



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Murfin Drilling Co., Inc.

Graff #1-1

250 N. Water
Suite 300
Wichita, KS 67202
ATTN: Wes Hansen

S1-20s-35w Wichita

Job Ticket: 43667

DST#: 1

Test Start: 2011.08.24 @ 23:53:00

GENERAL INFORMATION:

Formation: **Marmaton**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 02:35:30

Time Test Ended: 08:46:49

Test Type: Conventional Bottom Hole

Tester: Chuck Smith

Unit No: 37

Interval: 4571.00 ft (KB) To 4611.00 ft (KB) (TVD)

Reference Elevations: 3146.00 ft (KB)

Total Depth: 4611.00 ft (KB) (TVD)

3135.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 11.00 ft

Serial #: 8018

Inside

Press @ Run Depth: 570.68 psig @ 4575.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2011.08.24

End Date:

2011.08.25

Last Calib.:

2011.08.25

Start Time: 23:53:02

End Time:

08:46:49

Time On Btm:

2011.08.25 @ 02:34:10

Time Off Btm:

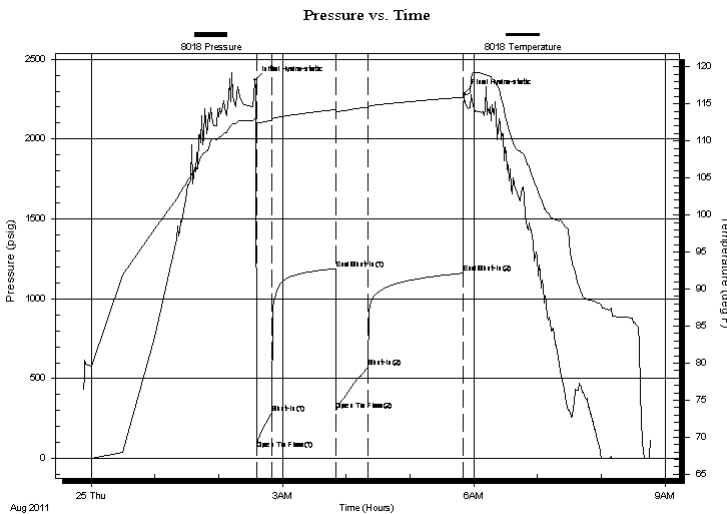
2011.08.25 @ 05:51:09

TEST COMMENT: IF: B.O.B. @ 4 min.

IS: No return.

FF: B.O.B. @ 4 1/2 min.

FS: No return.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2367.27	113.06	Initial Hydro-static
2	60.06	111.76	Open To Flow (1)
17	286.05	112.80	Shut-In(1)
76	1189.01	114.25	End Shut-In(1)
77	300.29	113.76	Open To Flow (2)
107	570.68	114.57	Shut-In(2)
196	1160.61	115.90	End Shut-In(2)
197	2283.28	116.21	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
0.00	RW: .150 @ 60 Degrees F = 57000 PPM	0.00
1054.00	W 100w	12.62
102.00	MW 40m 60w Oil spots	1.43

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
Mud Weight: 9.00 lb/gal
Viscosity: 64.00 sec/qt
Water Loss: 8.77 in³
Resistivity: ohm.m
Salinity: 4500.00 ppm
Filter Cake: 1.00 inches

Cushion Type:
Cushion Length: ft
Cushion Volume: bbl
Gas Cushion Type:
Gas Cushion Pressure: psig

Oil API: 0 deg API
Water Salinity: 57000 ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
0.00	RW:.150 @ 60 Degrees F = 57000 PPM	0.000
1054.00	W 100w	12.617
102.00	MW 40m 60w Oil spots	1.431

