



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: 61127

DST#: 2

Test Start: 2014.11.21 @ 18:10:37

GENERAL INFORMATION:

Formation: **LKC "J"**
 Deviated: No Whipstock: ft (KB)
 Test Type: Conventional Bottom Hole (Reset)
 Time Tool Opened: 20:31:02
 Tester: Ray Schwager
 Time Test Ended: 02:00:31
 Unit No: 70
 Interval: **3556.00 ft (KB) To 3579.00 ft (KB) (TVD)**
 Reference Elevations: 2107.00 ft (KB)
 Total Depth: 3579.00 ft (KB) (TVD)
 2100.00 ft (CF)
 Hole Diameter: 7.85 inches
 Hole Condition: Fair
 KB to GR/CF: 7.00 ft

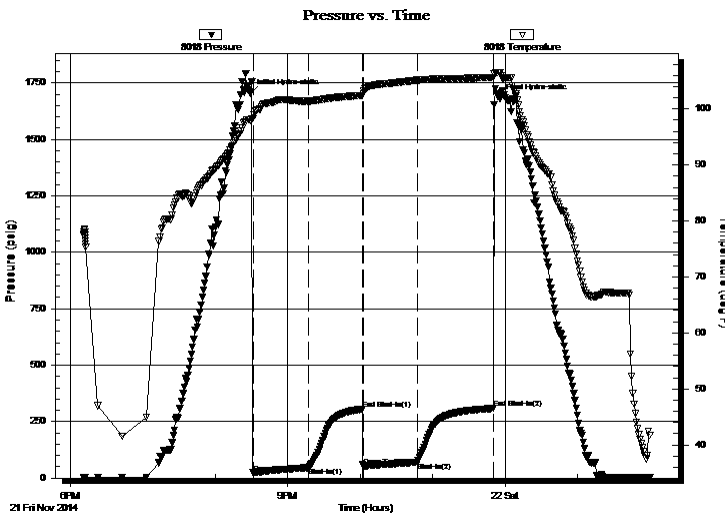
Serial #: 8018

Inside

Press @ Run Depth: 71.12 psig @ 3557.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2014.11.21 End Date: 2014.11.22 Last Calib.: 2014.11.22
 Start Time: 18:10:37 End Time: 02:00:31 Time On Btm: 2014.11.21 @ 20:29:02
 Time Off Btm: 2014.11.21 @ 23:55:31

TEST COMMENT: 45-IFP-w k to a gd bl 1/2" to 8" bl
 45-ISIP-no bl
 45-FFP-w k to a gd bl 1/4" to 8" bl
 60-FSIP-surface bl bk

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1701.76	97.99	Initial Hydro-static
2	22.76	98.25	Open To Flow (1)
48	47.12	101.37	Shut-In(1)
93	305.13	102.41	End Shut-In(1)
94	53.54	102.78	Open To Flow (2)
138	71.12	105.12	Shut-In(2)
201	308.47	105.62	End Shut-In(2)
207	1682.00	106.51	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
0.00	175' GIP	0.00
70.00	CO	0.34
60.00	MGO 15%G25%M60%O	0.30

* 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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Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

28 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 54.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.18 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 3400.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
0.00	175' GIP	0.000
70.00	CO	0.344
60.00	MGO 15%G25%M60%O	0.295

Total Length: 130.00 ft

Total Volume: 0.639 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

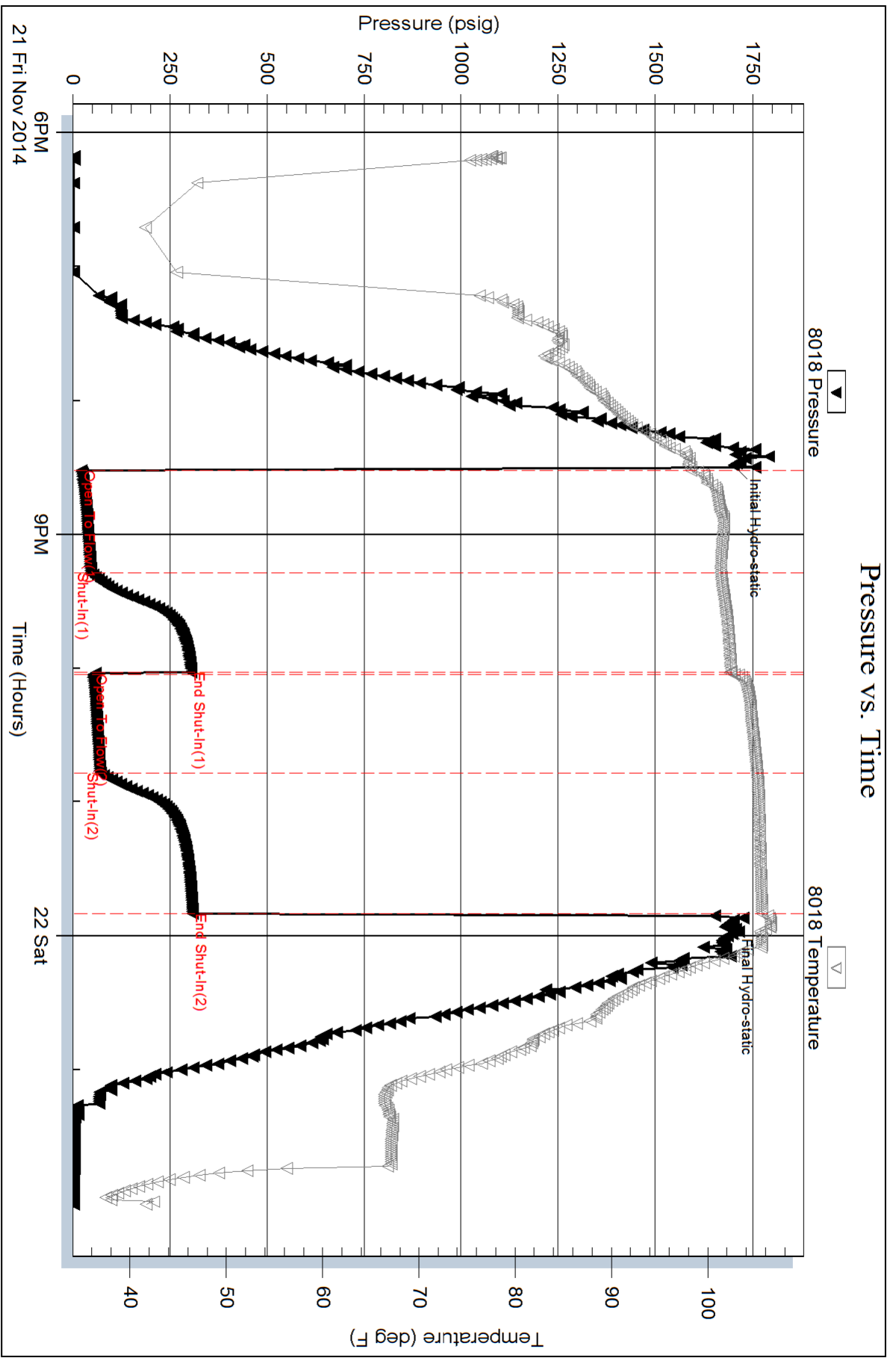
Serial #: 8018

Inside

Richland Oil Investment LLC

Schonthaler #5

DST Test Number: 2



Triobite Testing, Inc

Ref. No: 61127

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