



## DRILL STEM TEST REPORT

Prepared For: **Sandlin Oil Company**

621 17th Street Suite 2055 Denver ,Colorado  
80293-2001

ATTN: Herb Deines

**15-12s-18w**

**Karlin #3**

Start Date: 2011.04.03 @ 01:00:00

End Date: 2011.04.03 @ 00:00:00

Job Ticket #: 16045                      DST #: 1

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

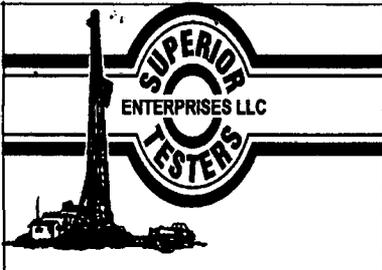
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Printed: 2011.04.05 @ 11:40:54

Sandlin Oil Company      Karlin #3      15-12s-18w      DST # 1      Arbuckle      2011.04.03







# DRILL STEM TEST REPORT

TOOL DIAGRAM

Sandlin Oil Company  
 621 17th Street Suite 2055 Denver, Colorado  
 80293-2001  
 ATTN: Herb Deines

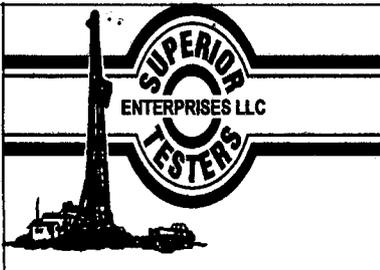
**Karlin #3**  
**15-12s-18w**  
 Job Ticket: 16045      **DST#: 1**  
 Test Start: 2011.04.03 @ 01:00:00

### Tool Information

Drill Pipe:	Length: 3674.00 ft	Diameter: 3.80 inches	Volume: 51.54 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: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose:	50000.00 lb
			<u>Total Volume: 51.54 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	31.00 ft			String Weight: Initial	44000.00 lb
Depth to Top Packer:	3664.00 ft			Final	44000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	19.00 ft				
Tool Length:	40.00 ft				
Number of Packers:	2	Diameter: 6.75 inches			
Tool Comments:					

### Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3644.00	
Shut-In Tool	5.00			3649.00	
Hydroic Tool	5.00			3654.00	
Packer	5.00			3659.00	21.00      Bottom Of Top Packer
Packer	5.00			3664.00	
Perforations	14.00			3678.00	
Recorder	1.00	4143	Inside	3679.00	
Recorder	1.00	4005	Outside	3680.00	
Bullnose	3.00			3683.00	19.00      Bottom Packers & Anchor
<b>Total Tool Length:</b>	<b>40.00</b>				



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FLUID SUMMARY

Sandlin Oil Company  
 621 17th Street Suite 2055 Denver, Colorado  
 80293-2001  
 ATTN: Herb Deines

**Karlin #3**  
**15-12s-18w**  
 Job Ticket: 16045      **DST#: 1**  
 Test Start: 2011.04.03 @ 01:00:00

## 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: 54.00 sec/qt	Cushion Volume: bbl		
Water Loss: 8.79 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psia		
Salinity: 3800.00 ppm			
Filter Cake: 1.00 inches			

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
50.00	Oil Cut Mud 15%oil 85%Mud	0.701