Total Length: 1156.00 ft Total Volume: 14.048 bbl

Num Fluid Samples: 0

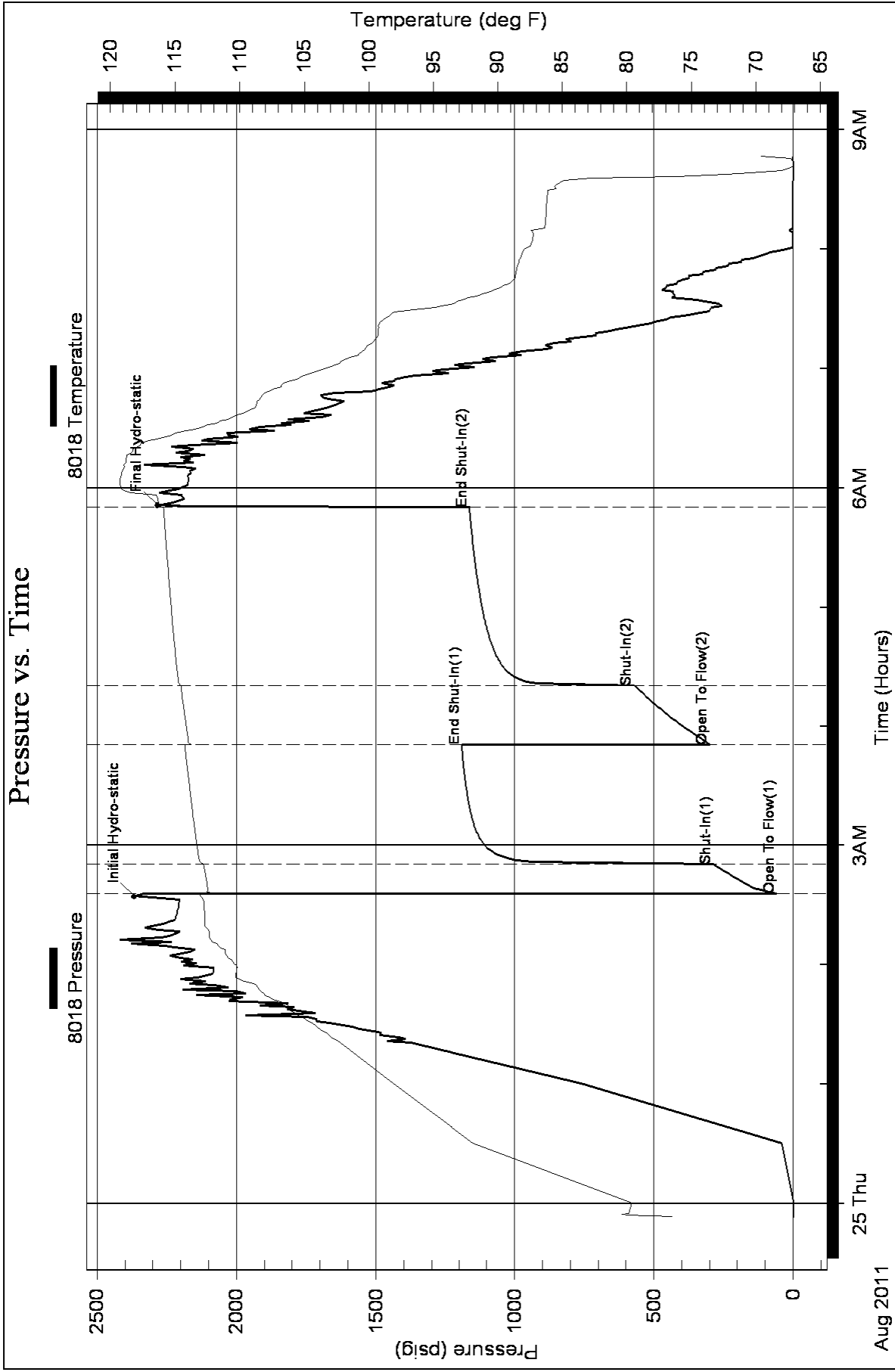
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:





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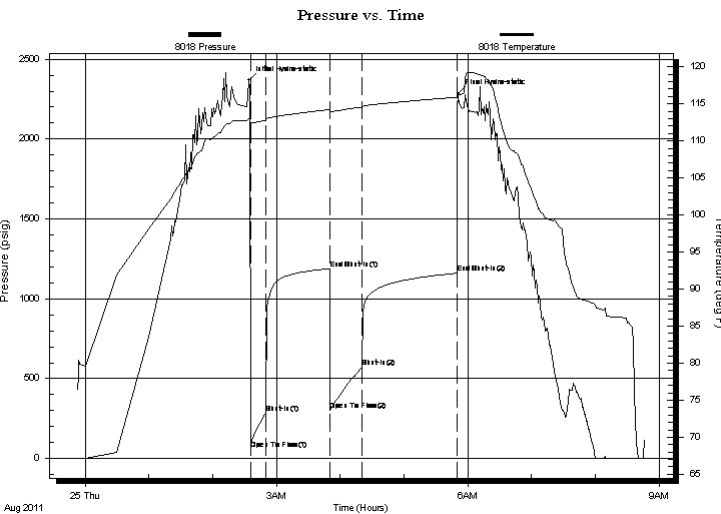
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Resistivity: ohm.m	Gas Cushion Pressure: psig	
Salinity: 4500.00 ppm		
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Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:

Laboratory Name: Laboratory Location:

Recovery Comments:

