

KANSAS CORPORATION COMMISSION  
OIL & GAS CONSERVATION DIVISION

**ORIGINAL**

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: P. O. Box 1009

Address 2: \_\_\_\_\_

City: McPherson State: KS Zip: 67460 + 1009

Contact Person: Bryan Hess

Phone: ( 620 ) 241-4640

CONTRACTOR: License # 34127

Name: Tomcat Drilling LLC

Wellsite Geologist: Macklin M. Armstrong

Purchaser: DCP Midstream, LP

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 #: \_\_\_\_\_

12/28/2010      1/16/2011      2/23/2011

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

API No. 15 - 119-21279-00-00

Spot Description: \_\_\_\_\_

\_\_\_\_\_NE SW Sec. 36 Twp. 34 S. R. 30  East  West

1,980 Feet from  North /  South Line of Section

1,980 Feet from  East /  West Line of Section

Footages Calculated from Nearest Outside Section Corner:

- NE       NW       SE       SW

County: Meade

Lease Name: Adams Well #: 1-36

Field Name: Adams Ranch

Producing Formation: Chester

Elevation: Ground: 2564 Kelly Bushing: 2572

Total Depth: 6306 Plug Back Total Depth: 6090

Amount of Surface Pipe Set and Cemented at: 1411 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: 60 bbls

Dewatering method used: Hauled to disposal

Location of fluid disposal if hauled offsite: \_\_\_\_\_

Operator Name: Nichols Fluid Service, Inc.

Lease Name: Johnson License #: 31983

Quarter NW Sec. 16 Twp. 34 S. R. 32  East  West

County: Seward Permit #: D-27805

**INSTRUCTIONS:** An original and two copies of this form shall be filed with the Kansas Corporation Commission, 130 S. Market - Room 2078, Wichita, Kansas 67202, within 120 days of the spud date, recompletion, workover or conversion of a well. Rule 82-3-130, 82-3-106 and 82-3-107 apply. Information of side two of this form will be held confidential for a period of 12 months if requested in writing and submitted with the form (see rule 82-3-107 for confidentiality in excess of 12 months). One copy of all wireline logs and geologist well report shall be attached with this form. ALL CEMENTING TICKETS MUST BE ATTACHED. Submit CP-4 form with all plugged wells. Submit CP-111 form with all temporarily abandoned wells.

**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.

Signature: Bryan Hess

Title: Bryan Hess, President Date: 6/21/2011

**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: Dlg Date: 7/8/11

Operator Name: Hess Oil Company Lease Name: Adams Well #: 1-36  
 Sec. 36 Twp. 34 S. R. 30  East  West County: Meade

**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: <b>Sonic, Micro, Dual Induction, Compensated Density/Neutron PE</b>	<input type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample  Name Top Datum
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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
Conductor	32	20		77	common	225	2% gel, 3% cc
Surface	12.25	8.625	24	1411	A-Con	475	
Production	7.875	4.5	11.6	6303	AA-2	150	10% salt, 6% C15, 5% W60

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				<b>RECEIVED</b> <b>JUN 27 2011</b>

Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record (Amount and Kind of Material Used)	Depth
4	Perf 6222'-6229'	Acid - 1000 gal 7.5% MCA	
	Set CIBP @ 6090'		
1	Perf 6007'-6014', 5996'-5998', 5974'-5984', 5955'-5958', 5944'-5948'	Acid - 3000 gal 15% NE FE	
		Frac - 31,500 gal foam nitrogen & 32,500# sand	

<b>TUBING RECORD:</b>	Size: <u>2.375</u>	Set At: <u>5920</u>	Packer At:	Liner Run: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
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Date of First, Resumed Production, SWD or ENHR. <u>5/13/2011</u>	Producing Method: <input checked="" type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other (Explain) _____				
Estimated Production Per 24 Hours	Oil Bbls. <u>0</u>	Gas Mcf <u>150</u>	Water Bbls. <u>5</u>	Gas-Oil Ratio	Gravity

<b>DISPOSITION OF GAS:</b> <input type="checkbox"/> Vented <input checked="" type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	<b>METHOD OF COMPLETION:</b> <input type="checkbox"/> Open Hole <input checked="" type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <input type="checkbox"/> Other (Specify) _____ <i>(Submit ACO-5)</i> <i>(Submit ACO-4)</i>	<b>PRODUCTION INTERVAL:</b> <u>5944'-6014'</u>
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**HESS OIL COMPANY**

P.O. Box 1009

McPherson, KS 67460

**ACO-1 Completion Form Attachment**

**Adams #1-36**

**NE SW**

**1980' FSL, 1980' FWL**

**Section 36-34-30W, Meade County**

Elev: 2572' KB

<b>Formation</b>	<b>Log Tops</b>	<b>(datum)</b>
Winfield	2732 smpl	-160
Council Grove	3107	-535
Heebner	4430	-1858
Toronto	4476	-1904
Lansing	4529	-1957
Kansas City	4874	-2302
Marmaton	5283	-2711
Cherokee Shale	5503	-2931
Morrow Shale	5848	-3276
Upper Morrow Sand	5874	-3302
Lower Morrow Sand	5914	-3342
Chester	5959	-3387
Basal Chester Sand	6204	-3632
St. Genevieve	6261	-3689
RTD	6300	-3728
LTD	6306	-3734

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## Cement Report

Customer <i>Hess Oil Company</i>	Lease No.	Date <i>1/17/11</i>
Lease <i>Adams</i>	Well # <i>1-36</i>	Service Receipt
Casing <i>4 1/2 11.6</i>	Depth <i>6300 RTD</i>	County <i>Meade</i> State <i>KS</i>
Job Type <i>4 1/2 L.S.</i>	Formation	Legal Description <i>36-34-30</i>

Pipe Data		Perforating Data		Cement Data
Casing size <i>4 1/2</i>	Tubing Size	Shots/Ft		Lead <i>150 sk AA-2</i>
Depth <i>6310'</i>	Depth	From	To	<i>5% w-60, 10% salt</i>
Volume <i>97.3 bbl</i>	Volume	From	To	<i>1/4 #12 floamer, 16% C-C</i>
Max Press	Max Press	From	To	<i>5 #6 150 sk</i>
Well Connection <i>P.C.</i>	Annulus Vol.	From	To	<i>tail in</i>
Plug Depth	Packer Depth	From	To	<i>50 sk "H" Rate</i>

Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
1-16-11	22.00				on loc, spot worked, softening
1/17/11					
05:00					Start F.E. Cont 1, 2, 3, 4, 5, 6, 8, 10, 12
05:36					Finish F.E.
06:45					Break C, cc 12' in air
09:45	2500#				Psc test
09:46	400		0	4.5	St Superflush
09:53	400		12	4.5	Pump 4170 spacer
09:55	400		5	4.6	Start mixing AA-2 @ 14.5'
10:12	0		40	2.5	Finish mixing
10:14					Wash p. P.L.
10:16	0		0	4-6	Start disp
10:42	(22: 1110)		97.5	-	Discharge
					Release Psc float hold
11:40					Plug R+M
11:50					Job Complete

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Service Units	<i>19558</i>	<i>304631 F315</i>	<i>19578 19583</i>
Driver Names	<i>C. Hinz</i>	<i>F. C. Cks</i>	<i>D. C. Cks</i>

*Bob Kasper*  
Customer Representative

*Jerry Bennett*  
Station Manager

*C. C. Cks*  
Cementer

### Cement Report

Customer <i>Hess Oil Company</i>		Lease No.		Date <i>1-2-10</i>	
Lease <i>Adams</i>		Well # <i>1-36</i>		Service Receipt <i>01198</i>	
Casing <i>8 5/8</i>	Depth <i>1416</i>	County <i>Meade</i>		State <i>KS</i>	
Job Type <i>8 5/8 SURFACE 242</i>		Formation		Legal Description <i>36-34-30</i>	

Pipe Data		Perforating Data		Cement Data	
Casing size <i>8 5/8</i>	Tubing Size	Shots/Ft		Lead <i>325 SK</i>	
Depth <i>1414</i>	Depth	From	To	A-CON <i>2.95 SK-FT</i>	
Volume <i>87615</i>	Volume	From	To	<i>18.10 GAL-SK</i>	
Max Press <i>1500</i>	Max Press	From	To	Tail-in <i>Acem. Plug Cont</i>	
Well Connection <i>1502</i>	Annulus Vol.	From	To	<i>150 SK</i>	
Plug Depth <i>1372</i>	Packer Depth	From	To	<i>1.34 FT<sup>2</sup>-SK</i>	
				<i>6.33 GAL-SK</i>	

Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
<i>1430</i>					<i>Arrive On location</i>
<i>1445</i>					<i>Safety Meeting - Rig Up</i>
<i>1445</i>					<i>Running in Casing</i>
<i>1700</i>					<i>Circulate w/ Rig</i>
<i>1725</i>					<i>Hook up to BES</i>
<i>1735</i>	<i>1500</i>		<i>.5</i>	<i>.5</i>	<i>Pressure Test</i>
<i>1740</i>	<i>320</i>		<i>170</i>	<i>5.0</i>	<i>Pump lead cont @ 11.4 #'s</i>
<i>1820</i>	<i>270</i>		<i>35</i>	<i>2.5</i>	<i>Pump tail cont @ 14.8 #'s</i>
<i>1835</i>	<i>220</i>				<i>Prop Plug - Wash Up</i>
<i>1840</i>	<i>200</i>		<i>77</i>	<i>5.0</i>	<i>Displace</i>
<i>1865</i>	<i>600</i>		<i>10</i>	<i>2.0</i>	<i>Slow Down - Displace</i>
<i>1900</i>	<i>1100</i>		<i>.5</i>	<i>.5</i>	<i>Land Plug - Float Held</i>
					<i>Cement to Surface</i>
					<i>Thanks For Using Basic Energy Services</i>
<i>2000</i>					<i>RECEIVED Job Complete</i>
					<i>JUN 27 2011</i>
					<i>KCC WICHITA</i>

Service Units	<i>19820</i>	<i>14355-14284</i>	<i>27462</i>	<i>33021-33016</i>	
Driver Names	<i>J. Chavez</i>	<i>Sara Chavez</i>	<i>Ruben M</i>	<i>David C.</i>	

*Bob Casper*  
Customer Representative

*Jerry Ts.*  
Station Manager

*Ismael Chavez*  
Cementer

# QUALITY WELL SERVICE, INC.

5151

Home Office 190th US 56 HWY, Ellinwood, KS 67526

Todd's Cell 620-388-5422  
Darin's Cell 785-445-2686

Rich's Cell 620-727-3409  
Brady's Cell 620-727-6964

Date	12-23-10	Sec.	36	Twp.	34	Range	30	County	MEHOG	State	KS	On Location		Finish	5:00 PM
Lease	BLANDS	Well No.	2-36		Location										

Contractor			Owner	To Quality Well Service, Inc. You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.															
Type Job	CONCRETE		Hole Size	30"	T.D.											Charge To	HESS OIL		
Csg.	30"		Tbg. Size			Depth											Street		
Tool			Depth											City	State				
Cement Left in Csg.			Shoe Joint											The above was done to satisfaction and supervision of owner agent or contractor.					
Meas Line			Displace											Cement Amount Ordered					

**EQUIPMENT**

Pumptrk	6	No.	BRADY	Common	225
Bulktrk	5	No.	TODD	Poz. Mix	
Bulktrk		No.		Gel.	4
Pickup	1/4	No.	BRADY	Calcium	8

**JOB SERVICES & REMARKS**

Rat Hole		Hulls	
Mouse Hole		Salt	
Centralizers		Flowseal	56
Baskets		Kol-Seal	
D/V or Port Collar		Mud CLR 48	
		CFL-117 or CD110 CAF 38	

RUN 2 JTS 30" TO 77'  
PUMPED 125 SKS 2% GEL  
3/8" 1/4 Cellofibre TO  
FROM 77' TO CELLAR

Sand	
Handling	237
Mileage	35

**FLOAT EQUIPMENT**

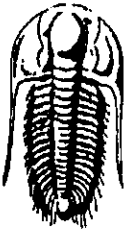
LET SET 30 MIN FELL 15' TOPPED OFF WITH 50 SKS 2% GEL 3/8" CC 1/4 Cellofibre	Guide Shoe	
	Centralizer	
	Baskets	RECEIVED
	AFU Inserts	JUN 27 2011
	Float Shoe	
	Latch Down	KCC WICHITA

THANK & PLEASE  
CALL AGAIN  
TODD DARIN BRADY

Pumptrk Charge	
Mileage	35

X Signature Bob Kasper

Tax	
Discount	
Total Charge	



**TRILOBITE  
TESTING, INC**

**DRILL STEM TEST REPORT**

Hess Oil Co.  
2080 E Kansas  
Mcpherson KS 67460  
ATTN: Mack Armstrong

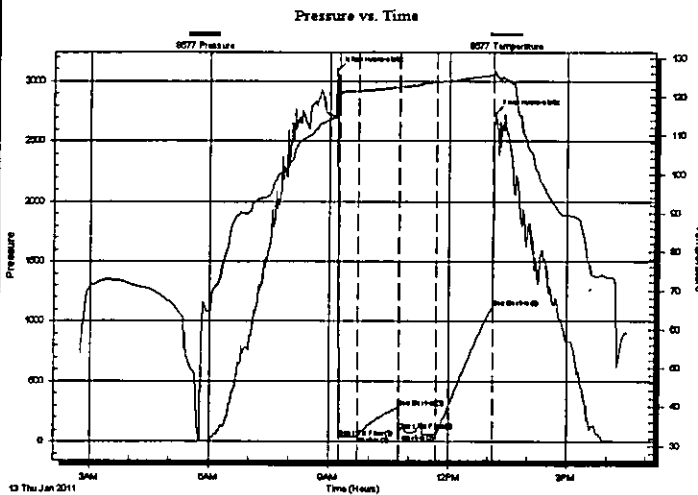
**Adams 1-36**  
**36 34S 30W Meade KS**  
Job Ticket: 39374      DST#: 1  
Test Start: 2011.01.13 @ 02:45:24

**GENERAL INFORMATION:**

Formation: **Morrow Sand**  
Deviated: **No** Whipstock:                      ft (KB)  
Time Tool Opened: 09:14:09  
Time Test Ended: 16:32:24  
Interval: **5902.00 ft (KB) To 5943.00 ft (KB) (TVD)**  
Total Depth: **5943.00 ft (KB) (TVD)**  
Hole Diameter: **7.78 inches** Hole Condition: **Good**  
Test Type: **Conventional Bottom Hole**  
Tester: **Mike Slemp**  
Unit No: **53**  
Reference Elevations: **2572.00 ft (KB)**  
**2564.00 ft (CF)**  
KB to GR/CF: **8.00 ft**

**Serial #: 8677**      **Inside**  
Press@RunDepth: **70.24 psig @ 5904.00 ft (KB)**      Capacity: **8000.00 psig**  
Start Date: **2011.01.13**      End Date: **2011.01.13**      Last Calib.: **2011.01.13**  
Start Time: **02:45:25**      End Time: **16:32:24**      Time On Btm: **2011.01.13 @ 09:10:39**  
Time Off Btm: **2011.01.13 @ 13:10:24**

**TEST COMMENT:** IF- BOB ASAO  
IS- No blow back  
FF- BOB in 2 min  
FS- No blow back



**PRESSURE SUMMARY**

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	3085.79	115.09	Initial Hydro-static
4	35.33	120.07	Open To Flow (1)
32	48.65	121.50	Shut-in(1)
93	282.98	122.53	End Shut-in(1)
95	89.68	122.57	Open To Flow (2)
151	70.24	123.68	Shut-in(2)
237	1118.01	125.42	End Shut-in(2)
240	2729.00	126.15	Final Hydro-static

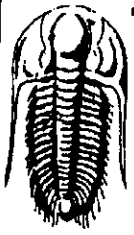
**Recovery**

Length (ft)	Description	Volume (bbl)
150.00	mud	0.74

**Gas Rates**

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

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**TRILOBITE  
TESTING, INC**

**DRILL STEM TEST REPORT**

**TOOL DIAGRAM**

Hess Oil Co.  
2080 E Kansas  
Mcpherson KS 67460  
  
ATTN: Mack Armstrong

**Adams 1-36**  
**36 34S 30W Meade KS**  
Job Ticket: 39374      DST#: 1  
Test Start: 2011.01.13 @ 02:45:24

**Tool Information**

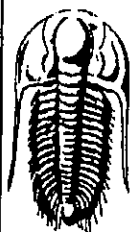
Drill Pipe:	Length: 5642.00 ft	Diameter: 3.80 inches	Volume: 79.14 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 240.00 ft	Diameter: 2.25 inches	Volume: 1.18 bbl	Weight to Pull Loose: 90000.00 lb
			<b>Total Volume: 80.32 bbl</b>	Tool Chased 0.00 ft
Drill Pipe Above KB:	6.00 ft			String Weight: Initial 75000.00 lb
Depth to Top Packer:	5902.00 ft			Final 80000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	41.00 ft			
Tool Length:	67.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		
Tool Comments:				

**Tool Description**

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut In Tool	5.00			5881.00	
Hydraulic tool	5.00			5886.00	
Jars	5.00			5891.00	
Safety Joint	2.00			5893.00	
Packer	5.00			5898.00	26.00      Bottom Of Top Packer
Packer	4.00			5902.00	
Stubb	1.00			5903.00	
Perforations	1.00			5904.00	
Recorder	0.00	8678	Inside	5904.00	
Recorder	0.00	8677	Inside	5904.00	
Perforations	5.00			5909.00	
Change Over Sub	1.00			5910.00	
Drill Pipe	29.00			5939.00	
Change Over Sub	1.00			5940.00	
Bullnose	3.00			5943.00	41.00      Bottom Packers & Anchor
<b>Total Tool Length:</b>	<b>67.00</b>				

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**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Hess Oil Co.  
2080 E Kansas  
Mcperson KS 67460

**Adams 1-36**  
**36 34S 30W Meade KS**  
Job Ticket: 39374      **DST#: 1**  
Test Start: 2011.01.13 @ 02:45:24

ATTN: Mack Armstrong

## 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:	ppm
Viscosity: 57.00 sec/qt	Cushion Volume: bbl		
Water Loss: 6.78 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 4000.00 ppm			
Filter Cake: inches			

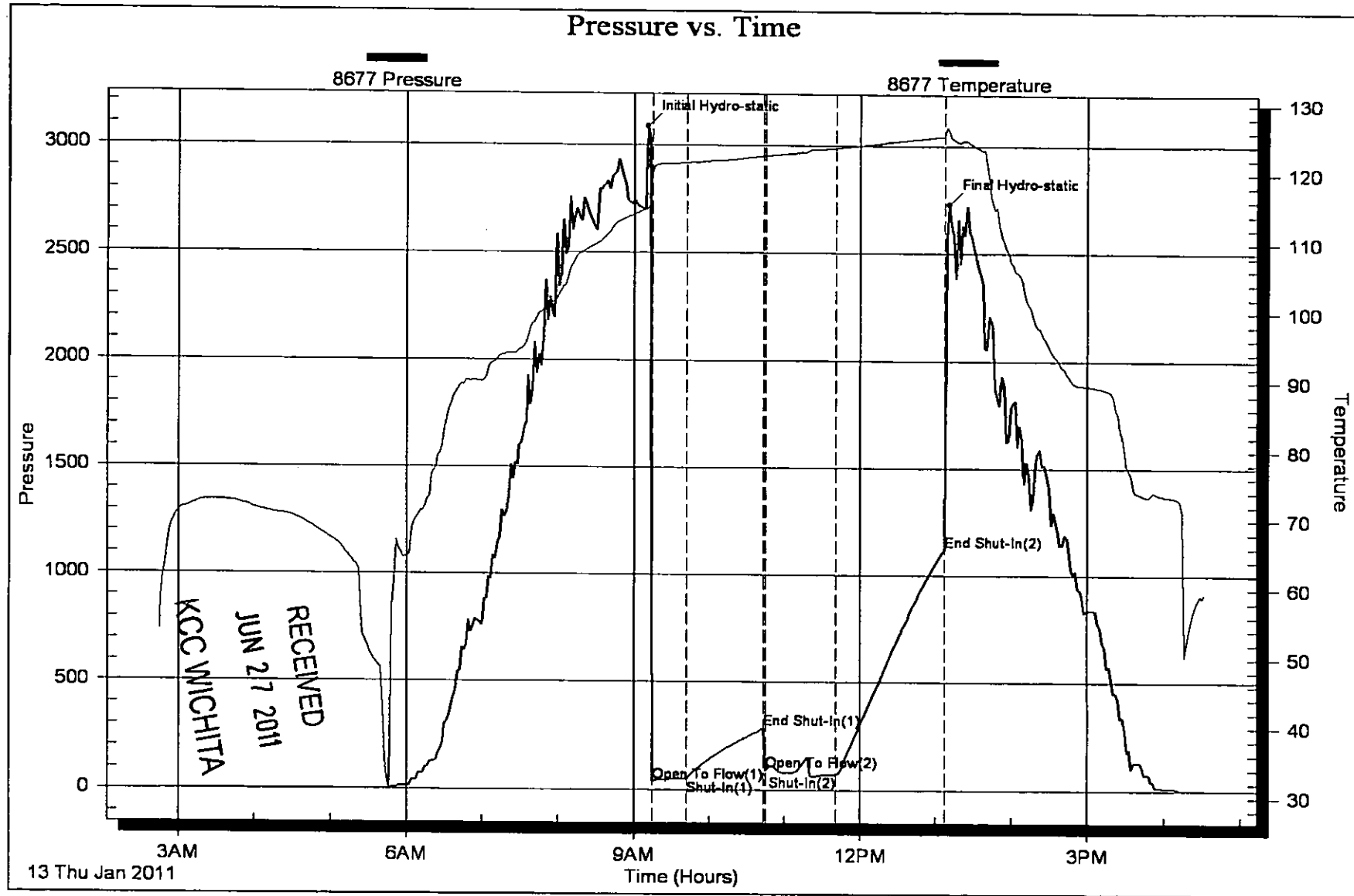
## Recovery Information

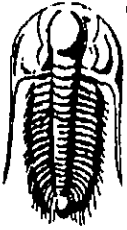
Recovery Table

Length ft	Description	Volume bbl
150.00	mud	0.738

Total Length: 150.00 ft      Total Volume: 0.738 bbl  
 Num Fluid Samples: 0      Num Gas Bombs: 0      Serial #:  
 Laboratory Name:  
 Laboratory Location:  
 Recovery Comments:

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Hess Oil Co.  
2080 E Kansas  
Mcpherson KS 67460  
ATTN: Mack Armstrong

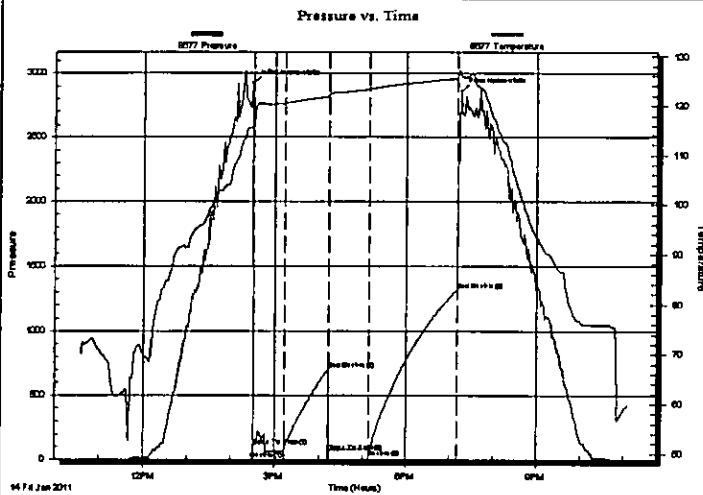
**Adams 1-36**  
**36 34S 30W Meade KS**  
Job Ticket: 39375      DST#: 2  
Test Start: 2011.01.14 @ 10:35:42

## GENERAL INFORMATION:

Formation: **Chester**  
 Deviated: **No** Whipstock:                      ft (KB)  
 Time Tool Opened: 14:30:27  
 Time Test Ended: 23:08:12  
 Test Type: **Conventional Bottom Hole**  
 Tester: **Mike Slemp**  
 Unit No: **53**  
 Interval: **5942.00 ft (KB) To 6040.00 ft (KB) (TVD)**  
 Total Depth: **6040.00 ft (KB) (TVD)**  
 Hole Diameter: **7.78 inches** Hole Condition: **Good**  
 Reference Elevations: **2572.00 ft (KB)**  
**2564.00 ft (CF)**  
 KB to GR/CF: **8.00 ft**

