



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, Anthon

Schonthaler #5

Job Ticket: 61128

DST#: 3

Test Start: 2014.11.22 @ 10:55:22

GENERAL INFORMATION:

Formation: **LKC "K"**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 13:15:47
 Time Test Ended: 16:59:16
 Interval: **3576.00 ft (KB) To 3606.00 ft (KB) (TVD)**
 Total Depth: 3606.00 ft (KB) (TVD)
 Hole Diameter: 7.85 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Ray Schwager
 Unit No: 70
 Reference Elevations: 2107.00 ft (KB)
 2100.00 ft (CF)
 KB to GR/CF: 7.00 ft

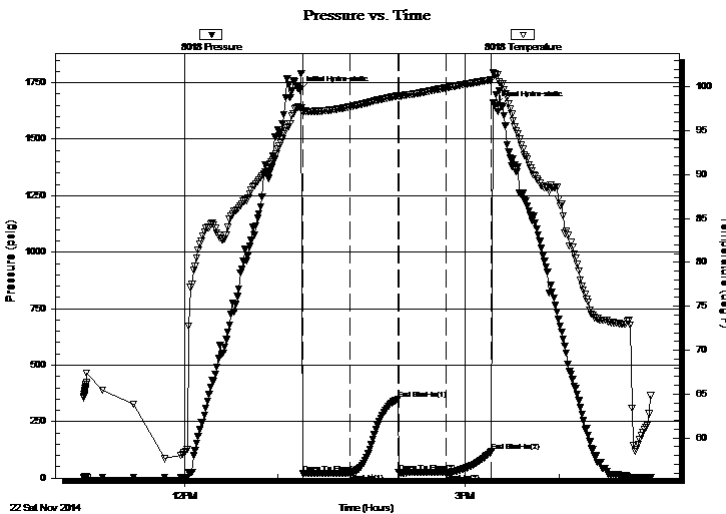
Serial #: 8018

Inside

Press@RunDepth: 23.31 psig @ 3577.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2014.11.22 End Date: 2014.11.22 Last Calib.: 2014.11.22
 Start Time: 10:55:22 End Time: 16:59:16 Time On Btm: 2014.11.22 @ 13:13:47
 Time Off Btm: 2014.11.22 @ 15:18:46

TEST COMMENT: 30-IFP-w k bl thru-out 1/8"to 1/2"bl
 30-ISIP-no bl
 30-FFP-no bl
 30-FSIP-no bl

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1716.61	97.64	Initial Hydro-static
2	20.87	97.14	Open To Flow (1)
32	22.58	97.71	Shut-In(1)
63	349.30	98.96	End Shut-In(1)
64	24.00	98.87	Open To Flow (2)
94	23.31	99.88	Shut-In(2)
123	118.29	100.79	End Shut-In(2)
125	1647.74	101.43	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
5.00	SOCM 2%O98%M	0.02

* 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: 54.00 sec/qt

Cushion Volume: bbl

Water Loss: 7.17 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
5.00	SOCM 2% O98%M	0.025

Total Length: 5.00 ft Total Volume: 0.025 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

