



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Murfin Drilling Company . INC,
250 N. Water STE. 300
Wichita KS, 67202+1216
ATTN: Paul Gunzelman

Ison 1-28

28-9s-15w Osburne

Job Ticket: 44527

DST#: 1

Test Start: 2011.08.16 @ 05:33:00

GENERAL INFORMATION:

Formation: **Topeka**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 07:07:50

Time Test Ended: 10:34:30

Test Type: Conventional Bottom Hole

Tester: Cody Bloedorn

Unit No: 38

Interval: 2957.00 ft (KB) To 2974.00 ft (KB) (TVD)

Reference Elevations: 2005.00 ft (KB)

Total Depth: 2974.00 ft (KB) (TVD)

2000.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 5.00 ft

Serial #: 8520 Outside

Press @ Run Depth: 18.27 psig @ 2958.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2011.08.16

End Date: 2011.08.16

Last Calib.: 2011.08.16

Start Time: 05:43:00

End Time: 10:34:30

Time On Btm: 2011.08.16 @ 07:07:40

Time Off Btm: 2011.08.16 @ 09:10:00

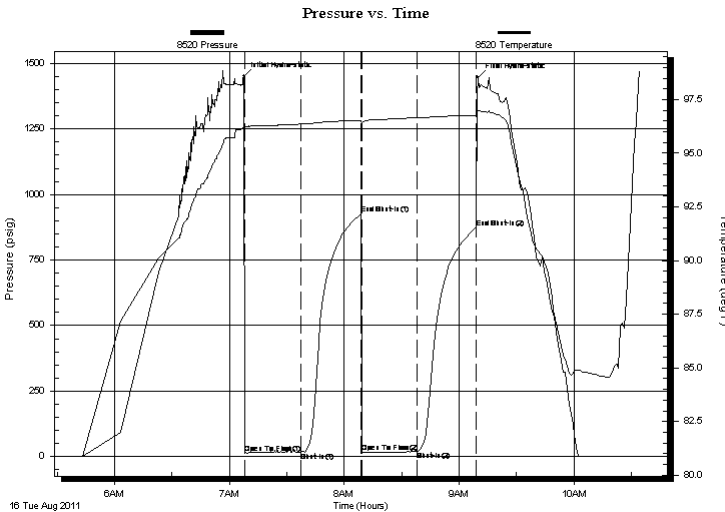
TEST COMMENT: 30 - IF- Weak surface blow , died in 6 Min.

30 - IS- No blow back

30 - FF- No blow back

30 - FS- No blow back

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1451.18	96.29	Initial Hydro-static
1	13.24	95.83	Open To Flow (1)
30	15.74	96.37	Shut-In(1)
61	924.50	96.54	End Shut-In(1)
62	17.33	96.41	Open To Flow (2)
91	18.27	96.66	Shut-In(2)
122	873.76	96.76	End Shut-In(2)
123	1446.62	96.98	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
5.00	M, Oil scum	0.02

Gas Rates

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



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Ison 1-28

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Wichita KS, 67202+1216

28-9s-15w Osburne

Job Ticket: 44527

DST#: 1

ATTN: Paul Gunzelman

Test Start: 2011.08.16 @ 05:33:00

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: 58.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.20 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1900.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5.00	M, Oil scum	0.025

Total Length: 5.00 ft Total Volume: 0.025 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

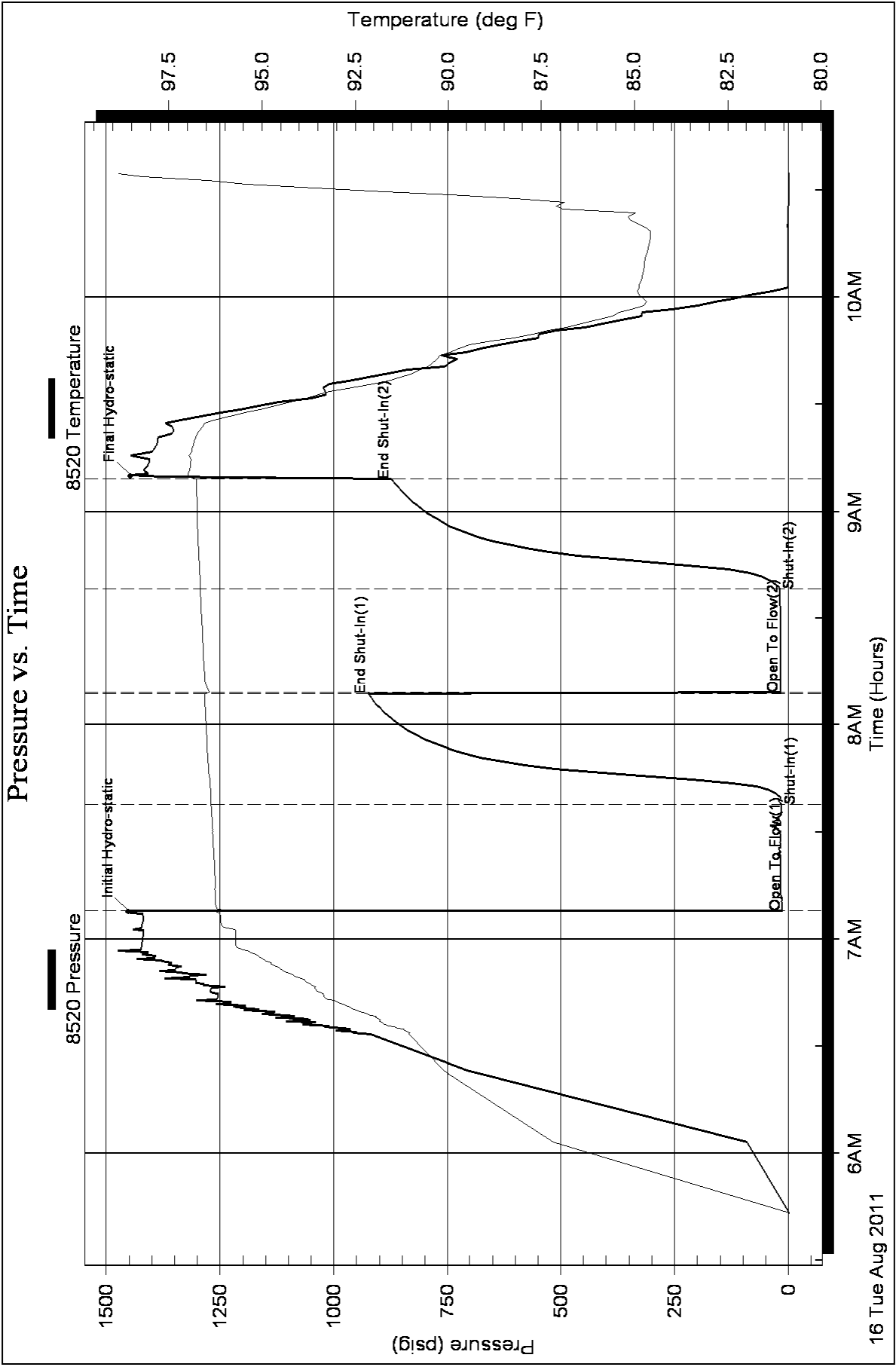
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time





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Murfin Drilling Company . INC,

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28-9s-15w Osburne

Job Ticket: 44528

DST#: 2

ATTN: Paul Gunzelman

Test Start: 2011.08.17 @ 14:06:00

GENERAL INFORMATION:

Formation: **KC "A-F"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 15:47:50

Time Test Ended: 20:30:00

Test Type: Conventional Bottom Hole

Tester: Cody Bloedorn

Unit No: 38

Interval: 3196.00 ft (KB) To 3314.00 ft (KB) (TVD)

Reference Elevations: 2005.00 ft (KB)

Total Depth: 3314.00 ft (KB) (TVD)

2000.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 5.00 ft

Serial #: 8520 Outside

Press @ Run Depth: 99.45 psig @ 3302.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2011.08.17

End Date:

2011.08.17

Last Calib.:

2011.08.17

Start Time: 14:16:00

End Time:

20:30:00

Time On Btm:

2011.08.17 @ 15:47:30

Time Off Btm:

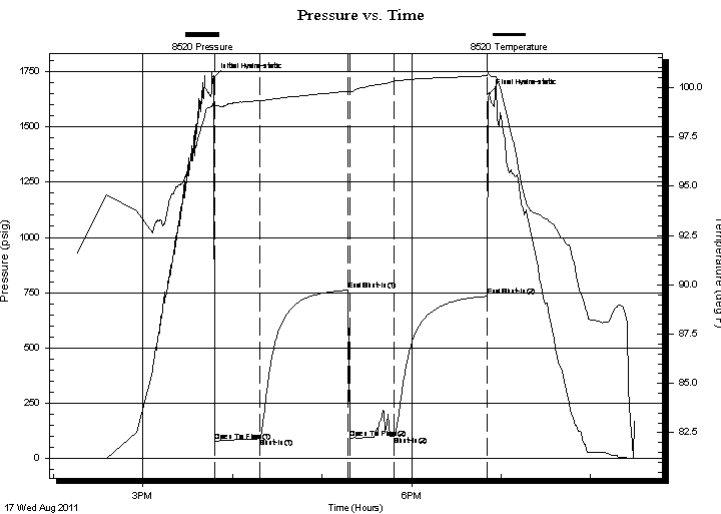
2011.08.17 @ 18:52:00

TEST COMMENT: 30 - IF- 1/4" Blow , died in 27 Min.

60 - IS- No blow back

30 - FF- No blow back

60 - FS- No blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1724.69	99.27	Initial Hydro-static
1	79.20	98.88	Open To Flow (1)
31	89.66	99.33	Shut-In(1)
90	762.54	99.81	End Shut-In(1)
91	91.62	99.80	Open To Flow (2)
121	99.45	100.36	Shut-In(2)
183	733.67	100.59	End Shut-In(2)
185	1649.63	100.68	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
15.00	Mud, 100%M	0.07

Gas Rates

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



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Ison 1-28

250 N. Water STE. 300
Wichita KS, 67202+1216

28-9s-15w Osburne

Job Ticket: 44528

DST#: 2

ATTN: Paul Gunzelman

Test Start: 2011.08.17 @ 14:06:00

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: 66.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 5.60 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 3800.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
15.00	Mud, 100%M	0.074

Total Length: 15.00 ft Total Volume: 0.074 bbl

Num Fluid Samples: 0

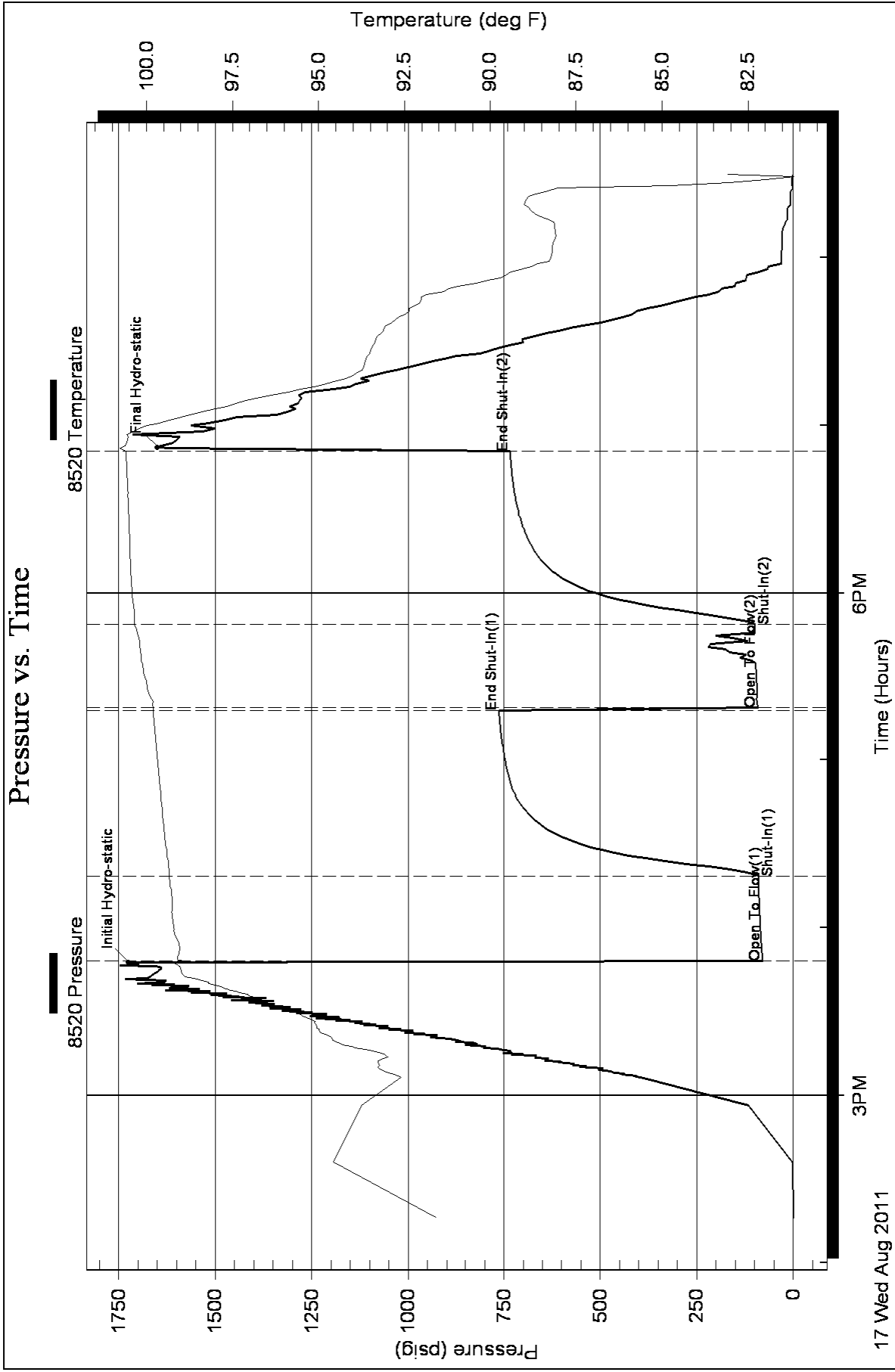
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:





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Job Ticket: 44529

DST#: 3

ATTN: Paul Gunzelman

Test Start: 2011.08.18 @ 17:04:00

GENERAL INFORMATION:

Formation: **LKC "I - L"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 18:42:20

Time Test Ended: 01:10:00

Test Type: Conventional Bottom Hole

Tester: Cody Bloedorn

Unit No: 38

Interval: 3370.00 ft (KB) To 3481.00 ft (KB) (TVD)

Reference Elevations: 2005.00 ft (KB)

Total Depth: 3481.00 ft (KB) (TVD)

2000.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 5.00 ft

Serial #: 8520 Outside

Press @RunDepth: 342.40 psig @ 3478.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2011.08.18

End Date:

2011.08.19

Last Calib.:

2011.08.19

Start Time:

17:14:00

End Time:

01:10:00

Time On Btm:

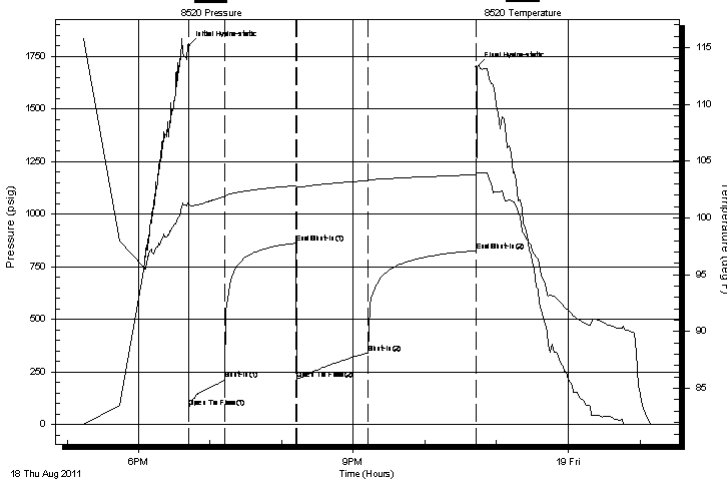
2011.08.18 @ 18:42:00

Time Off Btm:

2011.08.18 @ 22:43:30

TEST COMMENT: 30 - IF- B.O.B. in 14 Min.
60 - IS- No blow back
60 - FF- B.O.B. in 20 Min.
90 - FS- No blow back

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1800.01	101.42	Initial Hydro-static
1	82.36	100.96	Open To Flow (1)
31	216.45	101.91	Shut-In(1)
90	863.32	102.85	End Shut-In(1)
91	218.37	102.74	Open To Flow (2)
150	342.40	103.29	Shut-In(2)
241	827.23	103.80	End Shut-In(2)
242	1701.72	103.98	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
31.00	WM, 5%W, 95%M	0.15
310.00	MV, 30%M, 70%W	3.22
248.00	WM, 20%W, 80%M	3.48

Gas Rates

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



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ATTN: Paul Gunzelman

Test Start: 2011.08.18 @ 17:04:00

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:

30000 ppm

Viscosity: 65.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 4.80 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 2500.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
31.00	WM, 5%W, 95%M	0.152
310.00	MW, 30%M, 70%W	3.219
248.00	WM, 20%W, 80%M	3.479

Total Length: 589.00 ft Total Volume: 6.850 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: Salinity: .24 @ 71 Degrees = 30,000

