



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Murfin Drilling Co Inc
 250 N. Water
 Ste 300
 Wichita Ks 67202-1216
 ATTN: Scott Robinson

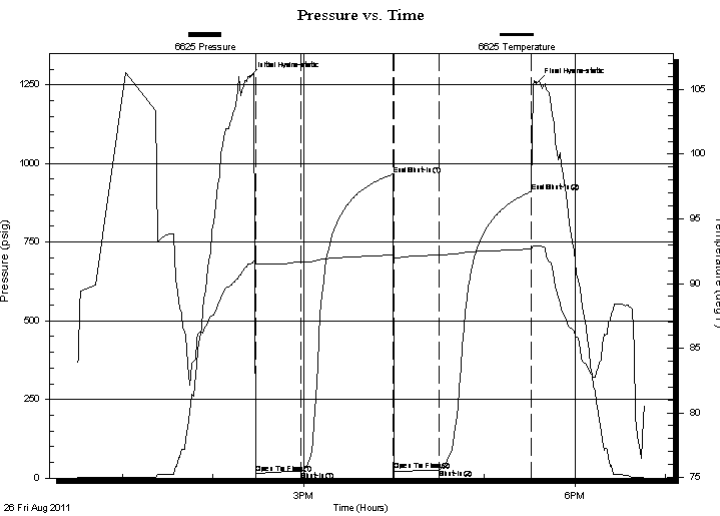
Ruthi #1-8
8-8s-14w Osborne
 Job Ticket: 44553 **DST#: 1**
 Test Start: 2011.08.26 @ 12:30:21

GENERAL INFORMATION:

Formation: **Topeka**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 14:28:16
 Time Test Ended: 18:46:45
 Interval: **2710.00 ft (KB) To 2730.00 ft (KB) (TVD)**
 Total Depth: 2730.00 ft (KB) (TVD)
 Hole Diameter: 7.85 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole
 Tester: Ray Schwager
 Unit No: 42
 Reference Elevations: 1767.00 ft (KB)
 1762.00 ft (CF)
 KB to GR/CF: 5.00 ft

Serial #: 6625 Inside
 Press @ Run Depth: 26.80 psig @ 2711.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2011.08.26 End Date: 2011.08.26 Last Calib.: 2011.08.26
 Start Time: 12:30:21 End Time: 18:46:45 Time On Btm: 2011.08.26 @ 14:24:46
 Time Off Btm: 2011.08.26 @ 17:34:45

TEST COMMENT: 30-IFP-surge , then no bl
 60-ISIP-no bl
 30-FFP-no bl
 60-FSIP-no bl



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1274.95	91.53	Initial Hydro-static
4	14.88	91.54	Open To Flow (1)
34	21.12	91.66	Shut-In(1)
95	965.61	92.21	End Shut-In(1)
95	23.49	92.01	Open To Flow (2)
125	26.80	92.21	Shut-In(2)
187	910.52	92.66	End Shut-In(2)
190	1256.63	92.87	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
5.00	SOCM 5% O95%M	0.02

Gas Rates

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



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ATTN: Scott Robinson

8-8s-14w Osborne

Job Ticket: 44553

DST#: 1

Test Start: 2011.08.26 @ 12:30:21

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: 53.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.95 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 2700.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5.00	SOCM 5%O95%M	0.025

Total Length: 5.00 ft Total Volume: 0.025 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

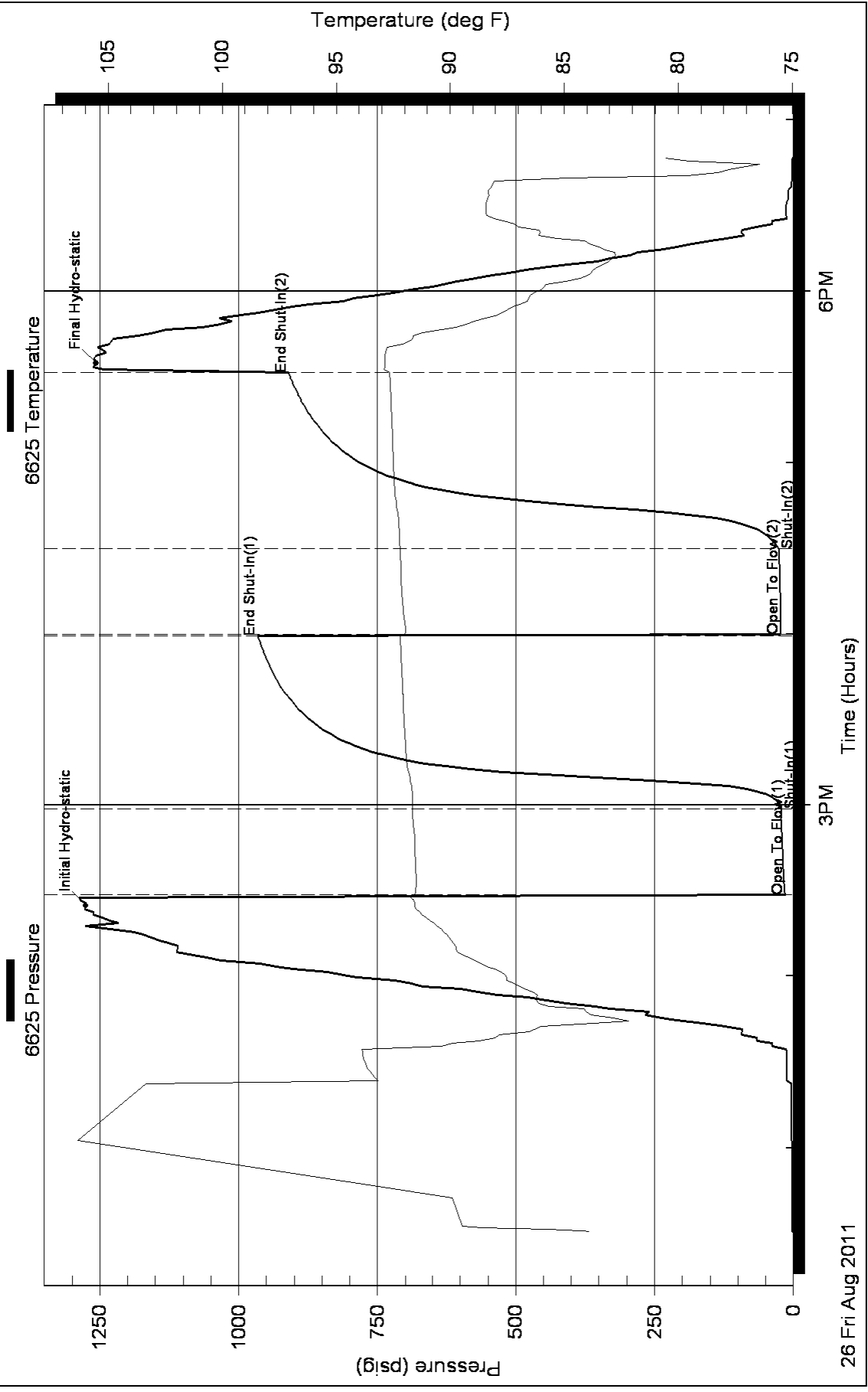
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time





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Murfin Drilling Co Inc

Ruthi #1-8

250 N. Water
Ste 300
Wichita Ks 67202-1216
ATTN: Scott Robinson

8-8s-14w Osborne

Job Ticket: 44554

DST#: 2

Test Start: 2011.08.27 @ 16:25:20

Mud and Cushion Information

Mud Type: Gel Chem
Mud Weight: 9.00 lb/gal
Viscosity: 59.00 sec/qt
Water Loss: 9.54 in³
Resistivity: ohm.m
Salinity: 5400.00 ppm
Filter Cake: 1.00 inches

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

Oil API: 35 deg API
Water Salinity: ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
60.00	O&GCM 15%G15%O70%M	0.295
80.00	O&GCM 20%G20%O60%M	0.393
50.00	CO	0.337
0.00	180'GIP	0.000

Total Length: 190.00 ft Total Volume: 1.025 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time

