



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

Hess Oil Company  
P. O. Box 1009  
McPherson KS 67460-1009  
ATTN: Roger Martin

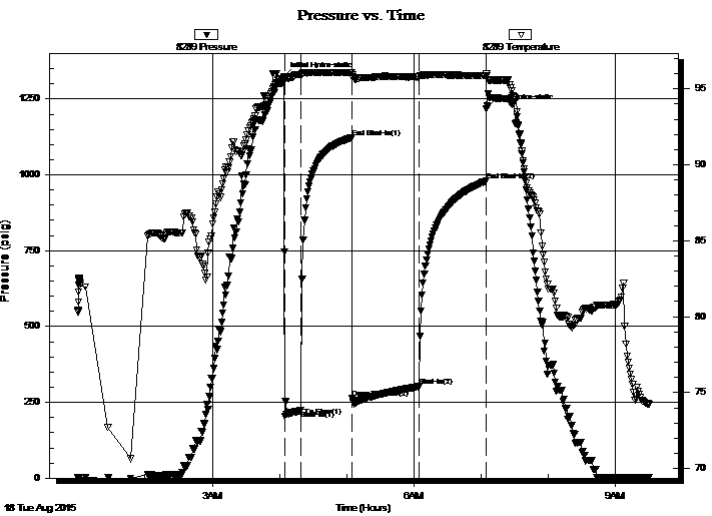
**16 11s 16w Ellis**  
**Craig # 1**  
Job Ticket: 62398      **DST#: 1**  
Test Start: 2015.08.18 @ 01:00:00

## GENERAL INFORMATION:

Formation: **Topeka**  
Deviated: No Whipstock:                      ft (KB)      Test Type: Conventional Bottom Hole (Initial)  
Time Tool Opened: 04:05:00      Tester: Jim Svaty  
Time Test Ended: 09:30:00      Unit No: 76  
**Interval: 2737.00 ft (KB) To 2766.00 ft (KB) (TVD)**      Reference Elevations: 1805.00 ft (KB)  
Total Depth: 2766.00 ft (KB) (TVD)      1800.00 ft (CF)  
Hole Diameter: 7.88 inches Hole Condition: Fair      KB to GR/CF: 5.00 ft

**Serial #: 8289      Outside**  
Press@RunDepth: 301.69 psig @ 2738.00 ft (KB)      Capacity: 8000.00 psig  
Start Date: 2015.08.18      End Date: 2015.08.18      Last Calib.: 2015.08.18  
Start Time: 01:00:02      End Time: 09:30:30      Time On Btm: 2015.08.18 @ 04:03:45  
Time Off Btm: 2015.08.18 @ 07:04:45

**TEST COMMENT:** 15-IF-BOB in 30sec. Tool Opened on Slide. Bled off BOB in 5min.  
45-ISI- No Blow  
60-FF- BOB in 6min.  
60-FSI- No Blow



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1323.04	95.69	Initial Hydro-static
2	204.00	95.54	Open To Flow (1)
16	223.48	95.95	Shut-In(1)
61	1122.73	96.06	End Shut-In(1)
62	263.88	95.81	Open To Flow (2)
121	301.69	95.80	Shut-In(2)
181	979.93	95.87	End Shut-In(2)
181	1219.09	95.98	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
248.00	OSMCW 20%w 80%w	1.22
254.00	OSWCM 50%w 50%m	3.56
128.00	OSM 100%m	1.80

## Gas Rates

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



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## FLUID SUMMARY

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### 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:	44000 ppm
Viscosity: 60.00 sec/qt	Cushion Volume: bbl		
Water Loss: 7.97 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 9600.00 ppm			
Filter Cake: 3.00 inches			

### Recovery Information

Recovery Table

Length ft	Description	Volume bbl
248.00	OSMCW 20%m 80%w	1.220
254.00	OSWCM 50%w 50%m	3.563
128.00	OSM 100%m	1.796

Total Length: 630.00 ft      Total Volume: 6.579 bbl  
Num Fluid Samples: 0      Num Gas Bombs: 0      Serial #:  
Laboratory Name:      Laboratory Location:  
Recovery Comments: .170 @ 72