**Serial #: 8677**      **Inside**  
 Press@RunDepth: **82.16 psig @ 5944.00 ft (KB)**      Capacity: **8000.00 psig**  
 Start Date: **2011.01.14**      End Date: **2011.01.14**      Last Calib.: **2011.01.14**  
 Start Time: **10:35:43**      End Time: **23:08:12**      Time On Btm: **2011.01.14 @ 14:28:42**  
 Time Off Btm: **2011.01.14 @ 19:15:42**

**TEST COMMENT:** IF- BOB in 2 min  
 IS- No blow back  
 FF- BOB ASAO  
 FS- No blow back



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2920.18	115.72	Initial Hydro-static
2	104.60	115.47	Open To Flow (1)
44	69.28	120.47	Shut-In(1)
104	698.50	121.88	End Shut-In(1)
105	57.77	122.19	Open To Flow (2)
160	82.16	123.34	Shut-In(2)
282	1317.24	125.55	End Shut-In(2)
287	2859.75	126.17	Final Hydro-static

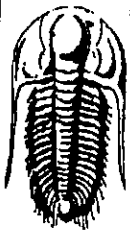
## Recovery

Length (ft)	Description	Volume (bbl)
125.00	100% mud	0.61

## Gas Rates

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

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## DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Hess Oil Co.  
2080 E Kansas  
Mcpherson KS 67460

**Adams 1-36**

**36 34S 30W Meade KS**

Job Ticket: 39375

**DST#: 2**

ATTN: Mack Armstrong

Test Start: 2011.01.14 @ 10:35:42

### Tool Information

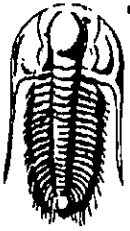
Drill Pipe:	Length: 5705.00 ft	Diameter: 3.80 inches	Volume: 80.03 bbl	Tool Weight:	2000.00 lb	
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer:	25000.00 lb	
Drill Collar:	Length: 240.00 ft	Diameter: 2.25 inches	Volume: 1.18 bbl	Weight to Pull Loose:	100000.0 lb	
			<b>Total Volume:</b>	<b>81.21 bbl</b>	<b>Tool Chased</b>	<b>0.00 ft</b>
Drill Pipe Above KB:	29.00 ft			String Weight: Initial	74000.00 lb	
Depth to Top Packer:	5942.00 ft			String Weight: Final	80000.00 lb	
Depth to Bottom Packer:	ft					
Interval between Packers:	98.00 ft					
Tool Length:	124.00 ft					
Number of Packers:	2	Diameter:	6.75 inches			
Tool Comments:						

### Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut In Tool	5.00			5921.00	
Hydraulic tool	5.00			5926.00	
Jars	5.00			5931.00	
Safety Joint	2.00			5933.00	
Packer	5.00			5938.00	26.00 Bottom Of Top Packer
Packer	4.00			5942.00	
Stubb	1.00			5943.00	
Perforations	1.00			5944.00	
Recorder	0.00	8678	inside	5944.00	
Recorder	0.00	8677	inside	5944.00	
Perforations	29.00			5973.00	
Change Over Sub	1.00			5974.00	
Drill Pipe	62.00			6036.00	
Change Over Sub	1.00			6037.00	
Bullnose	3.00			6040.00	98.00 Bottom Packers & Anchor

**Total Tool Length: 124.00**

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**DRILL STEM TEST REPORT**

**FLUID SUMMARY**

Hess Oil Co.  
2080 E Kansas  
Mcpherson KS 67460  
ATTN: Mack Armstrong

Adams 1-36  
36 34S 30W Meade KS  
Job Ticket: 39375      DST#: 2  
Test Start: 2011.01.14 @ 10:35:42

**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:	ppm
Viscosity: 55.00 sec/qt	Cushion Volume: bbl		
Water Loss: 8.97 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 2600.00 ppm			
Filter Cake: inches			

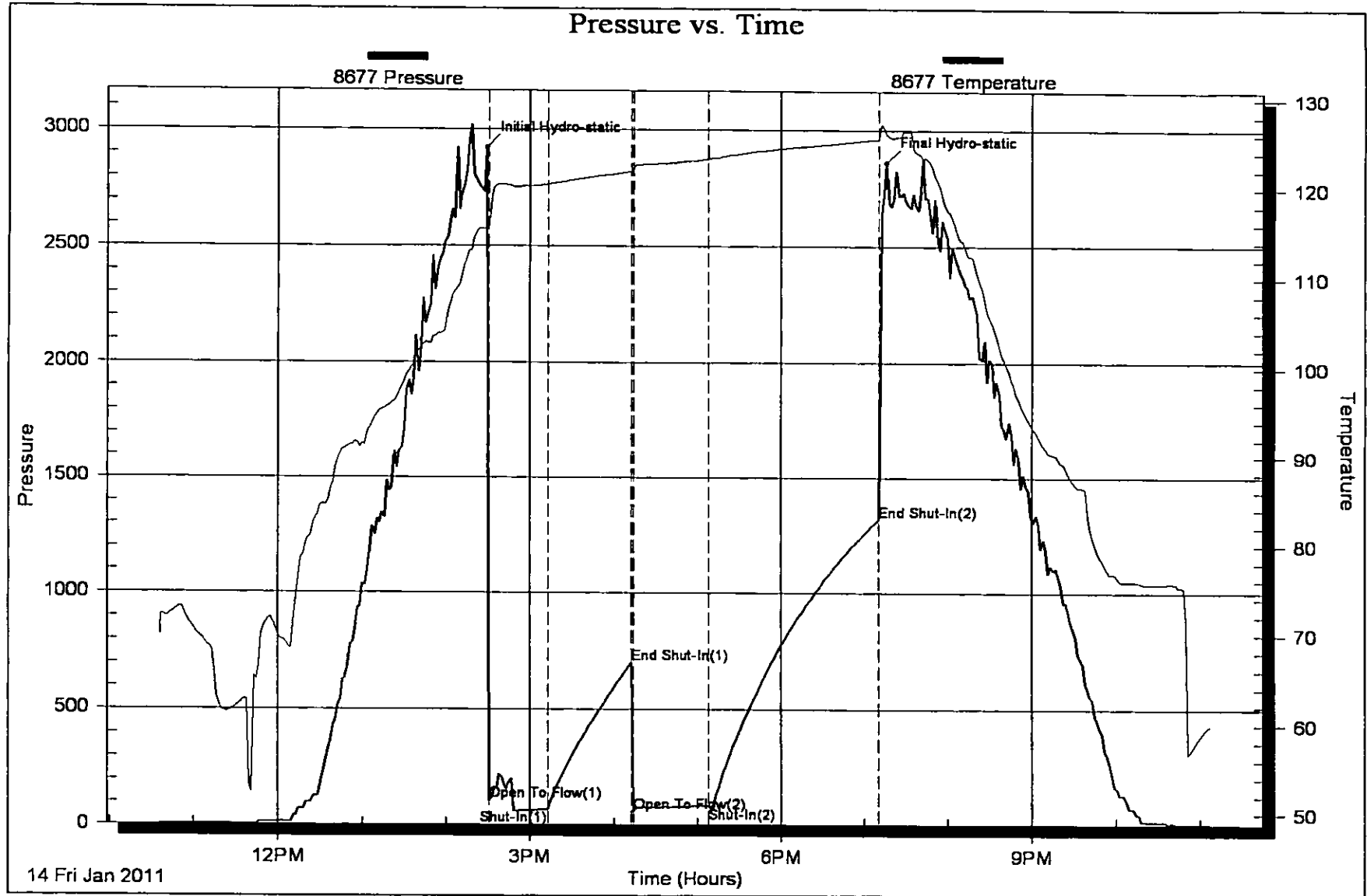
**Recovery Information**

Recovery Table

Length ft	Description	Volume bbl
125.00	100% mud	0.615

Total Length: 125.00 ft      Total Volume: 0.615 bbl  
 Num Fluid Samples: 0      Num Gas Bombs: 0      Serial #:  
 Laboratory Name:      Laboratory Location:  
 Recovery Comments:

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