



WELL COMPLETION FORM
WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License # _____

Name: _____

Address 1: _____

Address 2: _____

City: _____ State: _____ Zip: _____ + _____

Contact Person: _____

Phone: (_____) _____

CONTRACTOR: License # _____

Name: _____

Wellsite Geologist: _____

Purchaser: _____

Designate Type of Completion:

- New Well Re-Entry Workover
- Oil WSW SWD SIOW
- Gas D&A ENHR SIGW
- OG GSW Temp. Abd.
- CM (Coal Bed Methane)
- Cathodic Other (Core, Expl., etc.): _____

If Workover/Re-entry: Old Well Info as follows:

Operator: _____

Well Name: _____

Original Comp. Date: _____ Original Total Depth: _____

- Deepening Re-perf. Conv. to ENHR Conv. to SWD
- Conv. to GSW
- Plug Back: _____ Plug Back Total Depth _____
- Commingled Permit #: _____
- Dual Completion Permit #: _____
- SWD Permit #: _____
- ENHR Permit #: _____
- GSW Permit #: _____

Spud Date or Recompletion Date Date Reached TD Completion Date or Recompletion Date

API No. 15 - _____

Spot Description: _____

_____ - _____ - _____ Sec. _____ Twp. _____ S. R. _____ East West

_____ Feet from North / South Line of Section

_____ Feet from East / West Line of Section

Footages Calculated from Nearest Outside Section Corner:

- NE NW SE SW

County: _____

Lease Name: _____ Well #: _____

Field Name: _____

Producing Formation: _____

Elevation: Ground: _____ Kelly Bushing: _____

Total Depth: _____ Plug Back Total Depth: _____

Amount of Surface Pipe Set and Cemented at: _____ Feet

Multiple Stage Cementing Collar Used? Yes No

If yes, show depth set: _____ Feet

If Alternate II completion, cement circulated from: _____

feet depth to: _____ w/ _____ sx cmt.

Drilling Fluid Management Plan

(Data must be collected from the Reserve Pit)

Chloride content: _____ ppm Fluid volume: _____ bbls

Dewatering method used: _____

Location of fluid disposal if hauled offsite: _____

Operator Name: _____

Lease Name: _____ License #: _____

Quarter _____ Sec. _____ Twp. _____ S. R. _____ East West

County: _____ Permit #: _____

AFFIDAVIT

I am the affiant and I hereby certify that all requirements of the statutes, rules and regulations promulgated to regulate the oil and gas industry have been fully complied with and the statements herein are complete and correct to the best of my knowledge.

Submitted Electronically

KCC Office Use ONLY

- Letter of Confidentiality Received
Date: _____
- Confidential Release Date: _____
- Wireline Log Received
- Geologist Report Received
- UIC Distribution
- ALT I II III Approved by: _____ Date: _____



1055668

Operator Name: _____ Lease Name: _____ Well #: _____

Sec. _____ Twp. _____ S. R. _____ East West County: _____

INSTRUCTIONS: Show important tops and base of formations penetrated. Detail all cores. Report all final copies of drill stems tests giving interval tested, time tool open and closed, flowing and shut-in pressures, whether shut-in pressure reached static level, hydrostatic pressures, bottom hole temperature, fluid recovery, and flow rates if gas to surface test, along with final chart(s). Attach extra sheet if more space is needed. Attach complete copy of all Electric Wire-line Logs surveyed. Attach final geological well site report.

Drill Stem Tests Taken <input type="checkbox"/> Yes <input type="checkbox"/> No <i>(Attach Additional Sheets)</i> Samples Sent to Geological Survey <input type="checkbox"/> Yes <input type="checkbox"/> No Cores Taken <input type="checkbox"/> Yes <input type="checkbox"/> No Electric Log Run <input type="checkbox"/> Yes <input type="checkbox"/> No Electric Log Submitted Electronically <input type="checkbox"/> Yes <input type="checkbox"/> No <i>(If no, Submit Copy)</i> List All E. Logs Run:	<input type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample Name Top Datum
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CASING RECORD <input type="checkbox"/> New <input type="checkbox"/> Used							
Report all strings set-conductor, surface, intermediate, production, etc.							
Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs. / Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives

ADDITIONAL CEMENTING / SQUEEZE RECORD				
Purpose:	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
_____ Perforate _____ Protect Casing _____ Plug Back TD _____ Plug Off Zone				

Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record <i>(Amount and Kind of Material Used)</i>	Depth

TUBING RECORD: Size: _____ Set At: _____ Packer At: _____ Liner Run: Yes No

Date of First, Resumed Production, SWD or ENHR. _____ Producing Method: Flowing Pumping Gas Lift Other (Explain) _____

Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity
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DISPOSITION OF GAS: <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	METHOD OF COMPLETION: <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</i> <i>(Submit ACO-4)</i> <input type="checkbox"/> Other (Specify) _____	PRODUCTION INTERVAL: _____ _____
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Form	ACO1 - Well Completion
Operator	Mull Drilling Company, Inc.
Well Name	JLT 1-10
Doc ID	1055668

Tops

Name	Top	Datum
ANHYDRITE	1860	+ 579
B/ANHYDRITE	1898	+ 541
HEEBNER SHALE	3614	- 1175
LANSING	3654	- 1215
STARK SHALE	3903	- 1464
B/KC	3958	- 1519
FT.S COTT	4160	- 1721
CHEROKEE SHALE	4187	- 1748
MISSISSIPPI	4250	- 1815

Conservation Division
Finney State Office Building
130 S. Market, Rm. 2078
Wichita, KS 67202-3802



phone: 316-337-6200
fax: 316-337-6211
<http://kcc.ks.gov/>

Thomas E. Wright, Chairman
Ward Loyd, Commissioner

Corporation Commission

Sam Brownback, Governor

May 12, 2011

MARK SHREVE
Mull Drilling Company, Inc.
1700 N WATERFRONT PKWY
BLDG 1200
WICHITA, KS 67206

Re: ACO1
API 15-063-21881-00-00
JLT 1-10
NE/4 Sec.10-15S-27W
Gove County, Kansas

Dear Production Department:

We are herewith requesting that the Well Completion Form ACO-1 and attached information for the subject well be held confidential for a period of two years.

Should you have any questions or need additional information regarding subject well, please contact our office.

Respectfully,
MARK SHREVE



DRILL STEM TEST REPORT

Prepared For: **MULL DRILLING COMPANY INC**

1700 N WATERFRONT PKWY BLDG 1200
WICHITA KS 67206

ATTN: KEVIN KESSLER

10-15S-27W

JLT 1-10

Start Date: 2011.03.06 @ 00:00:00

End Date: 2011.03.06 @ 08:31:00

Job Ticket #: 1074 DST #: 1

Eagle Testers LLC.

P.O.Box 1011, Great Bend, KS 67530

620-617-7548

Printed: 2011.03.06 @ 00:20:22

MULL DRILLING COMPANY INC
JLT 1-10
10-15S-27W
DST # 1
LKC -EF
2011.03.06



DRILL STEM TEST REPORT

MULL DRILLING COMPANY INC

JLT 1-10

1700 N WATERFRONT PKWY BLDG 1200
WICHITA KS 67206

10-15S-27W

Job Ticket: 1074

DST#: 1

ATTN: KEVIN KESSLER

Test Start: 2011.03.06 @ 00:00:00

GENERAL INFORMATION:

Formation: **LKC -E-F**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 01:45:00

Time Test Ended: 08:31:00

Test Type: Conventional Bottom Hole (Initial)

Tester: DAVID NICHOLS

Unit No: 15

Interval: 3690.00 ft (KB) To 3720.00 ft (KB) (TVD)

Reference Elevations: 2440.00 ft (KB)

Total Depth: 3720.00 ft (KB) (TVD)

2434.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 6.00 ft

Serial #: 6666 Outside

Press @ RunDepth: 929.20 psig @ 3717.00 ft (KB)

Capacity: 5000.00 psig

Start Date: 2011.03.06

End Date: 2011.03.06

Last Calib.: 2011.03.06

Start Time: 00:00:00

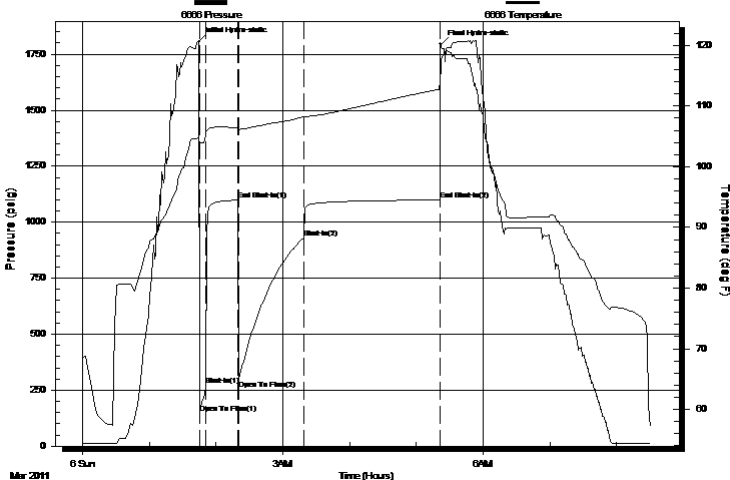
End Time: 08:31:00

Time On Btm: 2011.03.06 @ 01:44:30

Time Off Btm: 2011.03.06 @ 05:22:00

TEST COMMENT: 5-INITIAL OPENING GOOD BLOW BOTTOM BUCKET IN 1 MIN
30-INITIAL SHUT IN WEAK BLOW BACK
60-FINAL OPENING GOOD BLOW BOTTOM BUCKET IN 1 MIN
120-FINAL SHUT IN NO BLOW BACK

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1805.20	104.54	Initial Hydro-static
1	145.62	104.01	Open To Flow (1)
7	269.84	105.64	Shut-In(1)
35	1098.87	106.44	End Shut-In(1)
36	294.88	106.25	Open To Flow (2)
94	929.20	108.29	Shut-In(2)
217	1100.32	112.80	End Shut-In(2)
218	1794.98	116.20	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
120.00	MUDDY WATER 405M60%WATER	0.59
1740.00	GASSY WATER 5%GAS95%WATER	25.45

Gas Rates

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



DRILL STEM TEST REPORT

MULL DRILLING COMPANY INC

JLT 1-10

1700 N WATERFRONT PKWY BLDG 1200
WICHITA KS 67206

10-15S-27W

ATTN: KEVIN KESSLER

Job Ticket: 1074

DST#: 1

Test Start: 2011.03.06 @ 00:00:00

GENERAL INFORMATION:

Formation: **LKC -E-F**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 01:45:00

Time Test Ended: 08:31:00

Test Type: Conventional Bottom Hole (Initial)

Tester: DAVID NICHOLS

Unit No: 15

Interval: 3690.00 ft (KB) To 3720.00 ft (KB) (TVD)

Total Depth: 3720.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 2440.00 ft (KB)

2434.00 ft (CF)

KB to GR/CF: 6.00 ft

Serial #: 6651

Inside

Press @ Run Depth: 1102.20 psig @ 3716.00 ft (KB)

Capacity: 5000.00 psig

Start Date: 2011.03.06

End Date: 2011.03.06

Last Calib.: 2011.03.06

Start Time: 00:00:00

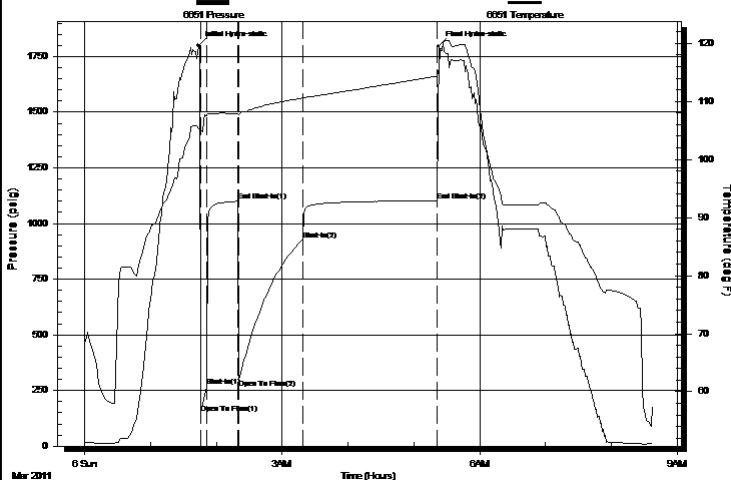
End Time: 08:38:00

Time On Btm: 2011.03.06 @ 01:43:30

Time Off Btm: 2011.03.06 @ 05:22:30

TEST COMMENT: 5-INITIAL OPENING GOOD BLOW BOTTOM BUCKET IN 1 MIN
30-INITIAL SHUT IN WEAK BLOW BACK
60-FINAL OPENING GOOD BLOW BOTTOM BUCKET IN 1 MIN
120-FINAL SHUT IN NO BLOW BACK

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1798.97	105.32	Initial Hydro-static
2	146.53	104.62	Open To Flow (1)
8	270.11	107.56	Shut-In(1)
37	1099.73	107.93	End Shut-In(1)
37	299.82	107.71	Open To Flow (2)
96	928.21	110.59	Shut-In(2)
218	1102.20	114.35	End Shut-In(2)
219	1798.09	115.67	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
120.00	MUDDY WATER 405M60%WATER	0.59
1740.00	GASSY WATER 5%GAS95%WATER	25.45

Gas Rates

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



DRILL STEM TEST REPORT

TOOL DIAGRAM

MULL DRILLING COMPANY INC
 1700 N WATERFRONT PKWY BLDG 1200
 WICHITA KS 67206
 ATTN: KEVIN KESSLER

JLT 1-10
10-15S-27W
 Job Ticket: 1074 **DST#: 1**
 Test Start: 2011.03.06 @ 00:00:00

Tool Information

Drill Pipe:	Length: 3544.00 ft	Diameter: 3.88 inches	Volume: 51.83 bbl	Tool Weight:	2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer:	20000.00 lb
Drill Collar:	Length: 120.00 ft	Diameter: 2.25 inches	Volume: 0.59 bbl	Weight to Pull Loose:	70000.00 lb
			<u>Total Volume: 52.42 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	2.75 ft			String Weight: Initial	56000.00 lb
Depth to Top Packer:	3690.00 ft			Final	66000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	30.00 ft				
Tool Length:	58.75 ft				
Number of Packers:	2	Diameter: 6.75 inches			

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut-in tool	5.00			3666.25	
Hydraulic tool	5.00			3671.25	
Change over sub	0.75			3672.00	
Jars	6.00			3678.00	
Safety Joint	2.00			3680.00	
Packer	5.00			3685.00	28.75 Bottom Of Top Packer
Packer	5.00			3690.00	
Anchor	25.00			3715.00	
Recorder	1.00	6651	Inside	3716.00	
Recorder	1.00	6666	Outside	3717.00	
Bull plug	3.00			3720.00	30.00 Bottom Packers & Anchor

Total Tool Length: 58.75



DRILL STEM TEST REPORT

FLUID SUMMARY

MULL DRILLING COMPANY INC
1700 N WATERFRONT PKWY BLDG 1200
WICHITA KS 67206
ATTN: KEVIN KESSLER

JLT 1-10
10-15S-27W
Job Ticket: 1074 **DST#: 1**
Test Start: 2011.03.06 @ 00:00:00

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:	51.00 sec/qt	Cushion Volume:	bbbl		
Water Loss:	7.20 in ³	Gas Cushion Type:			
Resistivity:	ohm.m	Gas Cushion Pressure:	psig		
Salinity:	2800.00 ppm				
Filter Cake:	inches				

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
120.00	MUDDY WATER 40%WATER	0.590
1740.00	GASSY WATER 5%GAS95%WATER	25.446

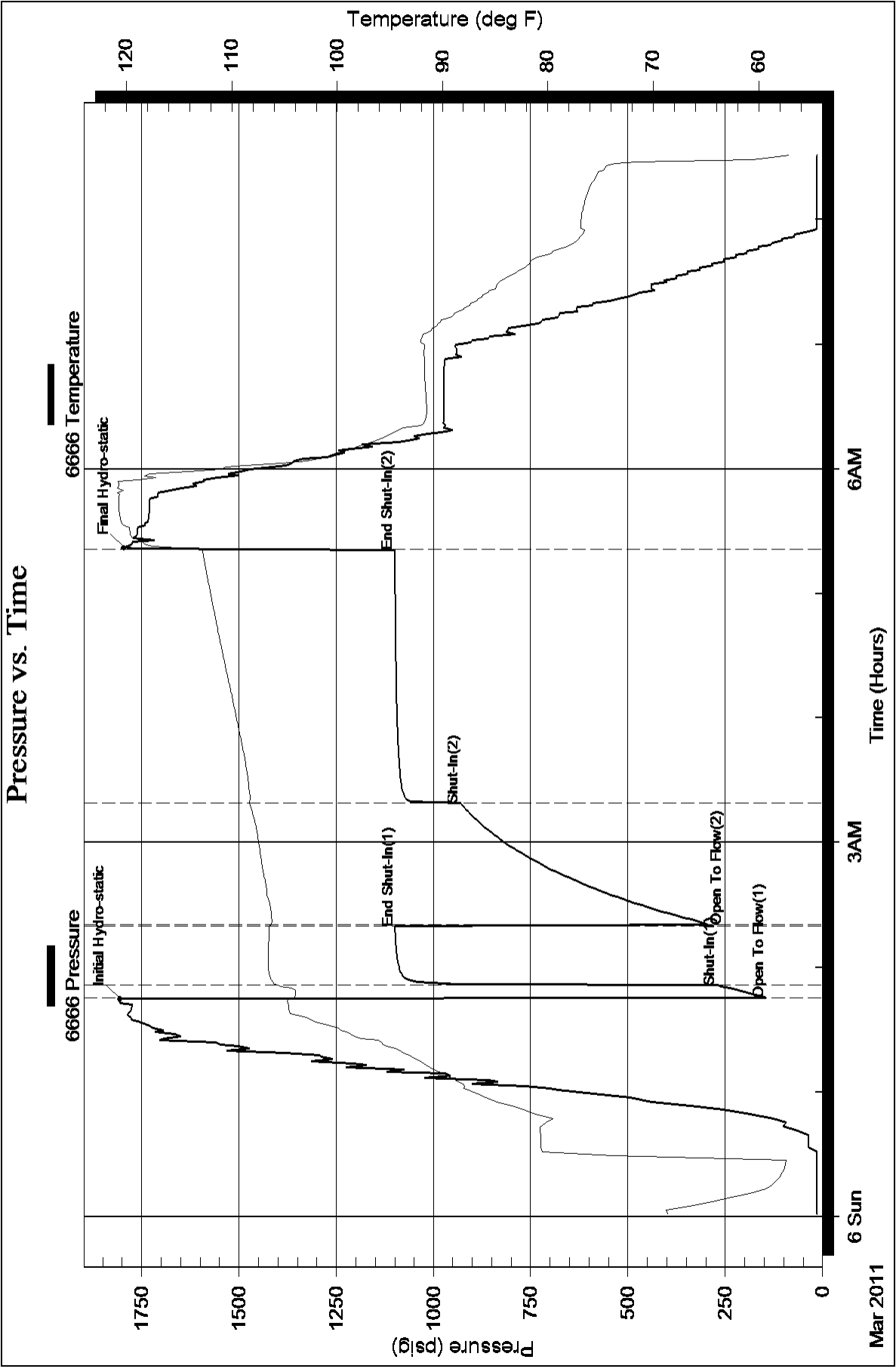
Total Length: 1860.00 ft Total Volume: 26.036 bbl

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

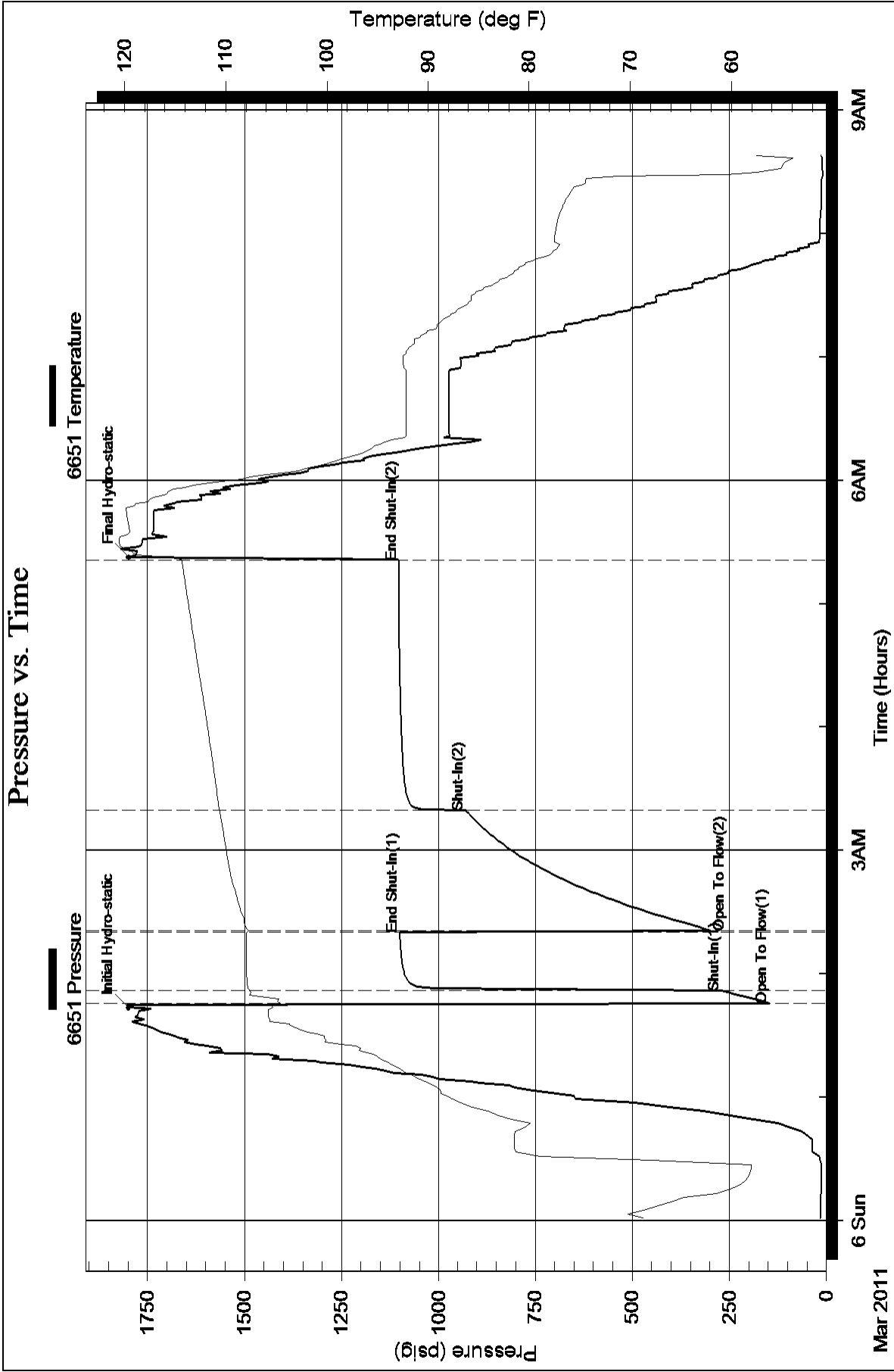
Laboratory Name: Laboratory Location:

Recovery Comments: RECOVERY CHLORIDES 48,000 PPM

Pressure vs. Time



Pressure vs. Time





DRILL STEM TEST REPORT

Prepared For: **MULL DRILLING COMPANY INC**

1700 N WATERFRONT PKWY BLDG 1200
WICHITA KS 67206

ATTN: KEVIN KESSLER

10-15S-27W

JLT 1-10

Start Date: 2011.03.06 @ 17:00:00

End Date: 2011.03.06 @ 21:33:00

Job Ticket #: 1075 DST #: 2

Eagle Testers LLC.

P.O.Box 1011, Great Bend, KS 67530

620-617-7548

Printed: 2011.03.06 @ 17:53:01

MULL DRILLING COMPANY INC
JLT 1-10
10-15S-27W
DST # 2
LKC-HH-
2011.03.06



DRILL STEM TEST REPORT

MULL DRILLING COMPANY INC

JLT 1-10

1700 N WATERFRONT PKWY BLDG 1200
WICHITA KS 67206

10-15S-27W

ATTN: KEVIN KESSLER

Job Ticket: 1075

DST#: 2

Test Start: 2011.03.06 @ 17:00:00

GENERAL INFORMATION:

Formation: **LKC -H-I-**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 18:09:30

Time Test Ended: 21:33:00

Test Type: Conventional Bottom Hole (Initial)

Tester: DAVID NICHOLS

Unit No: 15

Interval: 3805.00 ft (KB) To 3870.00 ft (KB) (TVD)

Reference Elevations: 2440.00 ft (KB)

Total Depth: 3870.00 ft (KB) (TVD)

2434.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 6.00 ft

Serial #: 6666 Outside

Press @ Run Depth: 70.80 psig @ 3867.00 ft (KB)

Capacity: 5000.00 psig

Start Date: 2011.03.06

End Date:

2011.03.06

Last Calib.:

2011.03.06

Start Time: 17:01:00

End Time:

21:33:00

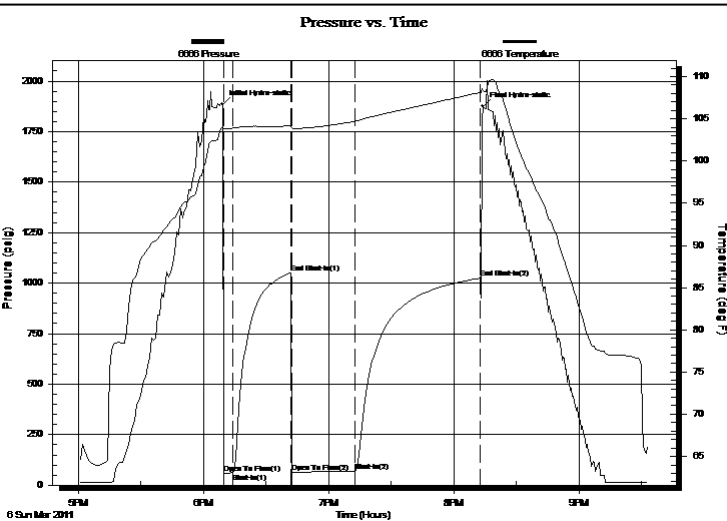
Time On Btm:

2011.03.06 @ 18:09:00

Time Off Btm:

2011.03.06 @ 20:14:00

TEST COMMENT: 5-INITIAL OPENING SURFACE BLOW
30-INITIAL SHUT IN NO BLOW BACK
30-FINAL OPENING WEAK SURFACE BLOW
60-FINAL SHUT IN NO BLOW BACK



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1885.07	104.07	Initial Hydro-static
1	59.33	103.78	Open To Flow (1)
5	60.68	103.89	Shut-In(1)
33	1052.49	104.15	End Shut-In(1)
34	62.73	103.91	Open To Flow (2)
64	70.80	104.70	Shut-In(2)
124	1023.89	108.12	End Shut-In(2)
125	1874.99	108.30	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
15.00	MUD 100%MUD	0.07

Gas Rates

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



DRILL STEM TEST REPORT

MULL DRILLING COMPANY INC

JLT 1-10

1700 N WATERFRONT PKWY BLDG 1200
WICHITA KS 67206

10-15S-27W

Job Ticket: 1075

DST#: 2

ATTN: KEVIN KESSLER

Test Start: 2011.03.06 @ 17:00:00

GENERAL INFORMATION:

Formation: **LKC -H-I-**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 18:09:30

Time Test Ended: 21:33:00

Test Type: Conventional Bottom Hole (Initial)

Tester: DAVID NICHOLS

Unit No: 15

Interval: 3805.00 ft (KB) To 3870.00 ft (KB) (TVD)

Reference Elevations: 2440.00 ft (KB)

Total Depth: 3870.00 ft (KB) (TVD)

2434.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 6.00 ft

Serial #: 6651

Inside

Press @ Run Depth: 1026.65 psig @ 3866.00 ft (KB)

Capacity: 5000.00 psig

Start Date: 2011.03.06

End Date:

2011.03.06

Last Calib.:

2011.03.06

Start Time: 17:01:00

End Time:

21:34:30

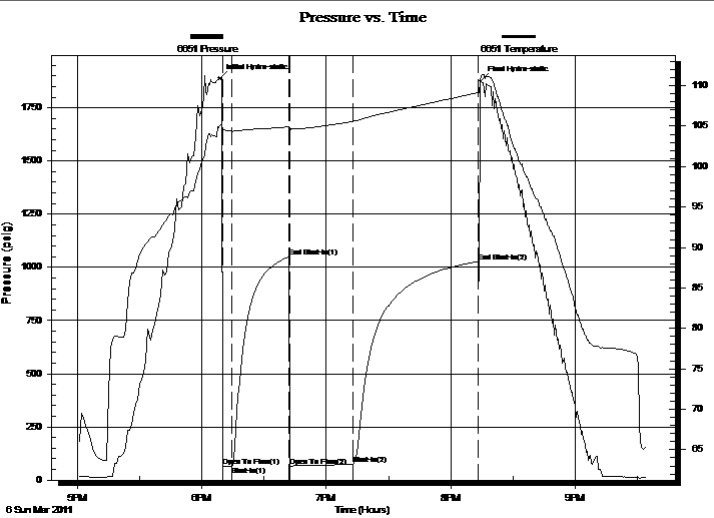
Time On Btm:

2011.03.06 @ 18:08:30

Time Off Btm:

2011.03.06 @ 20:14:30

TEST COMMENT: 5-INITIAL OPENING SURFACE BLOW
30-INITIAL SHUT IN NO BLOW BACK
30-FINAL OPENING WEAK SURFACE BLOW
60-FINAL SHUT IN NO BLOW BACK



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1888.32	105.07	Initial Hydro-static
2	63.47	104.64	Open To Flow (1)
6	64.47	104.38	Shut-In(1)
34	1050.17	104.92	End Shut-In(1)
34	66.80	104.23	Open To Flow (2)
65	74.11	105.61	Shut-In(2)
125	1026.65	109.13	End Shut-In(2)
126	1876.01	111.25	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
15.00	MUD 100%MUD	0.07

Gas Rates

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



DRILL STEM TEST REPORT

TOOL DIAGRAM

MULL DRILLING COMPANY INC

JLT 1-10

1700 N WATERFRONT PKWY BLDG 1200
WICHITA KS 67206

10-15S-27W

Job Ticket: 1075

DST#: 2

ATTN: KEVIN KESSLER

Test Start: 2011.03.06 @ 17:00:00

Tool Information

Drill Pipe:	Length: 3659.00 ft	Diameter: 3.88 inches	Volume: 53.51 bbl	Tool Weight:	2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer:	20000.00 lb
Drill Collar:	Length: 120.00 ft	Diameter: 2.25 inches	Volume: 0.59 bbl	Weight to Pull Loose:	70000.00 lb
			<u>Total Volume: 54.10 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	2.75 ft			String Weight: Initial	58000.00 lb
Depth to Top Packer:	3805.00 ft			Final	58000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	65.00 ft				
Tool Length:	93.75 ft				
Number of Packers:	2	Diameter: 6.75 inches			
Tool Comments:					

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
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Shut-in tool	5.00			3781.25	
Hydraulic tool	5.00			3786.25	
Change over sub	0.75			3787.00	
Jars	6.00			3793.00	
Safety Joint	2.00			3795.00	
Packer	5.00			3800.00	28.75 Bottom Of Top Packer
Packer	5.00			3805.00	
Anchor	2.00			3807.00	
change over sub	0.75			3807.75	
drill pipe	31.50			3839.25	
change over sub	0.75			3840.00	
anchor	25.00			3865.00	
Recorder	1.00	6651	Inside	3866.00	
Recorder	1.00	6666	Outside	3867.00	
bull plug	3.00			3870.00	65.00 Bottom Packers & Anchor

Total Tool Length: 93.75



DRILL STEM TEST REPORT

FLUID SUMMARY

MULL DRILLING COMPANY INC
1700 N WATERFRONT PKWY BLDG 1200
WICHITA KS 67206
ATTN: KEVIN KESSLER

JLT 1-10
10-15S-27W
Job Ticket: 1075 **DST#: 2**
Test Start: 2011.03.06 @ 17:00:00

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: 52.00 sec/qt	Cushion Volume: bbl		
Water Loss: 7.20 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 5900.00 ppm			
Filter Cake: inches			

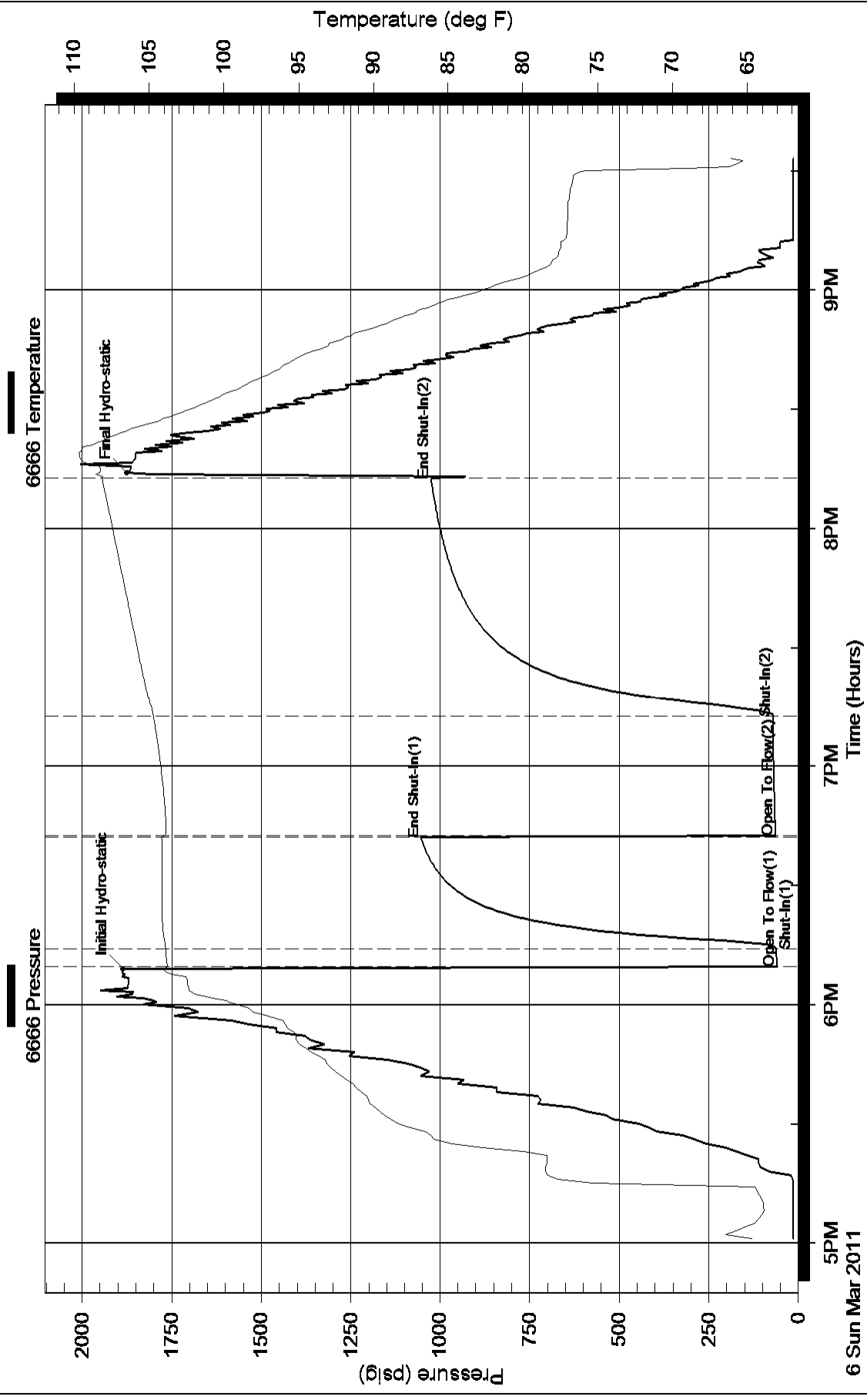
Recovery Information

Recovery Table

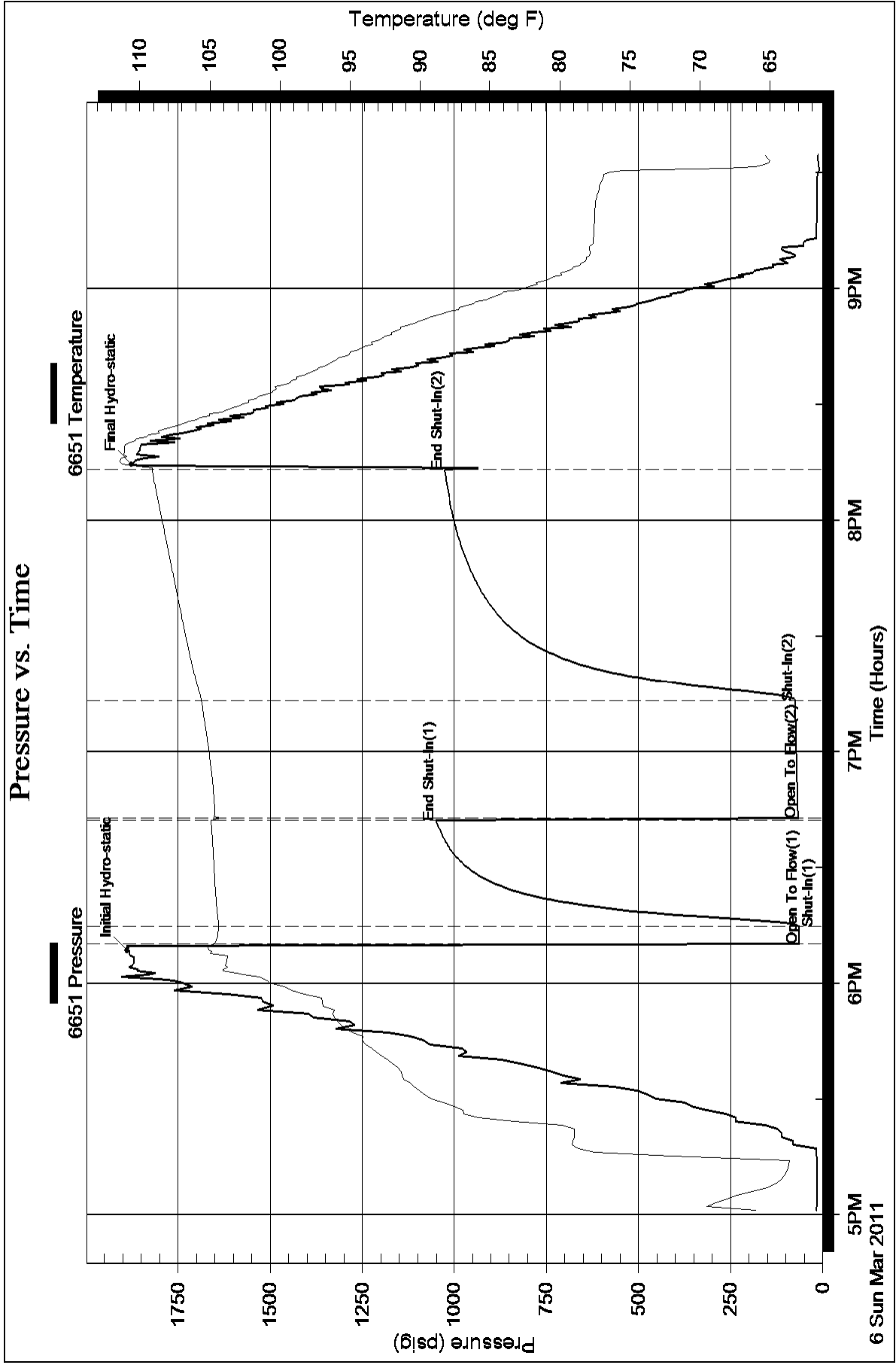
Length ft	Description	Volume bbl
15.00	MUD 100%MUD	0.074

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:

Pressure vs. Time



Pressure vs. Time





DRILL STEM TEST REPORT

Prepared For: **MULL DRILLING COMPANY INC**

1700 N WATERFRONT PKWY BLDG 1200
WICHITA KS 67206

ATTN: KEVIN KESSLER

10-15S-27W

JLT 1-10

Start Date: 2011.03.07 @ 08:00:00

End Date: 2011.03.07 @ 13:36:30

Job Ticket #: 1000 DST #: 3

Eagle Testers LLC.

P.O.Box 1011, Great Bend, KS 67530

620-617-7548

Printed: 2011.03.07 @ 08:22:10

MULL DRILLING COMPANY INC
JLT 1-10
10-15S-27W
DST # 3
LKC-J-K
2011.03.07



DRILL STEM TEST REPORT

MULL DRILLING COMPANY INC

JLT 1-10

1700 N WATERFRONT PKWY BLDG 1200
WICHITA KS 67206

10-15S-27W

ATTN: KEVIN KESSLER

Job Ticket: 1000

DST#: 3

Test Start: 2011.03.07 @ 08:00:00

GENERAL INFORMATION:

Formation: **LKC -J-K**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 09:53:30

Time Test Ended: 13:36:30

Test Type: Conventional Bottom Hole (Initial)

Tester: DAVID NICHOLS

Unit No: 15

Interval: 3870.00 ft (KB) To 3930.00 ft (KB) (TVD)

Reference Elevations: 2440.00 ft (KB)

Total Depth: 3930.00 ft (KB) (TVD)

2434.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 6.00 ft

Serial #: 6666 Outside

Press @ RunDepth: 64.06 psig @ 3927.00 ft (KB)

Capacity: 5000.00 psig

Start Date: 2011.03.07

End Date: 2011.03.07

Last Calib.: 2011.03.07

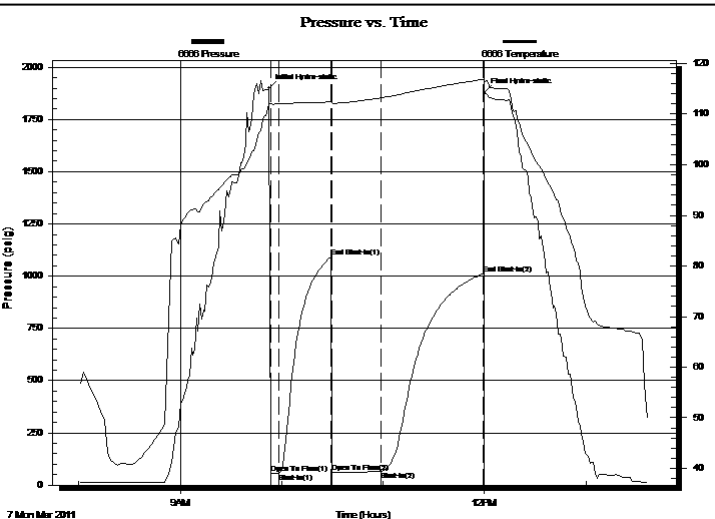
Start Time: 08:00:00

End Time: 13:36:30

Time On Btm: 2011.03.07 @ 09:52:30

Time Off Btm: 2011.03.07 @ 12:00:00

TEST COMMENT: 5-INITIAL OPENING WEAK BLOW BUILT TO 1/2 INCH INTO WATER
30-INITIAL SHUT IN NO BLOW BACK
30-FINAL OPENING WEAK SURFACE BLOW DIED AFTER 13 MINS
60-FINAL SHUT IN NO BLOW BACK



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1898.62	112.14	Initial Hydro-static
1	56.36	112.01	Open To Flow (1)
6	58.20	112.01	Shut-In(1)
37	1090.25	112.45	End Shut-In(1)
37	60.03	112.18	Open To Flow (2)
66	64.06	113.21	Shut-In(2)
127	1010.25	116.86	End Shut-In(2)
128	1877.76	116.31	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
10.00	MUD WITH A SPOT OF OIL 100%MUD	0.05

Gas Rates

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



DRILL STEM TEST REPORT

MULL DRILLING COMPANY INC

JLT 1-10

1700 N WATERFRONT PKWY BLDG 1200
WICHITA KS 67206

10-15S-27W

ATTN: KEVIN KESSLER

Job Ticket: 1000

DST#: 3

Test Start: 2011.03.07 @ 08:00:00

GENERAL INFORMATION:

Formation: **LKC -J-K**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 09:53:30

Time Test Ended: 13:36:30

Test Type: Conventional Bottom Hole (Initial)

Tester: DAVID NICHOLS

Unit No: 15

Interval: 3870.00 ft (KB) To 3930.00 ft (KB) (TVD)

Reference Elevations: 2440.00 ft (KB)

Total Depth: 3930.00 ft (KB) (TVD)

2434.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 6.00 ft

Serial #: 6651

Inside

Press @ Run Depth: 1009.89 psig @ 3926.00 ft (KB)

Capacity: 5000.00 psig

Start Date: 2011.03.07

End Date: 2011.03.07

Last Calib.: 2011.03.07

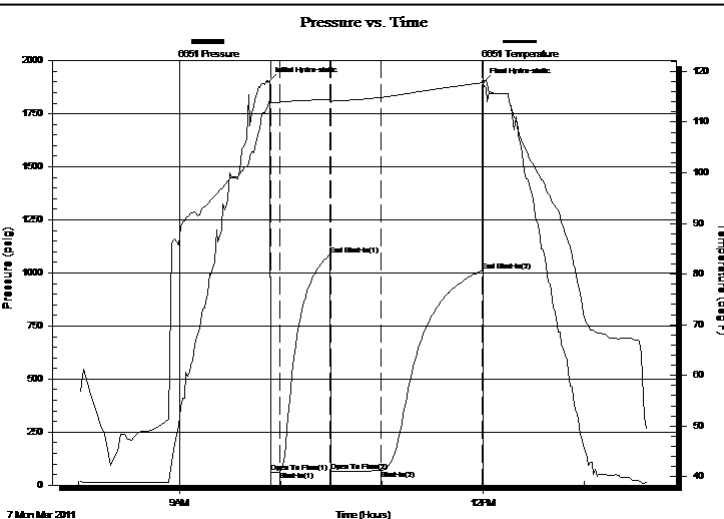
Start Time: 08:00:00

End Time: 13:37:30

Time On Btm: 2011.03.07 @ 09:52:30

Time Off Btm: 2011.03.07 @ 12:00:00

TEST COMMENT: 5-INITIAL OPENING WEAK BLOW BUILT TO 1/2 INCH INTO WATER
30-INITIAL SHUT IN NO BLOW BACK
30-FINAL OPENING WEAK SURFACE BLOW DIED AFTER 13 MINS
60-FINAL SHUT IN NO BLOW BACK



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1901.96	113.94	Initial Hydro-static
2	61.05	113.84	Open To Flow (1)
7	63.97	113.93	Shut-In(1)
37	1086.63	114.49	End Shut-In(1)
37	64.47	113.84	Open To Flow (2)
68	67.72	114.89	Shut-In(2)
127	1009.89	117.75	End Shut-In(2)
128	1895.32	118.42	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
10.00	MUD WITH A SPOT OF OIL 100%MUD	0.05

Gas Rates

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



DRILL STEM TEST REPORT

TOOL DIAGRAM

MULL DRILLING COMPANY INC
 1700 N WATERFRONT PKWY BLDG 1200
 WICHITA KS 67206
 ATTN: KEVIN KESSLER

JLT 1-10
10-15S-27W
 Job Ticket: 1000 **DST#: 3**
 Test Start: 2011.03.07 @ 08:00:00

Tool Information

Drill Pipe:	Length: 3724.00 ft	Diameter: 3.88 inches	Volume: 54.46 bbl	Tool Weight:	2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer:	20000.00 lb
Drill Collar:	Length: 120.00 ft	Diameter: 2.25 inches	Volume: 0.59 bbl	Weight to Pull Loose:	70000.00 lb
			<u>Total Volume: 55.05 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	2.75 ft			String Weight: Initial	59000.00 lb
Depth to Top Packer:	3870.00 ft			Final	59000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	60.00 ft				
Tool Length:	88.75 ft				
Number of Packers:	2	Diameter: 6.75 inches			

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut-in tool	5.00			3846.25	
Hydraulic tool	5.00			3851.25	
Change over sub	0.75			3852.00	
Jars	6.00			3858.00	
Safety Joint	2.00			3860.00	
Packer	5.00			3865.00	28.75 Bottom Of Top Packer
Packer	5.00			3870.00	
Anchor	2.00			3872.00	
change over sub	0.75			3872.75	
drill pipe	31.50			3904.25	
change over sub	0.75			3905.00	
anchor	20.00			3925.00	
Recorder	1.00	6651	Inside	3926.00	
Recorder	1.00	6666	Outside	3927.00	
bull plug	3.00			3930.00	60.00 Bottom Packers & Anchor

Total Tool Length: 88.75



DRILL STEM TEST REPORT

FLUID SUMMARY

MULL DRILLING COMPANY INC
1700 N WATERFRONT PKWY BLDG 1200
WICHITA KS 67206
ATTN: KEVIN KESSLER

JLT 1-10
10-15S-27W
Job Ticket: 1000 **DST#: 3**
Test Start: 2011.03.07 @ 08:00:00

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: 52.00 sec/qt	Cushion Volume: bbl		
Water Loss: 7.20 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 5900.00 ppm			
Filter Cake: inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
10.00	MUD WITH A SPOT OF OIL 100%MUD	0.049

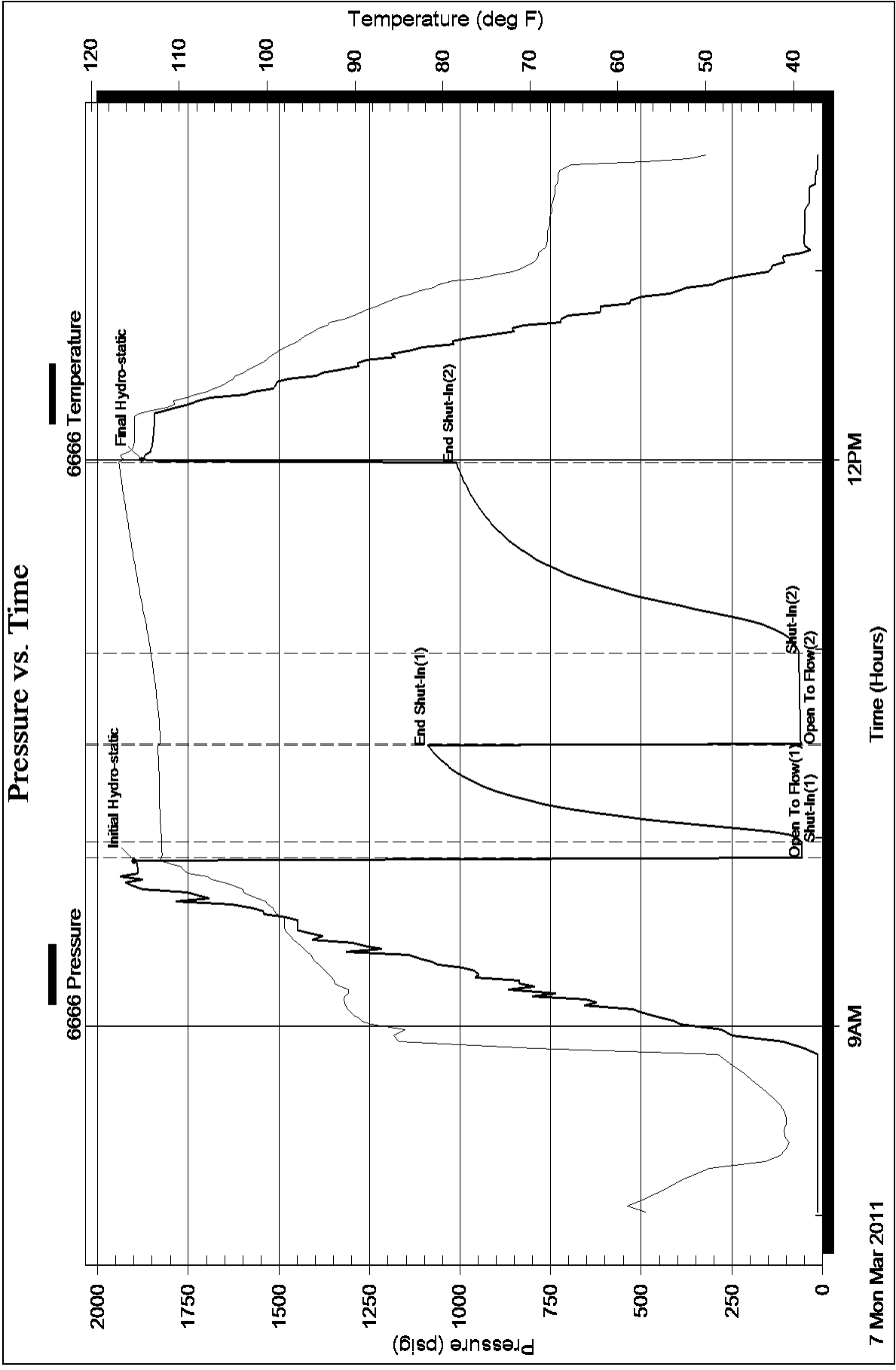
Total Length: 10.00 ft Total Volume: 0.049 bbl

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

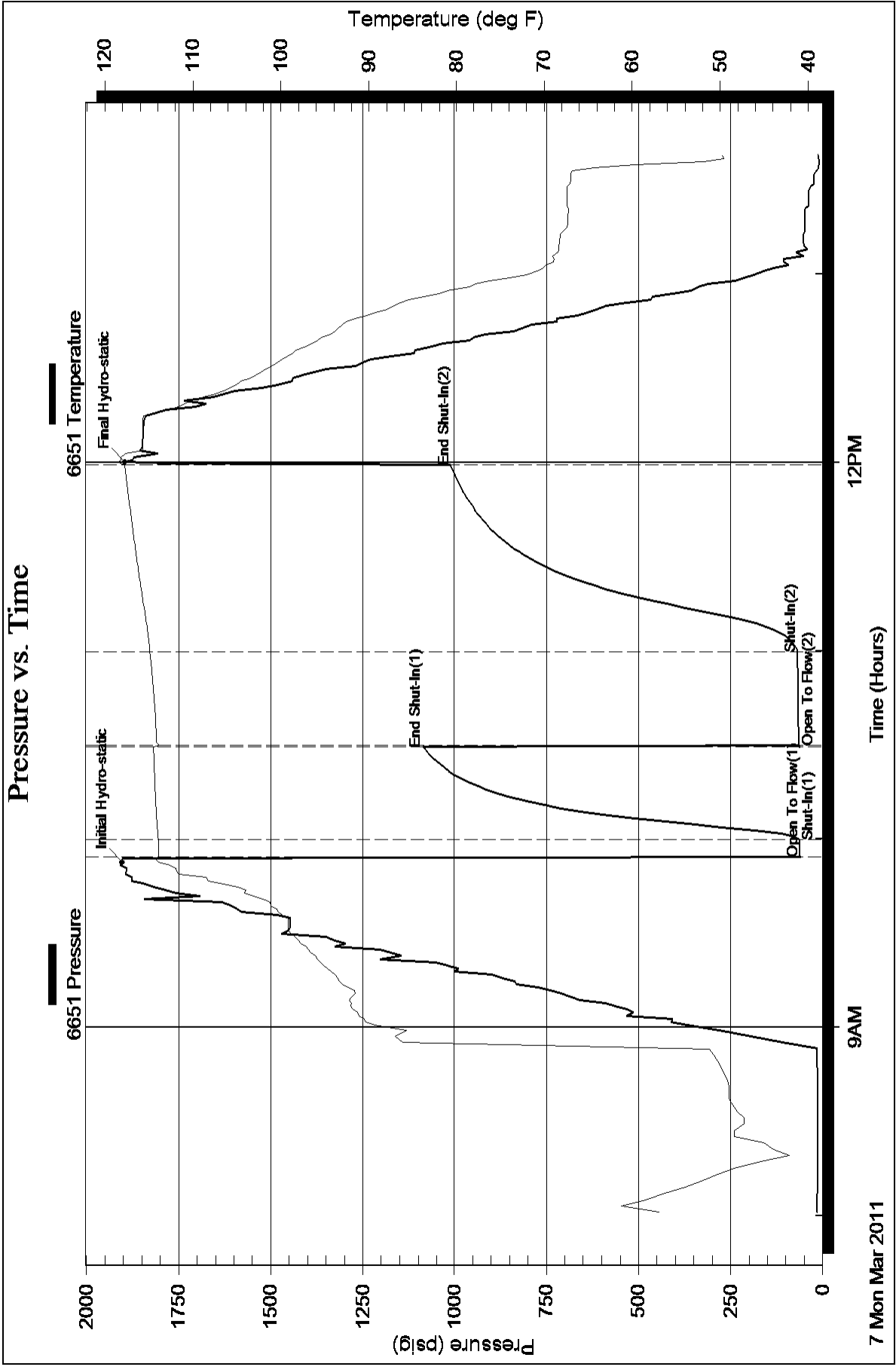
Laboratory Name: Laboratory Location:

Recovery Comments:

Pressure vs. Time



Pressure vs. Time





DRILL STEM TEST REPORT

Prepared For: **MULL DRILLING COMPANY INC**

1700 N WATERFRONT PKWY BLDG 1200
WICHITA KS 67206

ATTN: KEVIN KESSLER

10-15S-27W

JLT 1-10

Start Date: 2011.03.08 @ 03:00:00

End Date: 2011.03.08 @ 09:28:00

Job Ticket #: 1001 DST #: 4

Eagle Testers LLC.

P.O.Box 1011, Great Bend, KS 67530

620-617-7548

Printed: 2011.03.08 @ 03:38:22

MULL DRILLING COMPANY INC
JLT 1-10
10-15S-27W
DST # 4
LKC-L-MARA
2011.03.08



DRILL STEM TEST REPORT

MULL DRILLING COMPANY INC

JLT 1-10

1700 N WATERFRONT PKWY BLDG 1200
WICHITA KS 67206

10-15S-27W

ATTN: KEVIN KESSLER

Job Ticket: 1001

DST#: 4

Test Start: 2011.03.08 @ 03:00:00

GENERAL INFORMATION:

Formation: **LKC-L- MARA**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 05:08:30

Time Test Ended: 09:28:00

Test Type: Conventional Bottom Hole (Initial)

Tester: DAVID NICHOLS

Unit No: 15 53 MRT DIGTION K

Interval: 3920.00 ft (KB) To 4060.00 ft (KB) (TVD)

Reference Elevations: 2440.00 ft (KB)

Total Depth: 4060.00 ft (KB) (TVD)

2434.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 6.00 ft

Serial #: 6666

Outside

Press @ Run Depth: 110.39 psig @ 4057.00 ft (KB)

Capacity: 5000.00 psig

Start Date: 2011.03.08

End Date: 2011.03.08

Last Calib.: 2011.03.08

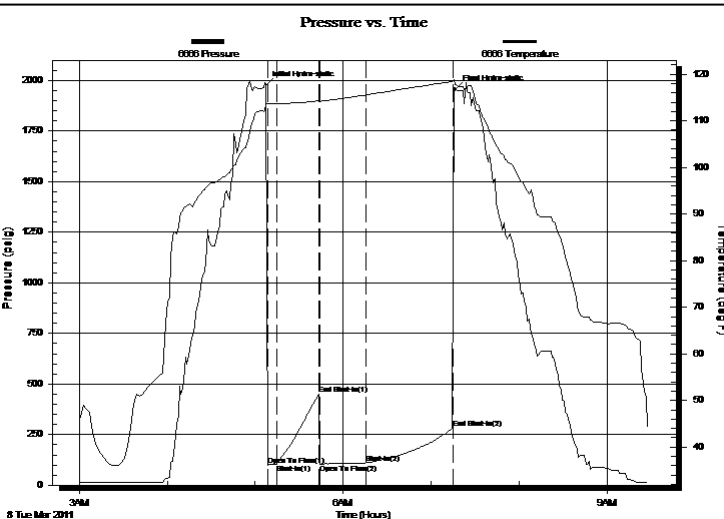
Start Time: 03:00:00

End Time: 09:28:00

Time On Btm: 2011.03.08 @ 05:07:30

Time Off Btm: 2011.03.08 @ 07:16:30

TEST COMMENT: 5-INITIAL OPENING VERY WEAK BLOW THEN DIED AFTER 2 MINS
30-INITIAL SHUT IN NO BLOW BACK
30-FINAL OPENING VERY WEAK BLOW DIED AFTER 4 MINS FLUSHED TOOL NO BLOW
60-FINAL SHUT IN NO BLOW BACK



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1975.35	113.69	Initial Hydro-static
1	99.49	113.58	Open To Flow (1)
7	102.38	113.75	Shut-In(1)
36	449.54	114.29	End Shut-In(1)
37	104.16	114.20	Open To Flow (2)
68	110.39	115.55	Shut-In(2)
128	280.98	118.45	End Shut-In(2)
129	1955.35	117.74	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
15.00	MUD 100%MUD	0.07

Gas Rates

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



DRILL STEM TEST REPORT

MULL DRILLING COMPANY INC

JLT 1-10

1700 N WATERFRONT PKWY BLDG 1200
WICHITA KS 67206

10-15S-27W

ATTN: KEVIN KESSLER

Job Ticket: 1001

DST#: 4

Test Start: 2011.03.08 @ 03:00:00

GENERAL INFORMATION:

Formation: **LKC-L- MARA**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 05:08:30

Time Test Ended: 09:28:00

Test Type: Conventional Bottom Hole (Initial)

Tester: DAVID NICHOLS

Unit No: 15 53 MRT DIGTION K

Interval: 3920.00 ft (KB) To 4060.00 ft (KB) (TVD)

Reference Elevations: 2440.00 ft (KB)

Total Depth: 4060.00 ft (KB) (TVD)

2434.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 6.00 ft

Serial #: 6651

Inside

Press @ RunDepth: 281.25 psig @ 4056.00 ft (KB)

Capacity: 5000.00 psig

Start Date: 2011.03.08

End Date: 2011.03.08

Last Calib.: 2011.03.08

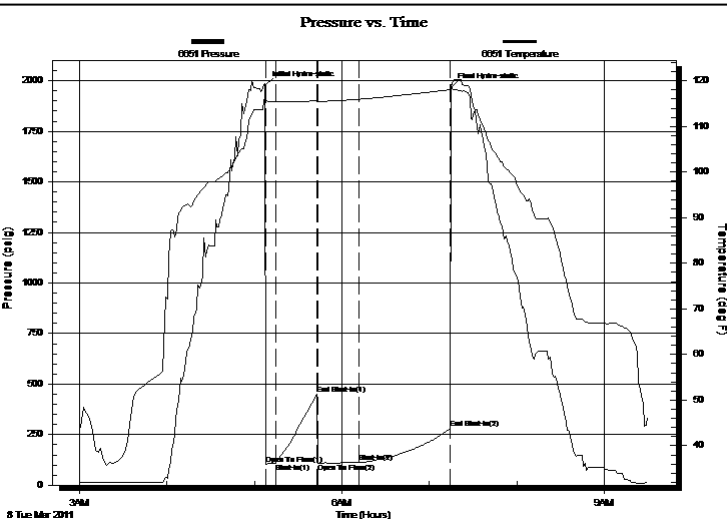
Start Time: 03:00:00

End Time: 09:29:30

Time On Btm: 2011.03.08 @ 05:07:30

Time Off Btm: 2011.03.08 @ 07:15:00

TEST COMMENT: 5-INITIAL OPENING VERY WEAK BLOW THEN DIED AFTER 2 MINS
30-INITIAL SHUT IN NO BLOW BACK
30-FINAL OPENING VERY WEAK BLOW DIED AFTER 4 MINS FLUSHED TOOL NO BLOW
60-FINAL SHUT IN NO BLOW BACK



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1978.01	116.07	Initial Hydro-static
1	104.82	115.26	Open To Flow (1)
7	106.60	115.47	Shut-In(1)
36	448.97	115.60	End Shut-In(1)
36	108.64	115.45	Open To Flow (2)
65	111.58	115.97	Shut-In(2)
127	281.25	118.05	End Shut-In(2)
128	1966.51	118.54	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
15.00	MUD 100%MUD	0.07

Gas Rates

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



DRILL STEM TEST REPORT

TOOL DIAGRAM

MULL DRILLING COMPANY INC
 1700 N WATERFRONT PKWY BLDG 1200
 WICHITA KS 67206
 ATTN: KEVIN KESSLER

JLT 1-10
10-15S-27W
 Job Ticket: 1001 **DST#: 4**
 Test Start: 2011.03.08 @ 03:00:00

Tool Information

Drill Pipe:	Length: 3774.00 ft	Diameter: 3.88 inches	Volume: 55.19 bbl	Tool Weight:	2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer:	20000.00 lb
Drill Collar:	Length: 120.00 ft	Diameter: 2.25 inches	Volume: 0.59 bbl	Weight to Pull Loose:	80000.00 lb
			<u>Total Volume: 55.78 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	2.75 ft			String Weight: Initial	59000.00 lb
Depth to Top Packer:	3920.00 ft			Final	59000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	140.00 ft				
Tool Length:	168.75 ft				
Number of Packers:	2	Diameter: 6.75 inches			

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut-in tool	5.00			3896.25	
Hydraulic tool	5.00			3901.25	
Change over sub	0.75			3902.00	
Jars	6.00			3908.00	
Safety Joint	2.00			3910.00	
Packer	5.00			3915.00	28.75 Bottom Of Top Packer
Packer	5.00			3920.00	
Anchor	2.00			3922.00	
change over sub	0.75			3922.75	
drill pipe	95.50			4018.25	
change over sub	0.75			4019.00	
anchor	36.00			4055.00	
Recorder	1.00	6651	Inside	4056.00	
Recorder	1.00	6666	Outside	4057.00	
bull plug	3.00			4060.00	140.00 Bottom Packers & Anchor

Total Tool Length: 168.75



DRILL STEM TEST REPORT

FLUID SUMMARY

MULL DRILLING COMPANY INC
1700 N WATERFRONT PKWY BLDG 1200
WICHITA KS 67206
ATTN: KEVIN KESSLER

JLT 1-10
10-15S-27W
Job Ticket: 1001 **DST#: 4**
Test Start: 2011.03.08 @ 03:00:00

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:	47.00 sec/qt	Cushion Volume:	bbbl		
Water Loss:	6.80 in ³	Gas Cushion Type:			
Resistivity:	ohm.m	Gas Cushion Pressure:	psig		
Salinity:	6300.00 ppm				
Filter Cake:	inches				

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
15.00	MUD 100%MUD	0.074

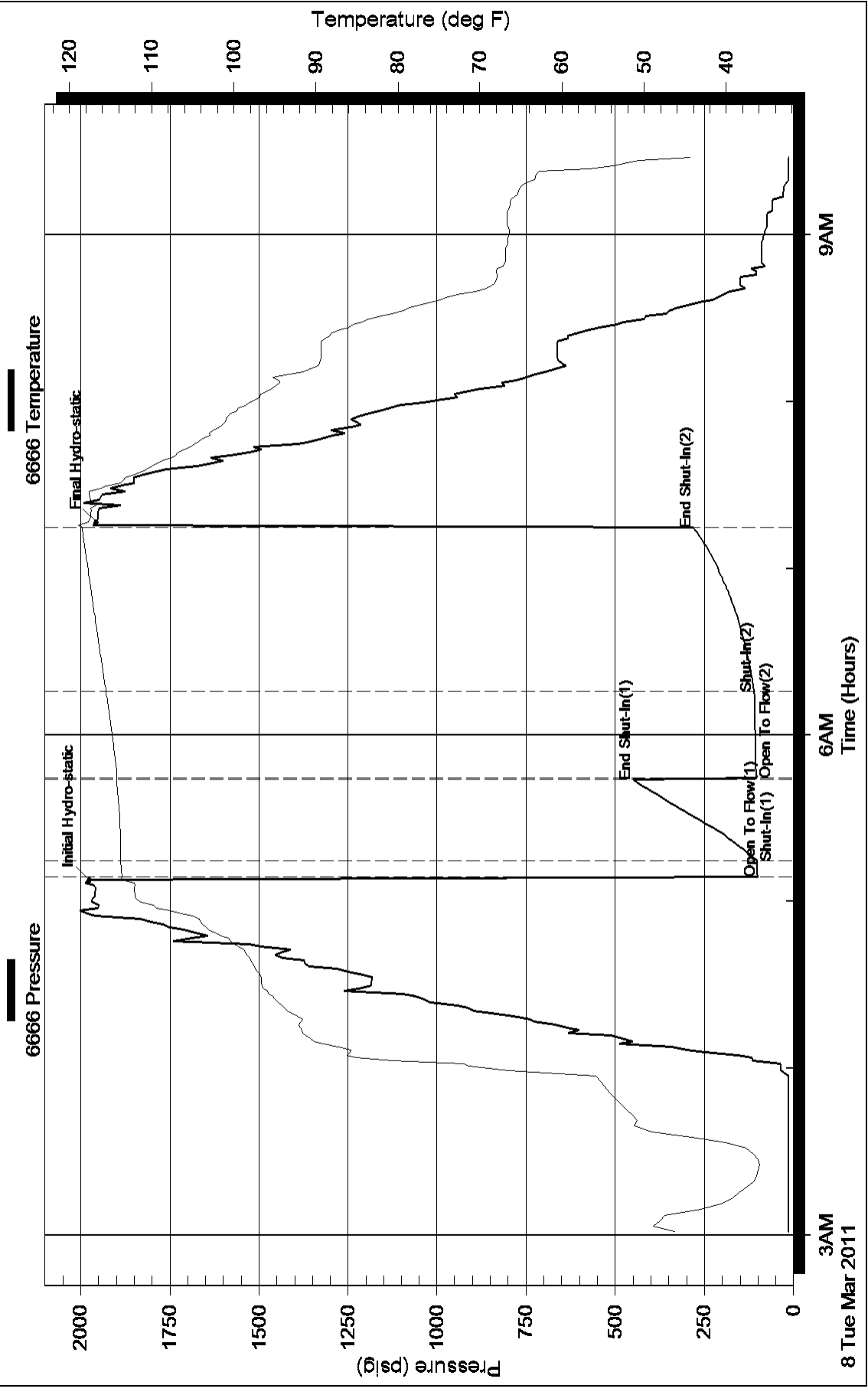
Total Length: 15.00 ft Total Volume: 0.074 bbl

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

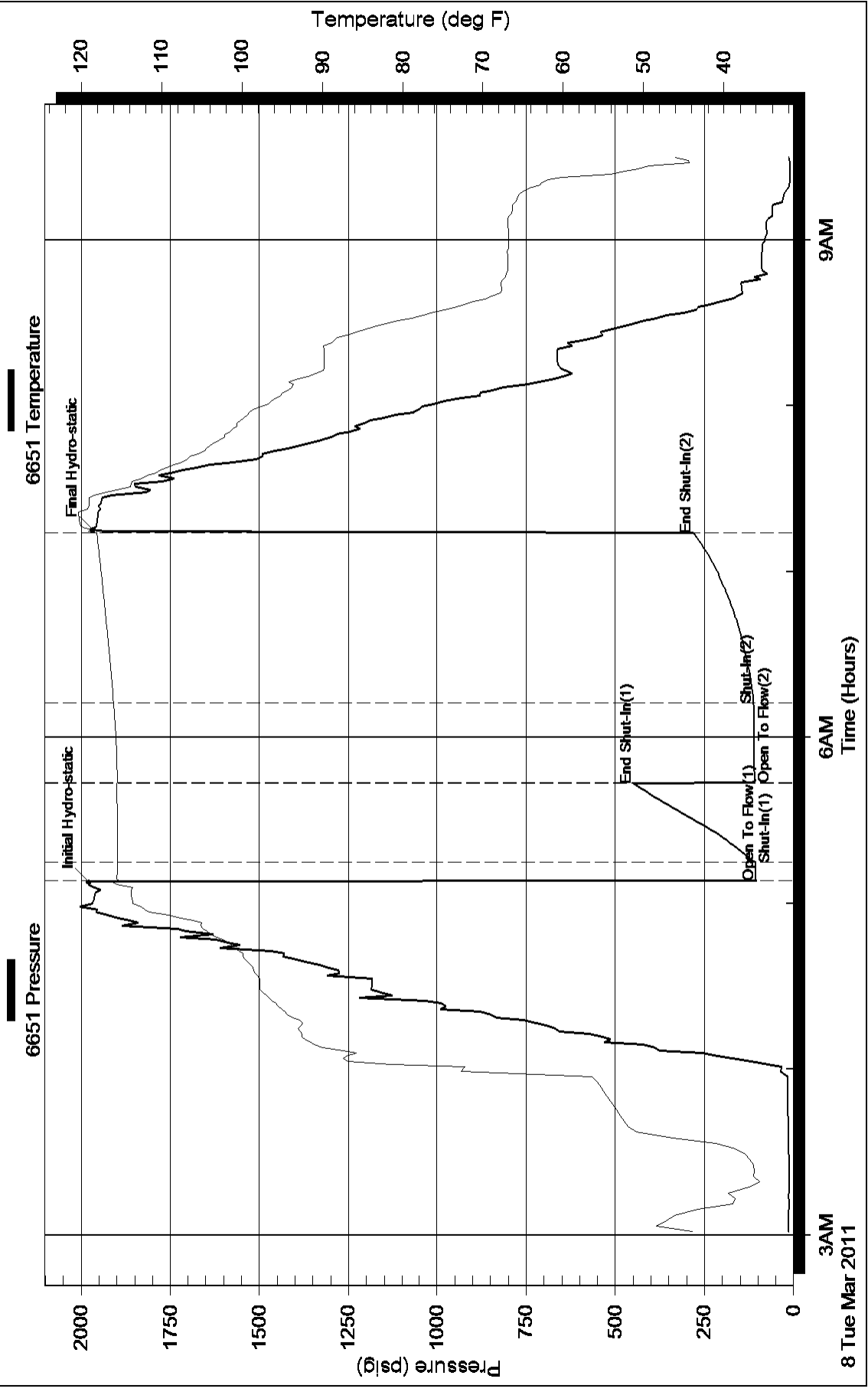
Laboratory Name: Laboratory Location:

Recovery Comments:

Pressure vs. Time



Pressure vs. Time





DRILL STEM TEST REPORT

Prepared For: **MULL DRILLING COMPANY INC**

1700 N WATERFRONT PKWY BLDG 1200
WICHITA KS 67206

ATTN: KEVIN KESSLER

10-15S-27W

JLT 1-10

Start Date: 2011.03.08 @ 22:00:00

End Date: 2011.03.09 @ 03:38:00

Job Ticket #: 1002 DST #: 5

Eagle Testers LLC.

