



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Samuel Gary Jr. & Associates

15-17S-12W Barton Co

1515 Wynkoop STE 700
Denver CO 80202

Daniel Demel 1-15

ATTN: Dan Pritchard

Job Ticket: 54046

DST#: 2

Test Start: 2014.05.19 @ 20:49:00

GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 23:29:15

Time Test Ended: 05:21:00

Test Type: Conventional Bottom Hole (Reset)

Tester: Cody Bloedorn

Unit No: 73

Interval: 3330.00 ft (KB) To 3347.00 ft (KB) (TVD)

Reference Elevations: 1853.00 ft (KB)

Total Depth: 3347.00 ft (KB) (TVD)

1843.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 10.00 ft

Serial #: 8648 Inside

Press @ Run Depth: 31.27 psig @ 3344.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.05.19 End Date: 2014.05.20

Last Calib.: 2014.05.20

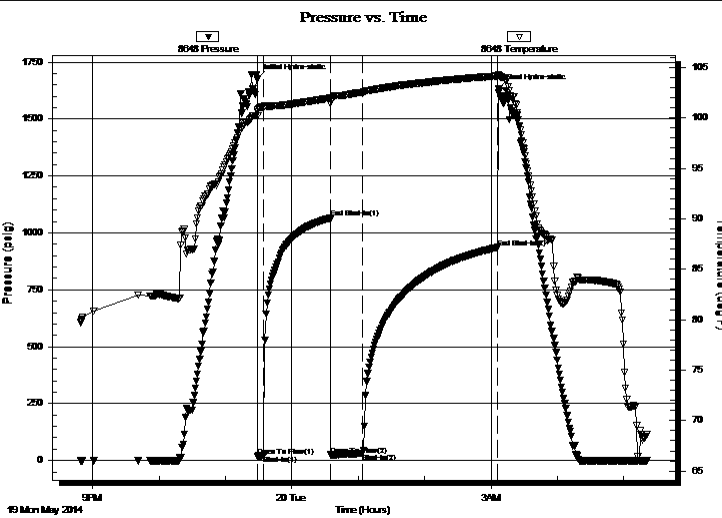
Start Time: 20:49:05 End Time: 05:20:59

Time On Btm: 2014.05.19 @ 23:29:00

Time Off Btm: 2014.05.20 @ 03:07:00

TEST COMMENT: 05 - IF- 1.5" blow
60 - IS- No return
30 - FF- Surface return
120 - FS- No return

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1677.39	100.80	Initial Hydro-static
1	20.44	100.20	Open To Flow (1)
6	23.68	101.02	Shut-In(1)
66	1064.43	101.96	End Shut-In(1)
66	25.15	101.44	Open To Flow (2)
95	31.27	102.52	Shut-In(2)
217	936.09	104.14	End Shut-In(2)
218	1632.41	104.23	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
15.00	VSOCM, 5%O, 95%M	0.21
10.00	GO, 5%G, 95%O	0.14

* Recovery from multiple tests

Gas Rates

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



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Unit No: 73

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Total Depth: 3347.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 1853.00 ft (KB)

1843.00 ft (CF)

KB to GR/CF: 10.00 ft

Serial #: 8958

Fluid

Press @ Run Depth: psig @ 3295.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.05.19

End Date:

2014.05.20

Last Calib.:

2014.05.20

Start Time: 20:49:05

End Time:

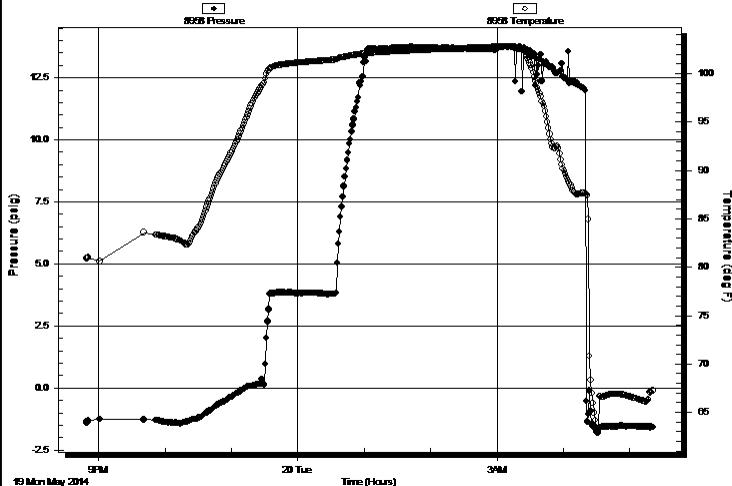
05:20:59

Time On Btm:

Time Off Btm:

TEST COMMENT: 05 - IF- 1.5" blow
60 - IS- No return
30 - FF- Surface return
120 - FS- No return

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation

Recovery

Length (ft)	Description	Volume (bbl)
15.00	VSOCM, 5%O, 95%M	0.21
10.00	GO, 5%G, 95%O	0.14

Gas Rates

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

* Recovery from multiple tests



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FLUID SUMMARY

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DST#: 2

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Test Start: 2014.05.19 @ 20:49:00

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: 48.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.95 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 4700.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
15.00	VSOCM, 5%O, 95%M	0.210
10.00	GO, 5%G, 95%O	0.140

Total Length: 25.00 ft Total Volume: 0.350 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: Sampler: 40 PSI, 200ML Oil, 1800 ML Mud