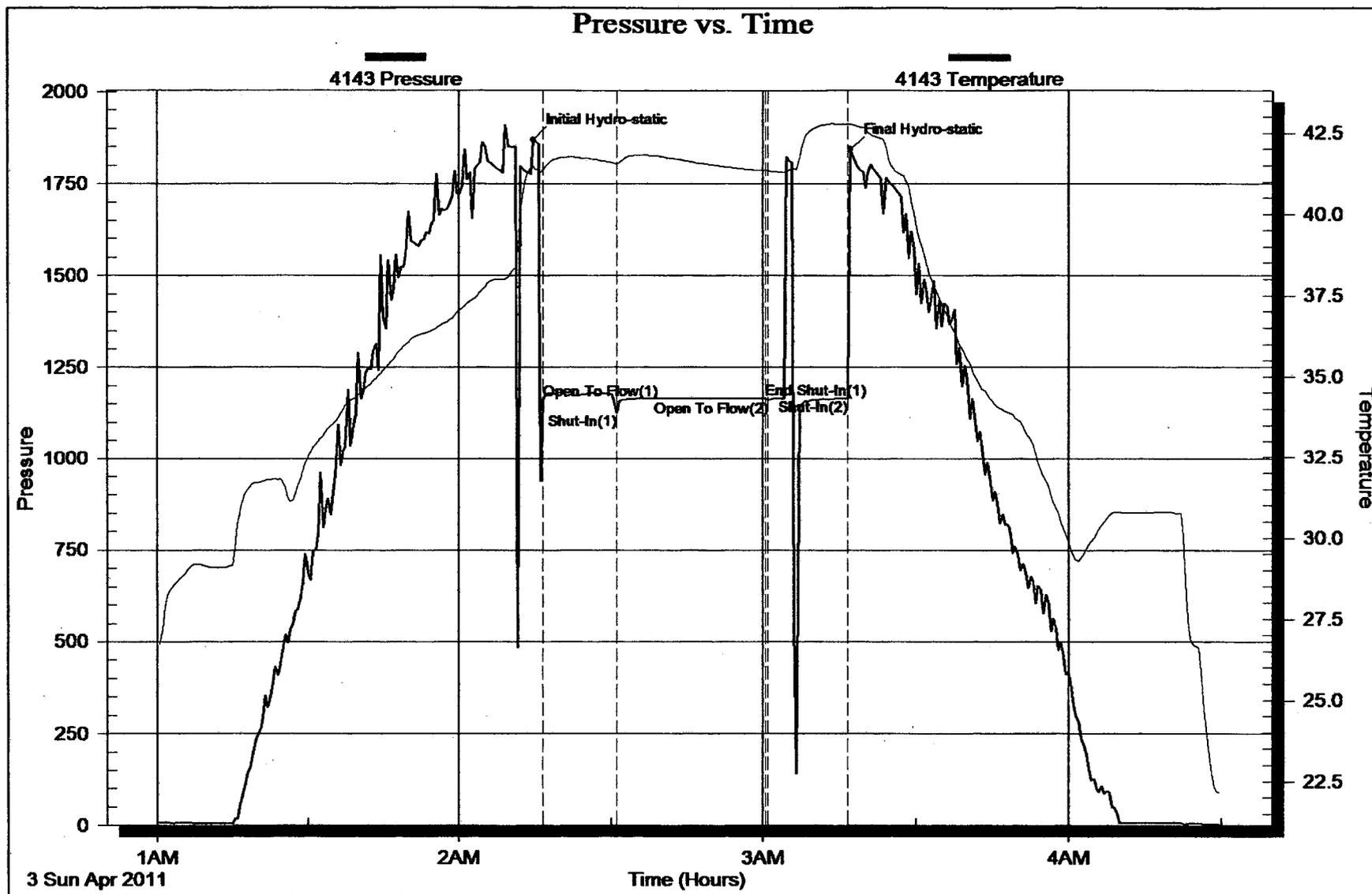
Total Length: 50.00 ft      Total Volume: 0.701 bbl  
 Num Fluid Samples: 0      Num Gas Bombs: 0      Serial #:  
 Laboratory Name:      Laboratory Location:  
 Recovery Comments:

Serial #: 4143

Inside Sandlin Oil Company

15-12s-18w

DST Test Number: 1

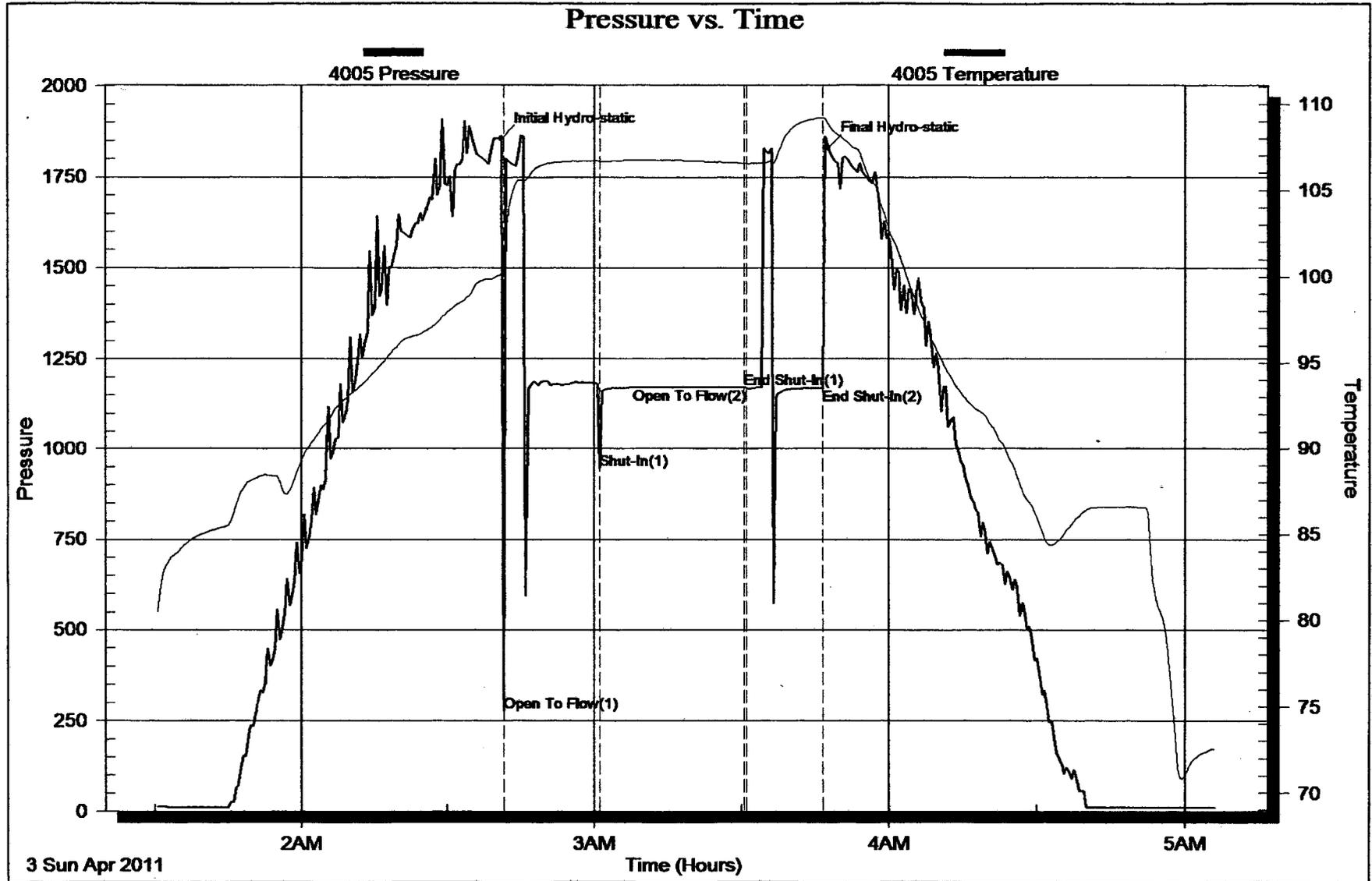


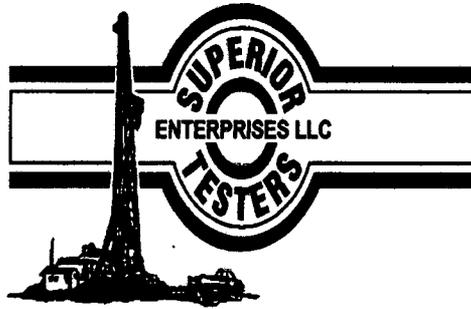
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Outside Sandlin Oil Company

15-12s-18w

DST Test Number: 1





## DRILL STEM TEST REPORT

Prepared For: **Sandlin Oil Company**

621 17th Street Suite 2055 Denver ,Colorado  
80293-2001

ATTN: Herb Deines

**15-12s-18w**

**Karlin #3**

Start Date: 2011.04.04 @ 09:00:00

End Date: 2011.04.04 @ 00:00:00

Job Ticket #: 16046                      DST #: 2

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

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Sandlin Oil Company

Karlin #3

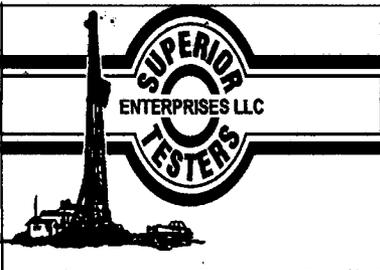
15-12s-18w

DST #2

Arbuckle

2011.04.04





# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Sandlin Oil Company **Karlin #3**  
 621 17th Street Suite 2055 Denver, Colorado **15-12s-18w**  
 80293-2001 Job Ticket: 16046 **DST#: 2**  
 ATTN: Herb Deines Test Start: 2011.04.04 @ 09:00:00

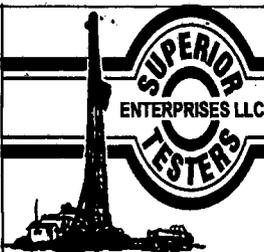
**Tool Information**

Drill Pipe: Length: 3643.00 ft	Diameter: 3.80 inches	Volume: 51.10 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: 20000.00 lb
Drill Collar: Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose: 60000.00 lb
	<b>Total Volume: 51.10 bbl</b>		Tool Chased: 0.00 ft
Drill Pipe Above KB: 8.00 ft			String Weight: Initial 48000.00 lb
Depth to Top Packer: 3656.00 ft			Final 49000.00 lb
Depth to Bottom Packer: ft			
Interval between Packers: 101.50 ft			
Tool Length: 122.50 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			3636.00	
Shut-In Tool	5.00			3641.00	
Hydroic Tool	5.00			3646.00	
Packer	5.00			3651.00	21.00 Bottom Of Top Packer
Packer	5.00			3656.00	
Perforations	1.00			3657.00	
Change Over Sub	0.75			3657.75	
Drill Pipe	30.58			3688.33	
Change Over Sub	0.75			3689.08	
Perforations	5.00			3694.08	
Recorder	1.00	4006	Inside	3695.08	
Recorder	1.00	4143	Outside	3696.08	101.50 Tool Interval
Packer	3.00			3699.08	
Anchor	2.00			3701.08	
Change Over Sub	0.75			3701.83	
Drill Pipe	31.92			3733.75	
Change Over Sub	0.75			3734.50	
Anchor	19.00		Outside	3753.50	
Recorder	1.00	26180	Outside	3754.50	
Bullnose	3.00			3757.50	1000121.50 Bottom Packers & Anchor

**Total Tool Length: 122.50**



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 621 17th Street Suite 2055 Denver, Colorado  
 80293-2001  
 ATTN: Herb Deines

**Karlin #3**  
**15-12s-18w**  
 Job Ticket: 16046      DST#: 2  
 Test Start: 2011.04.04 @ 09:00:00

## 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: 53.00 sec/qt	Cushion Volume: bbl		
Water Loss: 9.59 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psia		
Salinity: 5000.00 ppm			
Filter Cake: 1.00 inches			

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl

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

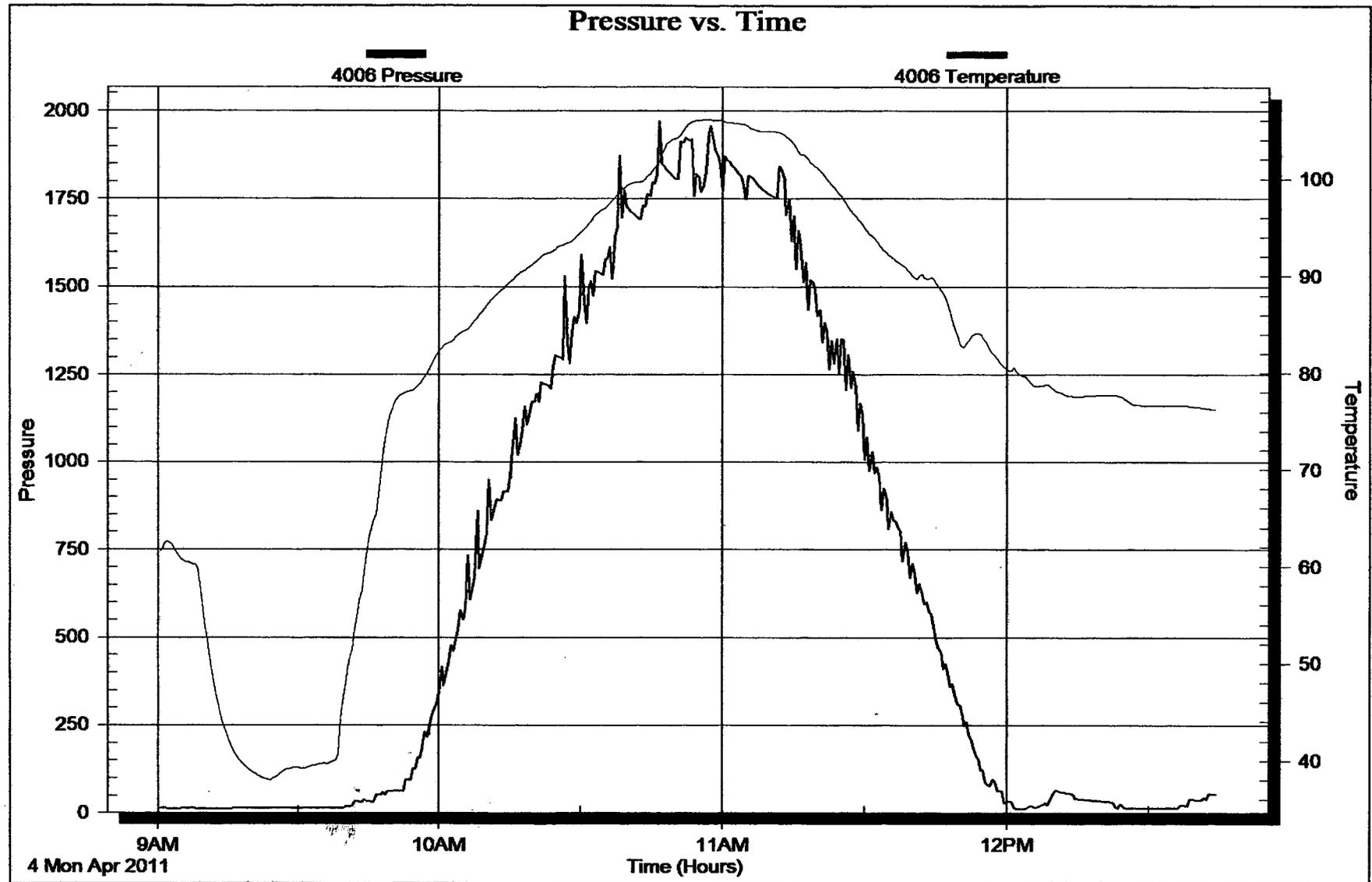
Serial #: 4006

Inside

Sandlin Oil Company

15-12s-18w

DST Test Number: 2





## DRILL STEM TEST REPORT

Prepared For: **Sandlin Oil Company**

621 17th Street Suite 2055 Denver ,Colorado  
80293-2001

ATTN: Herb Deines

**15-12s-18w**

**Karlin #3**

Start Date: 2011.04.04 @ 09:00:00

End Date: 2011.04.04 @ 00:00:00

Job Ticket #: 16047                      DST #: 3

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

Printed: 2011.04.05 @ 11:41:26

Sandlin Oil Company

Karlin #3

15-12s-18w

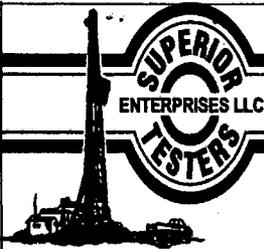
DST # 3

Arbuckle

2011.04.04







# DRILL STEM TEST REPORT

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 ATTN: Herb Deines

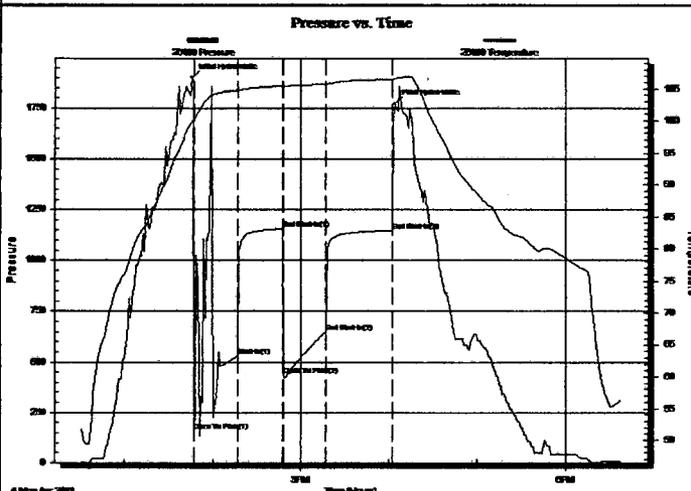
**Karlin #3**  
**15-12s-18w**  
 Job Ticket: 16047      **DST#: 3**  
 Test Start: 2011.04.04 @ 09:00:00

## GENERAL INFORMATION:

Formation: **Arbuckle**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 00:00:00  
 Time Test Ended: 00:00:00  
 Interval: **3616.00 ft (KB) To 3700.00 ft (KB) (TVD)**  
 Total Depth: 3700.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Fair  
 Test Type: Conventional Bottom Hole (Real-Time)  
 Tester: Gene Budig  
 Unit No: 3335-152  
 Reference Elevations: 2160.00 ft (KB)  
 2155.00 ft (CF)  
 KB to GR/CF: 5.00 ft

