



**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

Hertel Oil Co Inc  
 704 E 12th st  
 Hays Ks 67601-3440  
 ATTN: Dave Hertel

**24-15s-19w Ellis**  
**Wasinger A#3**  
 Job Ticket: 52094 **DST#: 1**  
 Test Start: 2013.06.18 @ 15:55:33

## GENERAL INFORMATION:

Formation: **LKC C-D**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 17:31:43  
 Time Test Ended: 22:59:42  
 Interval: **3294.00 ft (KB) To 3342.00 ft (KB) (TVD)**  
 Total Depth: 3700.00 ft (KB) (TVD)  
 Hole Diameter: 7.85 inches Hole Condition: Fair  
 Test Type: Conventional Straddle (Initial)  
 Tester: Ray Schwager  
 Unit No: 42  
 Reference Elevations: 2006.00 ft (KB)  
 1998.00 ft (CF)  
 KB to GR/CF: 8.00 ft

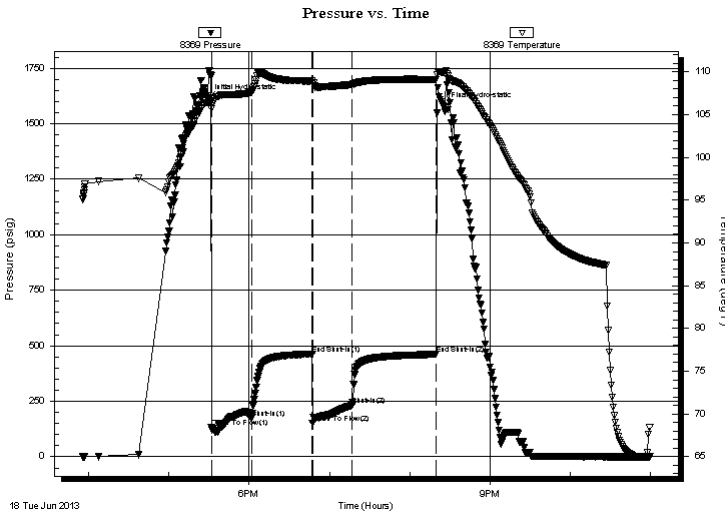
## Serial #: 8369

Inside

Press @ Run Depth: 231.40 psig @ 3300.00 ft (KB) Capacity: 8000.00 psig  
 Start Date: 2013.06.18 End Date: 2013.06.18 Last Calib.: 2013.06.18  
 Start Time: 15:55:33 End Time: 22:59:42 Time On Btm: 2013.06.18 @ 17:29:13  
 Time Off Btm: 2013.06.18 @ 20:25:27

TEST COMMENT: 30-IFP-strg bl in 1min , GTS in 26min  
 45-ISIP-strg bl bk  
 30-FFP-strg bl GTS , To w k to gauge  
 60-FSIP-strg bl bk

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1611.81	106.43	Initial Hydro-static
3	132.05	105.72	Open To Flow (1)
33	176.01	107.63	Shut-In(1)
78	462.90	108.92	End Shut-In(1)
78	151.38	108.76	Open To Flow (2)
108	231.40	108.52	Shut-In(2)
171	461.50	109.11	End Shut-In(2)
177	1575.07	109.88	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
0.00	GTS	0.00
372.00	GMO 35%G5%M60%O	5.22
186.00	GMO 45%G 5%M50%O	2.61
62.00	CO	0.87

## Gas Rates

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





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**FLUID SUMMARY**

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**24-15s-19w Ellis**  
**Wasinger A#3**  
Job Ticket: 52094      **DST#: 1**  
Test Start: 2013.06.18 @ 15:55:33

## Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil API: 38 deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity: ppm
Viscosity: 57.00 sec/qt	Cushion Volume: bbl	
Water Loss: 6.19 in <sup>3</sup>	Gas Cushion Type:	
Resistivity: ohm.m	Gas Cushion Pressure: psig	
Salinity: 1300.00 ppm		
Filter Cake: 1.00 inches		

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
0.00	GTS	0.000
372.00	GMO 35%G5%M60%O	5.218
186.00	GMO 45%G 5%M50%O	2.609
62.00	CO	0.870

Total Length: 620.00 ft      Total Volume: 8.697 bbl  
Num Fluid Samples: 0      Num Gas Bombs: 0      Serial #:  
Laboratory Name:      Laboratory Location:  
Recovery Comments:

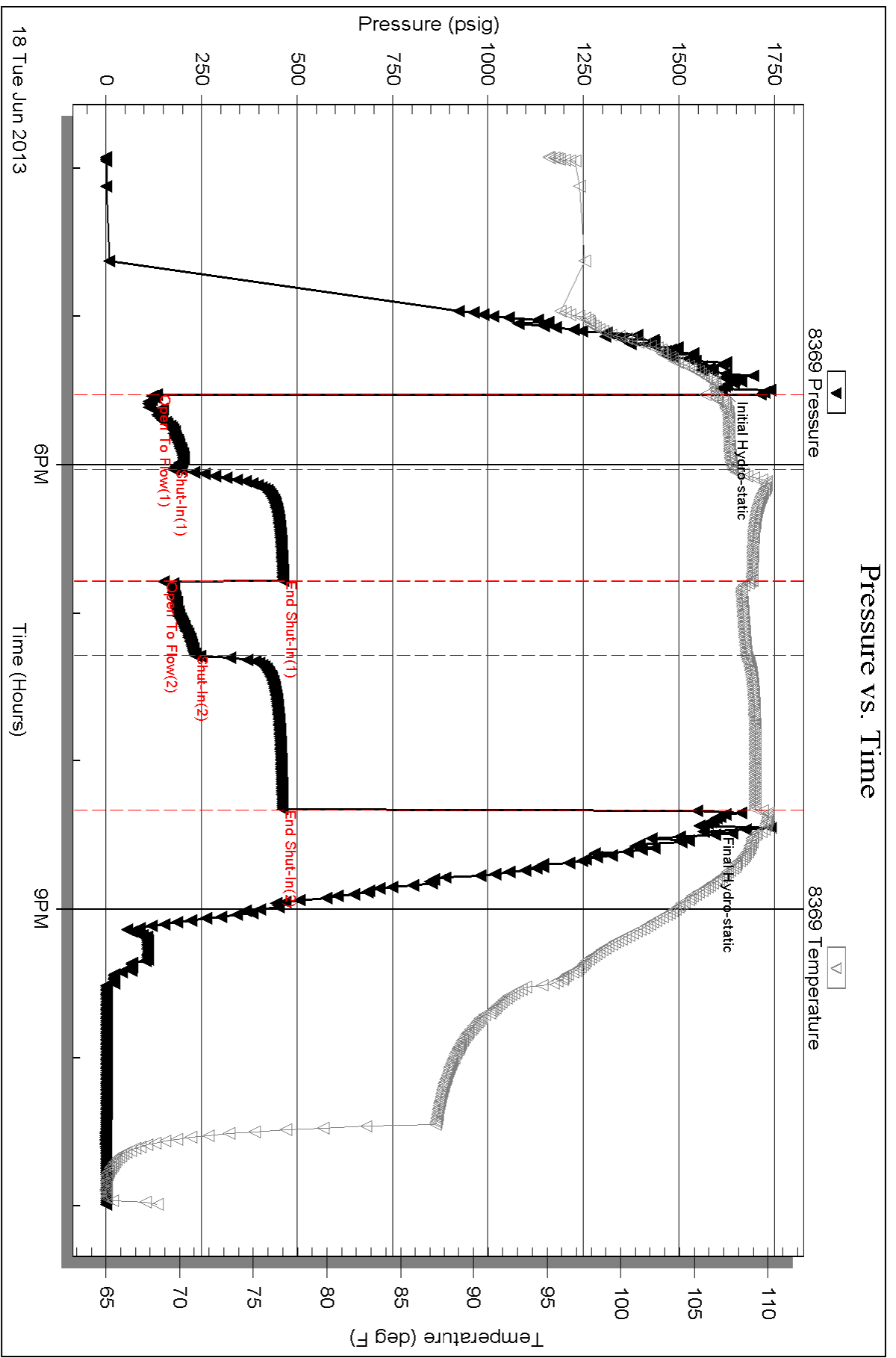
Serial #: 8369

Inside

Hertel Oil Co Inc

Wasinger A#3

DST Test Number: 1



Triobite Testing, Inc

Ref. No: 52094

Printed: 2013.06.19 @ 07:48:20

Serial #: 8700

Below (Stratfield) Oil Co Inc

Wasinger A#3

DST Test Number: 1

