



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

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

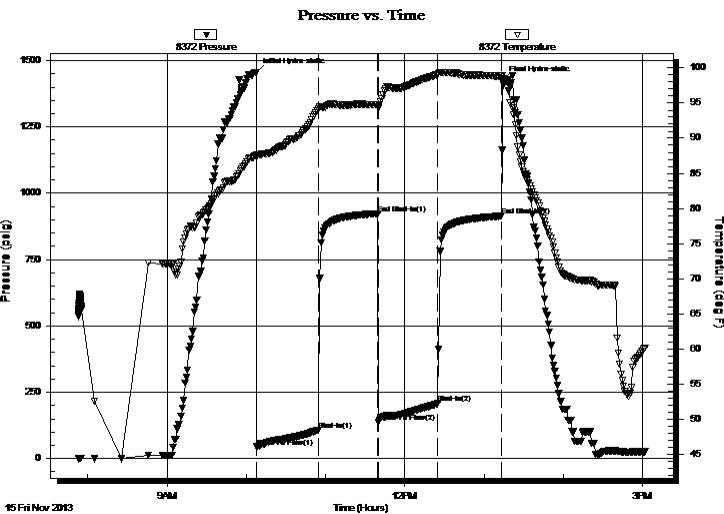
21-8s-19w Rooks
Veverka "D" #3
 Job Ticket: 54338 **DST#: 1**
 Test Start: 2013.11.15 @ 07:53:01

GENERAL INFORMATION:

Formation: **OREAD**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 10:08:00
 Time Test Ended: 15:01:30
 Interval: **3099.00 ft (KB) To 3170.00 ft (KB) (TVD)**
 Total Depth: 3170.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition:
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Andy Carreira
 Unit No: 68
 Reference Elevations: 2024.00 ft (KB)
 2017.00 ft (CF)
 KB to GR/CF: 7.00 ft

Serial #: 8372 Inside
 Press @ Run Depth: 207.69 psig @ 3106.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2013.11.15 End Date: 2013.11.15 Last Calib.: 2013.11.01
 Start Time: 07:53:01 End Time: 15:01:30 Time On Btm: 2013.11.15 @ 10:07:30
 Time Off Btm: 2013.11.15 @ 13:14:00

TEST COMMENT: IF:(45min) 2" blow in 3 min. 6" in 11min. BOB in 23 min.
 ISl:(45min) No Return
 FF:(45min) 2" blow in 3 min. 6" in 11 min. BOB in 23 min.
 FSl:(45min) No Return



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1455.59	87.59	Initial Hydro-static
1	44.02	87.33	Open To Flow (1)
47	107.37	94.13	Shut-In(1)
92	923.95	94.73	End Shut-In(1)
93	136.56	94.29	Open To Flow (2)
138	207.69	99.07	Shut-In(2)
186	914.10	98.82	End Shut-In(2)
187	1422.89	98.90	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
415.00	MW	5.54

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:	20000 ppm
Viscosity: 55.00 sec/qt	Cushion Volume: bbl		
Water Loss: 5.99 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
415.00	MW	5.543

Total Length: 415.00 ft Total Volume: 5.543 bbl
 Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
 Laboratory Name: Laboratory Location:
 Recovery Comments: Resistivity - .53 @ 46 = 20000

Pressure vs. Time

