



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Murfin Drilling Co., Inc.
250 N. Water Suite 300
Wichita, KS 67202
ATTN: Rocky Milford

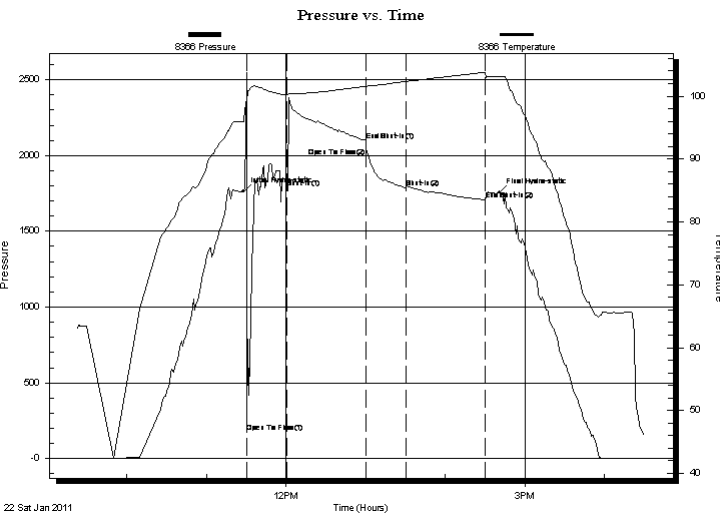
Faith #1-7
7/2s/29w Decatur KS
Job Ticket: 040784 **DST#: 1**
Test Start: 2011.01.22 @ 09:23:00

GENERAL INFORMATION:

Formation: **Lans. "A"**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 11:30:30
Time Test Ended: 16:31:00
Interval: **3781.00 ft (KB) To 3792.00 ft (KB) (TVD)**
Total Depth: 3792.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair
Reference Elevations: 2798.00 ft (KB)
2793.00 ft (CF)
KB to GR/CF: 5.00 ft
Test Type: Conventional Bottom Hole
Tester: James Winder
Unit No: 46

Serial #: 8366 Inside
Press @ Run Depth: 1784.94 psig @ 3782.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2011.01.22 End Date: 2011.01.22 Last Calib.: 2011.01.22
Start Time: 09:23:05 End Time: 16:30:59 Time On Btm: 2011.01.22 @ 11:28:00
Time Off Btm: 2011.01.22 @ 14:40:45

TEST COMMENT: IF: 1" Blow at open, built to 1 1/4", from 12 min - 30 min., died back to 1"+
IS: Bled off, No blow back
FF: No blow
FS: No blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1761.45	95.90	Initial Hydro-static
3	176.08	99.08	Open To Flow (1)
33	1848.32	100.26	Shut-In(1)
93	2098.11	101.57	End Shut-In(1)
93	2051.81	101.56	Open To Flow (2)
123	1784.94	102.33	Shut-In(2)
183	1706.04	103.78	End Shut-In(2)
193	1756.18	103.15	Final Hydro-static

Recovery

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

Gas Rates

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



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FLUID SUMMARY

Murfin Drilling Co., Inc.

Faith #1-7

250 N. Water Suite 300
Wichita, KS 67202

7/2s/29w Decatur KS

Job Ticket: 040784

DST#: 1

ATTN: Rocky Milford

Test Start: 2011.01.22 @ 09:23:00

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: 67.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 5.97 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1200.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
10.00	Mud 100%	0.049

Total Length: 10.00 ft Total Volume: 0.049 bbl

Num Fluid Samples: 0

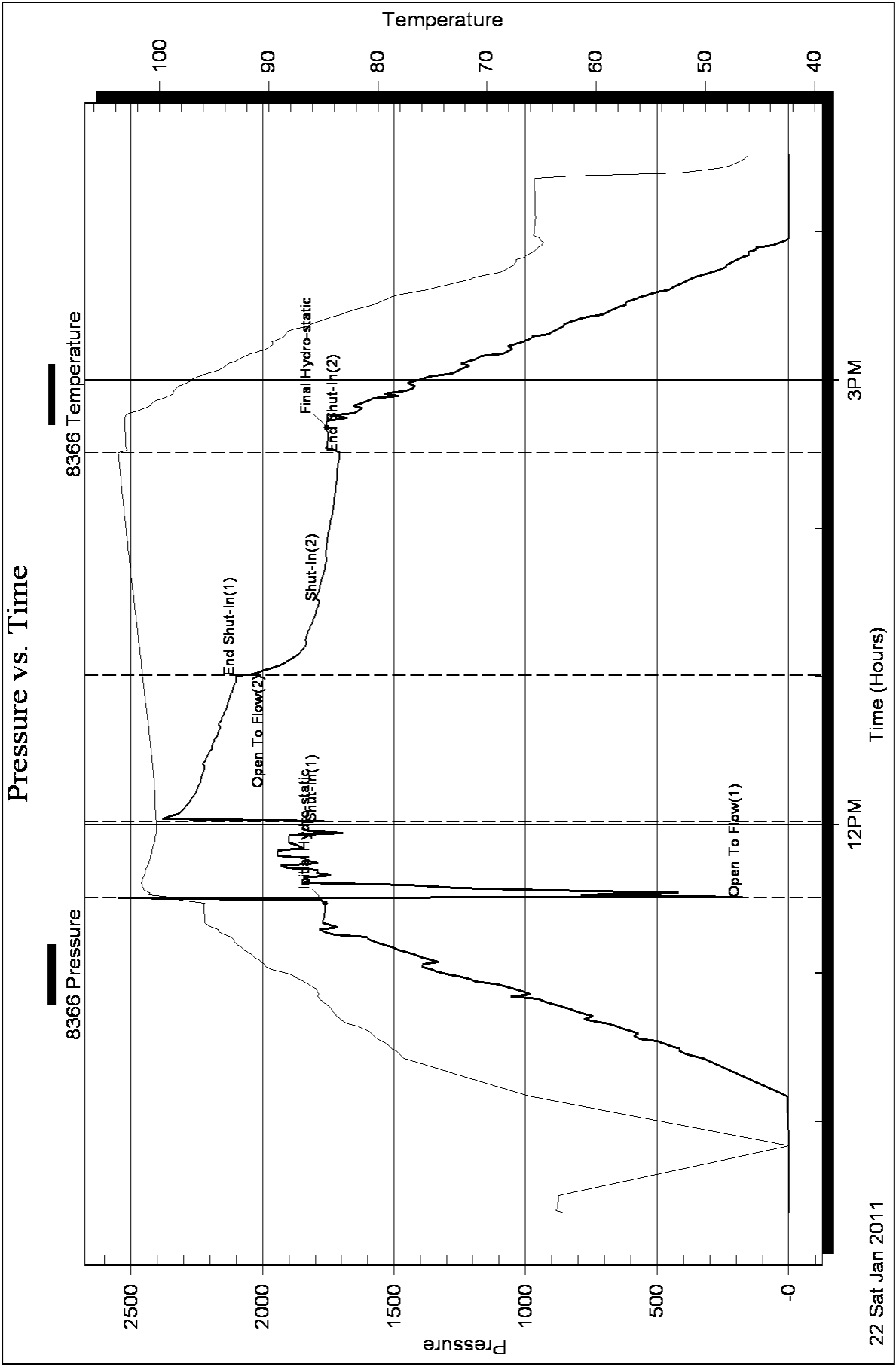
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: Had lost circulation after short trip - Carrying around 8# of LCM





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Faith #1-7
7/2s/29w Decatur KS
 Job Ticket: 040785 **DST#: 2**
 Test Start: 2011.01.23 @ 00:19:00

GENERAL INFORMATION:

Formation: **Lans. "A - D"**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 02:37:00
 Time Test Ended: 08:52:45
 Interval: **3781.00 ft (KB) To 3830.00 ft (KB) (TVD)**
 Total Depth: 3830.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole
 Tester: James Winder
 Unit No: 46
 Reference Elevations: 2798.00 ft (KB)
 2793.00 ft (CF)
 KB to GR/CF: 5.00 ft

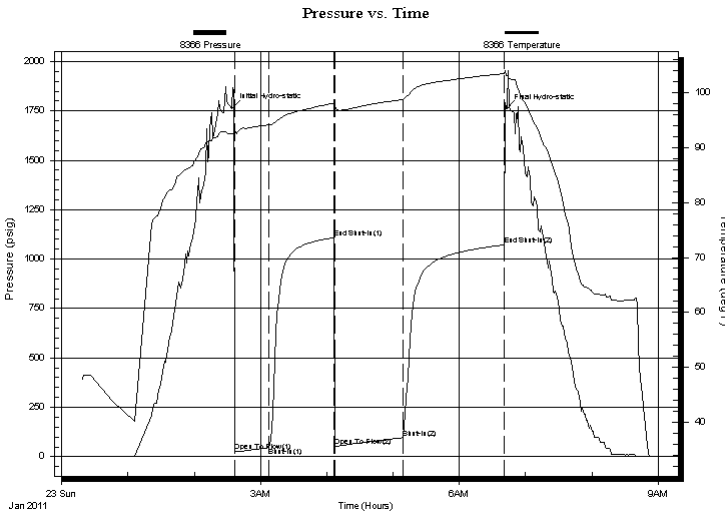
Serial #: 8366

Inside

Press @ Run Depth: 95.88 psig @ 3782.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2011.01.23 End Date: 2011.01.23 Last Calib.: 2011.01.23
 Start Time: 00:19:05 End Time: 08:52:45 Time On Btm: 2011.01.23 @ 02:34:30
 Time Off Btm: 2011.01.23 @ 06:43:00

TEST COMMENT: IF: Blow built to 8 3/4"
 IS: Bled off, No blow back
 FF: Blow built to BOB (11 1/2") in 32 min.
 FS: Bled off, Blow back built to 1"

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1766.45	92.58	Initial Hydro-static
3	24.90	92.41	Open To Flow (1)
34	46.18	94.15	Shut-In(1)
93	1107.52	98.12	End Shut-In(1)
93	53.55	97.73	Open To Flow (2)
155	95.88	98.77	Shut-In(2)
246	1071.89	103.49	End Shut-In(2)
249	1764.11	103.04	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
150.00	GMCO 58%o, 25%m, 17%g	0.74
45.00	CO 89%o, 6%m, 5%g	0.22
0.00	GIP = 345'	0.00

Gas Rates

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



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FLUID SUMMARY

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Faith #1-7

250 N. Water Suite 300
Wichita, KS 67202

7/2s/29w Decatur KS

Job Ticket: 040785

DST#: 2

ATTN: Rocky Milford

Test Start: 2011.01.23 @ 00:19:00

Mud and Cushion Information

Mud Type: Gel Chem
Mud Weight: 9.00 lb/gal
Viscosity: 57.00 sec/qt
Water Loss: 5.99 in³
Resistivity: ohm.m
Salinity: 1200.00 ppm
Filter Cake: 2.00 inches

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

Oil API: 32.6 deg API
Water Salinity: ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
150.00	GMCO 58%o, 25%m, 17%g	0.738
45.00	CO 89%o, 6%m, 5%g	0.221
0.00	GIP = 345'	0.000

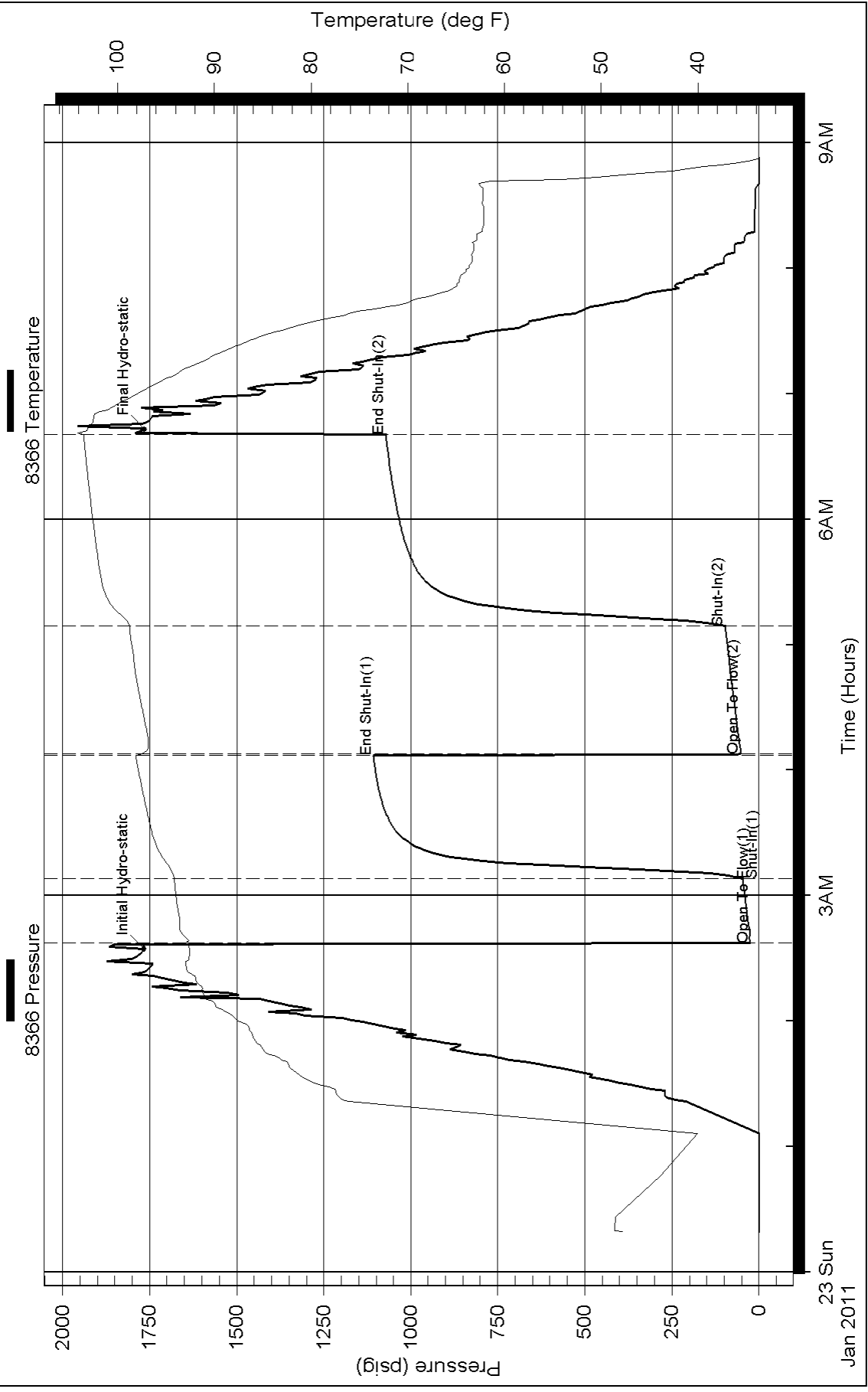
Total Length: 195.00 ft Total Volume: 0.959 bbl

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

Laboratory Name: Laboratory Location:

Recovery Comments: Gravity = 29.4 api @ 28 deg F
Corrected Gravity = 32.6 api

Pressure vs. Time





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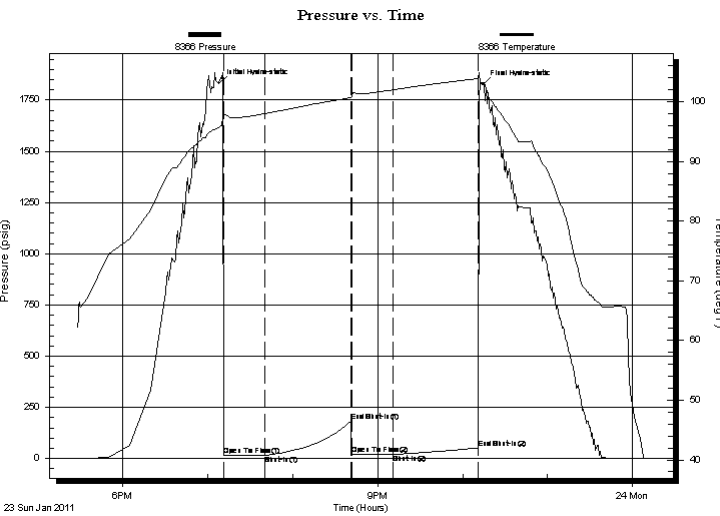
Faith #1-7
7/2s/29w Decatur KS
Job Ticket: 040786 **DST#: 3**
Test Start: 2011.01.23 @ 17:28:00

GENERAL INFORMATION:

Formation: **Lans. "G"**
Deviated: **No Whipstock:** ft (KB)
Time Tool Opened: 19:11:00
Time Test Ended: 00:08:45
Interval: 3833.00 ft (KB) To 3887.00 ft (KB) (TVD)
Total Depth: 3887.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair
Test Type: Conventional Bottom Hole
Tester: James Winder
Unit No: 46
Reference Elevations: 2798.00 ft (KB)
2793.00 ft (CF)
KB to GR/CF: 5.00 ft

Serial #: 8366 Inside
Press @ Run Depth: 21.03 psig @ 3834.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2011.01.23 End Date: 2011.01.24 Last Calib.: 2011.01.24
Start Time: 17:28:05 End Time: 00:08:44 Time On Btm: 2011.01.23 @ 19:08:00
Time Off Btm: 2011.01.23 @ 22:14:15

TEST COMMENT: IF: 1/4" Blow at open, built to 1"+, died back to 3/4" at close
IS: Bled off, No blow back
FF: No blow
FS: No blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1832.15	95.58	Initial Hydro-static
3	14.27	97.51	Open To Flow (1)
33	16.58	98.01	Shut-In(1)
94	184.59	100.68	End Shut-In(1)
94	19.57	100.81	Open To Flow (2)
123	21.03	101.99	Shut-In(2)
184	52.62	103.91	End Shut-In(2)
187	1827.12	103.14	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
5.00	Mud w /trace oil 100%m	0.02

Gas Rates

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



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DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co., Inc.

Faith #1-7

250 N. Water Suite 300
Wichita, KS 67202

7/2s/29w Decatur KS

Job Ticket: 040786

DST#: 3

ATTN: Rocky Milford

Test Start: 2011.01.23 @ 17:28:00

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: 57.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 5.99 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1200.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
5.00	Mud w /trace oil 100%m	0.025

Total Length: 5.00 ft Total Volume: 0.025 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

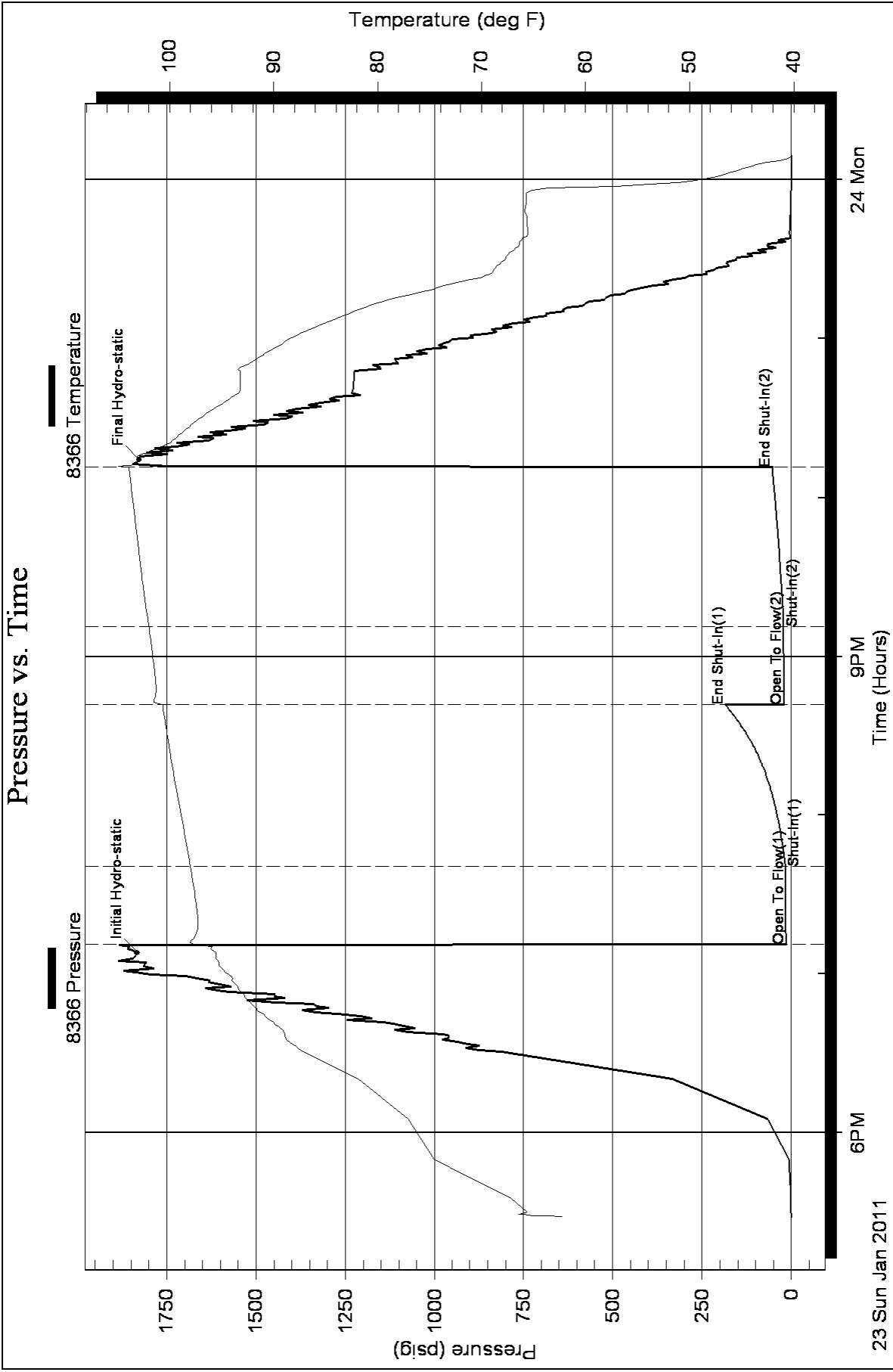
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time





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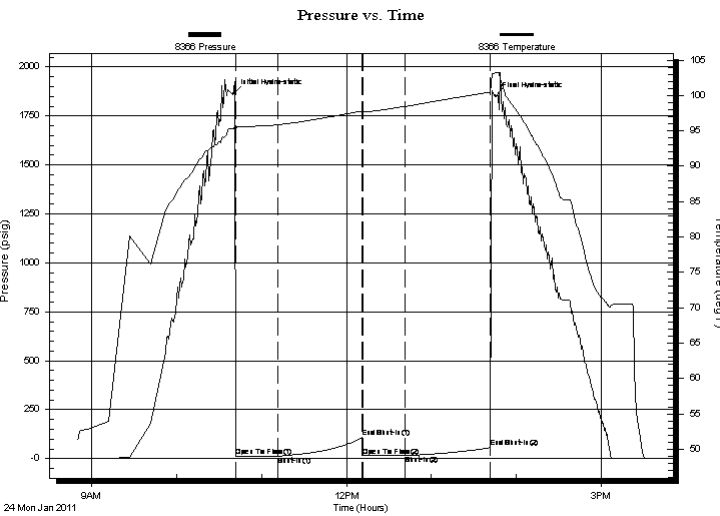
Faith #1-7
7/2s/29w Decatur KS
 Job Ticket: 040787 **DST#: 4**
 Test Start: 2011.01.24 @ 08:50:00

GENERAL INFORMATION:

Formation: **Lans. "H"**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 10:41:45
 Time Test Ended: 15:31:00
 Interval: **3881.00 ft (KB) To 3915.00 ft (KB) (TVD)**
 Total Depth: 3915.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole
 Tester: James Winder
 Unit No: 46
 Reference Elevations: 2798.00 ft (KB)
 2793.00 ft (CF)
 KB to GR/CF: 5.00 ft

Serial #: 8366 Inside
 Press @ Run Depth: 16.39 psig @ 3882.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2011.01.24 End Date: 2011.01.24 Last Calib.: 2011.01.24
 Start Time: 08:50:05 End Time: 15:30:59 Time On Btm: 2011.01.24 @ 10:40:00
 Time Off Btm: 2011.01.24 @ 13:45:00

TEST COMMENT: IF: Broken valve - fixed at 11 /12 min. : No blow after fixed
 IS: No blow back
 FF: No blow
 FS: No blow back



PRESSURE SUMMARY			
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1862.93	95.31	Initial Hydro-static
2	12.61	95.08	Open To Flow (1)
32	13.90	95.86	Shut-In(1)
91	108.82	97.81	End Shut-In(1)
92	14.65	97.76	Open To Flow (2)
122	16.39	98.46	Shut-In(2)
182	56.74	100.47	End Shut-In(2)
185	1850.89	103.17	Final Hydro-static

Recovery		
Length (ft)	Description	Volume (bbl)
5.00	Mud w /trace oil 100%m	0.02

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



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Murfin Drilling Co., Inc.

Faith #1-7

250 N. Water Suite 300
Wichita, KS 67202

7/2s/29w Decatur KS

Job Ticket: 040787

DST#: 4

ATTN: Rocky Milford

Test Start: 2011.01.24 @ 08:50:00

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: 60.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 5.97 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1000.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5.00	Mud w /trace oil 100%m	0.025

Total Length: 5.00 ft Total Volume: 0.025 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

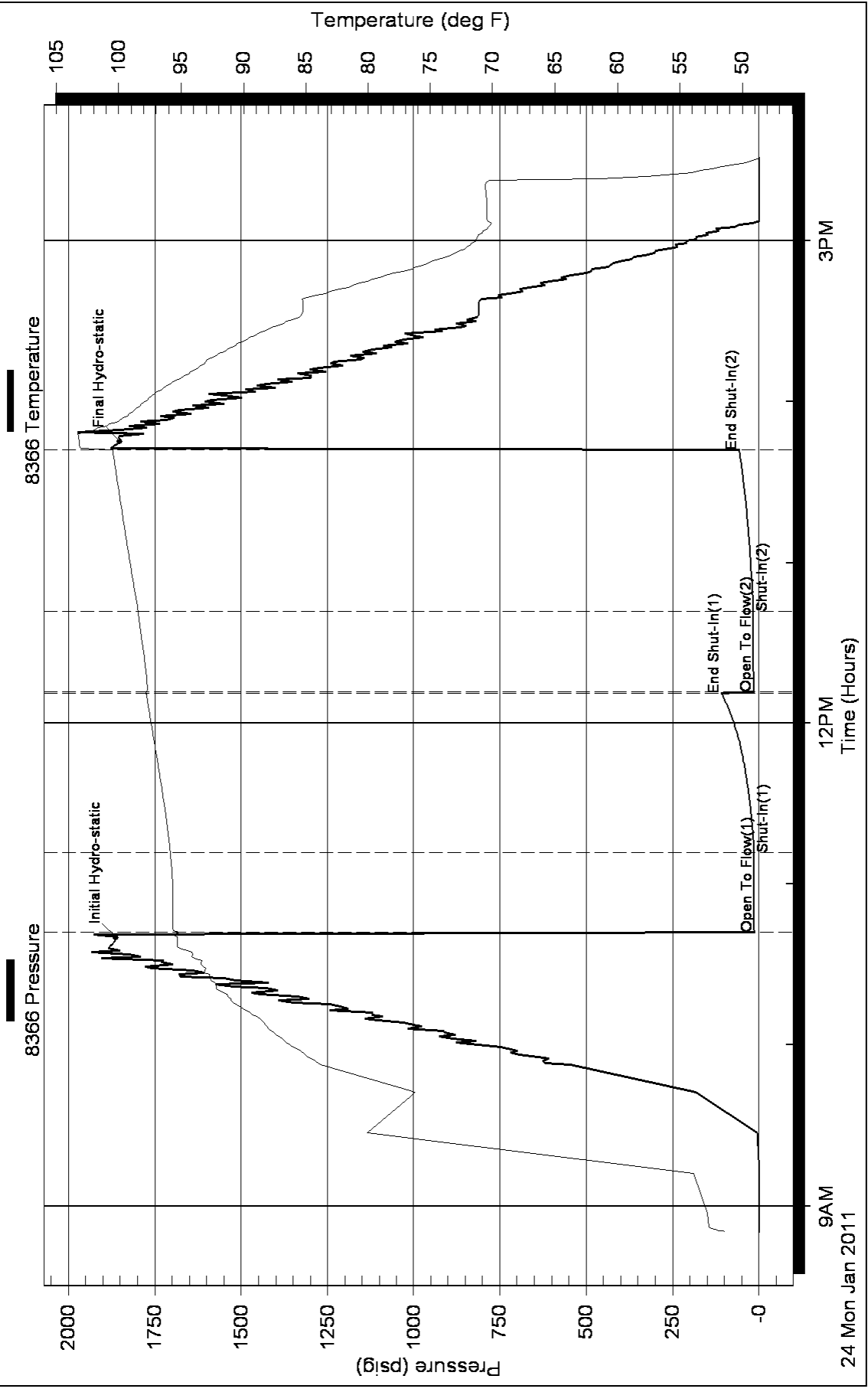
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time





