



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, Steve

Schonthaler #5

Job Ticket: 61126

DST#: 1

Test Start: 2014.11.20 @ 18:16:01

GENERAL INFORMATION:

Formation: **LKC C-D**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 20:41:26

Time Test Ended: 02:01:25

Test Type: Conventional Bottom Hole (Initial)

Tester: Ray Schwager

Unit No: 70

Interval: 3416.00 ft (KB) To 3460.00 ft (KB) (TVD)

Reference Elevations: 2107.00 ft (KB)

Total Depth: 3460.00 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: 61.02 psig @ 3424.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.11.20

End Date:

2014.11.21

Last Calib.: 2014.11.21

Start Time: 18:16:01

End Time:

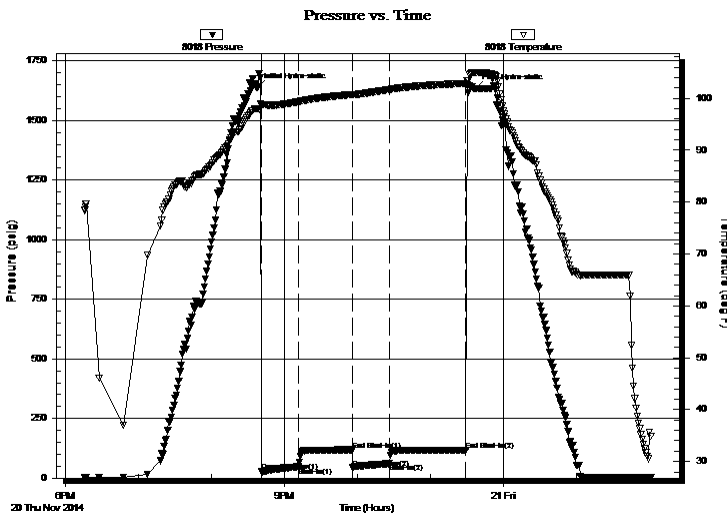
02:01:25

Time On Btm: 2014.11.20 @ 20:37:56

Time Off Btm: 2014.11.20 @ 23:37:25

TEST COMMENT: 30-IFP-w k to a strg bl in 9min
45-ISIP-no bl
30-FFP-strg bl thru-out
60-FSIP-no bl

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1639.96	97.96	Initial Hydro-static
4	27.74	98.81	Open To Flow (1)
34	46.87	99.34	Shut-In(1)
78	118.67	100.73	End Shut-In(1)
79	42.71	100.71	Open To Flow (2)
109	61.02	101.69	Shut-In(2)
172	118.31	102.89	End Shut-In(2)
180	1634.35	104.99	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
0.00	1405'GIP	0.00
20.00	SOCM 5%O95%M	0.10
60.00	HO&GCM 10%G40%O50%M	0.30

Gas Rates

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



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FLUID SUMMARY

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PO Box 166
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Schonthaler #5

Job Ticket: 61126

DST#: 1

ATTN: Keith Lambert, Steve

Test Start: 2014.11.20 @ 18:16:01

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: 46.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.20 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 2600.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
0.00	1405'GIP	0.000
20.00	SOCM 5%O95%M	0.098
60.00	HO&GCM 10%G40%O50%M	0.295

Total Length: 80.00 ft Total Volume: 0.393 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

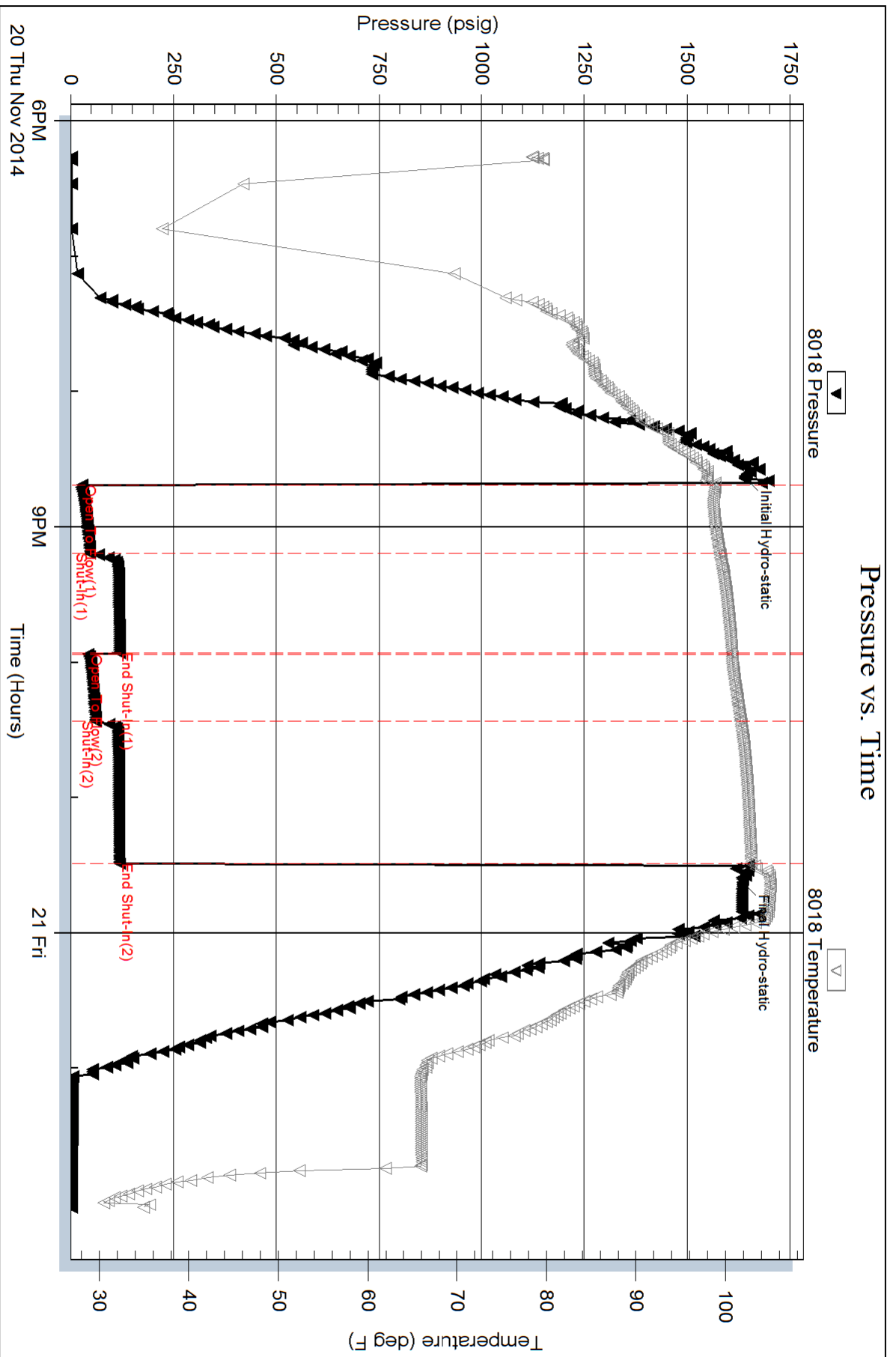
Serial #: 8018

Inside

Richland Oil Investment LLC

Schonthaler #5

DST Test Number: 1



Trilobite Testing, Inc

Ref. No: 61126

Printed: 2014.11.21 @ 03:07:13