P.O.Box 1011, Great Bend, KS 67530

620-617-7548

Printed: 2011.03.08 @ 23:00:11

MULL DRILLING COMPANY INC
JLT 1-10
10-15S-27W
DST # 5
FT SCOTT
2011.03.08



DRILL STEM TEST REPORT

MULL DRILLING COMPANY INC

JLT 1-10

1700 N WATERFRONT PKWY BLDG 1200
WICHITA KS 67206

10-15S-27W

ATTN: KEVIN KESSLER

Job Ticket: 1002

DST#: 5

Test Start: 2011.03.08 @ 22:00:00

GENERAL INFORMATION:

Formation: **FT SCOTT**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 23:36:00

Time Test Ended: 03:38:00

Test Type: Conventional Bottom Hole (Initial)

Tester: DAVID NICHOLS

Unit No: 15 53 MRT DIGTION

Interval: 4120.00 ft (KB) To 4200.00 ft (KB) (TVD)

Reference Elevations: 2440.00 ft (KB)

Total Depth: 4200.00 ft (KB) (TVD)

2434.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 6.00 ft

Serial #: 6666 Outside

Press @ RunDepth: 81.12 psig @ 4197.00 ft (KB)

Capacity: 5000.00 psig

Start Date: 2011.03.08

End Date: 2011.03.09

Last Calib.: 2011.03.08

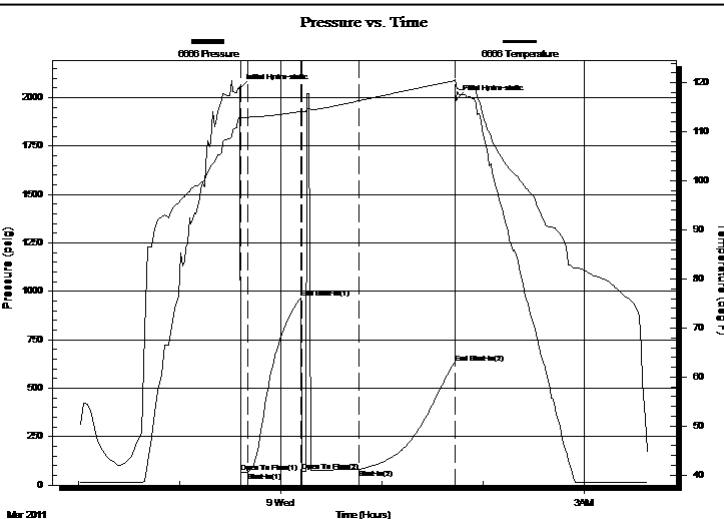
Start Time: 22:00:00

End Time: 03:38:00

Time On Btm: 2011.03.08 @ 23:35:30

Time Off Btm: 2011.03.09 @ 01:44:00

TEST COMMENT: 5-INITIAL OPENING WEAK BLOW BUILT TO 1/2 INCH INTO WATER
30-INITIAL SHUT IN NO BLOW BACK
30-FINAL OPENING NO BLOW FLUSHED TOOL NO BLOW
60-FINAL SHUT IN NO BLOW BACK



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2048.63	113.13	Initial Hydro-static
1	67.03	112.81	Open To Flow (1)
5	68.56	112.97	Shut-In(1)
36	967.32	114.19	End Shut-In(1)
37	71.17	114.00	Open To Flow (2)
71	81.12	116.30	Shut-In(2)
128	628.25	120.39	End Shut-In(2)
129	1990.45	119.64	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
10.00	MUD 100%MUD	0.05

Gas Rates

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



DRILL STEM TEST REPORT

MULL DRILLING COMPANY INC

JLT 1-10

1700 N WATERFRONT PKWY BLDG 1200
WICHITA KS 67206

10-15S-27W

ATTN: KEVIN KESSLER

Job Ticket: 1002

DST#: 5

Test Start: 2011.03.08 @ 22:00:00

GENERAL INFORMATION:

Formation: **FT SCOTT**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 23:36:00

Time Test Ended: 03:38:00

Test Type: Conventional Bottom Hole (Initial)

Tester: DAVID NICHOLS

Unit No: 15 53 MRT DIGTION

Interval: 4120.00 ft (KB) To 4200.00 ft (KB) (TVD)

Reference Elevations: 2440.00 ft (KB)

Total Depth: 4200.00 ft (KB) (TVD)

2434.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 6.00 ft

Serial #: 6651

Inside

Press @ RunDepth: 623.83 psig @ 4196.00 ft (KB)

Capacity: 5000.00 psig

Start Date: 2011.03.08

End Date:

2011.03.09

Last Calib.:

2011.03.08

Start Time: 22:00:00

End Time:

03:37:00

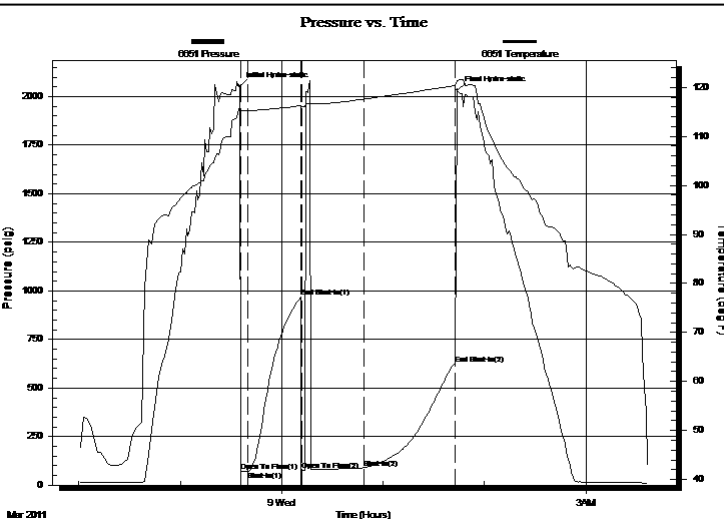
Time On Btm:

2011.03.08 @ 23:35:00

Time Off Btm:

2011.03.09 @ 01:44:00

TEST COMMENT: 5-INITIAL OPENING WEAK BLOW BUILT TO 1/2 INCH INTO WATER
30-INITIAL SHUT IN NO BLOW BACK
30-FINAL OPENING NO BLOW FLUSHED TOOL NO BLOW
60-FINAL SHUT IN NO BLOW BACK



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2052.08	115.73	Initial Hydro-static
1	71.47	115.22	Open To Flow (1)
5	72.49	115.26	Shut-In(1)
36	966.57	116.22	End Shut-In(1)
37	75.37	116.01	Open To Flow (2)
74	89.31	117.57	Shut-In(2)
128	623.83	120.35	End Shut-In(2)
129	2032.97	121.29	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
10.00	MUD 100%MUD	0.05

Gas Rates

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



DRILL STEM TEST REPORT

TOOL DIAGRAM

MULL DRILLING COMPANY INC
 1700 N WATERFRONT PKWY BLDG 1200
 WICHITA KS 67206
 ATTN: KEVIN KESSLER

JLT 1-10
10-15S-27W
 Job Ticket: 1002 **DST#: 5**
 Test Start: 2011.03.08 @ 22:00:00

Tool Information

Drill Pipe:	Length: 3974.00 ft	Diameter: 3.88 inches	Volume: 58.12 bbl	Tool Weight:	2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer:	20000.00 lb
Drill Collar:	Length: 120.00 ft	Diameter: 2.25 inches	Volume: 0.59 bbl	Weight to Pull Loose:	70000.00 lb
			<u>Total Volume: 58.71 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	2.75 ft			String Weight: Initial	60000.00 lb
Depth to Top Packer:	4120.00 ft			Final	60000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	80.00 ft				
Tool Length:	108.75 ft				
Number of Packers:	2	Diameter: 6.75 inches			

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut-in tool	5.00			4096.25	
Hydraulic tool	5.00			4101.25	
Change over sub	0.75			4102.00	
Jars	6.00			4108.00	
Safety Joint	2.00			4110.00	
Packer	5.00			4115.00	28.75 Bottom Of Top Packer
Packer	5.00			4120.00	
Anchor	5.00			4125.00	
change over sub	0.75			4125.75	
drill pipe	31.50			4157.25	
change over sub	0.75			4158.00	
anchor	37.00			4195.00	
Recorder	1.00	6651	Inside	4196.00	
Recorder	1.00	6666	Outside	4197.00	
bull plug	3.00			4200.00	80.00 Bottom Packers & Anchor

Total Tool Length: 108.75



DRILL STEM TEST REPORT

FLUID SUMMARY

MULL DRILLING COMPANY INC
1700 N WATERFRONT PKWY BLDG 1200
WICHITA KS 67206
ATTN: KEVIN KESSLER

JLT 1-10
10-15S-27W
Job Ticket: 1002 **DST#: 5**
Test Start: 2011.03.08 @ 22:00:00

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: 51.00 sec/qt	Cushion Volume: bbl		
Water Loss: 67.98 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 4500.00 ppm			
Filter Cake: inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
10.00	MUD 100%MUD	0.049

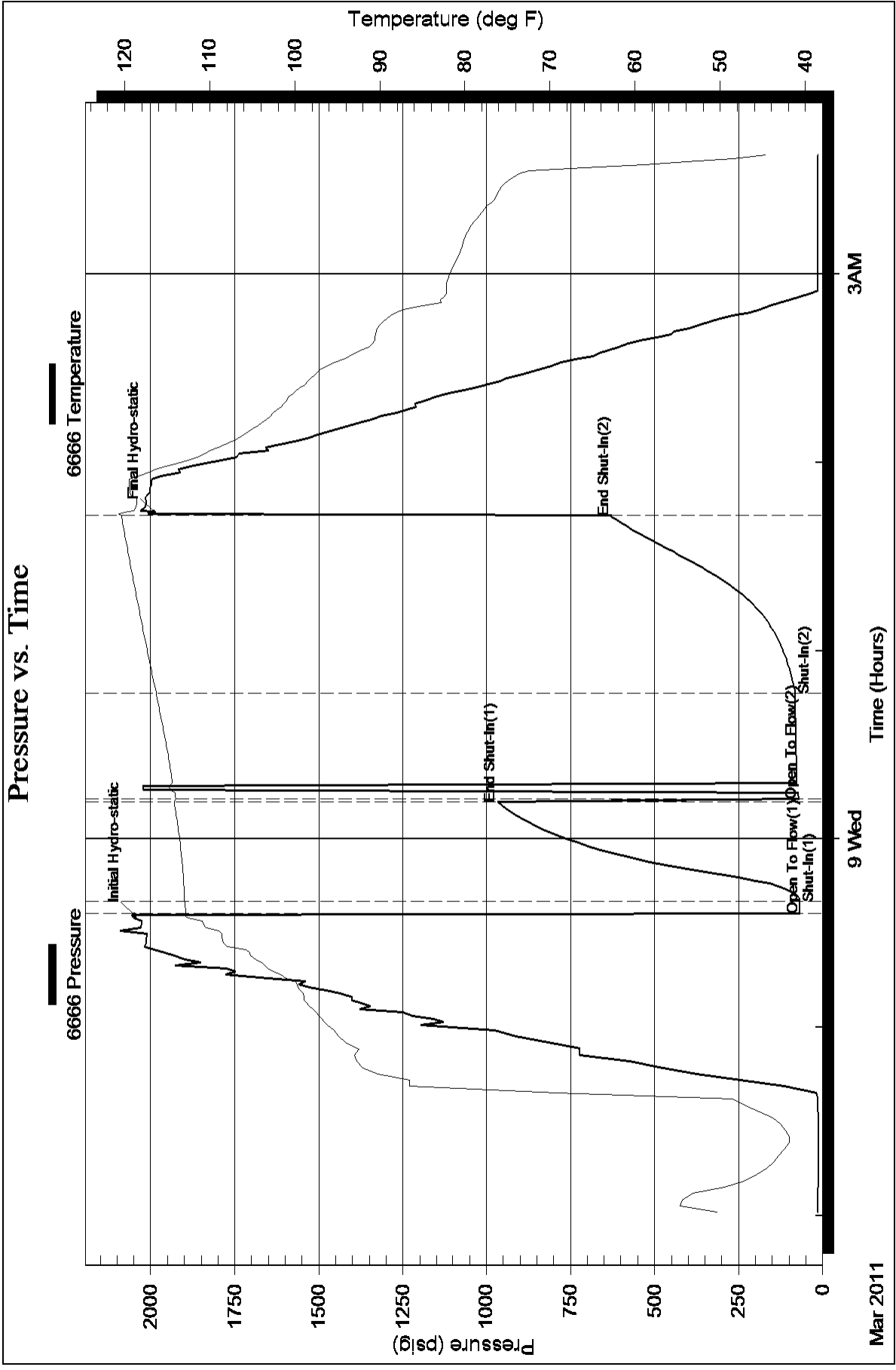
Total Length: 10.00 ft Total Volume: 0.049 bbl

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

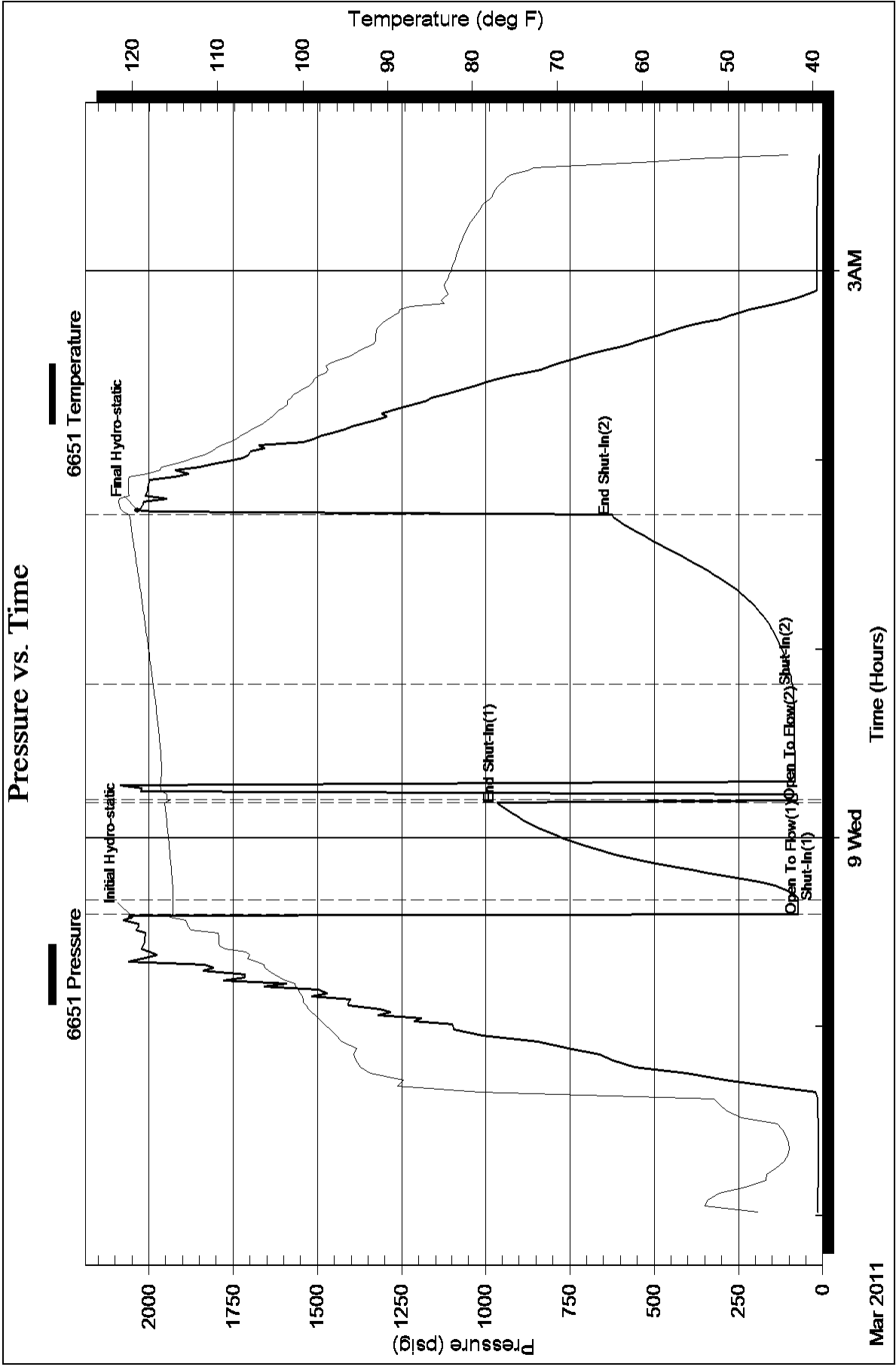
Laboratory Name: Laboratory Location:

Recovery Comments:

Pressure vs. Time



Pressure vs. Time





DRILL STEM TEST REPORT

Prepared For: **MULL DRILLING COMPANY INC**

1700 N WATERFRONT PKWY BLDG 1200
WICHITA KS 67206

ATTN: KEVIN KESSLER

10-15S-27W

JLT 1-10

Start Date: 2011.03.09 @ 17:00:00

End Date: 2011.03.09 @ 22:06:30

Job Ticket #: 1003 DST #: 6

Eagle Testers LLC.

P.O.Box 1011, Great Bend, KS 67530

620-617-7548

Printed: 2011.03.09 @ 18:08:37

MULL DRILLING COMPANY INC
JLT 1-10
10-15S-27W
DST # 6
MISS
2011.03.09



DRILL STEM TEST REPORT

MULL DRILLING COMPANY INC

JLT 1-10

1700 N WATERFRONT PKWY BLDG 1200
WICHITA KS 67206

10-15S-27W

ATTN: KEVIN KESSLER

Job Ticket: 1003

DST#: 6

Test Start: 2011.03.09 @ 17:00:00

GENERAL INFORMATION:

Formation: **MISS**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 18:32:00

Time Test Ended: 22:06:30

Test Type: Conventional Bottom Hole (Initial)

Tester: DAVID NICHOLS

Unit No: 15 53 MRT DIGTION

Interval: 4165.00 ft (KB) To 4255.00 ft (KB) (TVD)

Reference Elevations: 2440.00 ft (KB)

Total Depth: 4255.00 ft (KB) (TVD)

2434.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 6.00 ft

Serial #: 6666 Outside

Press @ RunDepth: 83.89 psig @ 4252.00 ft (KB)

Capacity: 5000.00 psig

Start Date: 2011.03.09

End Date: 2011.03.09

Last Calib.: 2011.03.09

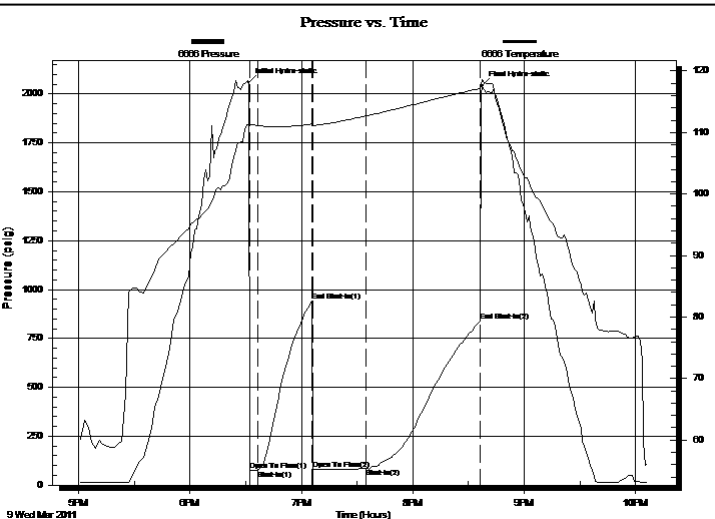
Start Time: 17:00:00

End Time: 22:06:30

Time On Btm: 2011.03.09 @ 18:31:30

Time Off Btm: 2011.03.09 @ 20:37:30

TEST COMMENT: 5-INITIAL OPENING WEAK BLOW BUILT TO 1/2 INCH INTO WATER
30-INITIAL SHUT IN NO BLOW BACK
30-FINAL OPENING VERY WEAK BLOW DIED AFTER 15 MINS
60-FINAL SHUT IN NO BLOW BACK



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2060.34	111.31	Initial Hydro-static
1	74.96	111.18	Open To Flow (1)
5	77.13	111.14	Shut-In(1)
34	939.53	111.39	End Shut-In(1)
35	79.43	111.18	Open To Flow (2)
63	83.89	112.67	Shut-In(2)
125	836.81	117.16	End Shut-In(2)
126	2040.82	118.64	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
10.00	MUD 100%MUD	0.05

Gas Rates

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



DRILL STEM TEST REPORT

MULL DRILLING COMPANY INC

JLT 1-10

1700 N WATERFRONT PKWY BLDG 1200
WICHITA KS 67206

10-15S-27W

ATTN: KEVIN KESSLER

Job Ticket: 1003

DST#: 6

Test Start: 2011.03.09 @ 17:00:00

GENERAL INFORMATION:

Formation: **MISS**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 18:32:00

Time Test Ended: 22:06:30

Test Type: Conventional Bottom Hole (Initial)

Tester: DAVID NICHOLS

Unit No: 15 53 MRT DIGTION

Interval: 4165.00 ft (KB) To 4255.00 ft (KB) (TVD)

Reference Elevations: 2440.00 ft (KB)

Total Depth: 4255.00 ft (KB) (TVD)

2434.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 6.00 ft

Serial #: 6651

Inside

Press @ RunDepth: 835.59 psig @ 4251.00 ft (KB)

Capacity: 5000.00 psig

Start Date: 2011.03.09

End Date: 2011.03.09

Last Calib.: 2011.03.09

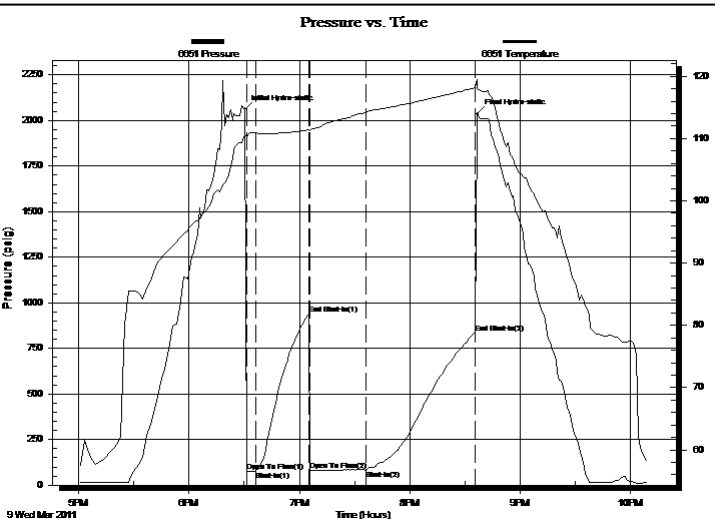
Start Time: 17:00:00

End Time: 22:10:00

Time On Btm: 2011.03.09 @ 18:30:30

Time Off Btm: 2011.03.09 @ 20:37:00

TEST COMMENT: 5-INITIAL OPENING WEAK BLOW BUILT TO 1/2 INCH INTO WATER
30-INITIAL SHUT IN NO BLOW BACK
30-FINAL OPENING VERY WEAK BLOW DIED AFTER 15 MINS
60-FINAL SHUT IN NO BLOW BACK



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2059.93	110.52	Initial Hydro-static
1	77.31	110.23	Open To Flow (1)
6	78.39	110.91	Shut-In(1)
35	938.38	111.37	End Shut-In(1)
35	81.22	111.20	Open To Flow (2)
66	83.46	114.25	Shut-In(2)
125	835.59	118.13	End Shut-In(2)
127	2036.45	118.17	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
10.00	MUD 100%MUD	0.05

Gas Rates

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



DRILL STEM TEST REPORT

TOOL DIAGRAM

MULL DRILLING COMPANY INC
 1700 N WATERFRONT PKWY BLDG 1200
 WICHITA KS 67206
 ATTN: KEVIN KESSLER

JLT 1-10
10-15S-27W
 Job Ticket: 1003 **DST#: 6**
 Test Start: 2011.03.09 @ 17:00:00

Tool Information

Drill Pipe:	Length: 4019.00 ft	Diameter: 3.88 inches	Volume: 58.77 bbl	Tool Weight:	2.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer:	20.00 lb
Drill Collar:	Length: 120.00 ft	Diameter: 2.25 inches	Volume: 0.59 bbl	Weight to Pull Loose:	70000.00 lb
			<u>Total Volume: 59.36 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	2.75 ft			String Weight: Initial	63000.00 lb
Depth to Top Packer:	4165.00 ft			Final	63000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	90.00 ft				
Tool Length:	118.75 ft				
Number of Packers:	2	Diameter: 6.75 inches			

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut-in tool	5.00			4141.25	
Hydraulic tool	5.00			4146.25	
Change over sub	0.75			4147.00	
Jars	6.00			4153.00	
Safety Joint	2.00			4155.00	
Packer	5.00			4160.00	28.75 Bottom Of Top Packer
Packer	5.00			4165.00	
Anchor	5.00			4170.00	
change over sub	0.75			4170.75	
drill pipe	63.50			4234.25	
change over sub	0.75			4235.00	
anchor	15.00			4250.00	
Recorder	1.00	6651	Inside	4251.00	
Recorder	1.00	6666	Outside	4252.00	
bull plug	3.00			4255.00	90.00 Bottom Packers & Anchor

Total Tool Length: 118.75



DRILL STEM TEST REPORT

FLUID SUMMARY

MULL DRILLING COMPANY INC
1700 N WATERFRONT PKWY BLDG 1200
WICHITA KS 67206
ATTN: KEVIN KESSLER

JLT 1-10
10-15S-27W
Job Ticket: 1003 **DST#: 6**
Test Start: 2011.03.09 @ 17:00:00

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:	56.00 sec/qt	Cushion Volume:	bbbl		
Water Loss:	7.20 in ³	Gas Cushion Type:			
Resistivity:	ohm.m	Gas Cushion Pressure:	psig		
Salinity:	4600.00 ppm				
Filter Cake:	inches				

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
10.00	MUD 100%MUD	0.049

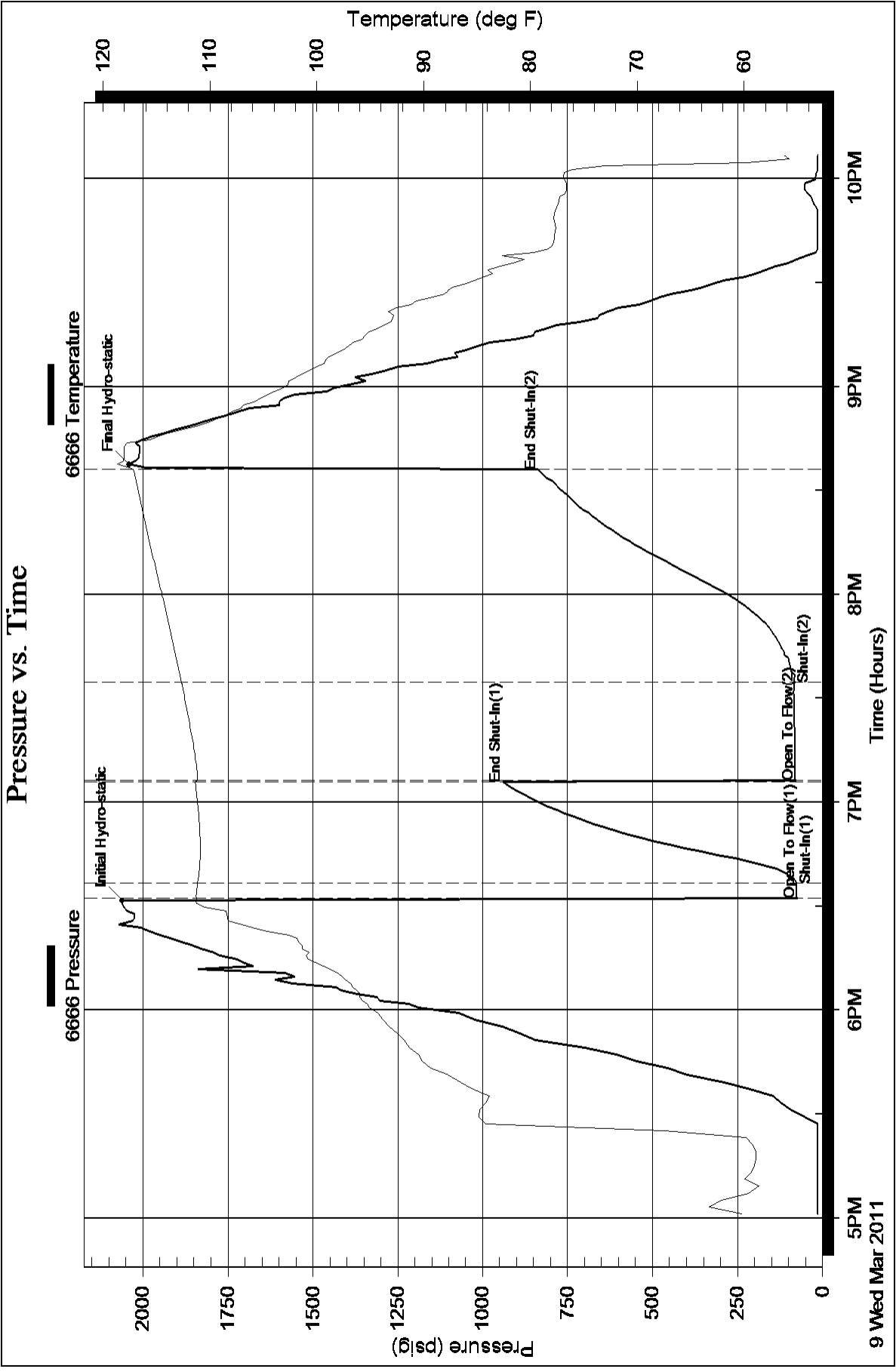
Total Length: 10.00 ft Total Volume: 0.049 bbl

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

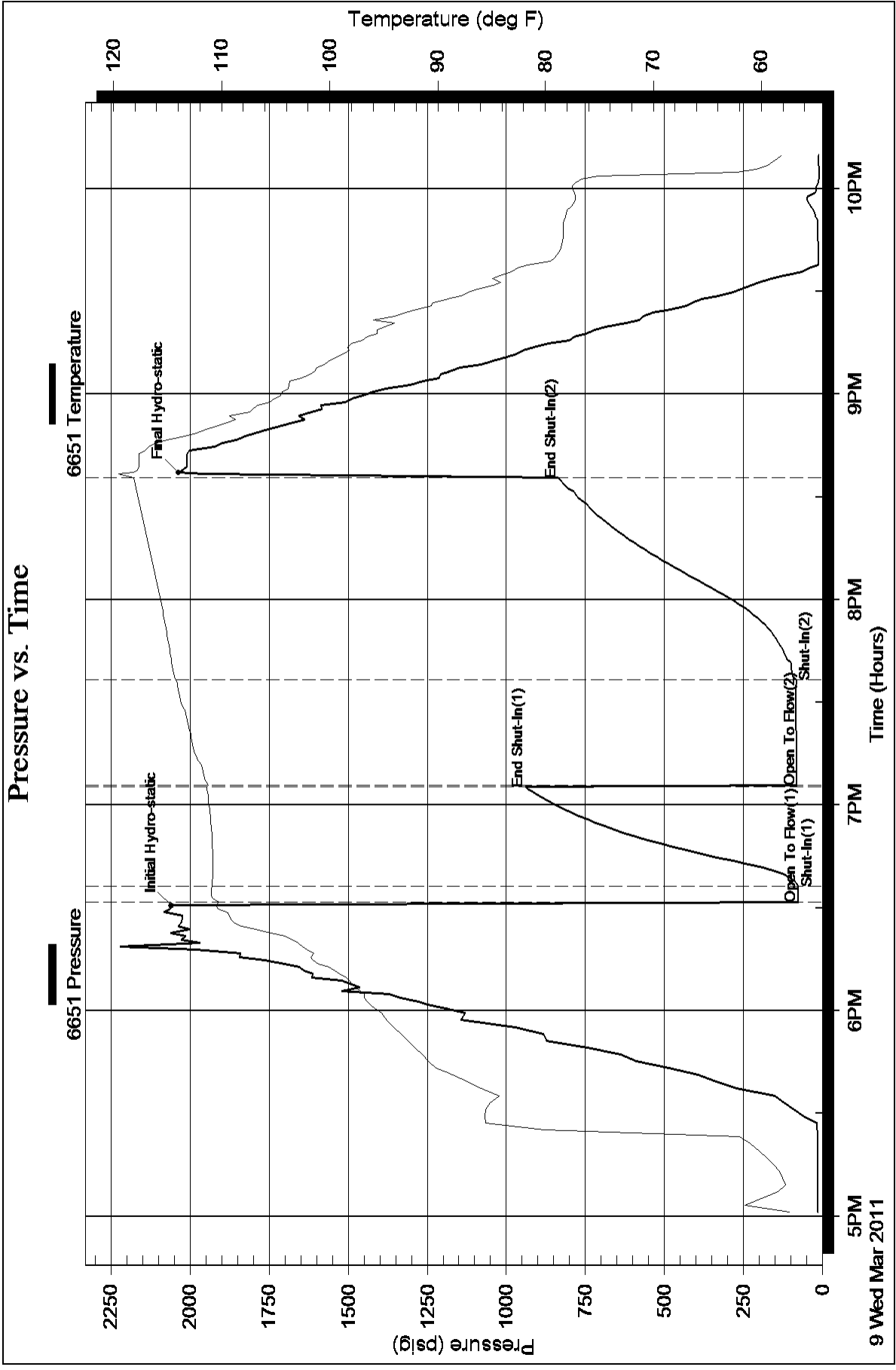
Laboratory Name: Laboratory Location:

Recovery Comments:

Pressure vs. Time



Pressure vs. Time





DRILL STEM TEST REPORT

Prepared For: **MULL DRILLING COMPANY INC**

1700 N WATERFRONT PKWY BLDG 1200
WICHITA KS 67206

ATTN: KEVIN KESSLER

10-15S-27W

JLT 1-10

Start Date: 2011.03.10 @ 06:00:00

End Date: 2011.03.10 @ 13:08:00

Job Ticket #: 1004 DST #: 7

Eagle Testers LLC.

P.O.Box 1011, Great Bend, KS 67530

620-617-7548

Printed: 2011.03.10 @ 06:56:35

MULL DRILLING COMPANY INC
JLT 1-10
10-15S-27W
DST # 7
MISS
2011.03.10



DRILL STEM TEST REPORT

MULL DRILLING COMPANY INC

JLT 1-10

1700 N WATERFRONT PKWY BLDG 1200
WICHITA KS 67206

10-15S-27W

Job Ticket: 1004

DST#: 7

ATTN: KEVIN KESSLER

Test Start: 2011.03.10 @ 06:00:00

GENERAL INFORMATION:

Formation: **MISS**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 08:04:00

Time Test Ended: 13:08:00

Test Type: Conventional Bottom Hole (Initial)

Tester: DAVID NICHOLS

Unit No: 15 53 MRT DIGTION

Interval: 4255.00 ft (KB) To 4270.00 ft (KB) (TVD)

Reference Elevations: 2440.00 ft (KB)

Total Depth: 4270.00 ft (KB) (TVD)

2434.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 6.00 ft

Serial #: 6666 Outside

Press @ RunDepth: 42.72 psig @ 4267.00 ft (KB)

Capacity: 5000.00 psig

Start Date: 2011.03.10

End Date: 2011.03.10

Last Calib.: 2011.03.10

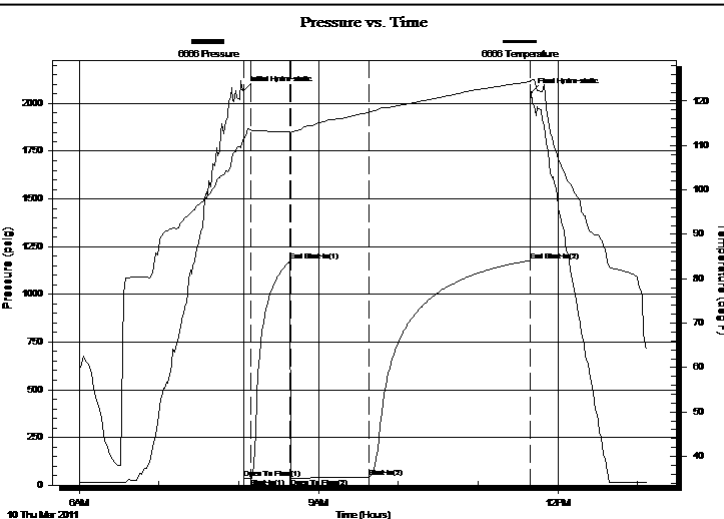
Start Time: 06:00:00

End Time: 13:08:00

Time On Btm: 2011.03.10 @ 08:03:30

Time Off Btm: 2011.03.10 @ 11:40:00

TEST COMMENT: 5-INITIAL OPENING WEAK SURFACE BLOW
30-INITIAL SHUT IN NO BLOW BACK
60-FINAL OPENING VERY WEAK SURFACE BLOW DIED AFTER 8 MINS
120-FINAL SHUT IN NO BLOW BACK



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2070.05	111.71	Initial Hydro-static
1	34.29	111.22	Open To Flow (1)
6	35.05	113.48	Shut-In(1)
35	1172.78	113.15	End Shut-In(1)
36	36.13	112.76	Open To Flow (2)
95	42.72	117.52	Shut-In(2)
216	1177.81	124.41	End Shut-In(2)
217	2056.16	124.64	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
10.00	MUD WITH A GOOD SHOW OF OIL 100%	0.05

Gas Rates

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



DRILL STEM TEST REPORT

MULL DRILLING COMPANY INC

JLT 1-10

1700 N WATERFRONT PKWY BLDG 1200
WICHITA KS 67206

10-15S-27W

Job Ticket: 1004

DST#: 7

ATTN: KEVIN KESSLER

Test Start: 2011.03.10 @ 06:00:00

GENERAL INFORMATION:

Formation: **MISS**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 08:04:00

Time Test Ended: 13:08:00

Test Type: Conventional Bottom Hole (Initial)

Tester: DAVID NICHOLS

Unit No: 15 53 MRT DIGTION

Interval: 4255.00 ft (KB) To 4270.00 ft (KB) (TVD)

Reference Elevations: 2440.00 ft (KB)

Total Depth: 4270.00 ft (KB) (TVD)

2434.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 6.00 ft

Serial #: 6651

Inside

Press @ Run Depth: 1180.13 psig @ 4266.00 ft (KB)

Capacity: 5000.00 psig

Start Date: 2011.03.10

End Date: 2011.03.10

Last Calib.: 2011.03.10

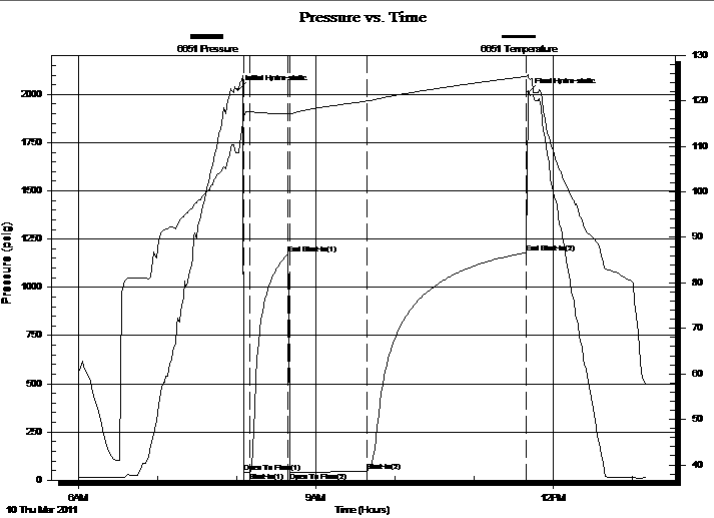
Start Time: 06:00:00

End Time: 13:11:00

Time On Btm: 2011.03.10 @ 08:01:30

Time Off Btm: 2011.03.10 @ 11:41:00

TEST COMMENT: 5-INITIAL OPENING WEAK SURFACE BLOW
30-INITIAL SHUT IN NO BLOW BACK
60-FINAL OPENING VERY WEAK SURFACE BLOW DIED AFTER 8 MINS
120-FINAL SHUT IN NO BLOW BACK



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2023.71	108.69	Initial Hydro-static
4	38.62	115.74	Open To Flow (1)
8	38.35	117.69	Shut-In(1)
38	1172.25	117.22	End Shut-In(1)
39	39.84	116.94	Open To Flow (2)
97	45.06	119.97	Shut-In(2)
219	1180.13	125.42	End Shut-In(2)
220	2010.29	125.31	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
10.00	MUD WITH A GOOD SHOW OF OIL 100%	0.05

Gas Rates

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



DRILL STEM TEST REPORT

TOOL DIAGRAM

MULL DRILLING COMPANY INC
 1700 N WATERFRONT PKWY BLDG 1200
 WICHITA KS 67206
 ATTN: KEVIN KESSLER

JLT 1-10
10-15S-27W
 Job Ticket: 1004 **DST#: 7**
 Test Start: 2011.03.10 @ 06:00:00

Tool Information

Drill Pipe:	Length: 4109.00 ft	Diameter: 3.88 inches	Volume: 60.09 bbl	Tool Weight:	2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer:	20000.00 lb
Drill Collar:	Length: 120.00 ft	Diameter: 2.25 inches	Volume: 0.59 bbl	Weight to Pull Loose:	70000.00 lb
			<u>Total Volume: 60.68 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	2.75 ft			String Weight: Initial	63000.00 lb
Depth to Top Packer:	4255.00 ft			Final	63000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	15.00 ft				
Tool Length:	43.75 ft				
Number of Packers:	2	Diameter:	6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut-in tool	5.00			4231.25	
Hydraulic tool	5.00			4236.25	
Change over sub	0.75			4237.00	
Jars	6.00			4243.00	
Safety Joint	2.00			4245.00	
Packer	5.00			4250.00	28.75 Bottom Of Top Packer
Packer	5.00			4255.00	
Anchor	10.00			4265.00	
Recorder	1.00	6651	Inside	4266.00	
Recorder	1.00	6666	Outside	4267.00	
Bull plug	3.00			4270.00	15.00 Bottom Packers & Anchor

Total Tool Length: 43.75



DRILL STEM TEST REPORT

FLUID SUMMARY

MULL DRILLING COMPANY INC
1700 N WATERFRONT PKWY BLDG 1200
WICHITA KS 67206
ATTN: KEVIN KESSLER

JLT 1-10
10-15S-27W
Job Ticket: 1004 **DST#: 7**
Test Start: 2011.03.10 @ 06:00:00

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: 56.00 sec/qt	Cushion Volume: bbl		
Water Loss: 7.20 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 4600.00 ppm			
Filter Cake: inches			

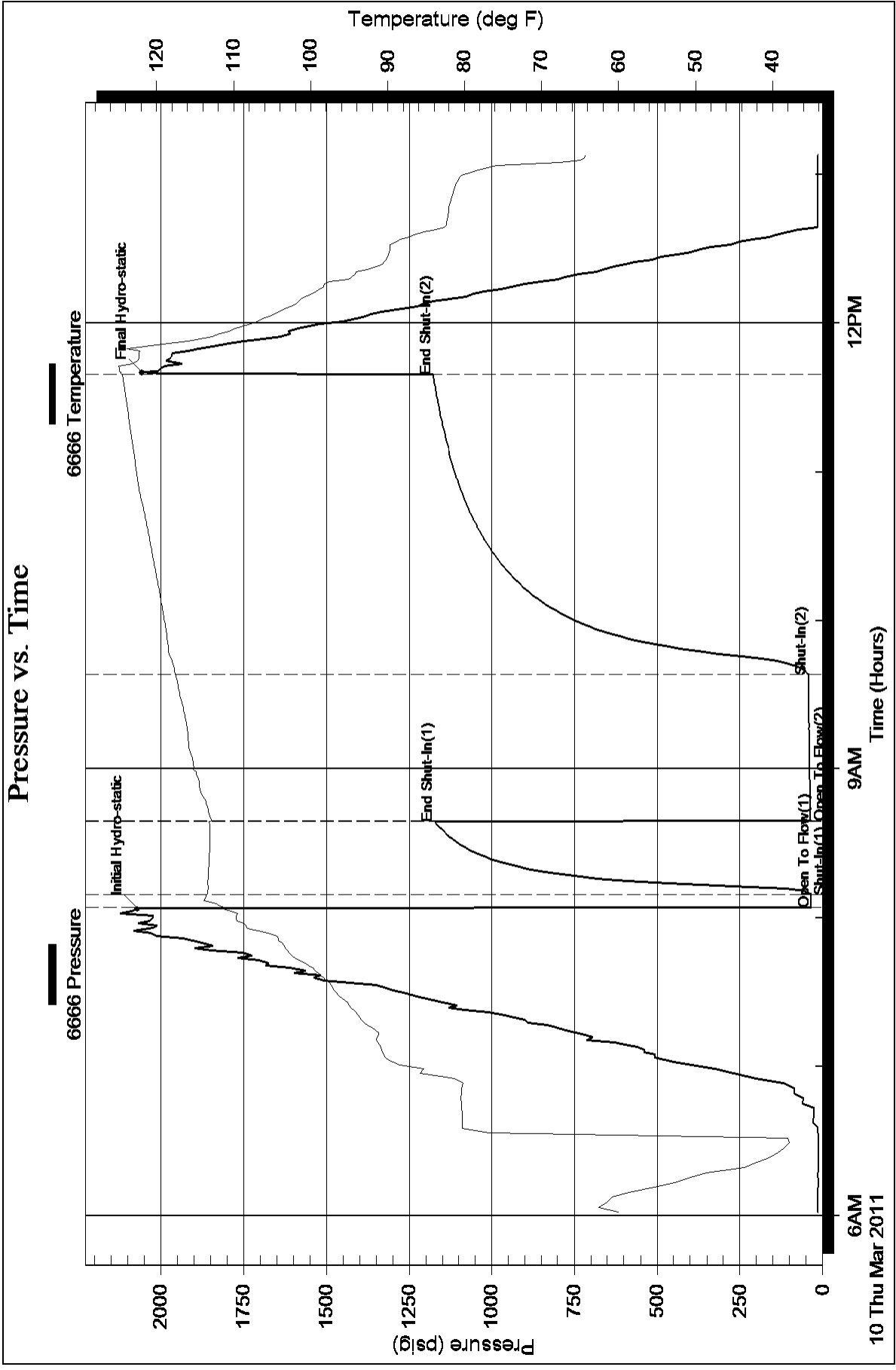
Recovery Information

Recovery Table

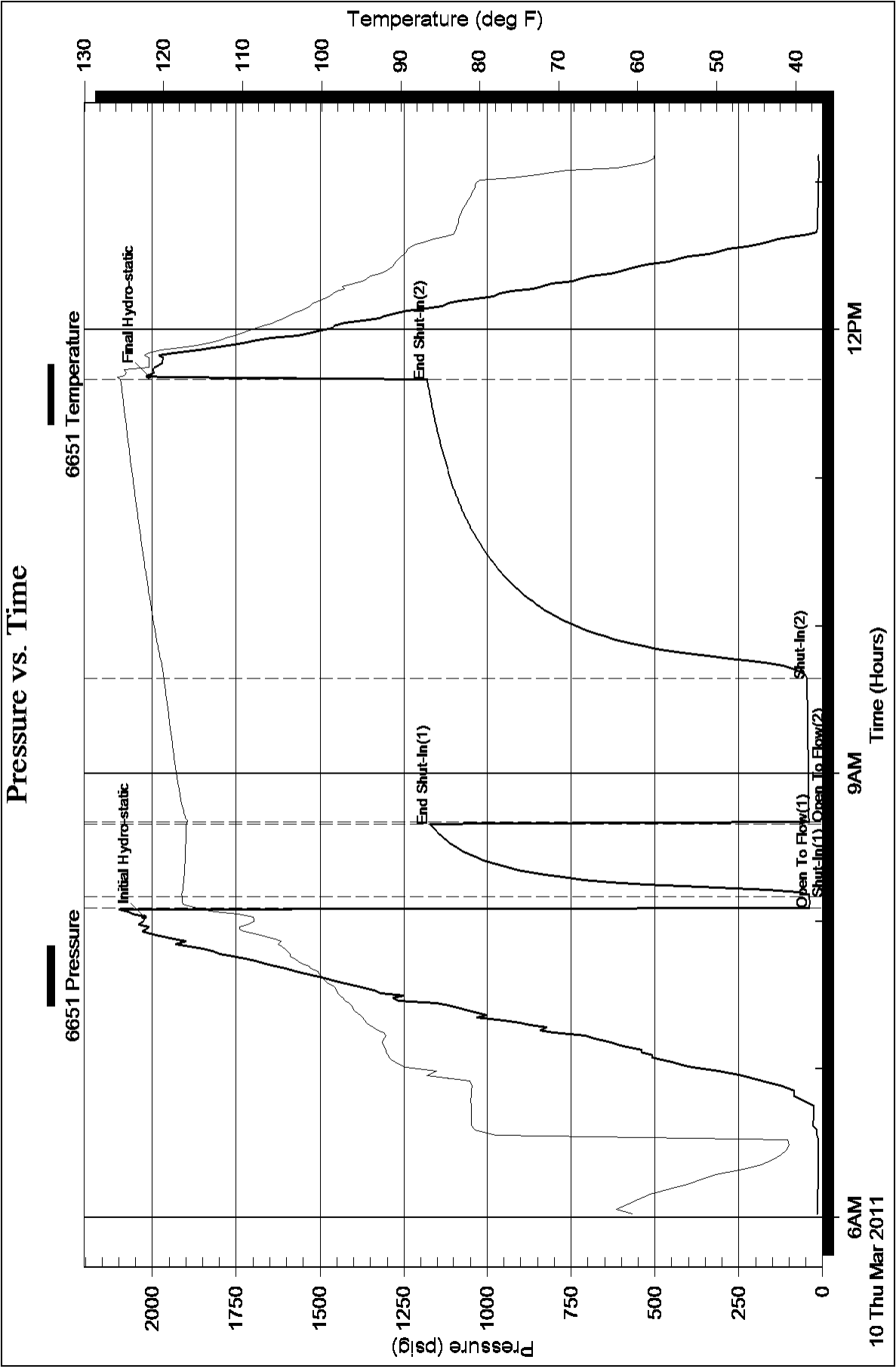
Length ft	Description	Volume bbl
10.00	MUD WITH A GOOD SHOW OF OIL 100%M	0.049

Total Length: 10.00 ft Total Volume: 0.049 bbl
Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
Laboratory Name: Laboratory Location:
Recovery Comments:

Pressure vs. Time



Pressure vs. Time





DRILL STEM TEST REPORT

Prepared For: **MULL DRILLING COMPANY INC**

1700 N WATERFRONT PKWY BLDG 1200
WICHITA KS 67206

ATTN: KEVIN KESSLER

10-15S-27W

JLT 1-10

Start Date: 2011.03.10 @ 18:00:00

End Date: 2011.03.11 @ 00:45:00

Job Ticket #: 1005 DST #: 8

Eagle Testers LLC.

P.O.Box 1011, Great Bend, KS 67530

620-617-7548

Printed: 2011.03.10 @ 18:45:34

MULL DRILLING COMPANY INC
JLT 1-10
10-15S-27W
DST # 8
MISS
2011.03.10



DRILL STEM TEST REPORT

MULL DRILLING COMPANY INC

JLT 1-10

1700 N WATERFRONT PKWY BLDG 1200
WICHITA KS 67206

10-15S-27W

ATTN: KEVIN KESSLER

Job Ticket: 1005

DST#: 8

Test Start: 2011.03.10 @ 18:00:00

GENERAL INFORMATION:

Formation: **MISS**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 19:31:30

Time Test Ended: 00:45:00

Test Type: Conventional Bottom Hole (Initial)

Tester: DAVID NICHOLS

Unit No: 15 53 MRT DIGTION

Interval: 4270.00 ft (KB) To 4280.00 ft (KB) (TVD)

Reference Elevations: 2440.00 ft (KB)

Total Depth: 4280.00 ft (KB) (TVD)

2434.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 6.00 ft

Serial #: 6666 Outside

Press @ RunDepth: 88.79 psig @ 4277.00 ft (KB)

Capacity: 5000.00 psig

Start Date: 2011.03.10

End Date:

2011.03.11

Last Calib.: 2011.03.10

Start Time: 18:00:00

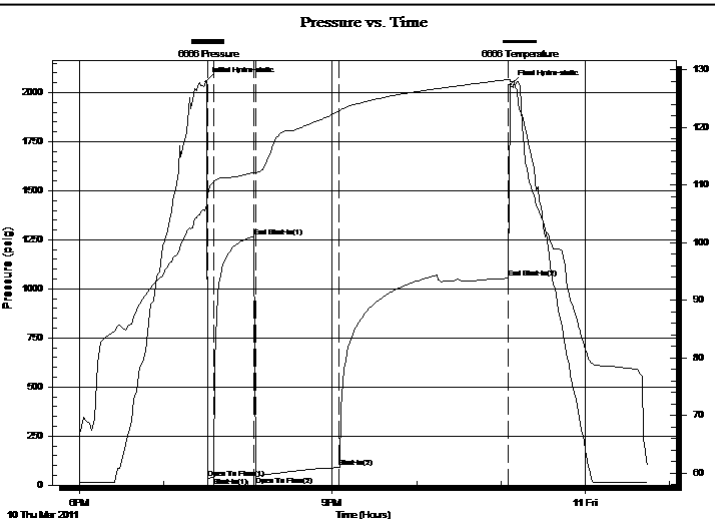
End Time:

00:45:00

Time On Btm: 2011.03.10 @ 19:30:00

Time Off Btm: 2011.03.10 @ 23:07:00

TEST COMMENT: 5-INITIAL OPENING SURFACE BLOW
30-INITIAL SHUT IN NO BLOW BACK
60-FINAL OPENING SURFACE BLOW
120-FINAL SHUT IN NO BLOW BACK



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2054.93	105.82	Initial Hydro-static
2	33.53	108.45	Open To Flow (1)
6	41.26	110.42	Shut-In(1)
35	1267.25	112.27	End Shut-In(1)
36	43.63	112.02	Open To Flow (2)
95	88.79	122.83	Shut-In(2)
216	1053.63	128.32	End Shut-In(2)
217	2039.52	127.93	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
145.00	MUDDY WATER 70%WATER30%MUD	0.96

Gas Rates

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



DRILL STEM TEST REPORT

MULL DRILLING COMPANY INC

JLT 1-10

1700 N WATERFRONT PKWY BLDG 1200
WICHITA KS 67206

10-15S-27W

ATTN: KEVIN KESSLER

Job Ticket: 1005

DST#: 8

Test Start: 2011.03.10 @ 18:00:00

GENERAL INFORMATION:

Formation: **MISS**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 19:31:30

Time Test Ended: 00:45:00

Test Type: Conventional Bottom Hole (Initial)

Tester: DAVID NICHOLS

Unit No: 15 53 MRT DIGTION

Interval: 4270.00 ft (KB) To 4280.00 ft (KB) (TVD)

Total Depth: 4280.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 2440.00 ft (KB)

2434.00 ft (CF)

KB to GR/CF: 6.00 ft

Serial #: 6651

Inside

Press @ RunDepth: 1056.42 psig @ 4276.00 ft (KB)

Start Date: 2011.03.10

End Date:

2011.03.11

Start Time: 18:00:00

End Time:

00:46:30

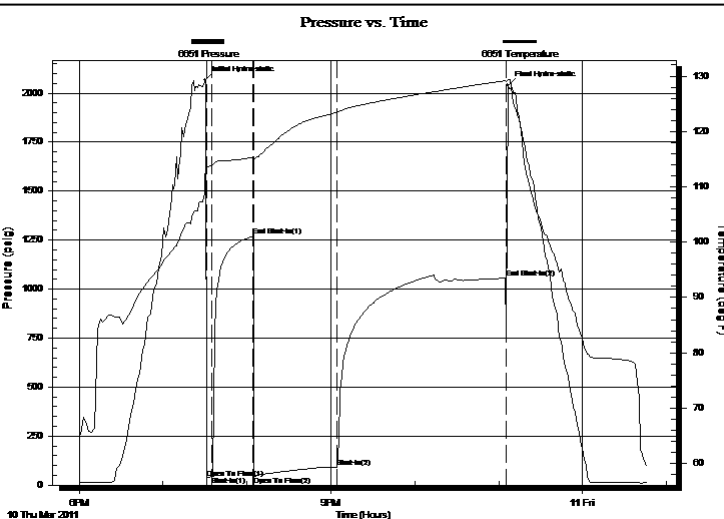
Capacity: 5000.00 psig

Last Calib.: 2011.03.10

Time On Btm: 2011.03.10 @ 19:30:00

Time Off Btm: 2011.03.10 @ 23:06:30

TEST COMMENT: 5-INITIAL OPENING SURFACE BLOW
30-INITIAL SHUT IN NO BLOW BACK
60-FINAL OPENING SURFACE BLOW
120-FINAL SHUT IN NO BLOW BACK



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2065.72	111.43	Initial Hydro-static
1	37.14	113.24	Open To Flow (1)
5	43.87	113.90	Shut-In(1)
34	1269.07	115.31	End Shut-In(1)
35	47.16	115.03	Open To Flow (2)
95	92.32	123.46	Shut-In(2)
215	1056.42	129.18	End Shut-In(2)
217	2039.98	129.27	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
145.00	MUDDY WATER 70%WATER30%MUD	0.96

Gas Rates

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



DRILL STEM TEST REPORT

TOOL DIAGRAM

MULL DRILLING COMPANY INC
 1700 N WATERFRONT PKWY BLDG 1200
 WICHITA KS 67206
 ATTN: KEVIN KESSLER

JLT 1-10
10-15S-27W
 Job Ticket: 1005 **DST#: 8**
 Test Start: 2011.03.10 @ 18:00:00

Tool Information

Drill Pipe:	Length: 4124.00 ft	Diameter: 3.88 inches	Volume: 60.31 bbl	Tool Weight:	2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer:	20000.00 lb
Drill Collar:	Length: 120.00 ft	Diameter: 2.25 inches	Volume: 0.59 bbl	Weight to Pull Loose:	77000.00 lb
			<u>Total Volume: 60.90 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	2.75 ft			String Weight: Initial	64000.00 lb
Depth to Top Packer:	4270.00 ft			Final	64000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	10.00 ft				
Tool Length:	38.75 ft				
Number of Packers:	2	Diameter: 6.75 inches			

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut-in tool	5.00			4246.25	
Hydraulic tool	5.00			4251.25	
Change over sub	0.75			4252.00	
Jars	6.00			4258.00	
Safety Joint	2.00			4260.00	
Packer	5.00			4265.00	28.75 Bottom Of Top Packer
Packer	5.00			4270.00	
Anchor	5.00			4275.00	
Recorder	1.00	6651	Inside	4276.00	
Recorder	1.00	6666	Outside	4277.00	
Bull plug	3.00			4280.00	10.00 Bottom Packers & Anchor

Total Tool Length: 38.75



DRILL STEM TEST REPORT

FLUID SUMMARY

MULL DRILLING COMPANY INC
1700 N WATERFRONT PKWY BLDG 1200
WICHITA KS 67206
ATTN: KEVIN KESSLER

JLT 1-10
10-15S-27W
Job Ticket: 1005 **DST#: 8**
Test Start: 2011.03.10 @ 18:00:00

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: 56.00 sec/qt	Cushion Volume: bbl		
Water Loss: 7.20 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 4600.00 ppm			
Filter Cake: inches			

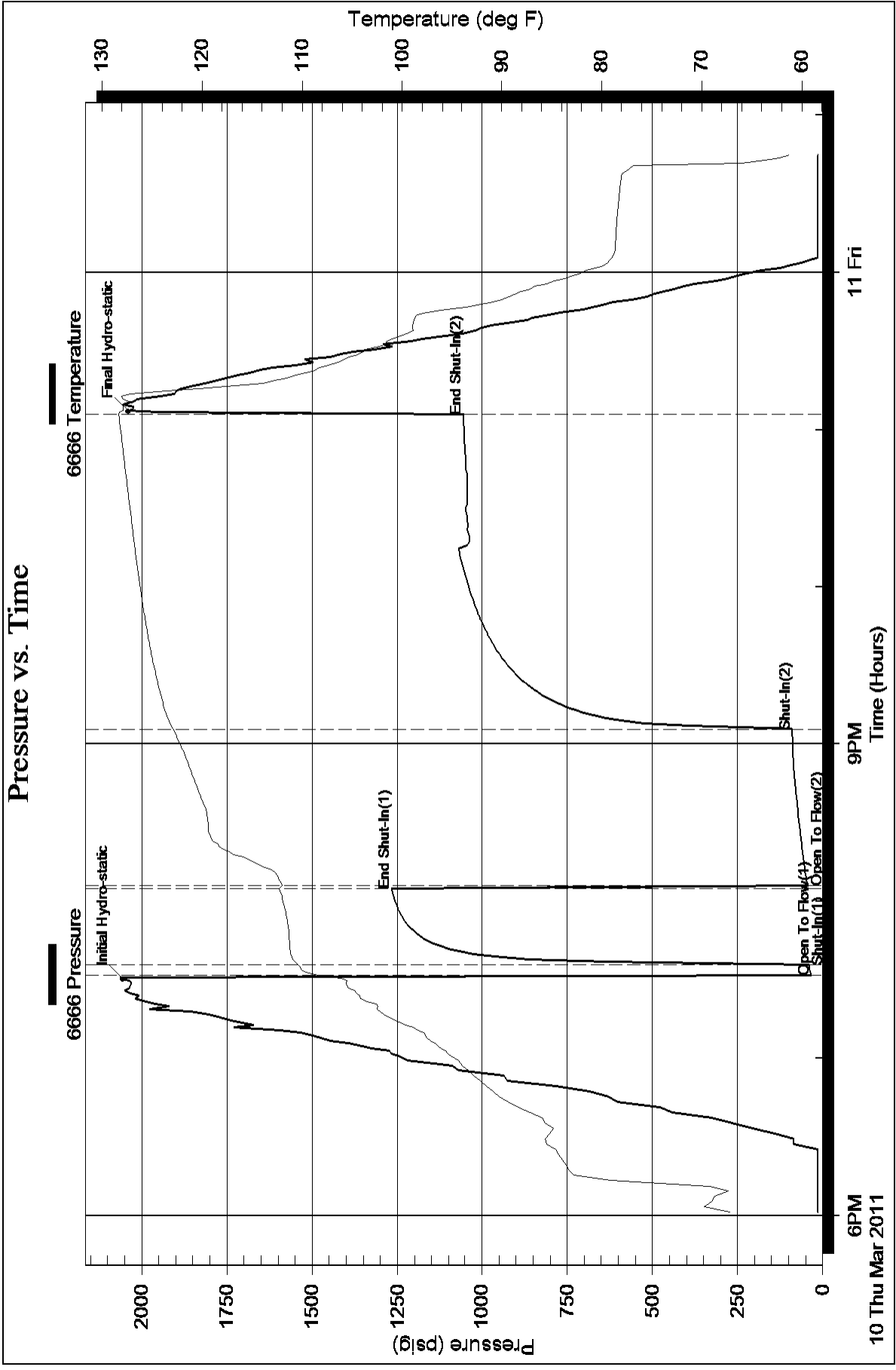
Recovery Information

Recovery Table

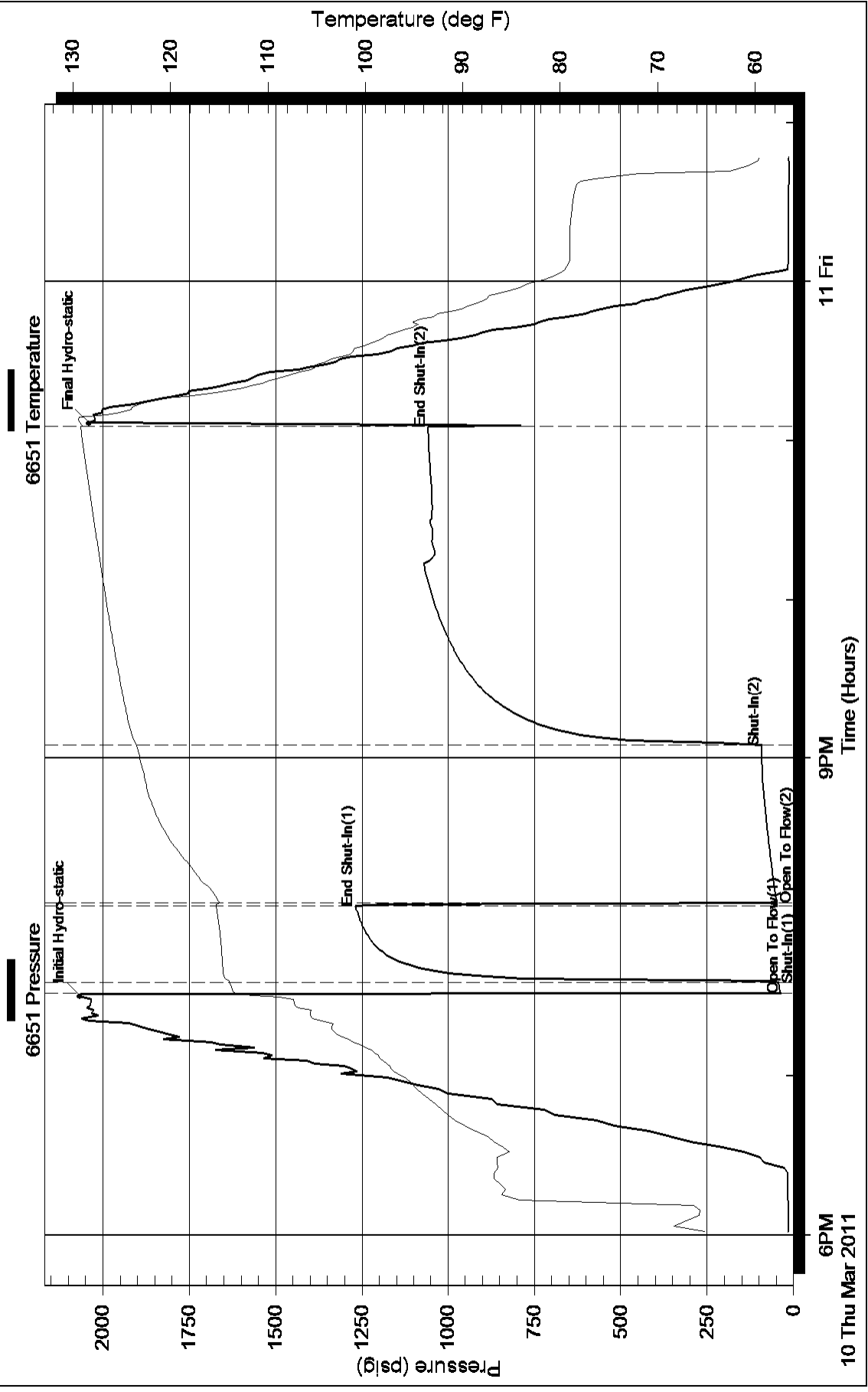
Length ft	Description	Volume bbl
145.00	MUDDY WATER 70%WATER30%MUD	0.956

Total Length: 145.00 ft Total Volume: 0.956 bbl
Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
Laboratory Name: Laboratory Location:
Recovery Comments:

Pressure vs. Time



Pressure vs. Time





CONSOLIDATED
Oil Well Services, LLC

PO Box 884, Chanute, KS 66720
620-431-9210 or 800-467-8676

TICKET NUMBER 30809
LOCATION Oakley, ks
FOREMAN Pat Heisler

FIELD TICKET & TREATMENT REPORT
CEMENT

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY
3-2-11		JLT 1-10	10	15 ^s	27 ^w	Goove
CUSTOMER Mull Drlg Co.						
MAILING ADDRESS						
CITY		STATE	ZIP CODE			
		TRUCK #		DRIVER	TRUCK #	DRIVER
		#463		Miles Shaw		
		#439		Calin		

JOB TYPE Surface - 0 HOLE SIZE 12 1/4 HOLE DEPTH 234' CASING SIZE & WEIGHT 8 5/8 - 23#
 CASING DEPTH 233' DRILL PIPE _____ TUBING _____ OTHER _____
 SLURRY WEIGHT 15.2 SLURRY VOL _____ WATER gal/sk _____ CEMENT LEFT in CASING 15'-20'
 DISPLACEMENT 13 3/4 BBL DISPLACEMENT PSI _____ MIX PSI _____ RATE 5 BPM

REMARKS: Safety meeting, Rig up to casing to circ, mixed 165 sks com
3% CC - 2% Cal, Displace 13 3/4 BBL H₂O @ 150#, Shut in
Cement Did Circ

*Thank You
Pat & crew*

ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
54015		PUMP CHARGE	1,025 ⁰⁰	1,025 ⁰⁰
5406	40	MILEAGE	5 ⁰⁰	200 ⁰⁰
1104S	165 sks	Class A Cement	16 ⁸⁰	2772 ⁰⁰
1102	465 #	Calcium Chloride	184	390 ⁶⁰
1118B	310 #	Bentonite	124	74 ⁴⁰
5407A	7.75	ton mileage Delivery	158	490 ⁰⁰
				4,952 ⁰⁰
		Less 20% Disc		- 990 ⁴⁰
				3,961 ⁶⁰
			SALES TAX	
			ESTIMATED TOTAL	

Ravin 3737 AUTHORIZATION [Signature] TITLE _____ DATE _____

I acknowledge that the payment terms, unless specifically amended in writing on the front of the form or in the customer's account records, at our office, and conditions of service on the back of this form are in effect for services identified on this form

KEVIN L. KESSLER
CONSULTING PETROLEUM GEOLOGIST
(316) 522-7338

OPERATOR : MULL DRILLING COMPANY INC.
LEASE : JLT WELL # : 1 - 10
LOCATION : 2201' FNL & 1742' FEL
SEC: 10 TWP : 15 S RGE : 27 W
COUNTY : GOVE STATE : KANSAS

ELEVATION
KB : 2439
GL : 2434
MEASUREMENTS FROM
KB

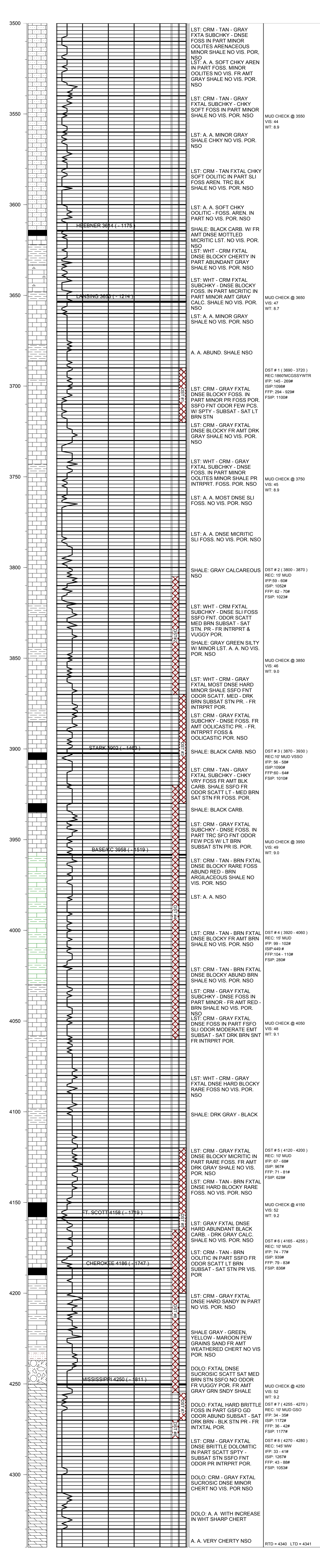
CONTRACTOR : W W RIG # 10
COMM : 03 / 01 / 2011 **COMP : 03 / 11 / 2011**
RTD : 4340 **LOG TD : 4341**
SAMPLES SAVED FROM : 3500 **TO : RTD**
GEOLOGICAL SUPERVISION FROM : 3500 **TO : RTD**
MUD UP : 3400 **TYPE MUD : CHEMICAL**

CASING RECORD
SURFACE :
8 5/8 @ 234'
PRODUCTION :
NONE

FORMATION	TOP	LOG	DATUM	TOP	SAMPLE	DATUM	STRUCT. COMP.
HEEBNER	3614		- 1175	3614		- 1175	- 08
LANSING	3653		- 1214	3653		- 1214	- 08
STARK	3902		- 1463	3902		- 1463	- 11
B/ KC	3958		- 1519	3958		- 1519	- 16
FT SCOTT	4158		- 1719	4158		- 1719	- 10
CHEROKEE	4186		- 1747	4186		- 1747	- 13
MISSISSIPPI	4250		- 1811	4250		- 1811	- 15

ELECTRICAL SURVEYS:
DIL
CNL / CDL
MICRO
SONIC

REFERENCE WELL FOR STRUCTURAL COMPARISON :
DONAL C. SLAWSON #1 JONES AF SEC 10 - T 15S - R 27W GOVE COUNTY KANSAS



COMMENTS:
DUE TO NEGATIVE DST RESULTS THIS WELL WAS
PLUGGED AS DRY & ABANDONED
KEVIN L. KESSLER