



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

Hess Oil Co.  
PO Box 1009  
McPherson KS 67460  
ATTN: David Gould

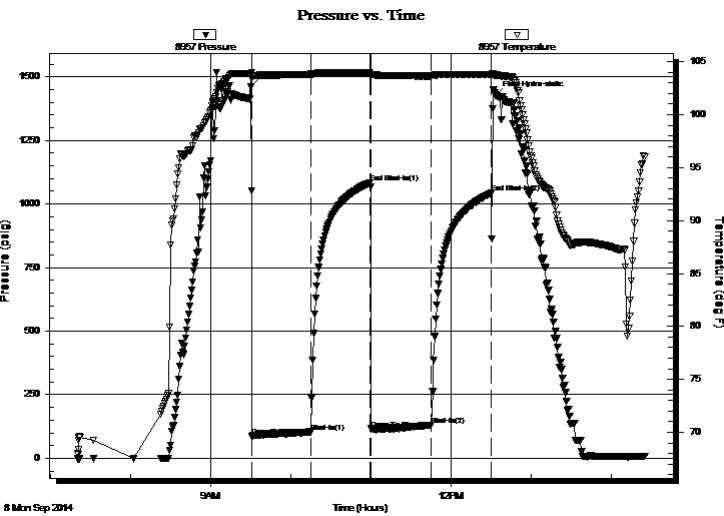
**15-10s-11w, Osborne, KS**  
**Melanie #1**  
Job Ticket: 53971      **DST#: 1**  
Test Start: 2014.09.08 @ 07:20:00

## GENERAL INFORMATION:

Formation: **KC**  
Deviated: No Whipstock: ft (KB)  
Time Tool Opened: 09:30:45  
Time Test Ended: 14:25:45  
Interval: **2947.00 ft (KB) To 3036.00 ft (KB) (TVD)**  
Total Depth: 3036.00 ft (KB) (TVD)  
Hole Diameter: 7.88 inches Hole Condition:  
Test Type: Conventional Bottom Hole (Initial)  
Tester: Brett Dickinson  
Unit No: 59  
Reference Elevations: 1749.00 ft (KB)  
1744.00 ft (CF)  
KB to GR/CF: 5.00 ft

**Serial #: 8957      Outside**  
Press@RunDepth: 130.26 psig @ 2952.00 ft (KB)      Capacity: 8000.00 psig  
Start Date: 2014.09.08      End Date: 2014.09.08      Last Calib.: 2014.09.08  
Start Time: 07:20:05      End Time: 14:25:44      Time On Btm: 2014.09.08 @ 09:30:00  
Time Off Btm: 2014.09.08 @ 12:33:30

TEST COMMENT: IF-1" blow  
IS-No blow  
FF-weak surface blow  
FS-No blow



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1460.29	103.83	Initial Hydro-static
1	87.65	103.38	Open To Flow (1)
45	103.48	103.76	Shut-In(1)
90	1084.20	103.98	End Shut-In(1)
91	115.71	103.67	Open To Flow (2)
136	130.26	103.63	Shut-In(2)
181	1042.54	103.79	End Shut-In(2)
184	1427.90	103.72	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
210.00	Mud	1.03

## Gas Rates

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



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Hess Oil Co.  
PO Box 1009  
McPherson KS 67460  
ATTN: David Gould

**15-10s-11w, Osborne, KS**  
**Melanie #1**  
Job Ticket: 53971      **DST#: 1**  
Test Start: 2014.09.08 @ 07:20:00

## 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: 54.00 sec/qt	Cushion Volume: bbl		
Water Loss: 7.60 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 4600.00 ppm			
Filter Cake: inches			

