



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Murfin Drilling Company
250 N Water STE 300
Wichita KS, 67202 - 1216
ATTN: Wes Hansen

Minnix 1-7
7-20s-34w
Job Ticket: 43245 **DST#: 1**
Test Start: 2011.08.15 @ 11:50:00

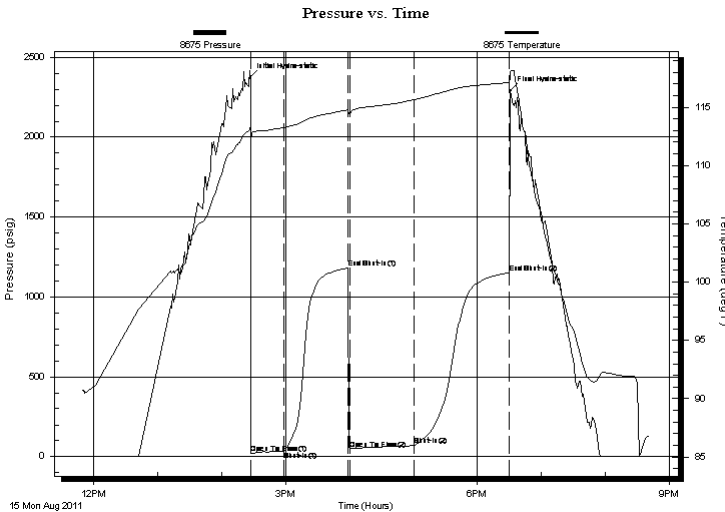
GENERAL INFORMATION:

Formation: **Upper Pawnee**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 14:28:00
Time Test Ended: 20:41:45
Interval: **4600.00 ft (KB) To 4647.00 ft (KB) (TVD)**
Total Depth: 4647.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition:
Test Type: Conventional Bottom Hole
Tester: Jace McKinney
Unit No: 28
Reference Elevations: 3140.00 ft (KB)
3129.00 ft (CF)
KB to GR/CF: 11.00 ft

Serial #: 8675 Inside
Press @ Run Depth: 69.78 psig @ 4601.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2011.08.15 End Date: 2011.08.15 Last Calib.: 2011.08.15
Start Time: 11:50:01 End Time: 20:41:45 Time On Btm: 2011.08.15 @ 14:26:45
Time Off Btm: 2011.08.15 @ 18:30:45

TEST COMMENT: Built to 5" blow
No return blow
B.O.B. in 48 min.
No return blow

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2370.76	113.24	Initial Hydro-static
2	20.51	112.10	Open To Flow (1)
32	33.99	113.26	Shut-In(1)
92	1181.21	114.79	End Shut-In(1)
94	48.68	114.50	Open To Flow (2)
154	69.78	115.64	Shut-In(2)
244	1150.81	117.13	End Shut-In(2)
244	2288.18	118.06	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
0.00	372 feet gas in pipe	0.00
120.00	ocm 50% O 50 % M	0.59
20.00	100% O	0.10

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: 10.00 lb/gal	Cushion Length: ft	Water Salinity:	ppm
Viscosity: 52.00 sec/qt	Cushion Volume: bbl		
Water Loss: 8.79 in ³	Gas Cushion Type:		
Resistivity: 0.00 ohm.m	Gas Cushion Pressure: psig		
Salinity: 5100.00 ppm			
Filter Cake: 1.00 inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
0.00	372 feet gas in pipe	0.000
120.00	ocm 50% O 50 % M	0.590
20.00	100% O	0.098

Total Length: 140.00 ft Total Volume: 0.688 bbl

Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:

Laboratory Name: Laboratory Location:

Recovery Comments: API: 34 @ 90 = 31

Pressure vs. Time

