

**TRILOBITE TESTING, INC**

# DRILL STEM TEST REPORT

Raney Oil Co LLC  
 3425 Tam O'Shanter  
 Lawrence KS 66047-1729  
 ATTN: Duane Stecklein

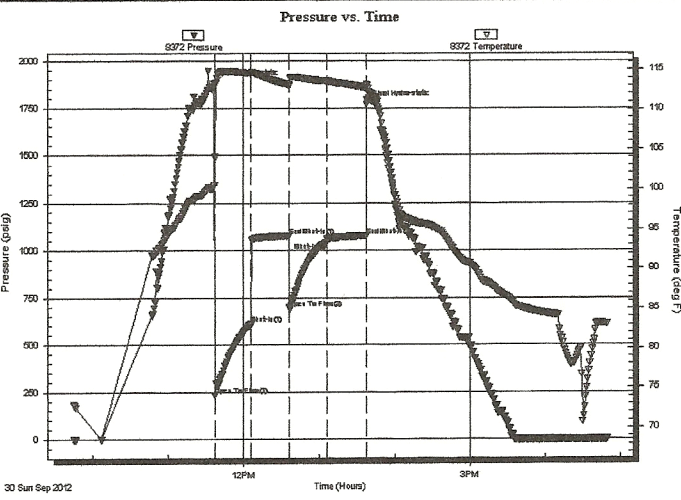
**2 10s 21w Graham**  
**Vera White # 10**  
 Job Ticket: 49318      **DST#: 1**  
 Test Start: 2012.09.30 @ 09:45:00

## GENERAL INFORMATION:

Formation: **Arbuckle**  
 Deviated: No Whipstock: 2239.00 ft (KB)  
 Time Tool Opened: 11:37:10  
 Time Test Ended: 16:50:00  
 Interval: **3794.00 ft (KB) To 3804.00 ft (KB) (TVD)**  
 Total Depth: 3804.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Fair  
 Test Type: Conventional Bottom Hole (Initial)  
 Tester: Jim Svaty  
 Unit No: 39  
 Reference Elevations: 2239.00 ft (KB)  
 2234.00 ft (CF)  
 KB to GR/CF: 5.00 ft

**Serial #: 8372**      **Inside**  
 Press@RunDepth: 1041.70 psig @ 3795.00 ft (KB)      Capacity: 8000.00 psig  
 Start Date: 2012.09.30      End Date: 2012.09.30      Last Calib.: 2012.09.30  
 Start Time: 09:45:00      End Time: 16:50:00      Time On Btm: 2012.09.30 @ 11:36:50  
 Time Off Btm: 2012.09.30 @ 13:37:50

**TEST COMMENT:** 30-IFP- BOB in 1min  
 30-ISIP- Weak Surface Blow in 10min  
 30-FFP- BOB in 1min  
 30-FSIP- No Blow



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1879.55	100.52	Initial Hydro-static
1	231.92	103.94	Open To Flow (1)
30	610.20	114.51	Shut-In(1)
60	1077.00	113.08	End Shut-In(1)
60	695.02	112.87	Open To Flow (2)
90	1041.70	113.55	Shut-In(2)
121	1075.90	112.72	End Shut-In(2)
121	1768.21	113.12	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
1046.00	MCW 2% <sub>m</sub> 98% <sub>w</sub>	11.97
700.00	O&MCW 2% <sub>o</sub> 5% <sub>m</sub> 93% <sub>w</sub>	9.82
260.00	O&MCW 5% <sub>o</sub> 5% <sub>m</sub> 90% <sub>w</sub>	3.65
260.00	O&MCW 20% <sub>o</sub> 30% <sub>m</sub> 50% <sub>w</sub>	3.65
48.00	O&WCM 30% <sub>o</sub> 30% <sub>w</sub> 40% <sub>m</sub>	0.67
16.00	M&WCO 10% <sub>m</sub> 15% <sub>w</sub> 75% <sub>o</sub>	0.22

*Handwritten notes:*  
 .39  
 .18  
 .13  
 .2  
 .05

## Gas Rates

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