



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Culbreath Oil & Gas

22-14s-34w Logan, Ks

3501 S. Yale Ave
Tulsa, Ok
74135-8014
ATTN: Steve Murphy

Baker #1-22

Job Ticket: 45502

DST#: 1

Test Start: 2015.08.17 @ 05:30:45

GENERAL INFORMATION:

Formation: **Altamont**

Deviated: No Whipstock: 0.00 ft (KB)

Time Tool Opened: 07:23:45

Time Test Ended: 10:55:30

Test Type: Conventional Bottom Hole (Initial)

Tester: Shane McBride

Unit No: 84

Interval: 4300.00 ft (KB) To 4336.00 ft (KB) (TVD)

Reference Elevations: 3002.00 ft (KB)

Total Depth: 4336.00 ft (KB) (TVD)

2997.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

Serial #: 8844 Inside

Press@RunDepth: 48.88 psig @ 4305.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2015.08.17

End Date:

2015.08.17

Last Calib.: 2015.08.17

Start Time: 05:30:45

End Time:

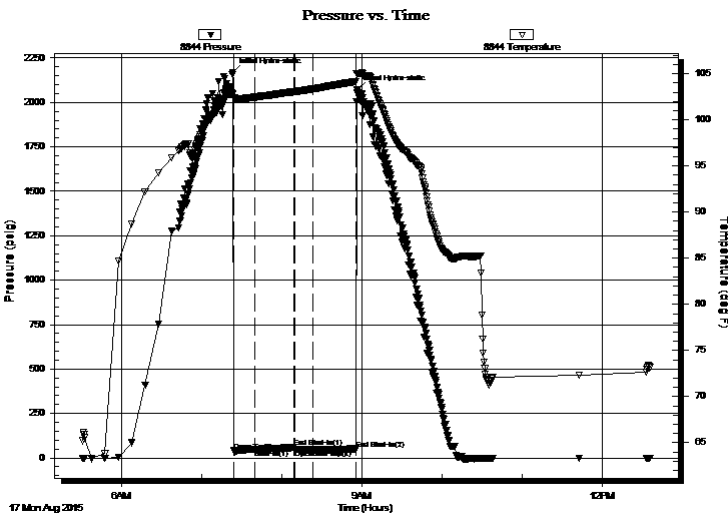
12:35:30

Time On Btm: 2015.08.17 @ 07:23:15

Time Off Btm: 2015.08.17 @ 08:56:30

TEST COMMENT: 1/8" in blow at open, died in 12 min.
No return
Weak surface blow, died in 3 min.
No return

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2169.37	102.85	Initial Hydro-static
1	39.59	102.38	Open To Flow (1)
16	47.68	102.45	Shut-In(1)
46	58.42	103.06	End Shut-In(1)
46	49.96	103.05	Open To Flow (2)
60	48.88	103.36	Shut-In(2)
93	51.15	104.17	End Shut-In(2)
94	2071.59	105.01	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
40.00	mud 100% m oil spots in tool	0.20

Gas Rates

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



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FLUID SUMMARY

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DST#: 1

ATTN: Steve Murphy

Test Start: 2015.08.17 @ 05:30:45

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

0 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

0 ppm

Viscosity: 52.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 10.78 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 15000.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
40.00	mud 100% oil spots in tool	0.197

Total Length: 40.00 ft Total Volume: 0.197 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Serial #: 8844

Inside

Culbreath Oil & Gas

Baker #1-22

DST Test Number: 1

