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 w/ oil
PRESSURES: 2H 1657" FH 1624"
ZF 21 - 170" RF 172 - 334"
ISZP 1202" FSZP 1185"