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
210.00	Mud	1.033

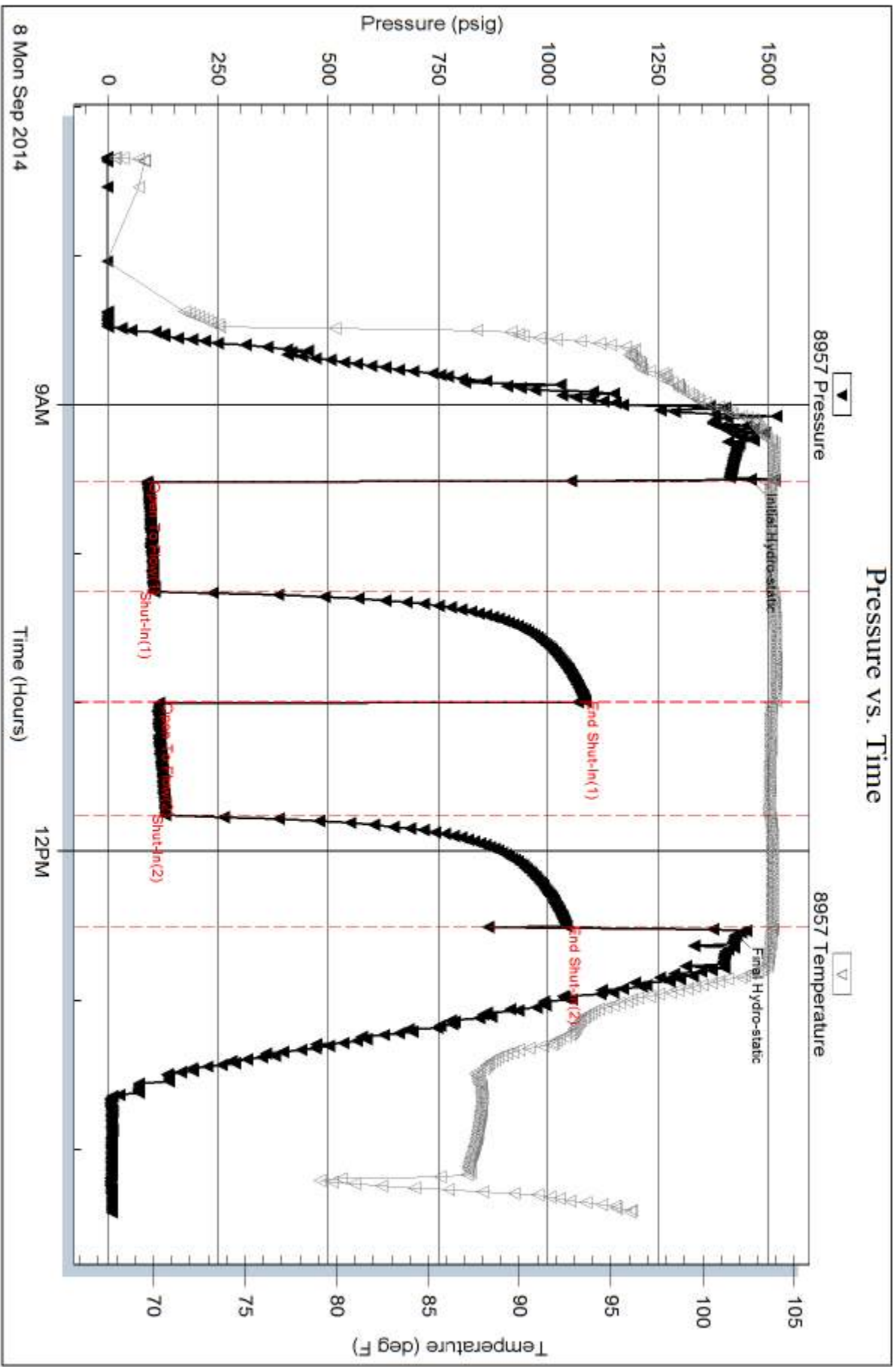
Total Length: 210.00 ft      Total Volume: 1.033 bbl  
 Num Fluid Samples: 0      Num Gas Bombs: 0      Serial #:  
 Laboratory Name:      Laboratory Location:  
 Recovery Comments:

Serial #: 8957

Outside Hess Oil Co.

Melanie #1

DST Test Number: 1



Triobite Testing, Inc

Ref. No: 53971

Printed: 2014.09.08 @ 16:14:08