



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Edison Oper. Co. LLC
8100 E. 22nd St. N. Bldg. 1900
Wichita, KS 67226
ATTN: Adam Nighswonger

20-20s-10w Rice Co. KS
Bayer 2-20
Job Ticket: 52475 **DST#: 3**
Test Start: 2013.11.19 @ 20:25:00

GENERAL INFORMATION:

Formation: **Arbuckle**
Deviated: No Whipstock: 0.00 ft (KB)
Time Tool Opened: 22:10:45
Time Test Ended: 02:44:30
Interval: **3240.00 ft (KB) To 3295.00 ft (KB) (TVD)**
Total Depth: 3295.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair
Reference Elevations: 1741.00 ft (KB)
1735.00 ft (CF)
KB to GR/CF: 6.00 ft
Test Type: Conventional Bottom Hole (Reset)
Tester: Ryan Reynolds
Unit No: 48

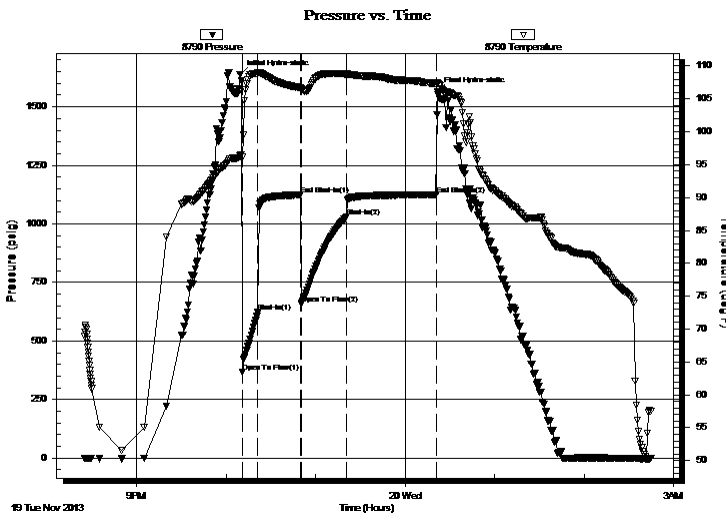
Serial #: 8790

Inside

Press @ Run Depth: 1029.94 psig @ 3241.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2013.11.19 End Date: 2013.11.20 Last Calib.: 2013.11.20
Start Time: 20:25:05 End Time: 02:44:29 Time On Btm: 2013.11.19 @ 22:09:15
Time Off Btm: 2013.11.20 @ 00:21:45

TEST COMMENT: IF: Strong blow . BoB @ 1min.
IS: Weak surf. bb
FF: Strong blow . BOB @ 1min.
FS: Weak surf. bb

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1637.82	96.28	Initial Hydro-static
2	366.20	96.12	Open To Flow (1)
12	622.29	108.92	Shut-In(1)
41	1123.61	106.68	End Shut-In(1)
41	657.19	106.51	Open To Flow (2)
72	1029.94	108.76	Shut-In(2)
132	1124.97	107.31	End Shut-In(2)
133	1565.79	107.33	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
1970.00	GCMM trc%gas, 5%mud, 95%w tr	25.44
500.00	GCWM 5%gas, 45%w tr, 50%mud	7.01
0.00	60' GIP	0.00

Gas Rates

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

* Recovery from multiple tests



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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:	29000 ppm
Viscosity: 51.00 sec/qt	Cushion Volume: bbl		
Water Loss: 8.79 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 7100.00 ppm			
Filter Cake: 0.02 inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
1970.00	GCMW trc%gas, 5%mud, 95%w tr	25.439
500.00	GCWM 5%gas, 45%w tr, 50%mud	7.014
0.00	60' GIP	0.000

Total Length: 2470.00 ft Total Volume: 32.453 bbl
Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #: none
Laboratory Name: Laboratory Location:
Recovery Comments:

