



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Outlaw Well Service
1408 West 42nd
Hays KS 67601
ATTN: Steve Reed

20-8-19, Rooks, KS
Lowry #5-13
Job Ticket: 64866 **DST#: 5**
Test Start: 2015.10.27 @ 06:10:00

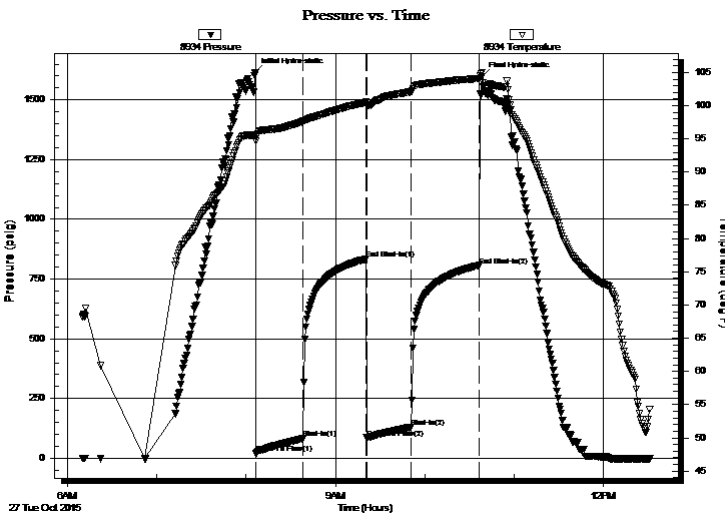
GENERAL INFORMATION:

Formation: **KC"D"**
Deviated: No Whipstock: ft (KB) Test Type: Conventional Straddle (Reset)
Time Tool Opened: 08:06:30 Tester: Brett Dickinson
Time Test Ended: 12:31:15 Unit No: 59
Interval: 3252.00 ft (KB) To 3266.00 ft (KB) (TVD) Reference Elevations: 2009.00 ft (KB)
Total Depth: 3266.00 ft (KB) (TVD) 2001.00 ft (CF)
Hole Diameter: 7.88 inches Hole Condition: Fair KB to GR/CF: 8.00 ft

Serial #: 8934 Inside
Press@RunDepth: 129.99 psig @ 3253.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2015.10.27 End Date: 2015.10.27 Last Calib.: 2015.10.27
Start Time: 06:10:05 End Time: 12:31:14 Time On Btm: 2015.10.27 @ 08:05:45
Time Off Btm: 2015.10.27 @ 10:38:30

TEST COMMENT: IF-BOB in 21min
IS-No blow
FF-6in blow
FS-No blow

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1614.59	95.64	Initial Hydro-static
1	19.11	94.66	Open To Flow (1)
32	81.45	97.58	Shut-In(1)
75	833.93	100.53	End Shut-In(1)
75	85.54	100.15	Open To Flow (2)
105	129.99	102.11	Shut-In(2)
151	806.97	104.09	End Shut-In(2)
153	1599.10	105.02	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
2.00	OS MW 20%M 80%W	0.01
248.00	Water	3.22

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Outlaw Well Service

20-8-19, Rooks, KS

1408 West 42nd
Hays KS 67601

Lowry #5-13

Job Ticket: 64866

DST#: 5

ATTN: Steve Reed

Test Start: 2015.10.27 @ 06:10:00

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:

76000 ppm

Viscosity: 50.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.60 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 900.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
2.00	OS MW 20%M 80%W	0.010
248.00	Water	3.224

Total Length: 250.00 ft Total Volume: 3.234 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time

