



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Richland Oil Investment LLC

30-11s-19w Ellis

608 E.1st.
PO Box 166
Palco Ks 67657
ATTN: Keith Lambert,A.Luna

Schonthaler #5

Job Ticket: 61129

DST#: 4

Test Start: 2014.11.23 @ 05:35:42

GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 08:08:37

Time Test Ended: 14:37:37

Test Type: Conventional Bottom Hole (Reset)

Tester: Ray Schwager

Unit No: 70

Interval: 3698.00 ft (KB) To 3708.00 ft (KB) (TVD)

Reference Elevations: 2107.00 ft (KB)

Total Depth: 3708.00 ft (KB) (TVD)

2100.00 ft (CF)

Hole Diameter: 7.85 inches Hole Condition: Fair

KB to GR/CF: 7.00 ft

Serial #: 8018

Inside

Press @ Run Depth: 1011.01 psig @ 3699.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.11.23

End Date:

2014.11.23

Last Calib.:

2014.11.23

Start Time: 05:35:42

End Time:

14:37:37

Time On Btm:

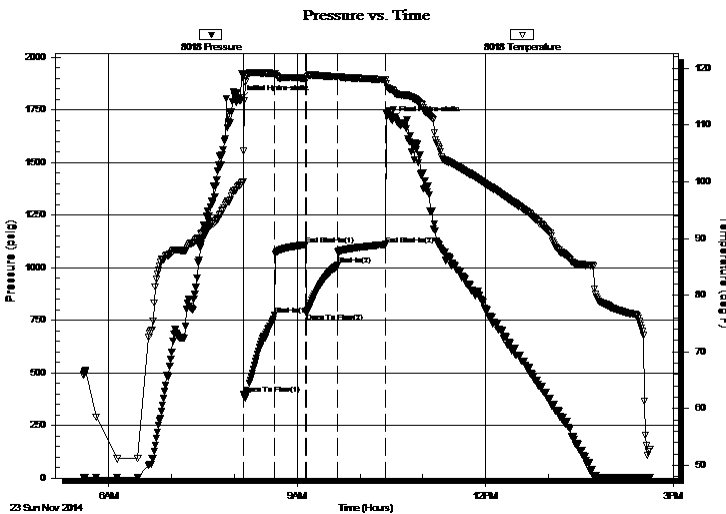
2014.11.23 @ 08:05:37

Time Off Btm:

2014.11.23 @ 10:30:36

TEST COMMENT: 30-IFP-strg bl thru-out
30-ISIP-surface bl bk
30-FFP-strg bl in 1min
45-FSIP-1/8" bl bk

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1796.44	99.43	Initial Hydro-static
3	400.10	105.35	Open To Flow (1)
33	774.13	119.02	Shut-In(1)
63	1109.60	118.15	End Shut-In(1)
63	782.76	117.95	Open To Flow (2)
93	1011.01	118.49	Shut-In(2)
139	1110.16	117.92	End Shut-In(2)
145	1700.87	116.15	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
0.00	180' GIP	0.00
620.00	Water	7.33
185.00	O&GCMW 15%G5%M20%O60%W	2.60
1550.00	CO	21.74

* Recovery from multiple tests

Gas Rates

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



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FLUID SUMMARY

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Schonthalder #5

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ATTN: Keith Lambert,A.Luna

Test Start: 2014.11.23 @ 05:35:42

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

22 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

26000 ppm

Viscosity: 51.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.97 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 3600.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
0.00	180' GIP	0.000
620.00	Water	7.331
185.00	O&GCMW 15%G5%M20%O60%W	2.595
1550.00	CO	21.742

Total Length: 2355.00 ft Total Volume: 31.668 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: RW .26@65F

Pressure vs. Time

