



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Kal Oil Operations

19-16s-13w Barton, KS

102 W. 7th
Russell KS 67665

Callaway #3

Job Ticket: 61999

DST#: 2

ATTN: Jason T Alm

Test Start: 2015.06.07 @ 04:22:00

GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 06:11:30

Time Test Ended: 08:56:30

Test Type: Conventional Bottom Hole (Initial)

Tester: Shane Konzem

Unit No: 56

Interval: 3375.00 ft (KB) To 3403.00 ft (KB) (TVD)

Reference Elevations: 1951.00 ft (KB)

Total Depth: 3403.00 ft (KB) (TVD)

1943.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

Serial #: 8524 Inside

Press @ Run Depth: 30.67 psig @ 3399.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2015.06.07

End Date: 2015.06.07

Last Calib.: 2015.06.07

Start Time: 04:23:00

End Time: 08:56:30

Time On Btm: 2015.06.07 @ 06:06:30

Time Off Btm: 2015.06.07 @ 07:38:30

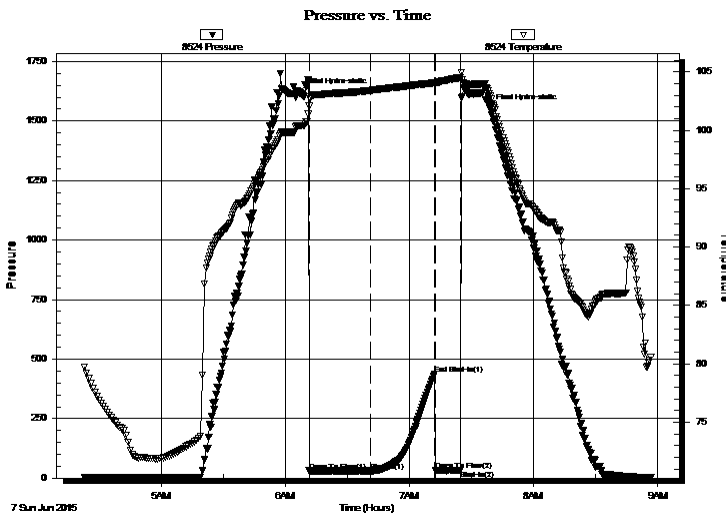
TEST COMMENT: IFP 30 Minutes. Weak blow built to 1/2 inch into water.

ISI 30 Minutes. No blow back.

FFP 10 Minutes. No blow, flushed tool, had good flush bubbles and gained no blow.

FSI N/A

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1620.74	100.37	Initial Hydro-static
5	30.67	102.06	Open To Flow (1)
35	30.67	103.40	Shut-In(1)
66	436.77	104.07	End Shut-In(1)
66	32.66	103.98	Open To Flow (2)
78	31.86	104.49	Shut-In(2)
92	1553.31	103.16	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
1.00	100% clean oil	0.00
9.00	Oil cut mud 10% oil, 90% mud	0.04

Gas Rates

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



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Time Test Ended: 08:56:30

Test Type: Conventional Bottom Hole (Initial)

Tester: Shane Konzem

Unit No: 56

Interval: 3375.00 ft (KB) To 3403.00 ft (KB) (TVD)

Reference Elevations: 1951.00 ft (KB)

Total Depth: 3403.00 ft (KB) (TVD)

1943.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

Serial #: 6651 Outside

Press @ Run Depth: 23.10 psig @ 3400.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2015.06.07

End Date: 2015.06.07

Last Calib.: 2015.06.07

Start Time: 04:23:00

End Time: 08:55:30

Time On Btm: 2015.06.07 @ 06:07:00

Time Off Btm: 2015.06.07 @ 07:28:30

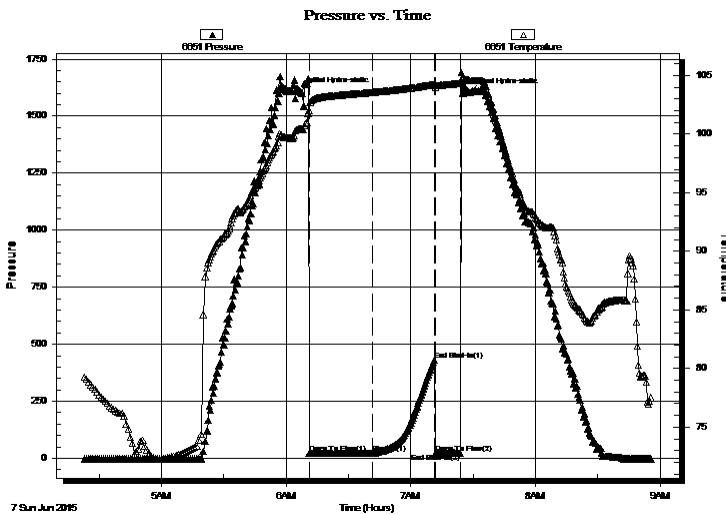
TEST COMMENT: IFP 30 Minutes. Weak blow built to 1/2 inch into water.

ISI 30 Minutes. No blow back.

FFP 10 Minutes. No blow, flushed tool, had good flush bubbles and gained no blow.

FSI N/A

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1605.30	100.42	Initial Hydro-static
4	21.27	102.00	Open To Flow (1)
35	22.18	103.57	Shut-In(1)
65	431.43	104.25	End Shut-In(1)
65	23.46	104.03	Open To Flow (2)
77	23.10	104.35	End Shut-In(2)
82	1602.16	104.59	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
1.00	100% clean oil	0.00
9.00	Oil cut mud 10% oil, 90% mud	0.04

Gas Rates

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



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FLUID SUMMARY

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19-16s-13w Barton,KS

102 W. 7th
Russell KS 67665

Callaway #3

Job Ticket: 61999

DST#: 2

ATTN: Jason T Alm

Test Start: 2015.06.07 @ 04:22:00

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: 49.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 9.17 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 4000.00 ppm

Filter Cake: 0.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
1.00	100% clean oil	0.005
9.00	Oil cut mud 10% oil, 90% mud	0.044

Total Length: 10.00 ft Total Volume: 0.049 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

