



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

Hartman Oil Co  
10500 E Berkeley Sq Ste 100  
Wichita, KS 67206  
ATTN: Kitt Noah

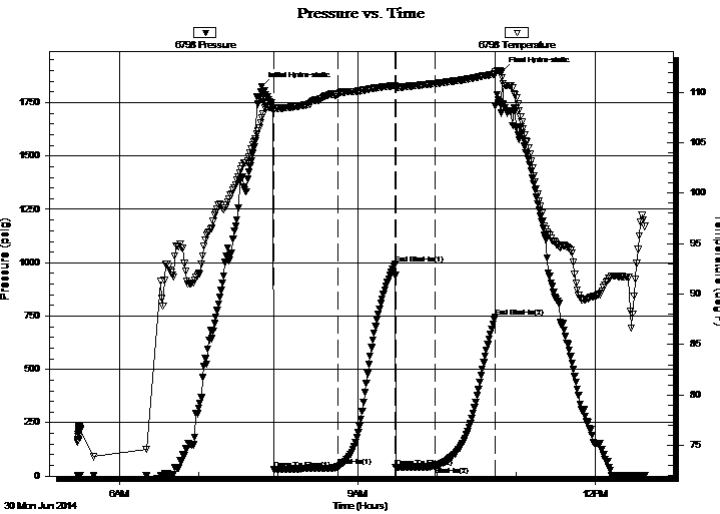
**2-24S-13W Stafford**  
**Heyen 2**  
Job Ticket: 51802      **DST#: 3**  
Test Start: 2014.06.30 @ 05:27:53

## GENERAL INFORMATION:

Formation: **LKC "J"**  
Deviated: No Whipstock: ft (KB)  
Time Tool Opened: 07:56:38  
Time Test Ended: 12:38:08  
Interval: **3662.00 ft (KB) To 3690.00 ft (KB) (TVD)**  
Total Depth: 3690.00 ft (KB) (TVD)  
Hole Diameter: 7.88 inches Hole Condition: Good  
Test Type: Conventional Bottom Hole (Reset)  
Tester: Leal Cason  
Unit No: 74  
Reference Elevations: 1908.00 ft (KB)  
1900.00 ft (CF)  
KB to GR/CF: 8.00 ft

**Serial #: 6798**      **Inside**  
Press@RunDepth: 46.94 psig @ 3663.00 ft (KB)      Capacity: 8000.00 psig  
Start Date: 2014.06.30      End Date: 2014.06.30      Last Calib.: 2014.06.30  
Start Time: 05:27:54      End Time: 12:38:08      Time On Btm: 2014.06.30 @ 07:47:38  
Time Off Btm: 2014.06.30 @ 10:49:38

**TEST COMMENT:** IF: Weak 1 inch Blow  
IS: No Blow Back  
FF: Weak Surface Blow, Dead @ 2 minutes  
IS: No Blow Back



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1825.59	107.47	Initial Hydro-static
9	30.39	108.15	Open To Flow (1)
58	45.21	109.82	Shut-In(1)
101	992.64	110.68	End Shut-In(1)
102	41.32	110.36	Open To Flow (2)
132	46.94	110.86	Shut-In(2)
177	744.59	111.81	End Shut-In(2)
182	1896.89	111.46	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
10.00	SGCM 2%G 98%M	0.05

\* Recovery from multiple tests

## 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:	ppm
Viscosity: 46.00 sec/qt	Cushion Volume: bbl		
Water Loss: 9.98 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 7600.00 ppm			
Filter Cake: 0.02 inches			

### Recovery Information

Recovery Table

Length ft	Description	Volume bbl
10.00	SGCM 2%G 98%M	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:

