



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Sam Gary Jr. and Associates, Inc.

6-10S-29W

1515 Wynkoop, Ste 700
Denver Co. 80202

Baalman #1

Job Ticket: 61017

DST#: 1

ATTN: Chris Micheal

Test Start: 2014.12.05 @ 21:19:00

GENERAL INFORMATION:

Formation: **Toronto & Lans. - 'A**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 23:07:30

Time Test Ended: 05:04:30

Test Type: Conventional Bottom Hole (Initial)

Tester: Royal Fisher

Unit No: #54

Interval: **3945.00 ft (KB) To 3993.00 ft (KB) (TVD)**

Reference Elevations: 2903.00 ft (KB)

Total Depth: 3993.00 ft (KB) (TVD)

2895.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 8.00 ft

Serial #: 6753 Outside

Press @ Run Depth: 600.89 psig @ 3946.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.12.05 End Date: 2014.12.06

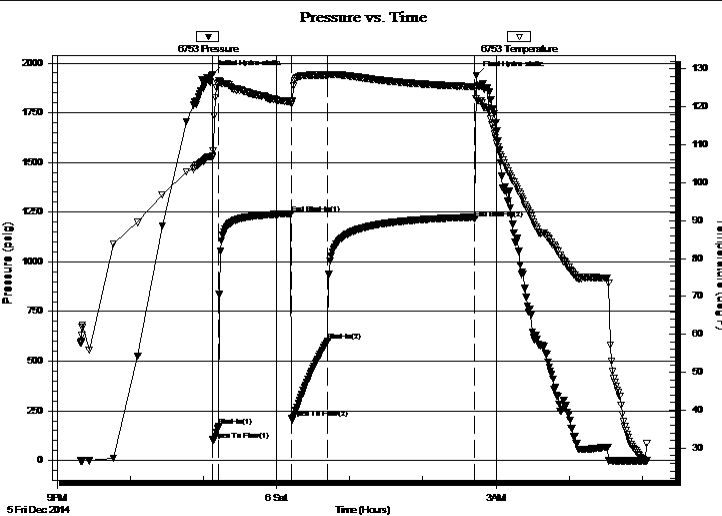
Last Calib.: 2014.12.06

Start Time: 21:19:05 End Time: 05:04:29

Time On Btm: 2014.12.05 @ 23:07:15

Time Off Btm: 2014.12.06 @ 02:43:45

TEST COMMENT: 5 - IF - Surface blow built to bottom of the bucket in 2 1/2 mins.
60 - ISI - No Return
30 - FF - Surface blow built to bottom of bucket in 2 1/2 mins.
120 - FSI - No Return



PRESSURE SUMMARY

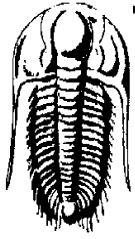
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1942.96	107.12	Initial Hydro-static
1	103.75	106.74	Open To Flow (1)
6	174.22	126.34	Shut-In(1)
65	1241.98	121.36	End Shut-In(1)
65	213.07	120.71	Open To Flow (2)
95	600.89	128.38	Shut-In(2)
216	1217.39	125.26	End Shut-In(2)
217	1937.06	122.18	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
935.00	MW - 5M - 95W	12.83
310.00	OSMW - 40M - 60W - Oil Spots	4.35

Gas Rates

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



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Tester: Royal Fisher

Unit No: #54

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Reference Elevations: 2903.00 ft (KB)

Total Depth: 3993.00 ft (KB) (TVD)

2895.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 8.00 ft

Serial #: 8368

Press @ Run Depth: psig @ ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.12.05

