



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Samuel Gary Jr. & Associates

31-14s-16w-Ellis

1515 Wynkoop Suite 700
Denver, CO. 80202

Pfeifer #1-31

ATTN: Chris Mitchell

Job Ticket: 52223

DST#: 1

Test Start: 2013.04.17 @ 03:08:41

GENERAL INFORMATION:

Formation: **A-B-C**

Deviated: No Whipstock: 0.00 ft (KB)

Time Tool Opened: 06:04:56

Time Test Ended: 12:21:26

Test Type: Conventional Bottom Hole (Initial)

Tester: Jason McLemore

Unit No: 54

Interval: 3170.00 ft (KB) To 3245.00 ft (KB) (TVD)

Reference Elevations: 1930.00 ft (KB)

Total Depth: 3245.00 ft (KB) (TVD)

1922.00 ft (CF)

Hole Diameter: 7.80 inches Hole Condition: Good

KB to GR/CF: 8.00 ft

Serial #: 8789 Inside

Press @ Run Depth: 74.46 psig @ 3238.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.04.17 End Date: 2013.04.17

Last Calib.: 2013.04.17

Start Time: 03:08:43 End Time: 12:21:26

Time On Btm: 2013.04.17 @ 06:04:41

Time Off Btm: 2013.04.17 @ 09:52:26

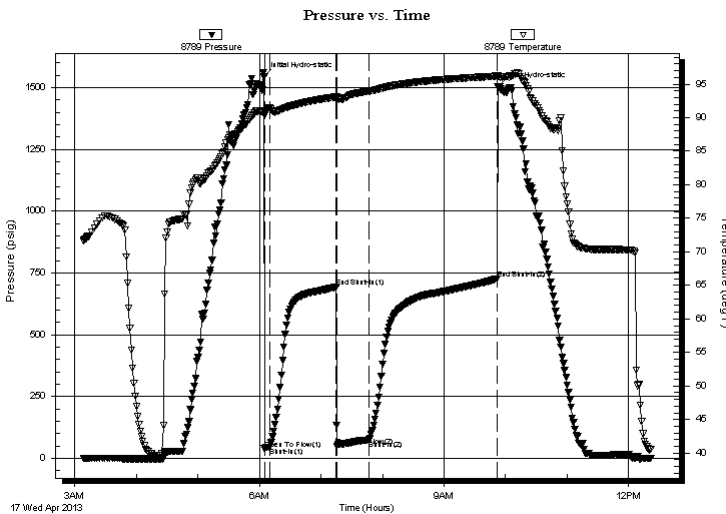
TEST COMMENT: IFP-Good Blow, Built to 5-1/2"

ISI-Dead

FFP-Strong, BOB on Open

FSI-Dead

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1544.71	90.93	Initial Hydro-static
1	38.10	90.38	Open To Flow (1)
6	44.70	91.53	Shut-In(1)
71	693.59	93.09	End Shut-In(1)
71	48.30	92.90	Open To Flow (2)
103	74.46	93.93	Shut-In(2)
227	726.77	96.18	End Shut-In(2)
228	1502.31	96.28	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
110.00	GOCM-20%G-25%O-55%M	1.54
0.00	795' Gas In Pipe	0.00

Gas Rates

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



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FLUID SUMMARY

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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: 51.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.80 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 5500.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
110.00	GOCM-20%G-25%O-55%M	1.543
0.00	795' Gas In Pipe	0.000

Total Length: 110.00 ft Total Volume: 1.543 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: Sampler-650#, 1000ml Oil, 500ml Mud, 2500ml Gas

