



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Pickrell Drlg. Co. Inc.
100 S. Main Ste. 505
Wichita, KS 67202-3738
ATTN: Aaron Young

12-30s-8w Kingman Co., KS
Young 'A' - 3
Job Ticket: 59962 **DST#: 1**
Test Start: 2015.01.25 @ 23:05:26

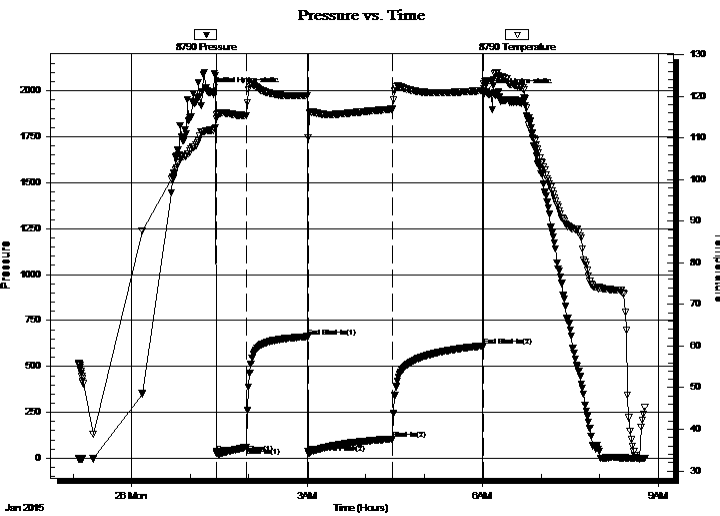
GENERAL INFORMATION:

Formation: **Mississippian**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 01:26:41
Time Test Ended: 08:46:26
Interval: **4110.00 ft (KB) To 4125.00 ft (KB) (TVD)**
Total Depth: 4125.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair
Reference Elevations: 1481.00 ft (KB)
1471.00 ft (CF)
KB to GR/CF: 10.00 ft
Test Type: Conventional Bottom Hole (Initial)
Tester: Ryan Reynolds
Unit No: 68

Serial #: 8790

Press @ Run Depth: 106.00 psig @ 4115.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2015.01.25 End Date: 2015.01.26 Last Calib.: 2015.01.26
Start Time: 23:05:31 End Time: 08:46:26 Time On Btm: 2015.01.26 @ 01:20:41
Time Off Btm: 2015.01.26 @ 06:01:11

TEST COMMENT: IF: Strong blow . BOB @ 1min.
IS: GTS on blow dow n. No Blow Back.
FF: Strong blow . BOB immed. Guaged gas.
FS: No blow .



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1996.59	111.82	Initial Hydro-static
6	28.38	114.59	Open To Flow (1)
37	60.86	115.26	Shut-In(1)
100	662.09	120.17	End Shut-In(1)
101	28.48	110.02	Open To Flow (2)
187	106.00	116.89	Shut-In(2)
280	612.12	121.35	End Shut-In(2)
281	1987.21	121.86	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
60.00	GOMCW 5%o, 10%g, 10%m, 75%w	0.84
30.00	GOWCM 5%o, 5%w, 30%g, 60%m	0.42

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
First Gas Rate	0.13	17.00	11.75
Last Gas Rate	0.13	62.00	28.60
Max. Gas Rate	0.13	62.00	28.60



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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: 115000 ppm	
Viscosity: 55.00 sec/qt	Cushion Volume: bbl		
Water Loss: 8.79 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 4000.00 ppm			
Filter Cake: 0.08 inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
60.00	GOMCW 5%o, 10%g, 10%m, 75%w	0.842
30.00	GOWCM 5%o, 5%w, 30%g, 60%m	0.421

Total Length: 90.00 ft Total Volume: 1.263 bbl
 Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #: none
 Laboratory Name: Laboratory Location:
 Recovery Comments:



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GAS RATES

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Gas Rates Information

Temperature: 59 (deg F)

Relative Density: 0.65

Z Factor: 0.8

Gas Rates Table

Flow Period	Elapsed Time	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
2	10	0.13	17.00	11.75
2	20	0.13	28.00	15.87
2	30	0.13	37.00	19.24
2	40	0.13	43.00	21.48
2	50	0.13	48.00	23.35
2	60	0.13	53.00	25.23
2	70	0.13	56.00	26.35
2	80	0.13	59.00	27.47
2	90	0.13	62.00	28.60

