



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Jasper Co.
PO Box 1120
Hays Ks. 67601
ATTN: Jeff Lawler

5-7s-20w Rooks
Fischli #1
Job Ticket: 54334 **DST#: 2**
Test Start: 2013.11.04 @ 12:51:01

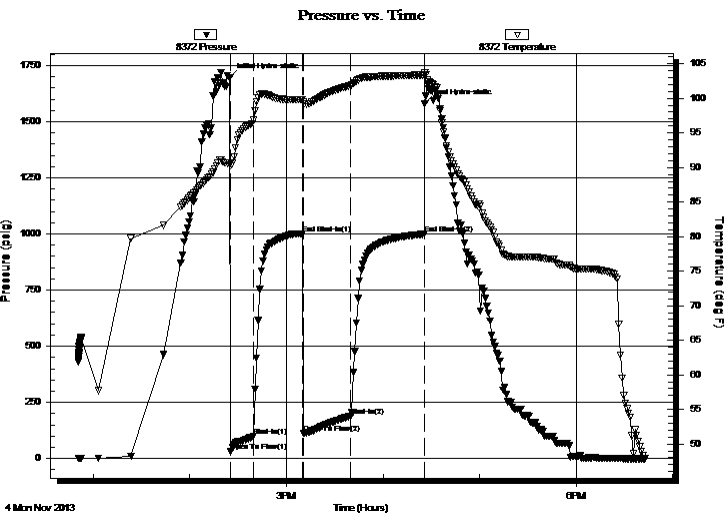
GENERAL INFORMATION:

Formation: **LKC"C-D"**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 14:25:30
Time Test Ended: 18:43:00
Interval: **3454.00 ft (KB) To 3500.00 ft (KB) (TVD)**
Total Depth: 3500.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Poor
Test Type: Conventional Bottom Hole (Reset)
Tester: Andy Carreira
Unit No: 68
Reference Elevations: 2213.00 ft (KB)
2208.00 ft (CF)
KB to GR/CF: 5.00 ft

Serial #: 8372 Inside

Press @ Run Depth: 189.62 psig @ 3459.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2013.11.04 End Date: 2013.11.04 Last Calib.: 2013.11.04
Start Time: 12:51:01 End Time: 18:43:00 Time On Btm: 2013.11.04 @ 14:25:00
Time Off Btm: 2013.11.04 @ 16:26:00

TEST COMMENT: IF:(15min) BOB in 5 min.
ISI:(30min) Return blow 30 sec after bleed off. Built to BOB in 25 min.
FF:(30min) BOB immediately.
FSI:(45min) Return blow immediately after bleed off. Built to BOB in 12 min.



PRESSURE SUMMARY			
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1695.66	90.70	Initial Hydro-static
1	31.89	90.27	Open To Flow (1)
15	98.85	96.84	Shut-In(1)
45	1000.64	99.82	End Shut-In(1)
46	112.98	99.44	Open To Flow (2)
75	189.62	101.86	Shut-In(2)
121	999.15	103.36	End Shut-In(2)
121	1579.50	103.75	Final Hydro-static

Recovery		
Length (ft)	Description	Volume (bbl)
120.00	HOCGM g=20% o=20% m=60%	0.59
360.00	CGO g=15% o=85%	5.04

* Recovery from multiple tests

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



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FLUID SUMMARY

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DST#: 2

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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: 60.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.59 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1000.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
120.00	HOCGM g=20% o=20% m=60%	0.590
360.00	CGO g=15% o=85%	5.038

Total Length: 480.00 ft

Total Volume: 5.628 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

