



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Tengasco inc.
 PO Box 458
 Hays KS. 67601+9744
 ATTN: Mike Bair

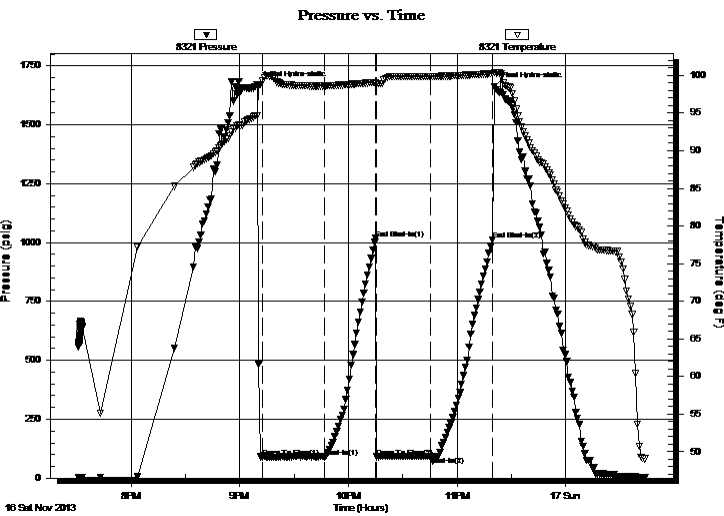
21-8s-19w Rooks
Veverka "D" #3
 Job Ticket: 54339 **DST#: 2**
 Test Start: 2013.11.16 @ 19:31:01

GENERAL INFORMATION:

Formation: **Arbuckle**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 21:12:30
 Time Test Ended: 00:44:00
 Interval: **3461.00 ft (KB) To 3470.00 ft (KB) (TVD)**
 Total Depth: 3470.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition:
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Andy Carreira
 Unit No: 68
 Reference Elevations: 2024.00 ft (KB)
 2017.00 ft (CF)
 KB to GR/CF: 7.00 ft

Serial #: 8321 Outside
 Press @ Run Depth: 93.29 psig @ 3462.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2013.11.16 End Date: 2013.11.17 Last Calib.: 2013.11.17
 Start Time: 19:31:01 End Time: 00:44:00 Time On Btm: 2013.11.16 @ 21:09:30
 Time Off Btm: 2013.11.16 @ 23:20:30

TEST COMMENT: IF:(30min) Partial Packer failure. Mud dropped 30 ft. No Blow after bleed off.
 IS:(30min) No Return
 FF:(30min) No Blow . Flushed, Surged, No Blow .
 FS:(30min) No Return



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1668.07	94.69	Initial Hydro-static
3	87.39	99.26	Open To Flow (1)
37	90.43	98.59	Shut-In(1)
66	1017.52	99.07	End Shut-In(1)
66	90.25	98.89	Open To Flow (2)
96	93.29	99.87	Shut-In(2)
130	1010.12	100.23	End Shut-In(2)
131	1663.17	100.40	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
125.00	Mud	1.47

* 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: 55.00 sec/qt	Cushion Volume: bbl		
Water Loss: 5.80 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 2200.00 ppm			
Filter Cake: inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
125.00	Mud	1.475

Total Length: 125.00 ft Total Volume: 1.475 bbl
 Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
 Laboratory Name: Laboratory Location:
 Recovery Comments:

Pressure vs. Time