End Date: 2014.12.06

Last Calib.: 2014.12.06

Start Time: 21:19:05

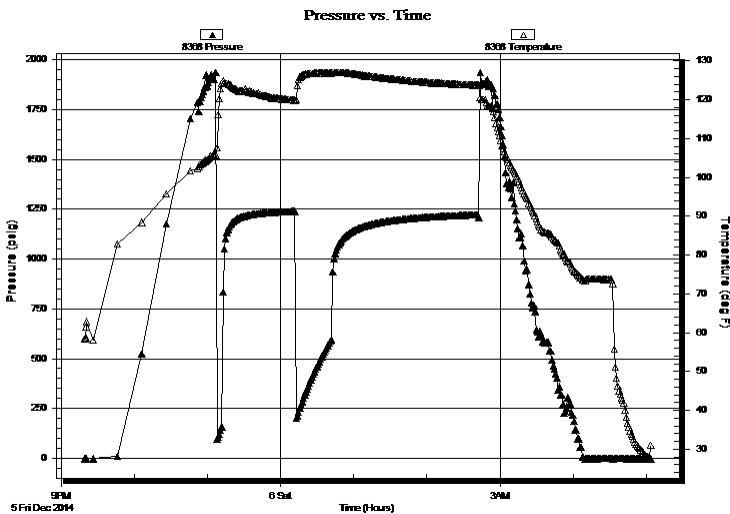
End Time: 05:04:29

Time On Btm:

Time Off Btm:

TEST COMMENT: 5 - IF - Surface blow built to bottom of the bucket in 2 1/2 mins.
60 - ISI - No Return
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120 - FSI - No Return

PRESSURE SUMMARY



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

Recovery

Gas Rates

Length (ft)	Description	Volume (bbl)
935.00	MW - 5M - 95W	12.83
310.00	OSMW - 40M - 60W - Oil Spots	4.35

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



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Baalman #1

Job Ticket: 61017

DST#: 1

ATTN: Chris Micheal

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Test Type: Conventional Bottom Hole (Initial)

Tester: Royal Fisher

Unit No: #54

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Reference Elevations: 2903.00 ft (KB)

Total Depth: 3993.00 ft (KB) (TVD)

2895.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 8.00 ft

Serial #: 6755

Press @RunDepth: psig @ ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.12.05 End Date: 2014.12.06

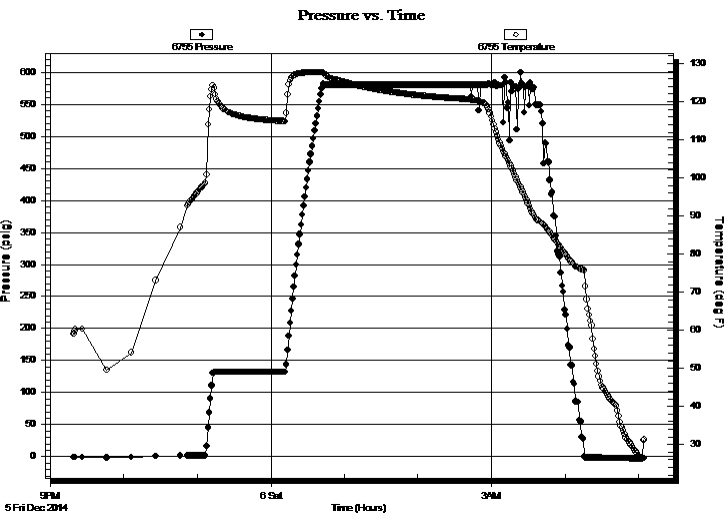
Last Calib.: 2014.12.06

Start Time: 21:19:05 End Time: 05:04:44

Time On Btm:

Time Off Btm:

TEST COMMENT: 5 - IF - Surface blow built to bottom of the bucket in 2 1/2 mins.
60 - ISI - No Return
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120 - FSI - No Return



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
935.00	MW - 5M - 95W	12.83
310.00	OSMW - 40M - 60W - Oil Spots	4.35

Gas Rates

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



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FLUID SUMMARY

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Baalman #1

Job Ticket: 61017

DST#: 1

ATTN: Chris Micheal

Test Start: 2014.12.05 @ 21:19:00

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: 65.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.60 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 750.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
935.00	MW - 5M - 95W	12.828
310.00	OSMW - 40M - 60W - Oil Spots	4.348

Total Length: 1245.00 ft Total Volume: 17.176 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

