



**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

Hess Oil Company  
 P.O. Box 1009  
 McPherson, KS 67460  
 ATTN: Jamie Hess

**20/17S/22W-Ness**  
**Wandelene #2**  
 Job Ticket: 46360 **DST#: 1**  
 Test Start: 2012.01.08 @ 14:41:30

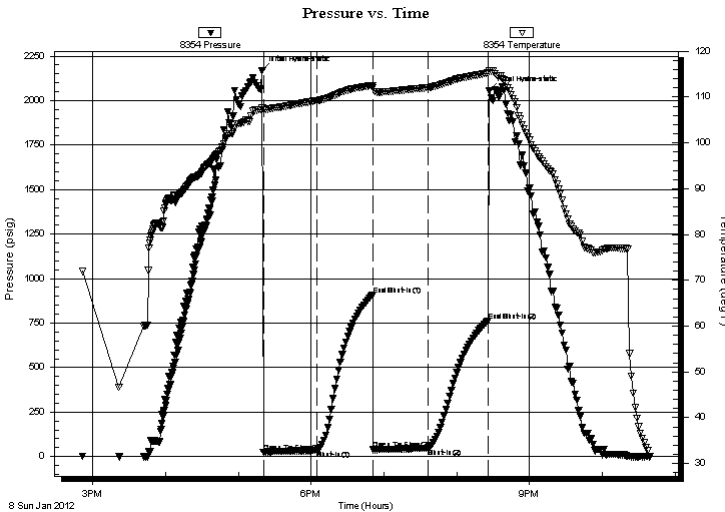
## GENERAL INFORMATION:

Formation: **Mississippian**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 17:20:30  
 Time Test Ended: 22:39:00  
 Interval: **4190.00 ft (KB) To 4276.00 ft (KB) (TVD)**  
 Total Depth: 4276.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Fair  
 Test Type: Conventional Bottom Hole (Initial)  
 Tester: Dustin Rash  
 Unit No: 38  
 Reference Elevations: 2275.00 ft (KB)  
 2270.00 ft (CF)  
 KB to GR/CF: 5.00 ft

**Serial #: 8354 Inside**  
 Press @ Run Depth: 45.64 psig @ 4260.00 ft (KB) Capacity: 8000.00 psig  
 Start Date: 2012.01.08 End Date: 2012.01.08 Last Calib.: 2012.01.08  
 Start Time: 14:51:30 End Time: 22:39:00 Time On Btm: 2012.01.08 @ 17:19:30  
 Time Off Btm: 2012.01.08 @ 20:27:00

**TEST COMMENT:** IF-Very weak building blow . Built to 1/2 inch.  
 IS-No Return.  
 FF-Very weak surface blow . Died @ 18 minutes.  
 FS-No Return.

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2169.65	107.68	Initial Hydro-static
1	23.85	107.29	Open To Flow (1)
46	33.64	109.23	Shut-In(1)
91	906.68	112.53	End Shut-In(1)
92	40.20	112.09	Open To Flow (2)
137	45.64	112.03	Shut-In(2)
186	761.54	115.23	End Shut-In(2)
188	2054.58	115.81	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
60.00	50%Water/50%Mud	0.30
1.00	100%Oil	0.00

## Gas Rates

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



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**FLUID SUMMARY**

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**20/17S/22W-Ness**  
**Wandelene #2**  
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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:	24000 ppm
Viscosity: 59.00 sec/qt	Cushion Volume: bbl		
Water Loss: 9.98 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: 0.76 ohm.m	Gas Cushion Pressure: psig		
Salinity: 12400.00 ppm			
Filter Cake: inches			

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
60.00	50%Water/50%Mud	0.295
1.00	100%Oil	0.005

Total Length: 61.00 ft      Total Volume: 0.300 bbl  
 Num Fluid Samples: 0      Num Gas Bombs: 0      Serial #:  
 Laboratory Name:      Laboratory Location:  
 Recovery Comments:

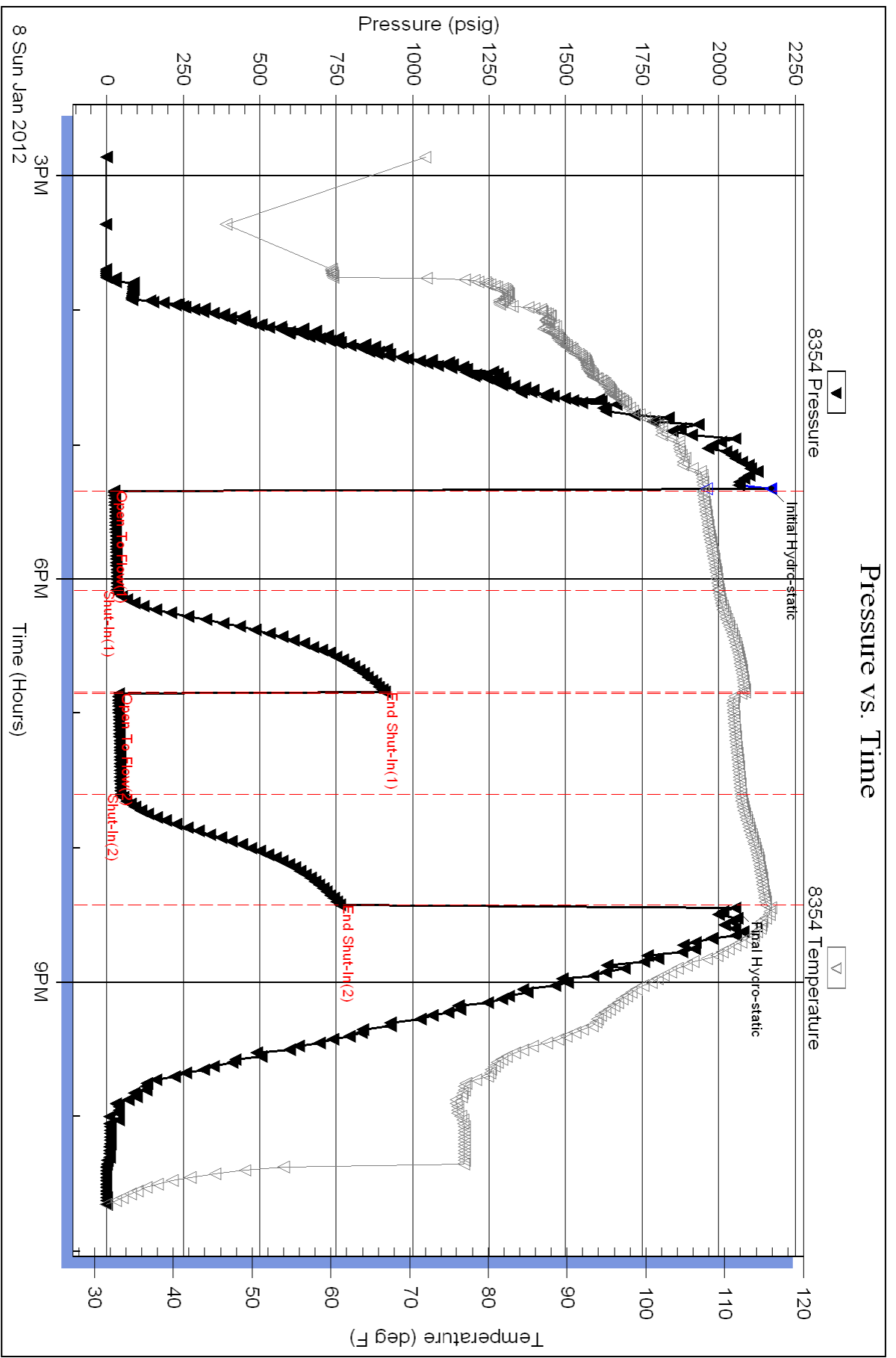
Serial #: 8354

Inside

Hess Oil Company

Wandelene #2

DST Test Number: 1



Triobite Testing, Inc

Ref. No: 46360

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