



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

Darrah Oil  
Po Box 2786  
Wichita Kansas 67201  
ATTN: Seth Evenson

**22-18s-9w-Rice**  
**Bronleewe 1-22**  
Job Ticket: 60307 **DST#: 2**  
Test Start: 2014.08.11 @ 08:07:00

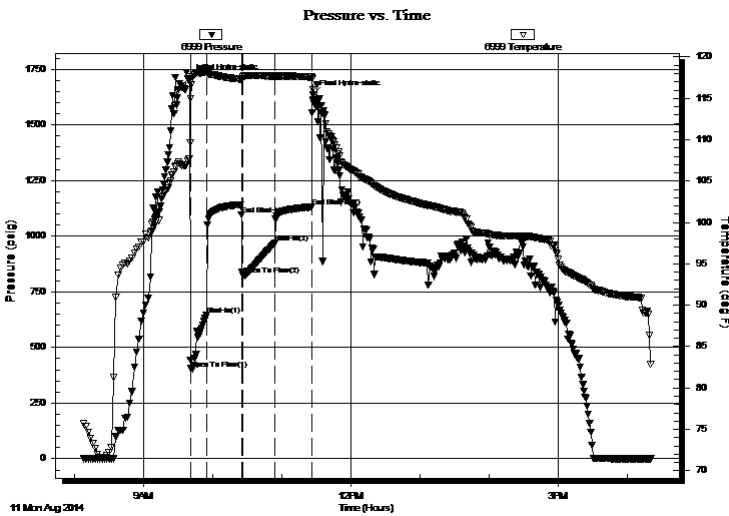
## GENERAL INFORMATION:

Formation: **Arbuckle**  
Deviated: No Whipstock: ft (KB)  
Time Tool Opened: 09:41:00  
Time Test Ended: 16:21:00  
Interval: **3264.00 ft (KB) To 3271.00 ft (KB) (TVD)**  
Total Depth: 3271.00 ft (KB) (TVD)  
Hole Diameter: 7.88 inches Hole Condition: Fair  
Test Type: Conventional Bottom Hole (Initial)  
Tester: Dustin Ellis  
Unit No: S2-Great Bend-90  
Reference Elevations: 1725.00 ft (KB)  
1720.00 ft (CF)  
KB to GR/CF: 5.00 ft

## Serial #: 6999

Press@RunDepth: 967.92 psig @ ft (KB) Capacity: 5000.00 psig  
Start Date: 2014.08.11 End Date: 2014.08.11 Last Calib.: 2014.08.11  
Start Time: 08:08:00 End Time: 16:21:00 Time On Btm: 2014.08.11 @ 09:40:00  
Time Off Btm: 2014.08.11 @ 11:27:00

TEST COMMENT: 1st Open 15 minutes Strong building blow built to the bottom of a 5 gallon bucket of water in 1 minute.  
1st Shut in 30 minutes Yes blow back  
2nd Open 30 minutes Strong building blow built to the bottom of a 5 gallon bucket of water in 45 seconds.  
2nd Shut in 30 minutes Yes blow back



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1707.07	107.69	Initial Hydro-static
2	404.69	114.97	Open To Flow (1)
15	647.03	118.12	Shut-In(1)
45	1095.40	117.30	End Shut-In(1)
47	825.52	117.58	Open To Flow (2)
74	967.92	117.67	Shut-In(2)
106	1130.99	117.58	End Shut-In(2)
107	1634.55	116.02	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
1820.00	Clean gassy oil 100%	23.27
378.00	Water 100%	5.30
189.00	Muddy water 10%Mud 90%Water	2.65
0.00	Gravity of oil 37 corrected	0.00
0.00	Chlorides 32,000 .3ohms 56degrees	0.00
0.00	503 gas in pipe.	0.00

## Gas Rates

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



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

## FLUID SUMMARY

Darrah Oil  
Po Box 2786  
Wichita Kansas 67201  
ATTN: Seth Evenson

**22-18s-9w-Rice**  
**Bronleewe 1-22**  
Job Ticket: 60307      **DST#: 2**  
Test Start: 2014.08.11 @ 08:07:00

### 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: 48.00 sec/qt	Cushion Volume: bbl		
Water Loss: 8.97 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: 0.30 ohm.m	Gas Cushion Pressure: psig		
Salinity: 4000.00 ppm			
Filter Cake: 1.00 inches			

### Recovery Information

Recovery Table

Length ft	Description	Volume bbl
1820.00	Clean gassy oil 100%	23.268
378.00	Water 100%	5.302
189.00	Muddy water 10%Mud 90%Water	2.651
0.00	Gravity of oil 37 corrected	0.000
0.00	Chlorides 32,000 .3ohms 56degrees	0.000
0.00	503 gas in pipe.	0.000

Total Length: 2387.00 ft      Total Volume: 31.221 bbl  
Num Fluid Samples: 0      Num Gas Bombs: 0      Serial #:  
Laboratory Name:      Laboratory Location:  
Recovery Comments:

