



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Roberts Res. Inc.
 2020 N. Tyler Rd. Ste. 106
 Wichita, KS 67212
 ATTN: Kent Roberts

16-32s-12w Barber Co. KS

Etheridge Trust 1-16

Job Ticket: 57883 **DST#: 3**
 Test Start: 2015.07.09 @ 14:08:28

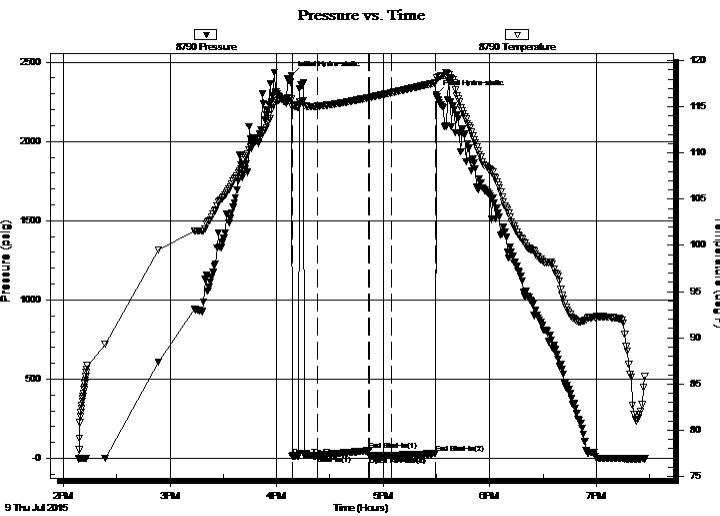
GENERAL INFORMATION:

Formation: **Viola**
 Deviated: No Whipstock: 0.00 ft (KB)
 Time Tool Opened: 16:08:43
 Time Test Ended: 19:27:43
 Interval: **4724.00 ft (KB) To 4744.00 ft (KB) (TVD)**
 Total Depth: 4744.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Ryan Reynolds
 Unit No: 68
 Reference Elevations: 1639.00 ft (KB)
 1627.00 ft (CF)
 KB to GR/CF: 12.00 ft

Serial #: 8790

Press @ RunDepth: 19.13 psig @ 4725.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2015.07.09 End Date: 2015.07.09 Last Calib.: 2015.07.09
 Start Time: 14:08:33 End Time: 19:27:42 Time On Btm: 2015.07.09 @ 16:08:28
 Time Off Btm: 2015.07.09 @ 17:29:58

TEST COMMENT: IF: Very weak surf. - Dead @ 5 (flshd tool) Very weak surf.
 IS: No blow.
 FF: No blow.
 FS: No blow.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2413.76	115.83	Initial Hydro-static
1	14.84	114.96	Open To Flow (1)
15	17.15	115.05	Shut-In(1)
44	49.23	115.99	End Shut-In(1)
44	16.17	116.00	Open To Flow (2)
57	19.13	116.52	Shut-In(2)
81	31.23	117.60	End Shut-In(2)
82	2294.78	118.15	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
10.00	Drig mud 100% m	0.05

* 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:

5000 ppm

Viscosity: 58.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.78 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 5000.00 ppm

Filter Cake: 0.08 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
10.00	Drig mud 100%m	0.049

Total Length: 10.00 ft Total Volume: 0.049 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #: none

Laboratory Name:

Laboratory Location:

Recovery Comments:

