



**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: 61998

DST#: 1

ATTN: Jason T Alm

Test Start: 2015.06.06 @ 15:55:00

GENERAL INFORMATION:

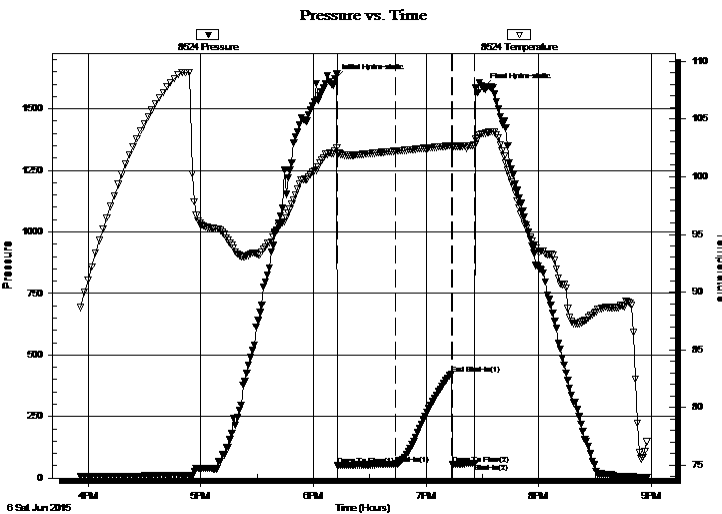
Formation: **LKC "H-K"**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 18:13:00
 Time Test Ended: 20:58:00
 Interval: **3297.00 ft (KB) To 3365.00 ft (KB) (TVD)**
 Total Depth: 3365.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Shane Konzem
 Unit No: 56
 Reference Elevations: 1951.00 ft (KB)
 1943.00 ft (CF)
 KB to GR/CF: 8.00 ft

Serial #: 8524

Inside

Press @ Run Depth: 55.44 psig @ 3361.10 ft (KB) Capacity: 8000.00 psig
 Start Date: 2015.06.06 End Date: 2015.06.06 Last Calib.: 2015.06.06
 Start Time: 15:56:00 End Time: 20:58:00 Time On Btm: 2015.06.06 @ 18:11:30
 Time Off Btm: 2015.06.06 @ 19:30:30

TEST COMMENT: IFP 30 Minutes. Weak blow built to 3/4"
 ISI 30 Minutes. No blow back.
 FFP 15 Minutes. No blow, flushed tool had good flush bubbles and gained no blow. Pulled test per Geo.
 FSI N/A



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1623.04	102.23	Initial Hydro-static
2	51.62	102.07	Open To Flow (1)
32	55.44	102.21	Shut-In(1)
62	422.28	102.68	End Shut-In(1)
63	57.03	102.60	Open To Flow (2)
75	60.00	102.73	Shut-In(2)
79	1584.13	103.76	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
15.00	100% mud.	0.07

Gas Rates

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



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DST#: 1

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GENERAL INFORMATION:

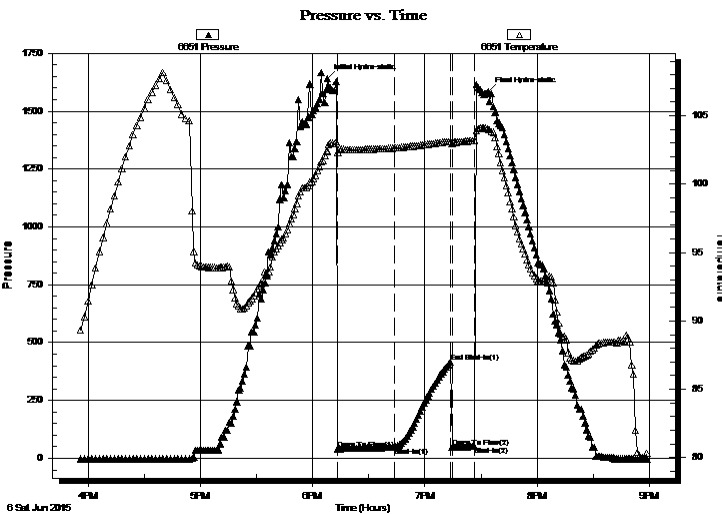
Formation: **LKC "H-K"**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 18:13:00
 Time Test Ended: 20:58:00
 Interval: **3297.00 ft (KB) To 3365.00 ft (KB) (TVD)**
 Total Depth: 3365.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Shane Konzem
 Unit No: 56
 Reference Elevations: 1951.00 ft (KB)
 1943.00 ft (CF)
 KB to GR/CF: 8.00 ft

Serial #: 6651

Outside

Press @ Run Depth: 414.42 psig @ 3362.10 ft (KB) Capacity: 8000.00 psig
 Start Date: 2015.06.06 End Date: 2015.06.06 Last Calib.: 2015.06.06
 Start Time: 15:56:00 End Time: 20:58:30 Time On Btm: 2015.06.06 @ 18:08:00
 Time Off Btm: 2015.06.06 @ 19:34:00

TEST COMMENT: IFP 30 Minutes. Weak blow built to 3/4"
 ISI 30 Minutes. No blow back.
 FFP 15 Minutes. No blow, flushed tool had good flush bubbles and gained no blow. Pulled test per Geo.
 FSI N/A



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1640.84	102.43	Initial Hydro-static
6	40.69	102.30	Open To Flow (1)
36	46.74	102.64	Shut-In(1)
66	414.42	103.14	End Shut-In(1)
67	46.71	102.94	Open To Flow (2)
79	50.74	103.21	Shut-In(2)
86	1583.73	104.01	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
15.00	100% mud.	0.07

Gas Rates

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



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FLUID SUMMARY

Kal Oil Operations

19-16s-13w Barton,KS

102 W. 7th
Russell KS 67665

Callaway #3

Job Ticket: 61998

DST#: 1

ATTN: Jason T Alm

Test Start: 2015.06.06 @ 15:55:00

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
15.00	100% mud.	0.074

Total Length: 15.00 ft Total Volume: 0.074 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Serial #: 8524

Inside

Kal Oil Operations

Callaway #3

DST Test Number: 1

Pressure vs. Time

