



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Carmen Schmitt
PO Box 47
Great Bend KS, 67530-0047
ATTN: Brad Rine

14-16s-28w Lane Co, KS
Lawrence #1-14
Job Ticket: 61599 **DST#: 4**
Test Start: 2015.08.07 @ 04:00:00

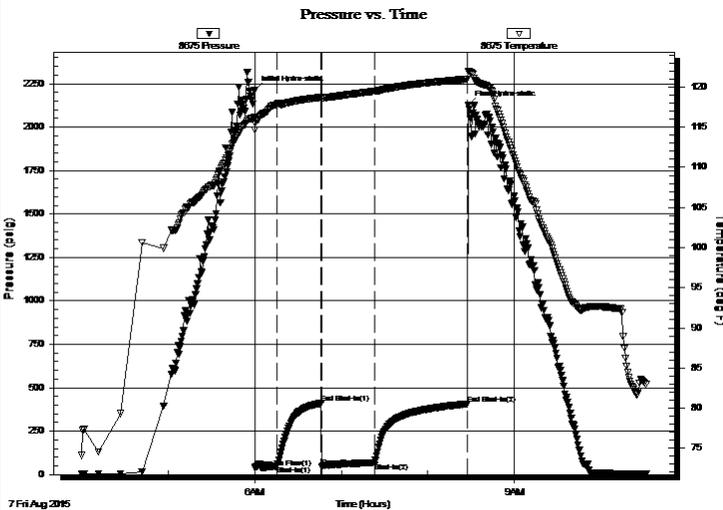
GENERAL INFORMATION:

Formation: **Pawnee-FortScott**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 06:00:30
Time Test Ended: 10:31:15
Interval: **4402.00 ft (KB) To 4495.00 ft (KB) (TVD)**
Total Depth: 4495.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Poor
Test Type: Conventional Bottom Hole (Reset)
Tester: Jace McKinney
Unit No: 75
Reference Elevations: 2731.00 ft (KB)
2723.00 ft (CF)
KB to GR/CF: 8.00 ft

Serial #: 8675 Inside
Press@RunDepth: 68.63 psig @ 4418.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2015.08.07 End Date: 2015.08.07 Last Calib.: 2015.08.07
Start Time: 04:00:15 End Time: 10:31:15 Time On Btm: 2015.08.07 @ 06:00:00
Time Off Btm: 2015.08.07 @ 08:28:00

TEST COMMENT: B.O.B. in 4 min.
Bled off for 5 min, No return blow
B.O.B. in 20 sec.
Bled off for 5 min, No return blow

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2214.53	116.21	Initial Hydro-static
1	39.64	115.54	Open To Flow (1)
16	50.43	117.90	Shut-In(1)
46	410.76	118.74	End Shut-In(1)
47	44.46	118.63	Open To Flow (2)
83	68.63	119.49	Shut-In(2)
148	406.67	121.00	End Shut-In(2)
148	2127.55	122.01	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
0.00	2457 Feet Gas In Pipe	0.00
60.00	100% Mud with oil scum	0.84
63.00	w cmgo 10%W 20%M 20%G 50%O	0.88

* Recovery from multiple tests

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: 55.00 sec/qt	Cushion Volume: bbl		
Water Loss: 7.99 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 3300.00 ppm			
Filter Cake: 1.00 inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
0.00	2457 Feet Gas In Pipe	0.000
60.00	100% Mud w ith oil scum	0.842
63.00	w cmgo 10%W 20%M 20%G 50%O	0.884

Total Length: 123.00 ft Total Volume: 1.726 bbl
Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
Laboratory Name: Laboratory Location:
Recovery Comments:

