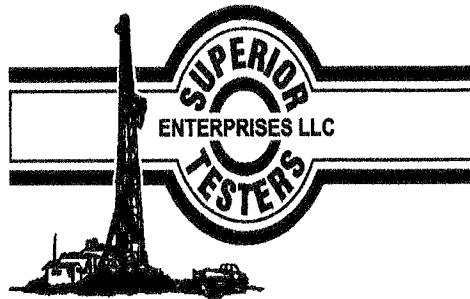


21-16s-1w

IND



DRILL STEM TEST REPORT

Prepared For: **BOP West L.L.C.**

P.O.Box 129
Wooster <ohio 44691

ATTN: Frank Mize

21-16s-1w

Max redden # 1

Start Date: 2011.04.20 @ 01:25:00

End Date: 2011.04.20 @ 00:00:00

Job Ticket #: 16049

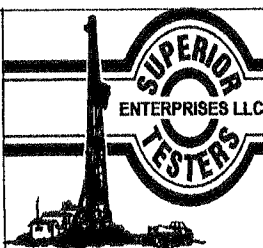
DST #: 1

15-169-20326
Saline

Superior Testers Enterprises LLC
PO Box 138 Great Bend KS 67530
1-800-792-6902

Printed: 2011.04.26 @ 14:00:45

BOP West L.L.C. Max redden # 1 21-16s-1w DST # 1 Lansing "A" 2011.04.20



DRILL STEM TEST REPORT

BOP West L.L.C.

Max red den # 1

P.O.Box 129
Wooster Ohio 44691

21-16s-1w

Job Ticket: 16049

DST#: 1

ATTN: Frank Mize

Test Start: 2011.04.20 @ 01:25:00

GENERAL INFORMATION:

Formation: **Lansing "A"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 00:00:00

Time Test Ended: 00:00:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Gene Budig

Unit No: 3335-108

Interval: **2014.00 ft (KB) To 2042.00 ft (KB) (TVD)**

Total Depth: 4042.00 ft (KB) (TVD)

Hole Diameter: 8.88 inches Hole Condition: Fair

Reference Elevations: 1882.00 ft (KB)

1873.00 ft (CF)

KB to GR/CF: 9.00 ft

Serial #: **4005**

Inside

Press@RunDepth: 712.39 psia @ 2038.00 ft (KB)

Start Date: 2011.04.20

End Date:

2011.04.20

Capacity: 5000.00 psia

Last Calib.: 2011.04.20

Start Time: 01:25:30

End Time:

06:01:00

Time On Btm: 2011.04.20 @ 02:40:30

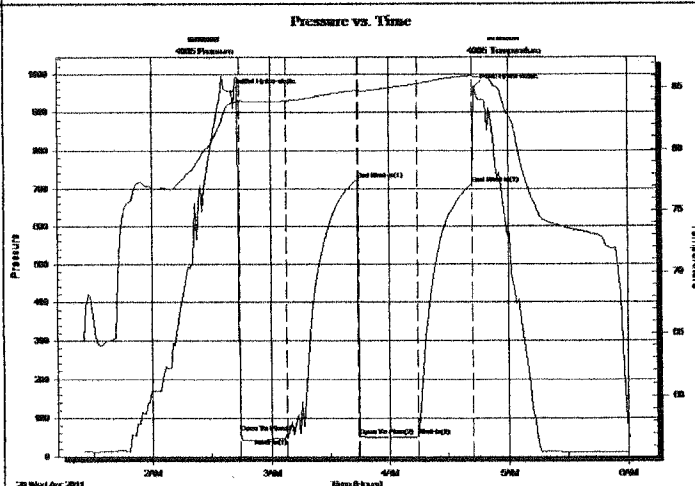
Time Off Btm: 2011.04.20 @ 04:43:30

TEST COMMENT: 1st Opening 30 Minutes-Weak blow built to 2 inches and decreased and died in 23 minutes

1st Shut-In 30 Minutes-No blow back

2nd Opening 30 Minutes-No blow

2nd Shut-In 30 Minutes-No blow back



PRESSURE SUMMARY

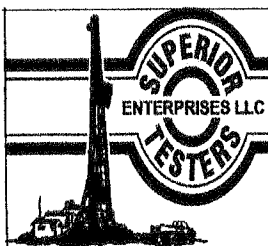
Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	953.55	83.73	Initial Hydro-static
4	62.34	83.95	Open To Flow (1)
28	48.60	83.93	Shut-In(1)
64	724.26	84.79	End Shut-In(1)
64	53.24	84.78	Open To Flow (2)
94	52.70	85.32	Shut-In(2)
122	712.39	86.01	End Shut-In(2)
123	964.66	85.87	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
5.00	drilling mud	0.02

Gas Rates

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



DRILL STEM TEST REPORT

BOP West L.L.C.
P.O.Box 129
Wooster Ohio 44691
ATTN: Frank Mize

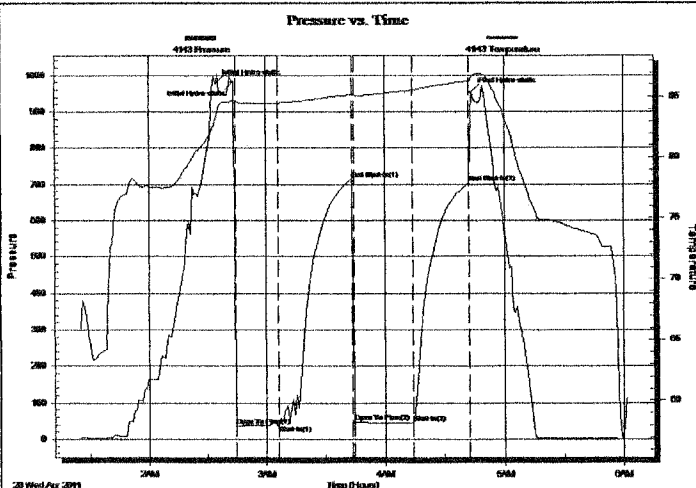
Max redder # 1
21-16s-1w
Job Ticket: 16049 **DST#: 1**
Test Start: 2011.04.20 @ 01:25:00

GENERAL INFORMATION:

Formation: **Lansing "A"**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 00:00:00
Time Test Ended: 00:00:00
Test Type: Conventional Bottom Hole (Initial)
Tester: Gene Budig
Unit No: 3335-108
Interval: **2014.00 ft (KB) To 2042.00 ft (KB) (TVD)**
Total Depth: **4042.00 ft (KB) (TVD)**
Hole Diameter: **8.88 inches** Hole Condition: Fair
Reference Elevations: **1882.00 ft (KB)**
1873.00 ft (CF)
KB to GR/CF: **9.00 ft**

Serial #: 4143 Outside
Press@RunDepth: **703.50 psia @ 2039.00 ft (KB)**
Start Date: **2011.04.20** End Date: **2011.04.20** Capacity: **5000.00 psia**
Start Time: **01:25:30** End Time: **06:01:30** Last Calib.: **2011.04.20**
Time On Btm: **2011.04.20 @ 02:35:00**
Time Off Btm: **2011.04.20 @ 04:43:30**

TEST COMMENT: 1st Opening 30 Minutes-Weak blow built to 2 inches and decreased and died in 23 minutes
1st Shut-In 30 Minutes-No blow back
2nd Opening 30 Minutes-No blow
2nd Shut-In 30 Minutes-No blow back



PRESSURE SUMMARY

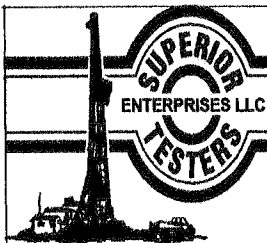
Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	978.97	83.42	Initial Hydro-static
8	980.72	84.69	Initial Hydro-static
10	36.62	84.67	Open To Flow (1)
32	39.96	84.51	Shut-In(1)
69	715.47	85.18	End Shut-In(1)
70	46.35	85.14	Open To Flow (2)
99	45.60	85.56	Shut-In(2)
127	703.50	86.27	End Shut-In(2)
129	954.54	86.62	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
5.00	drilling mud	0.02

Gas Rates

Choke (inches)	Pressure (psia)	Gas Rate (Mcf/d)
----------------	-----------------	------------------



DRILL STEM TEST REPORT

TOOL DIAGRAM

BOP West L.L.C.

Max redder # 1

P.O.Box 129
Wooster Ohio 44691

21-16s-1w

Job Ticket: 16049

DST#: 1

ATTN: Frank Mize

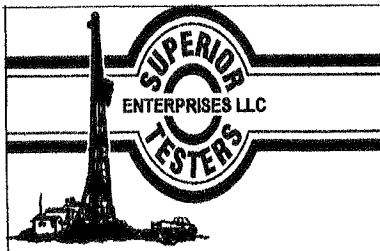
Test Start: 2011.04.20 @ 01:25:00

Tool Information

Drill Pipe:	Length: 1709.00 ft	Diameter: 3.80 inches	Volume: 23.97 bbl	Tool Weight:	2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.86 inches	Volume: 0.00 bbl	Weight set on Packer:	20000.00 lb
Drill Collar:	Length: 310.00 ft	Diameter: 2.25 inches	Volume: 1.52 bbl	Weight to Pull Loose:	70000.00 lb
		Total Volume:	25.49 bbl	Tool Chased	0.00 ft
Drill Pipe Above KB:	26.00 ft			String Weight: Initial	60000.00 lb
Depth to Top Packer:	2014.00 ft			Final	60000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	28.00 ft				
Tool Length:	49.00 ft				
Number of Packers:	2	Diameter:	6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths	
Change Over Sub	1.00			1994.00		
Shut-In Tool	5.00			1999.00		
Hydroic Tool	5.00			2004.00		
Packer	5.00			2009.00	21.00	Bottom Of Top Packer
Packer	5.00			2014.00		
Perforations	23.00			2037.00		
Recorder	1.00	4005	Inside	2038.00		
Recorder	1.00	4143	Outside	2039.00		
Bullnose	3.00			2042.00	28.00	Bottom Packers & Anchor
Total Tool Length:		49.00				



DRILL STEM TEST REPORT

FLUID SUMMARY

BOP West L.L.C.

Max red den # 1

P.O.Box 129
Wooster <ohio 44691

21-16s-1w

Job Ticket: 16049

DST#: 1

ATTN: Frank Mize

Test Start: 2011.04.20 @ 01:25:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil Apt:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 41.00 sec/qt

Cushion Volume:

bbl

Water Loss: 9.78 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psia

Salinity: 1000.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5.00	drilling mud	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:

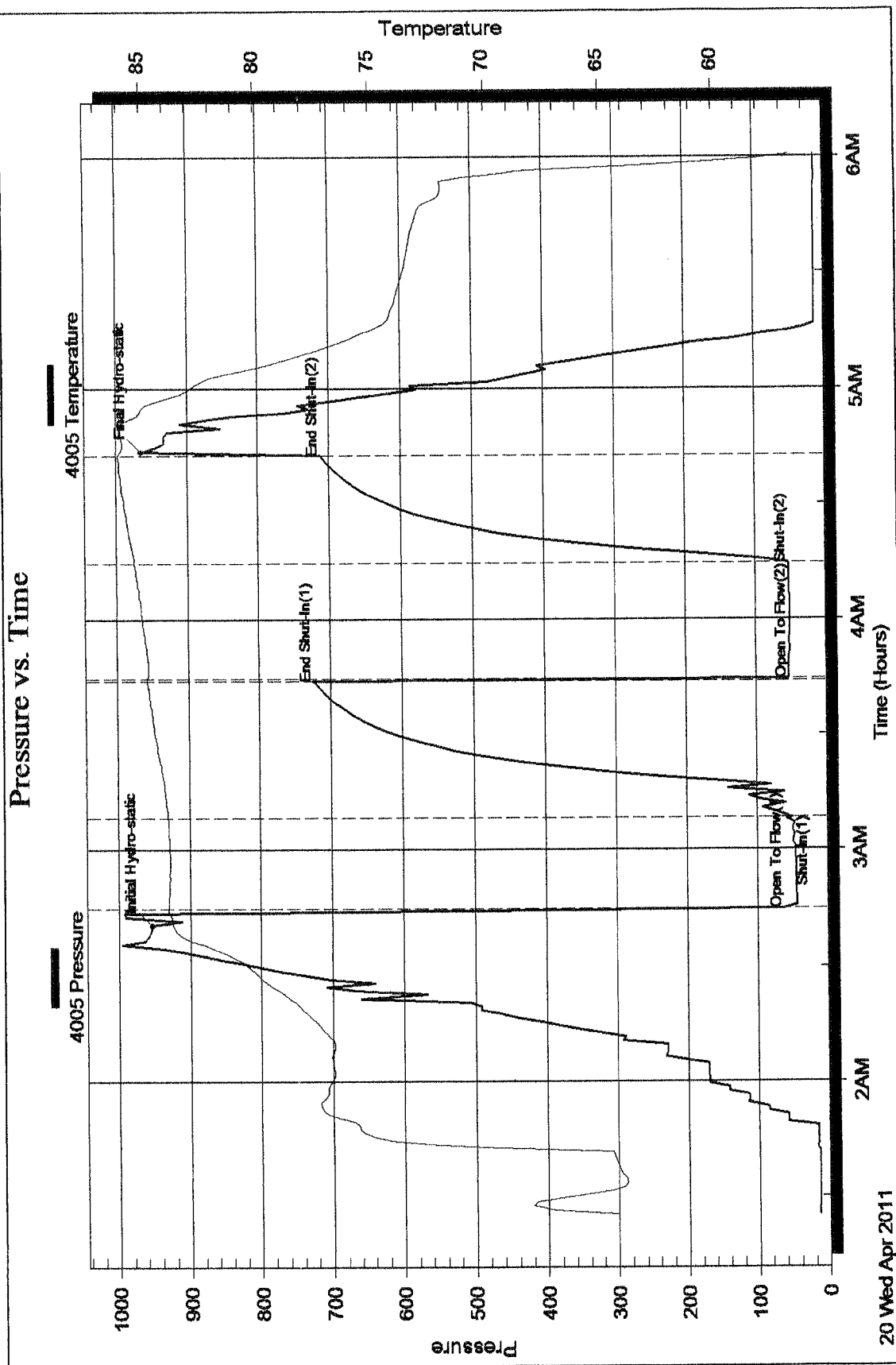
DST Test Number: 1

21-16s-1w

Inside BOP West L.L.C.

Serial #: 4005

Pressure vs. Time



Printed: 2011.04.26 @ 14:00:46

Ref. No: 16049

Superior Testers Enterprises LLC

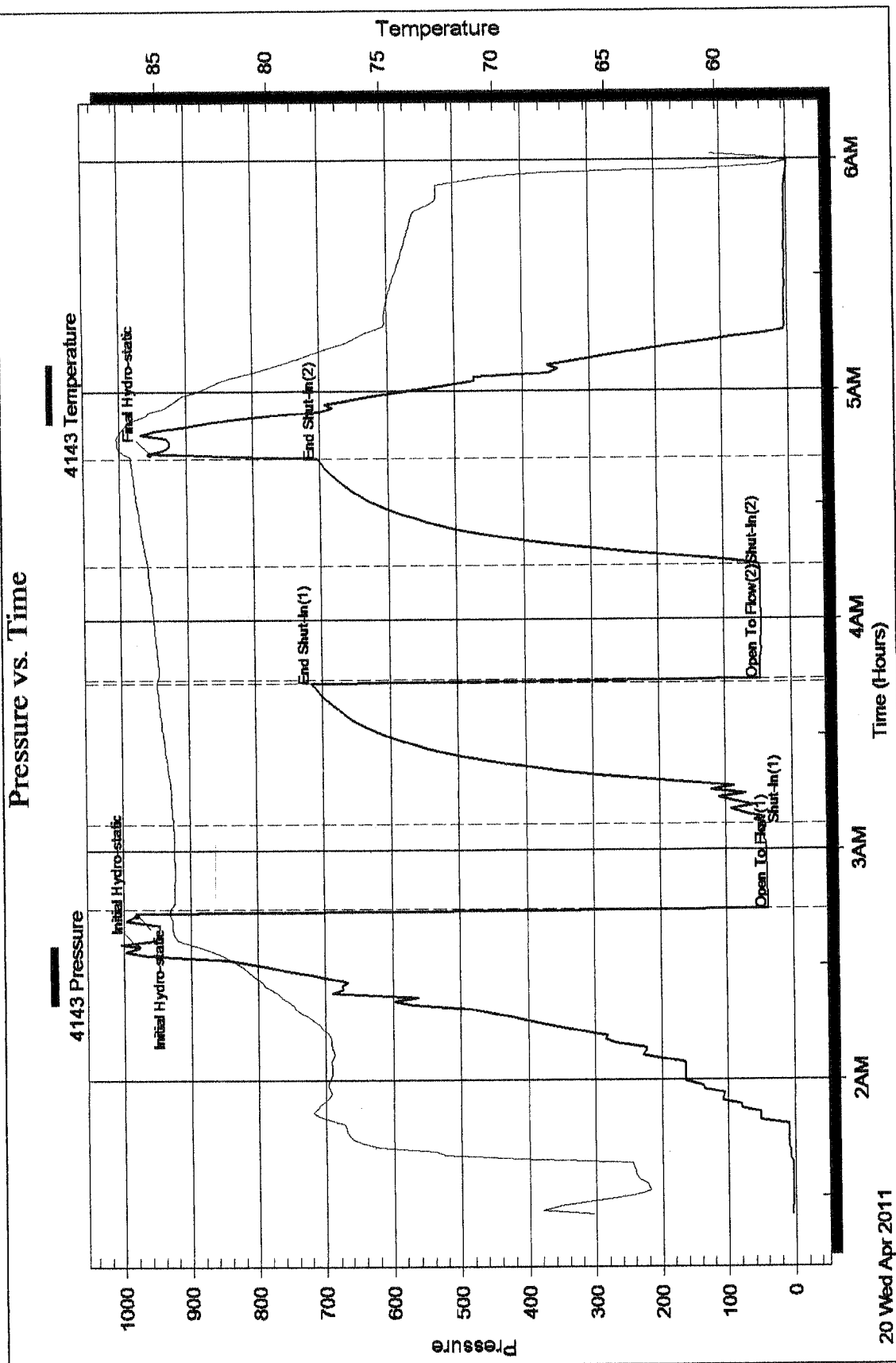
DST Test Number: 1

21-16s-1w

Outside BOPWest L.L.C.

Serial #: 4143

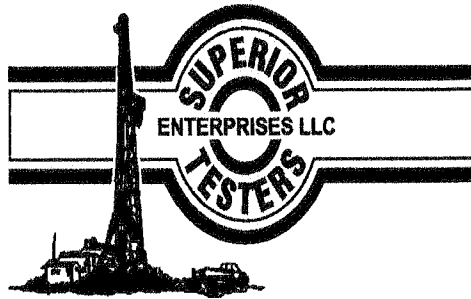
Pressure vs. Time



Printed: 2011.04.26 @ 14:00:46

Ref. No: 16049

Superior Testers Enterprises LLC



DRILL STEM TEST REPORT

Prepared For: **BOP West L.L.C.**

P.O.Box 129
Wooster <ohio 44691

ATTN: Frank Mize

21-16s-1w

Max redden # 1

Start Date: 2011.04.22 @ 09:35:00

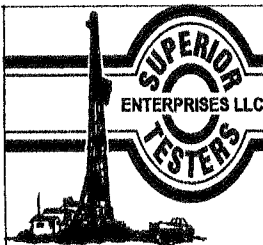
End Date: 2011.04.22 @ 00:00:00

Job Ticket #: 16050 DST #: 2

Superior Testers Enterprises LLC
PO Box 138 Great Bend KS 67530
1-800-792-6902

Printed: 2011.04.26 @ 14:01:11

BOP West L.L.C. Max redden # 1 21-16s-1w DST # 2 Mississippi 2011.04.22



DRILL STEM TEST REPORT

BOP West L.L.C.
P.O.Box 129
Wooster Ohio 44691
ATTN: Frank Mize

Max redder # 1
21-16s-1w
Job Ticket: 16050 **DST#: 2**
Test Start: 2011.04.22 @ 09:35:00

GENERAL INFORMATION:

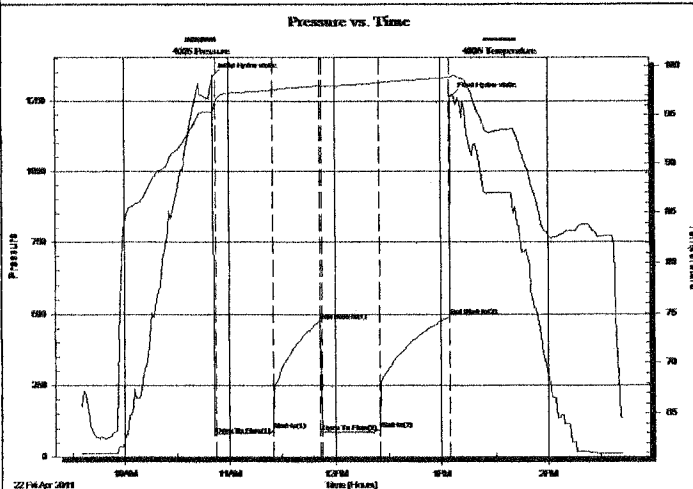
Formation: **Mississippi**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 00:00:00
Time Test Ended: 00:00:00
Test Type: Conventional Bottom Hole (Initial)
Tester: Gene Budig
Unit No: 3335-106
Interval: **2532.00 ft (KB) To 2624.00 ft (KB) (TVD)**
Reference Elevations: 1882.00 ft (KB)
Total Depth: 3624.00 ft (KB) (TVD)
1873.00 ft (CF)
Hole Diameter: 8.88 inches Hole Condition: Fair
KB to GRVCF: 9.00 ft

Serial #: 4005

Inside

Press@RunDepth: 491.69 psia @ 2619.93 ft (KB)
Capacity: 5000.00 psia
Start Date: 2011.04.22 End Date: 2011.04.22 Last Calib.: 2011.04.22
Start Time: 09:35:30 End Time: 14:43:00 Time On Btm: 2011.04.22 @ 10:51:00
Time Off Btm: 2011.04.22 @ 13:06:30

TEST COMMENT: 1st Opening 30 Minutes weak blow built to 1 inch into the water decreased and died in 20 minutes
1st Shut-In 30 Minutes-No blow back
2nd Opening 30 Minutes-No blow
2nd Shut-In 45 Minutes-No blow back



PRESSURE SUMMARY

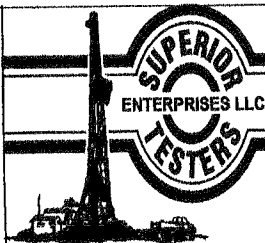
Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1338.31	95.42	Initial Hydro-static
2	80.38	96.33	Open To Flow (1)
34	94.36	97.56	Shut-In(1)
61	477.88	97.97	End Shut-In(1)
62	87.60	97.96	Open To Flow (2)
94	97.04	98.27	Shut-In(2)
134	491.69	98.81	End Shut-In(2)
136	1268.43	98.96	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
10.00	Drilling Mud	0.05

Gas Rates

Choke (inches)	Pressure (psia)	Gas Rate (Mcf/d)
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DRILL STEM TEST REPORT

BOP West L.L.C.
P.O.Box 129
Wooster <ohio 44691
ATTN: Frank Mize

Max redder # 1

21-16s-1w

Job Ticket: 16050

DST#: 2

Test Start: 2011.04.22 @ 09:35:00

GENERAL INFORMATION:

Formation: **Mississippi**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 00:00:00

Time Test Ended: 00:00:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Gene Budig

Unit No: 3335-106

Interval: **2532.00 ft (KB) To 2624.00 ft (KB) (TVD)**

Total Depth: 3624.00 ft (KB) (TVD)

Hole Diameter: 8.88 inches Hole Condition: Fair

Reference Elevations: 1882.00 ft (KB)

1873.00 ft (CF)

KB to GR/CF: 9.00 ft

Serial #: **4143**

Outside

Press@RunDepth: 486.17 psia @ 2620.93 ft (KB)

Start Date: 2011.04.22

End Date:

2011.04.22

Capacity: 5000.00 psia

Last Calib.: 2011.04.22

Start Time: 09:35:30

End Time:

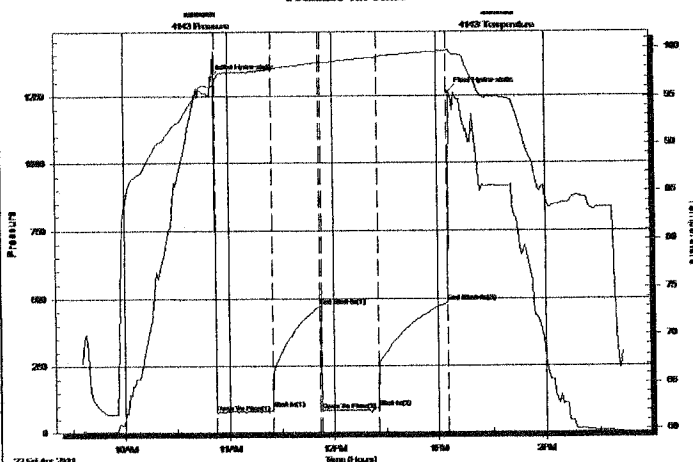
14:44:00

Time On Btm: 2011.04.22 @ 10:50:00

Time Off Btm: 2011.04.22 @ 13:06:30

TEST COMMENT: 1st Opening 30 Minutes weak blow built to 1 inch into the water decreased and died in 20 minutes
1st Shut-In 30 Minutes-No blow back
2nd Opening 30 Minutes-No blow
2nd Shut-In 45 Minutes-No blow back

Pressure vs. Time



PRESSURE SUMMARY

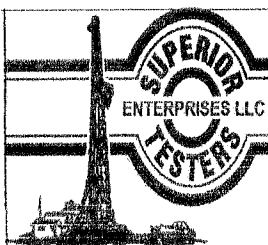
Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1317.11	96.08	Initial Hydro-static
2	76.20	96.47	Open To Flow (1)
35	89.02	97.87	Shut-In(1)
62	473.06	98.55	End Shut-In(1)
63	81.81	98.53	Open To Flow (2)
96	92.31	99.11	Shut-In(2)
136	486.17	99.75	End Shut-In(2)
137	1263.10	99.85	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
10.00	Drilling Mud	0.05

Gas Rates

	Choke (inches)	Pressure (psia)	Gas Rate (Mcf/d)
--	----------------	-----------------	------------------



DRILL STEM TEST REPORT

TOOL DIAGRAM

BOP West L.L.C.

Max redder # 1

P.O.Box 129
Wooster Ohio 44691

21-16s-1w

Job Ticket: 16050

DST#: 2

ATTN: Frank Mize

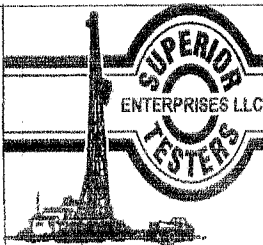
Test Start: 2011.04.22 @ 09:35:00

Tool Information

Drill Pipe:	Length: 2213.00 ft	Diameter: 3.80 inches	Volume: 31.04 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.76 inches	Volume: 0.00 bbl	Weight set on Packer: 2000.00 lb
Drill Collar:	Length: 301.00 ft	Diameter: 2.25 inches	Volume: 1.48 bbl	Weight to Pull Loose: 120000.0 lb
		Total Volume:	32.52 bbl	Tool Chased 0.00 ft
Drill Pipe Above KB:	3.00 ft			String Weight: Initial 65000.00 lb
Depth to Top Packer:	2532.00 ft			Final 65000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	93.93 ft			
Tool Length:	114.93 ft			
Number of Packers:	2	Diameter:	6.75 inches	

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			2512.00	
Shut-in Tool	5.00			2517.00	
Hydroic Tool	5.00			2522.00	
Packer	5.00			2527.00	21.00 Bottom Of Top Packer
Packer	5.00			2532.00	
Change Over Sub	0.75			2532.75	
Drill Pipe	62.43			2595.18	
Change Over Sub	0.75			2595.93	
Perforations	23.00			2618.93	
Recorder	1.00	4005	Inside	2619.93	
Recorder	1.00	4143	Outside	2620.93	
Bullnose	5.00			2625.93	93.93 Bottom Packers & Anchor
Total Tool Length:		114.93			



DRILL STEM TEST REPORT

FLUID SUMMARY

BOP West L.L.C.

Max redder # 1

P.O.Box 129
Wooster Ohio 44691

21-16s-1w

Job Ticket: 16050

DST#: 2

ATTN: Frank Mze

Test Start: 2011.04.22 @ 09:35:00

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: 34.00 sec/qt

Cushion Volume:

bbl

Water Loss: 9.39 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psia

Salinity: 900.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
10.00	Drilling 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: Bull Plug and about a foot up on the anchor was plugged and mud inside had a show of oil in it pulled 65000 over the weight of the string to pull tool loose left 1/2 of the bottom packer in the hole

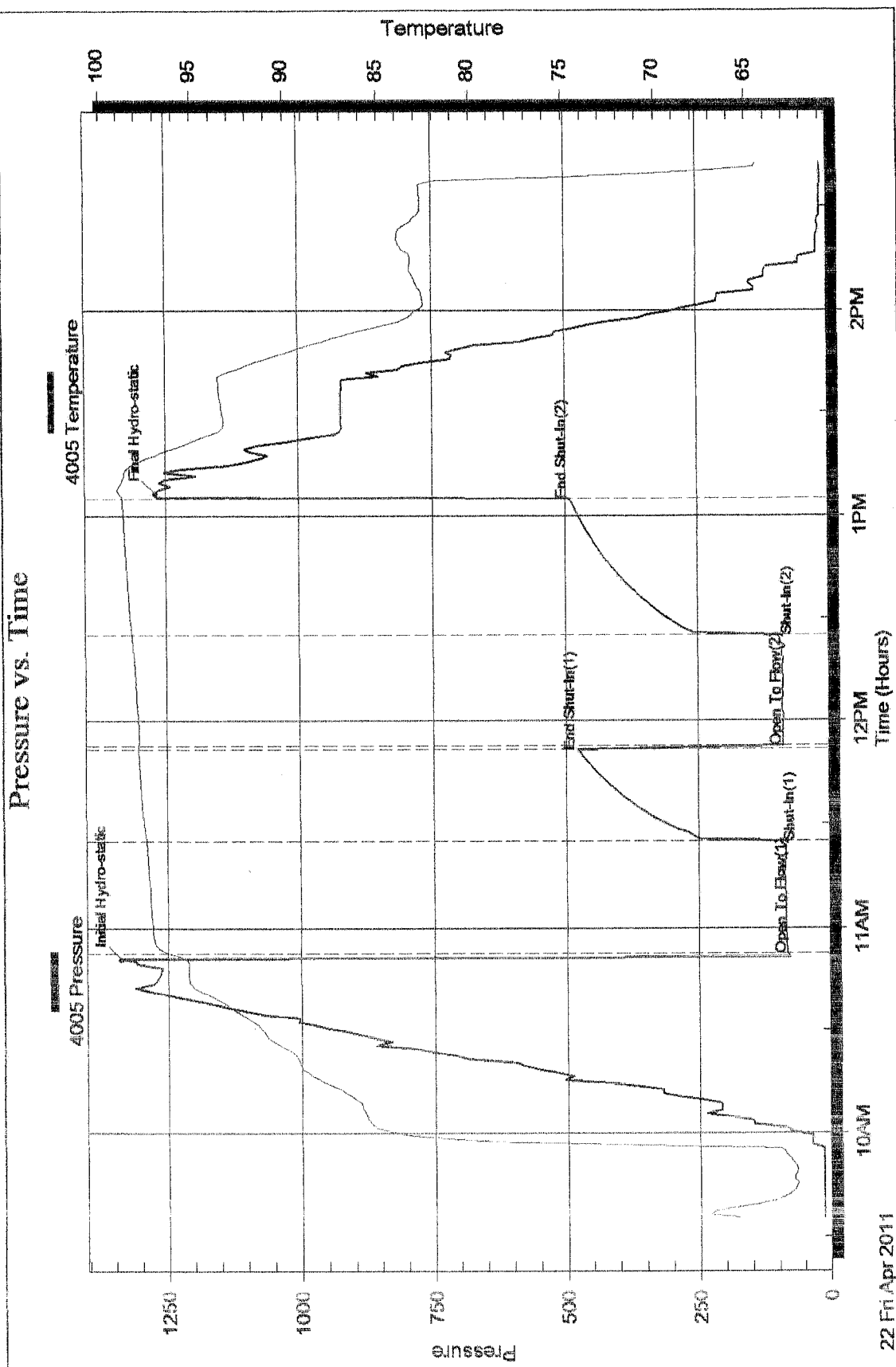
DST Test Number: 2

21-16s-1W

Inside BOP West L.L.C.

Serial #: 4005

Pressure vs. Time



Printed: 2011.04.26 @ 13:48:46

Ref. No: 16050

Superior Testers Enterprises LLC

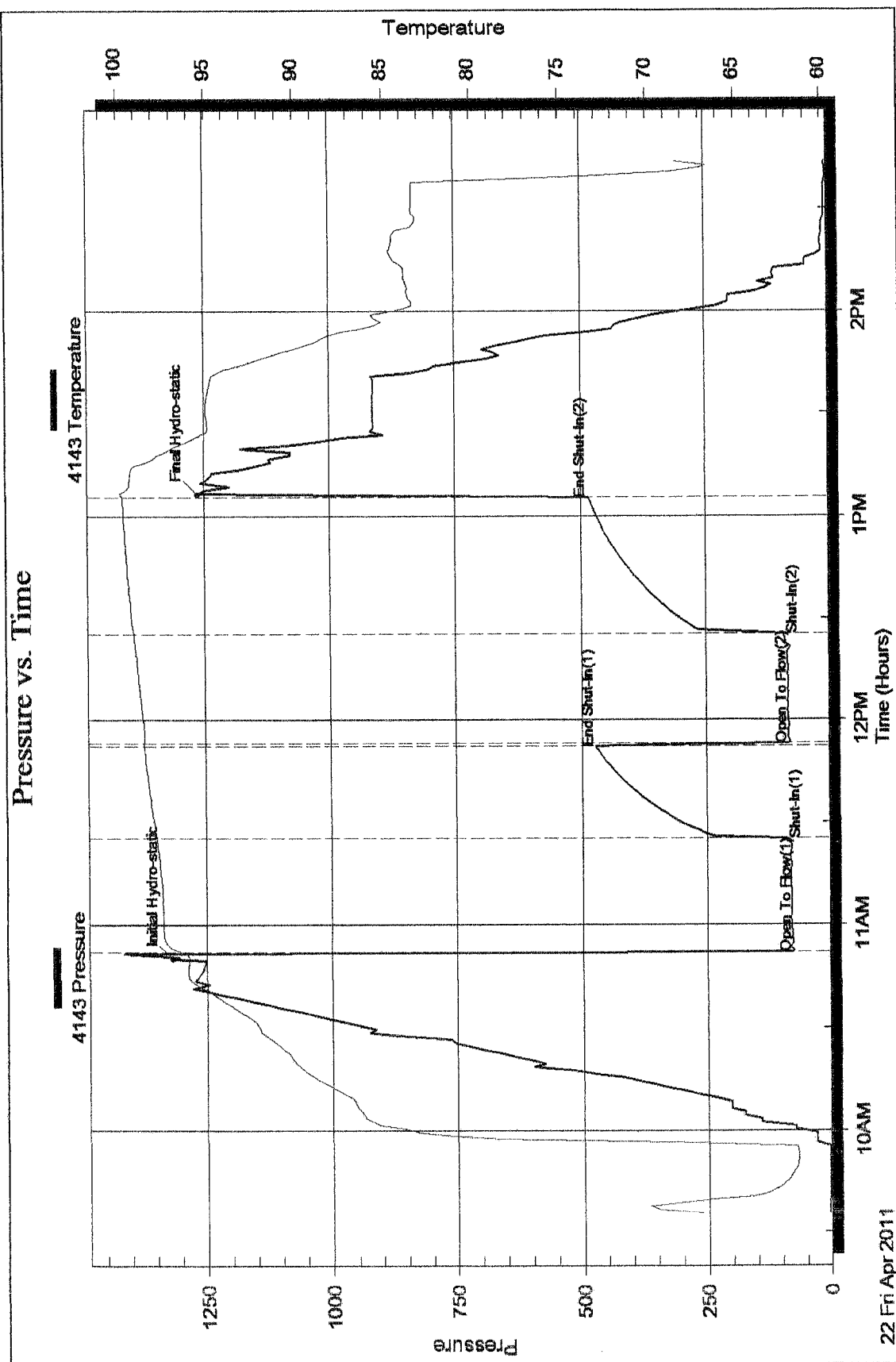
DST Test Number: 2

21-16s-1w

Outside BOP West L.L.C.

Serial #: 4143

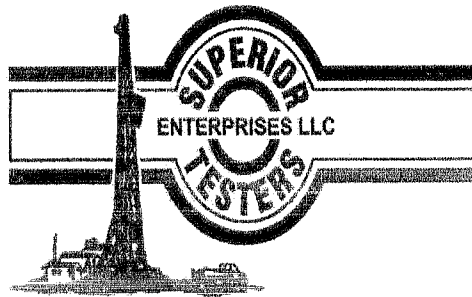
Pressure vs. Time



Printed: 2011.04.26 @ 13:48:46

Ref. No: 16050

Superior Testers Enterprises LLC



DRILL STEM TEST REPORT

Prepared For: **BOP West L.L.C.**

P.O.Box 129
Wooster Ohio 44691

ATTN: Frank Mize

21-16s-1w

Max redder # 1

Start Date: 2011.04.22 @ 07:40:00

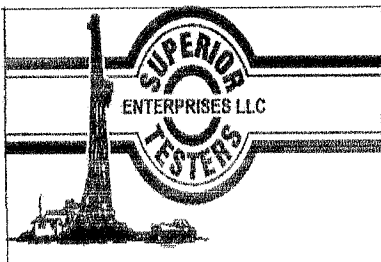
End Date: 2011.04.22 @ 00:00:00

Job Ticket #: 15801 DST #: 3

Superior Testers Enterprises LLC
PO Box 138 Great Bend KS 67530
1-800-792-6902

Printed: 2011.04.26 @ 13:48:34

BOP West L.L.C. Max redder # 1 21-16s-1w DST # 3 Mississippi 2011.04.22



DRILL STEM TEST REPORT

BOP West L.L.C.
P.O. Box 129
Wooster Ohio 44691
ATTN: Frank Mize

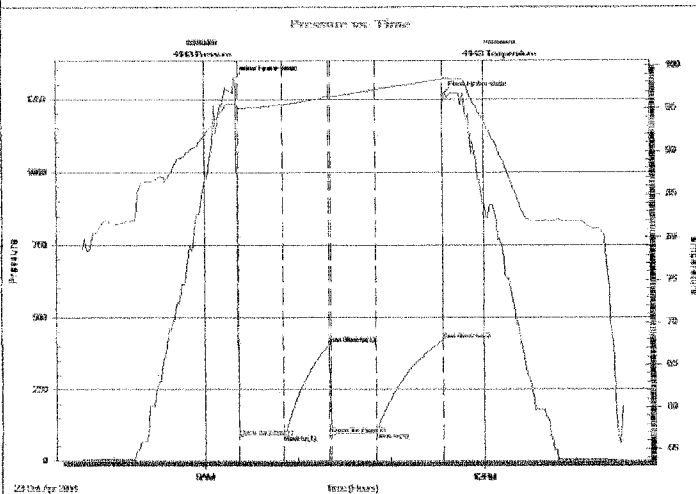
Max redder # 1
21-16s-1w
Job Ticket: 15801 DST#: 3
Test Start: 2011.04.22 @ 07:40:00

GENERAL INFORMATION:

Formation: **Mississippi**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 00:00:00
Time Test Ended: 00:00:00
Test Type: Conventional Bottom Hole (Initial)
Tester: Gene Budig
Unit No: 3335
Interval: **2524.00 ft (KB) To 2629.00 ft (KB) (TVD)**
Reference Elevations: 1882.00 ft (KB)
Total Depth: 2629.00 ft (KB) (TVD) 1873.00 ft (CF)
Hole Diameter: 8.88 inches Hole Condition: Fair KB to GR/CF: 9.00 ft

Serial #: **4143** Outside
Press@RunDepth: 420.08 psia @ 2625.93 ft (KB) Capacity: 5000.00 psia
Start Date: 2011.04.23 End Date: 2011.04.23 Last Calib.: 2011.04.23
Start Time: 07:40:30 End Time: 13:31:00 Time On Btm: 2011.04.23 @ 09:19:30
Time Off Btm: 2011.04.23 @ 11:35:00

TEST COMMENT: 1st Opening 30 Minutes-Weak building blow built to 1 1/2 inches decreased to 1/ inch in 30 minutes
1st Shut-In 30 Minutes-No blow back
2nd Opening 30 Minutes-No blow
2nd Shut-In 45 Minutes-No blow back



PRESSURE SUMMARY

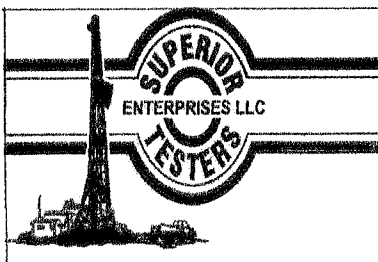
Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1319.40	95.51	Initial Hydro-static
2	83.00	95.16	Open To Flow (1)
32	91.97	95.37	Shut-In(1)
61	407.53	96.34	End Shut-In(1)
62	94.27	96.35	Open To Flow (2)
91	100.13	97.10	Shut-In(2)
135	420.08	98.30	End Shut-In(2)
136	1263.54	98.35	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
30.00	Drilling Mud with no shows of oil or gas	0.15

Gas Rates

	Choke (inches)	Pressure (psia)	Gas Rate (Mcf/d)
--	----------------	-----------------	------------------



DRILL STEM TEST REPORT

BOP West L.L.C.
P.O. Box 129
Wooster Ohio 44691
ATTN: Frank Mize

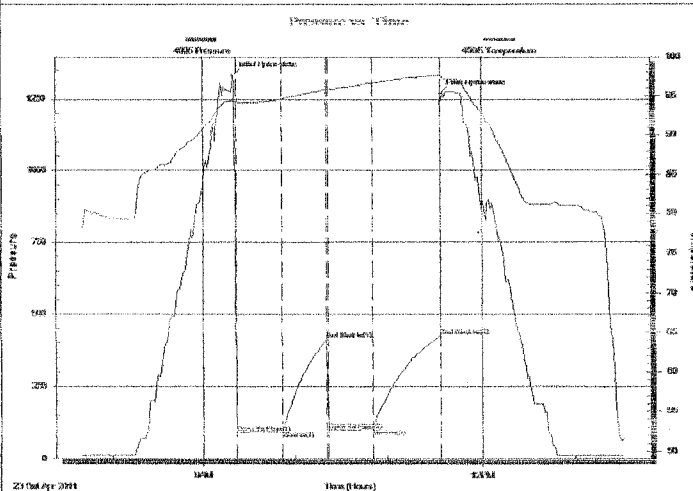
Max redder # 1
21-16s-1w
Job Ticket: 15801 DST#: 3
Test Start: 2011.04.22 @ 07:40:00

GENERAL INFORMATION:

Formation: **Mississippi**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 00:00:00
Time Test Ended: 00:00:00
Test Type: Conventional Bottom Hole (Initial)
Tester: Gene Budig
Unit No: 3335
Interval: **2524.00 ft (KB) To 2629.00 ft (KB) (TVD)**
Reference Elevations: 1882.00 ft (KB)
Total Depth: 2629.00 ft (KB) (TVD) 1873.00 ft (CF)
Hole Diameter: 8.88 inches Hole Condition: Fair KB to GR/CF: 9.00 ft

Serial #: 4005 Inside
Press@RunDepth: 424.32 psia @ 2624.93 ft (KB) Capacity: 5000.00 psia
Start Date: 2011.04.23 End Date: 2011.04.23 Last Calib.: 2011.04.23
Start Time: 07:40:30 End Time: 13:31:30 Time On Btm: 2011.04.23 @ 09:19:29
Time Off Btm: 2011.04.23 @ 11:35:00

TEST COMMENT: 1st Opening 30 Minutes-Weak building blow built to 1 1/2 inches decreased to 1/ inch in 30 minutes
1st Shut-In 30 Minutes-No blow back
2nd Opening 30 Minutes-No blow
2nd Shut-In 45 Minutes-No blow back



PRESSURE SUMMARY

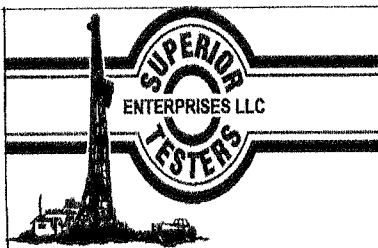
Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1332.09	94.37	Initial Hydro-static
3	88.93	94.30	Open To Flow (1)
32	96.51	94.63	Shut-In (1)
62	412.31	95.79	End Shut-In (1)
63	99.50	95.82	Open To Flow (2)
92	104.68	96.63	Shut-In (2)
136	424.32	97.64	End Shut-In (2)
136	1269.04	97.70	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
39.00	Drilling Mud with no shows of oil or gas	0.15

Gas Rates

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



DRILL STEM TEST REPORT

TOOL DIAGRAM

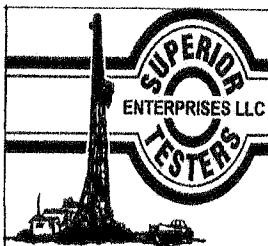
BOP West L.L.C.
P.O.Box 129
Wooster Ohio 44691
ATTN: Frank Mize

Max redder # 1
21-16s-1w
Job Ticket: 15801
DST#: 3
Test Start: 2011.04.22 @ 07:40:00

Tool Information

Drill Pipe:	Length: 2274.00 ft	Diameter: 3.80 inches	Volume: 31.90 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.86 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 240.00 ft	Diameter: 2.26 inches	Volume: 1.19 bbl	Weight to Pull Loose: 80000.00 lb
			Total Volume: 33.09 bbl	Tool Chased 0.00 ft
Drill Pipe Above KB:	19.00 ft			String Weight: Initial 64000.00 lb
Depth to Top Packer:	2524.00 ft			Final 64000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	104.93 ft			
Tool Length:	133.93 ft			
Number of Packers:	2	Diameter: 6.75 inches		
Tool Comments:				

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths	
Change Over Sub	1.00			2496.00		
Shut-In Tool	5.00			2501.00		
Hydroic Tool	5.00			2506.00		
Jars	6.00			2512.00		
Safety Joint	2.00			2514.00		
Packer	5.00			2519.00	29.00	Bottom Of Top Packer
Packer	5.00			2524.00		
Change Over Sub	0.75			2524.75		
Drill Pipe	61.43			2586.18		
Change Over Sub	0.75			2586.93		
Perforations	37.00			2623.93		
Recorder	1.00	4005	Inside	2624.93		
Recorder	1.00	4143	Outside	2625.93		
Bullnose	3.00			2628.93	104.93	Bottom Packers & Anchor
Total Tool Length:		133.93				



DRILL STEM TEST REPORT

FLUID SUMMARY

BOP West L.L.C.

Max red den # 1

P.O.Box 129
Wooster <ohio 44691

21-16s-1w

Job Ticket: 15801

DST#: 3

ATTN: Frank Mize

Test Start: 2011.04.22 @ 07:40:00

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: 9.19 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psia

Salinity: 800.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
30.00	Drilling Mud with no shows of oil or gas	0.149

Total Length: 30.00 ft

Total Volume: 0.149 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

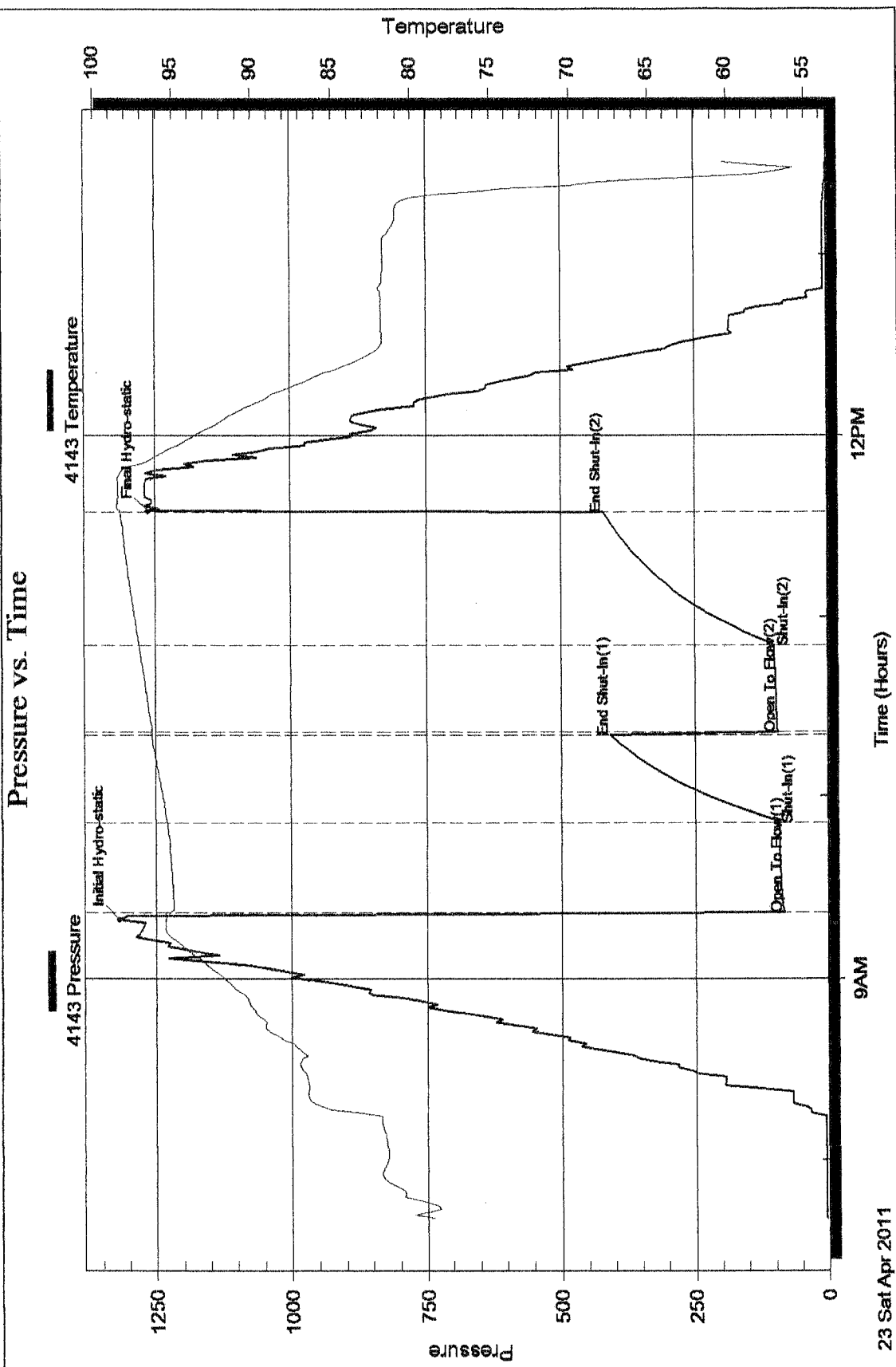
DST Test Number: 3

21-16s-1W

Outside BOP West L.L.C.

Serial #: 4143

Pressure vs. Time



Printed: 2011.04.26 @ 13:48:35

Ref. No: 15801

Superior Testers Enterprises LLC

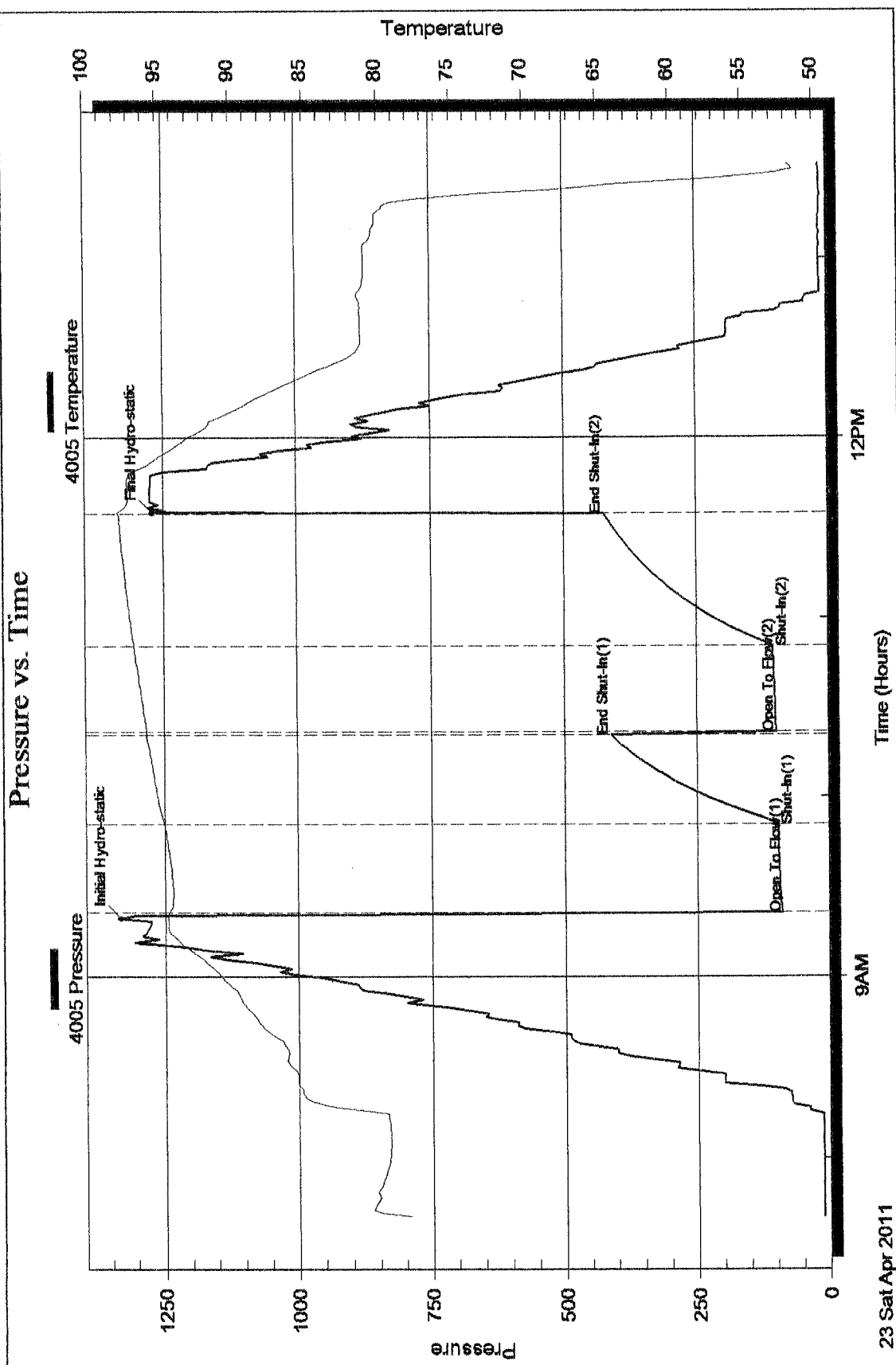
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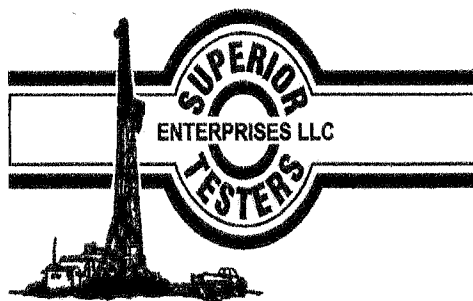
21-16s-1W

Inside BOP West L.L.C.

Serial #: 4005

Pressure vs. Time





DRILL STEM TEST REPORT

Prepared For: **BOP West L.L.C.**

P.O.Box 129
Wooster <ohio 44691

ATTN: Frank Mize

21-16s-1w

Max redder # 1

Start Date: 2011.04.23 @ 07:10:00

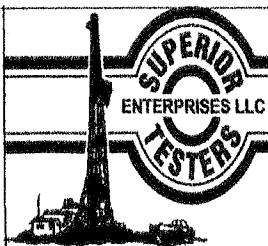
End Date: 2011.04.23 @ 00:00:00

Job Ticket #: 15802 DST #: 4

Superior Testers Enterprises LLC
PO Box 138 Great Bend KS 67530
1-800-792-6902

Printed: 2011.04.26 @ 13:48:23

BOP West L.L.C. Max redder # 1 21-16s-1w DST # 4 Mississippian 2011.04.23



DRILL STEM TEST REPORT

BOP West L.L.C.
P.O.Box 129
Wooster <ohio 44691
ATTN: Frank Mize

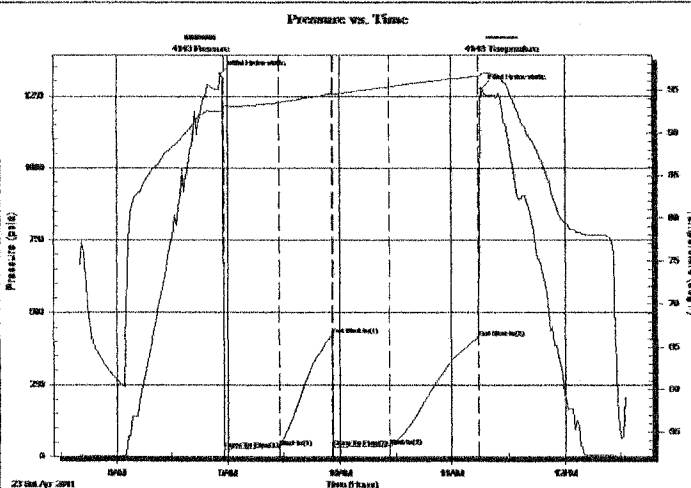
Max redder # 1
21-16s-1w
Job Ticket: 15802 **DST#: 4**
Test Start: 2011.04.23 @ 07:10:00

GENERAL INFORMATION:

Formation: **Mississippian**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 00:00:00
Time Test Ended: 00:00:00
Test Type: Conventional Bottom Hole (Initial)
Tester: Gene Budig
Unit No: 3335
Interval: **2623.00 ft (KB) To 2634.00 ft (KB) (TVD)**
Reference Elevations: 1882.00 ft (KB)
Total Depth: 2634.00 ft (KB) (TVD)
1873.00 ft (CF)
Hole Diameter: 8.88 inches Hole Condition: Fair
KB to GRVCF: 9.00 ft

Serial #: 4143 Outside
Press@RunDepth: 412.68 psia @ 2631.00 ft (KB)
Capacity: 5000.00 psia
Start Date: 2011.04.23 End Date: 2011.04.23 Last Calib.: 2011.04.23
Start Time: 07:40:30 End Time: 12:33:00 Time On Btm: 2011.04.23 @ 08:56:30
Time Off Btm: 2011.04.23 @ 11:15:30

TEST COMMENT: 1st Opening 30 Minutes-Very weak surface blow for 21 minutes and died
1st Opening 30 Minutes-No blow
2nd Open 30 Minutes No blow
2nd Shut-In 45 Minutes-No blow back



PRESSURE SUMMARY

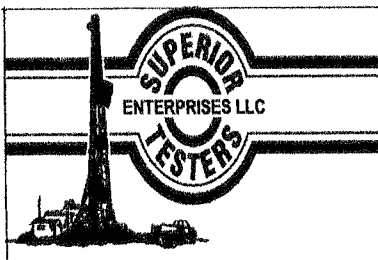
Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1324.62	92.54	Initial Hydro-static
2	26.31	92.92	Open To Flow (1)
31	33.00	93.58	Shut-In(1)
60	420.83	94.61	End Shut-In(1)
60	32.92	94.62	Open To Flow (2)
90	36.88	95.41	Shut-In(2)
137	412.68	96.58	End Shut-In(2)
139	1273.44	96.97	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
10.00	Drilling mud with a very slight show of	0.05
0.00	oil and a good show of oil between	0.00
0.00	the shut-in and hydrolic tools	0.00

Gas Rates

	Choke (inches)	Pressure (psia)	Gas Rate (Mcf/d)
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DRILL STEM TEST REPORT

BOP West L.L.C.
P.O.Box 129
Wooster Ohio 44691
ATTN: Frank Mize

Max redder # 1
21-16s-1w
Job Ticket: 15802 DST#: 4
Test Start: 2011.04.23 @ 07:10:00

GENERAL INFORMATION:

Formation: **Mississippian**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 00:00:00
Time Test Ended: 00:00:00
Test Type: Conventional Bottom Hole (Initial)
Tester: Gene Budig
Unit No: 3335
Interval: **2623.00 ft (KB) To 2634.00 ft (KB) (TVD)**
Reference Elevations: 1882.00 ft (KB)
Total Depth: 2634.00 ft (KB) (TVD)
1873.00 ft (CF)
Hole Diameter: 8.88 inches Hole Condition: Fair
KB to GR/CF: 9.00 ft

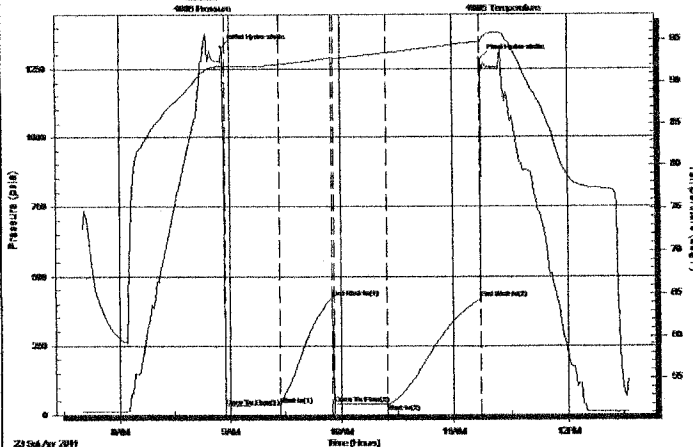
Serial #: 4005

Inside

Press@RunDepth: 418.88 psia @ 2630.00 ft (KB)
Capacity: 5000.00 psia
Start Date: 2011.04.23 End Date: 2011.04.23 Last Calib.: 2011.04.23
Start Time: 07:40:30 End Time: 12:33:00 Time On Btm: 2011.04.23 @ 08:56:00
Time Off Btm: 2011.04.23 @ 11:14:00

TEST COMMENT: 1st Opening 30 Minutes-Very weak surface blow for 21 minutes and died
1st Opening 30 Minutes-No blow
2nd Open 30 Minutes No blow
2nd Shut-In 45 Minutes-No blow back

Pressure vs. Time



PRESSURE SUMMARY

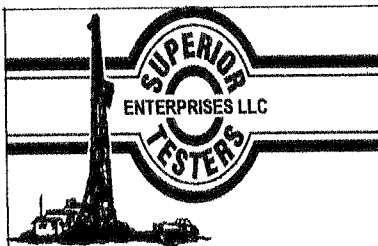
Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1329.24	91.85	Initial Hydro-static
2	31.46	91.90	Open To Flow (1)
31	37.82	92.07	Shut-In(1)
60	424.66	92.85	End Shut-In(1)
61	38.75	92.84	Open To Flow (2)
89	41.93	93.45	Shut-In(2)
138	418.88	94.75	End Shut-In(2)
138	1286.28	94.79	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
10.00	Drilling mud with a very slight show of	0.05
0.00	oil and a good show of oil between	0.00
0.00	the shut-in and hydrolic tools	0.00

Gas Rates

	Choke (inches)	Pressure (psia)	Gas Rate (Mcf/d)
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DRILL STEM TEST REPORT

TOOL DIAGRAM

BOP West L.L.C.

Max redder # 1

P.O.Box 129
Wooster Ohio 44691

21-16s-1w

Job Ticket: 15802

DST#: 4

ATTN: Frank Mize

Test Start: 2011.04.23 @ 07:10:00

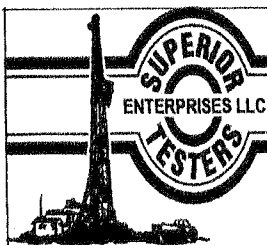
Tool Information

Drill Pipe:	Length: 2306.00 ft	Diameter: 3.80 inches	Volume: 32.35 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.86 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 301.00 ft	Diameter: 2.25 inches	Volume: 1.48 bbl	Weight to Pull Loose: 75000.00 lb
		Total Volume:	33.83 bbl	Tool Chased 0.00 ft
Drill Pipe Above KB:	13.00 ft			String Weight: Initial 65000.00 lb
Depth to Top Packer:	2623.00 ft			Final 65000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	11.00 ft			
Tool Length:	40.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			2595.00	
Shut-In Tool	5.00			2600.00	
Hydroic Tool	5.00			2605.00	
Jars	6.00			2611.00	
Safety Joint	2.00			2613.00	
Packer	5.00			2618.00	29.00 Bottom Of Top Packer
Packer	5.00			2623.00	
Perforations	6.00			2629.00	
Recorder	1.00	4005	Inside	2630.00	
Recorder	1.00	4143	Outside	2631.00	
Bullnose	3.00			2634.00	11.00 Bottom Packers & Anchor

Total Tool Length: 40.00



DRILL STEM TEST REPORT

FLUID SUMMARY

BOP West L.L.C.

Max red den # 1

P.O.Box 129
Wooster <ohio 44691

21-16s-1w

Job Ticket: 15802

DST#: 4

ATTN: Frank Mize

Test Start: 2011.04.23 @ 07:10:00

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: 9.19 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psia

Salinity: 800.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
10.00	Drilling mud with a very slight show of	0.049
0.00	oil and a good show of oil between	0.000
0.00	the shut-in and hydrolic tools	0.000

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:

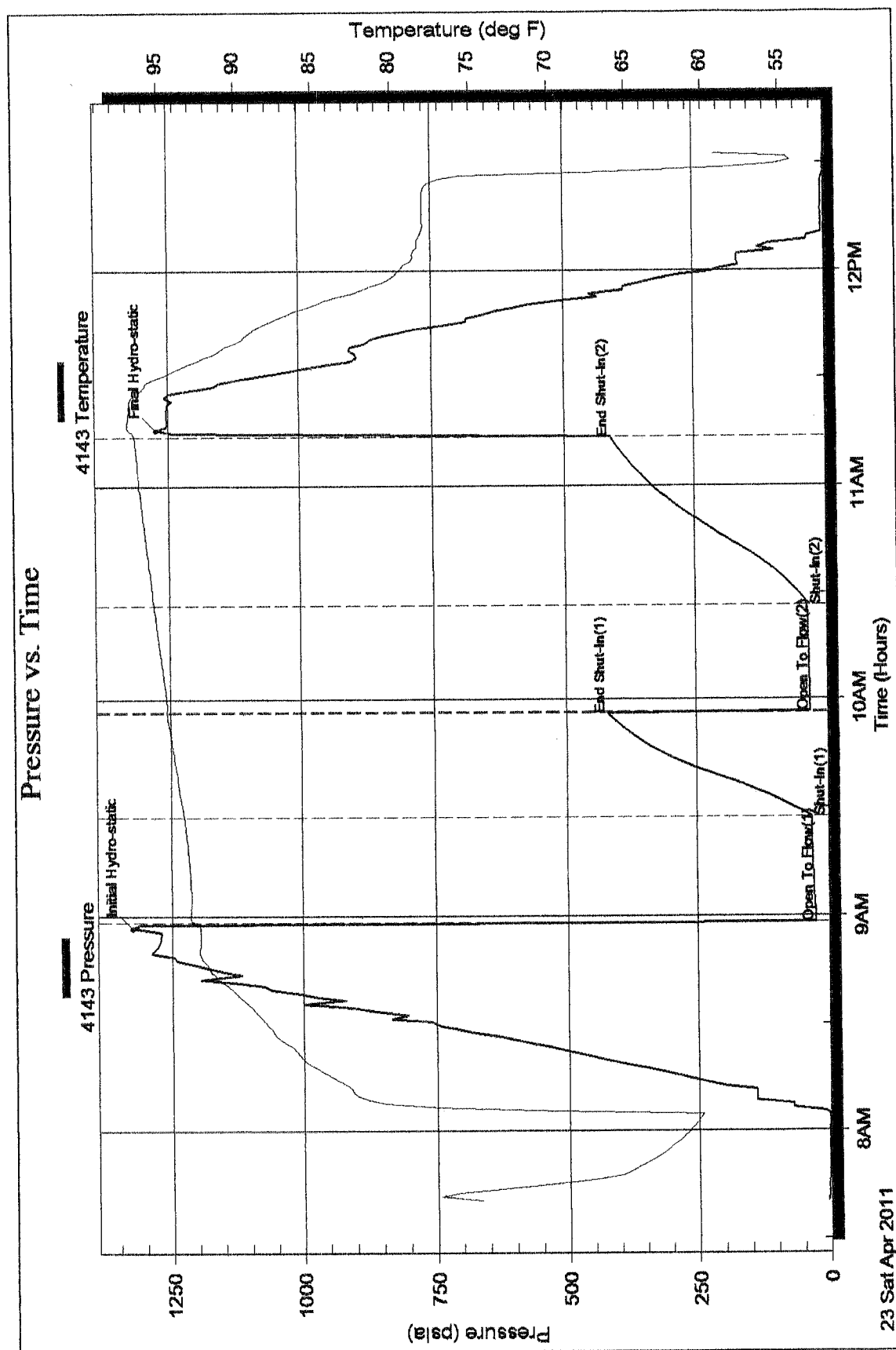
DST Test Number: 4

21-16s-1W

Outside BOPWest L.L.C.

Serial #: 4143

Pressure vs. Time



Printed: 2011.04.26 @ 13:48:24

Ref. No: 15802

Superior Testers Enterprises LLC

DST Test Number: 4

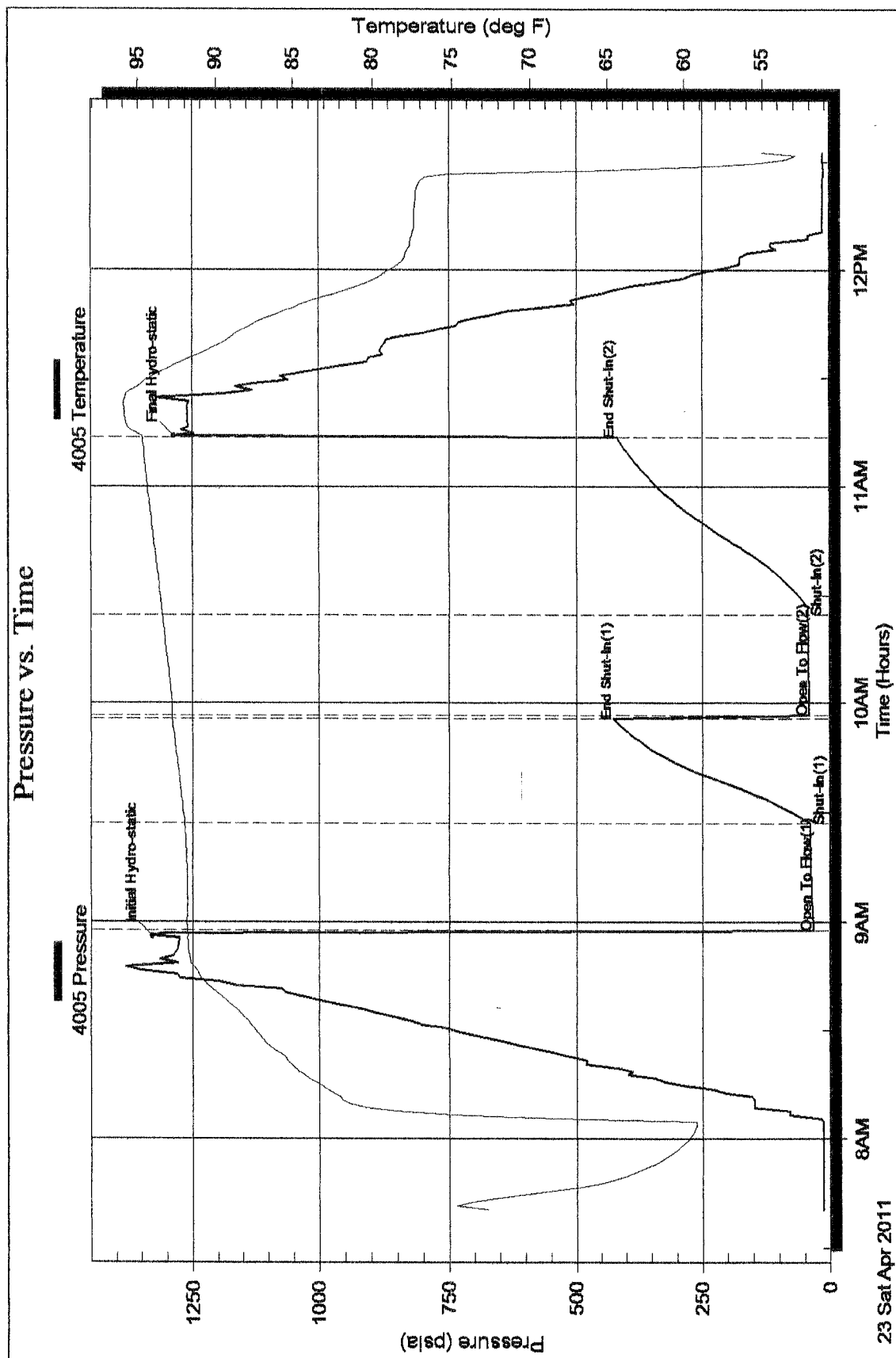
21-16s-1w

BOP West L.L.C.

Inside

Serial #: 4005

Pressure vs. Time



Printed: 2011.04.26 @ 13:48:24

Ref. No: 15802

Superior Testers Enterprises LLC