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250 N. Water Suite 300
Wichita, KS 67202
ATTN: Rocky Milford

Faith #1-7
7/2s/29w Decatur KS
Job Ticket: 040788 **DST#: 5**
Test Start: 2011.01.24 @ 23:03:00

GENERAL INFORMATION:

Formation: **Lans. "J"**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 01:27:45
Time Test Ended: 06:23:15
Interval: **3907.00 ft (KB) To 3952.00 ft (KB) (TVD)**
Total Depth: 3952.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair
Reference Elevations: 2798.00 ft (KB)
2793.00 ft (CF)
KB to GR/CF: 5.00 ft
Test Type: Conventional Bottom Hole
Tester: James Winder
Unit No: 46

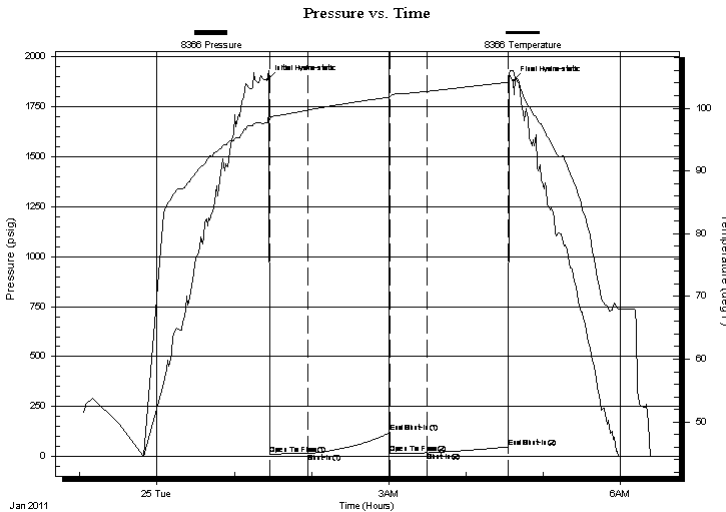
Serial #: 8366

Inside

Press @ Run Depth: 19.47 psig @ 3908.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2011.01.24 End Date: 2011.01.25 Last Calib.: 2011.01.25
Start Time: 23:03:05 End Time: 06:23:14 Time On Btm: 2011.01.25 @ 01:25:45
Time Off Btm: 2011.01.25 @ 04:36:45

TEST COMMENT: IF: Blow built to 1/2" in 15 min., blew at 1/2" till close
IS: Bled off, No blow back
FF: No blow
FS: No blow back

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1883.19	97.65	Initial Hydro-static
2	12.83	98.18	Open To Flow (1)
32	15.83	99.70	Shut-In(1)
95	121.41	101.78	End Shut-In(1)
96	18.26	101.72	Open To Flow (2)
124	19.47	102.67	Shut-In(2)
187	48.68	104.13	End Shut-In(2)
191	1879.10	106.01	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
10.00	SOCM 92%m, 6%o, 2%g	0.05

Gas Rates

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



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FLUID SUMMARY

Murfin Drilling Co., Inc.

Faith #1-7

250 N. Water Suite 300
Wichita, KS 67202

7/2s/29w Decatur KS

Job Ticket: 040788

DST#: 5

ATTN: Rocky Milford

Test Start: 2011.01.24 @ 23:03:00

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: 55.00 sec/qt

Cushion Volume:

bbf

Water Loss: 5.96 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1000.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbf
10.00	SOCM 92% <i>m</i> , 6% <i>o</i> , 2% <i>g</i>	0.049

Total Length: 10.00 ft Total Volume: 0.049 bbf

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