**Serial #: 26180 Below**  
 Press@RunDepth: 1148.46 psia @ 3757.41 ft (KB) Capacity: 5000.00 psia  
 Start Date: 2011.04.04 End Date: 2011.04.04 Last Calib.: 2011.04.04  
 Start Time: 12:31:00 End Time: 18:38:00 Time On Btm: 2011.04.04 @ 13:46:00  
 Time Off Btm: 2011.04.04 @ 16:04:00

**TEST COMMENT:** 1st Opening 30 Minutes-Fair blow built to the bottom of a 5 gallon bucket in 5 Minutes  
 1sr Shut-In 30 Minutes-Slight blow back  
 2nd Opening 30 Minutes-Fair blow built to the bottom of a 5 gallon bucket in 3 minutes  
 2nd Shut-In 45 Minutes-Slight blow back



## PRESSURE SUMMARY

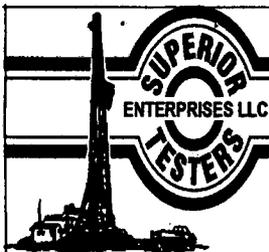
Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1901.87	99.81	Initial Hydro-static
2	160.19	100.31	Open To Flow (1)
31	532.59	104.72	Shut-In(1)
62	1156.91	105.42	End Shut-In(1)
62	437.68	105.43	Open To Flow (2)
91	650.62	105.74	End Shut-In(2)
136	1148.46	106.48	End Shut-In(3)
138	1773.09	106.58	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
250.00	Muddy Gassy Oil	3.51
0.00	Would not grind out	0.00
1150.00	Slightly gassy oil	16.13
0.00	12% Gas 88% Oil Gravity 29 Corrected	0.00

## Gas Rates

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



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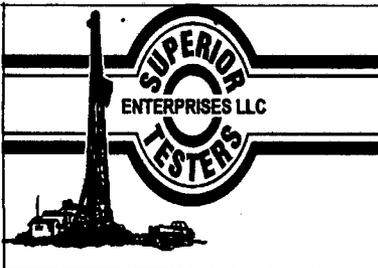
**Karlin #3**  
**15-12s-18w**  
 Job Ticket: 16047      DST#: 3  
 Test Start: 2011.04.04 @ 09:00:00

## Tool Information

Drill Pipe:	Length: 3610.00 ft	Diameter: 3.80 inches	Volume: 50.64 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: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose:	65000.00 lb
			<u>Total Volume: 50.64 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	15.00 ft			String Weight: Initial	48000.00 lb
Depth to Top Packer:	3616.00 ft			Final	51000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	144.41 ft				
Tool Length:	165.41 ft				
Number of Packers:	2	Diameter:	6.75 inches		
Tool Comments:					

## Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3596.00	
Shut-In Tool	5.00			3601.00	
Hydroic Tool	5.00			3606.00	
Packer	5.00			3611.00	21.00      Bottom Of Top Packer
Packer	5.00			3616.00	
Perforations	10.00			3626.00	
Change Over Sub	0.75			3626.75	
Drill Pipe	61.49			3688.24	
Change Over Sub	0.75			3688.99	
Perforations	5.00			3693.99	
Recorder	1.00	4143	Inside	3694.99	
Recorder	1.00	4005	Outside	3695.99	
Blank Off Sub	1.00			3696.99	144.41      Tool Interval
Packer	5.00			3701.99	
Anchor	2.00			3703.99	
Change Over Sub	0.75			3704.74	
Drill Pipe	31.92			3736.66	
Change Over Sub	0.75			3737.41	
Anchor	19.00			3756.41	
Recorder	1.00	26180	Below	3757.41	
Bullnose	3.00			3760.41	1000164.41      Bottom Packers & Anchor
<b>Total Tool Length:</b>		<b>165.41</b>			



# DRILL STEM TEST REPORT

FLUID SUMMARY

Sandlin Oil Company

Karlin #3

621 17th Street Suite 2055 Denver, Colorado  
80293-2001

15-12s-18w

Job Ticket: 16047

DST#: 3

ATTN: Herb Deines

Test Start: 2011.04.04 @ 09:00:00

## 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: 53.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 9.59 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psia

Salinity: 50001.00 ppm

Filter Cake: inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
250.00	Muddy Gassy Oil	3.507
0.00	Would not grind out	0.000
1150.00	Slightly gassy oil	16.131
0.00	12%Gas 88%Oil Gravity 29 Corrected	0.000

Total Length: 1400.00 ft

Total Volume: 19.638 bbl

Num Fluid Samples: 0

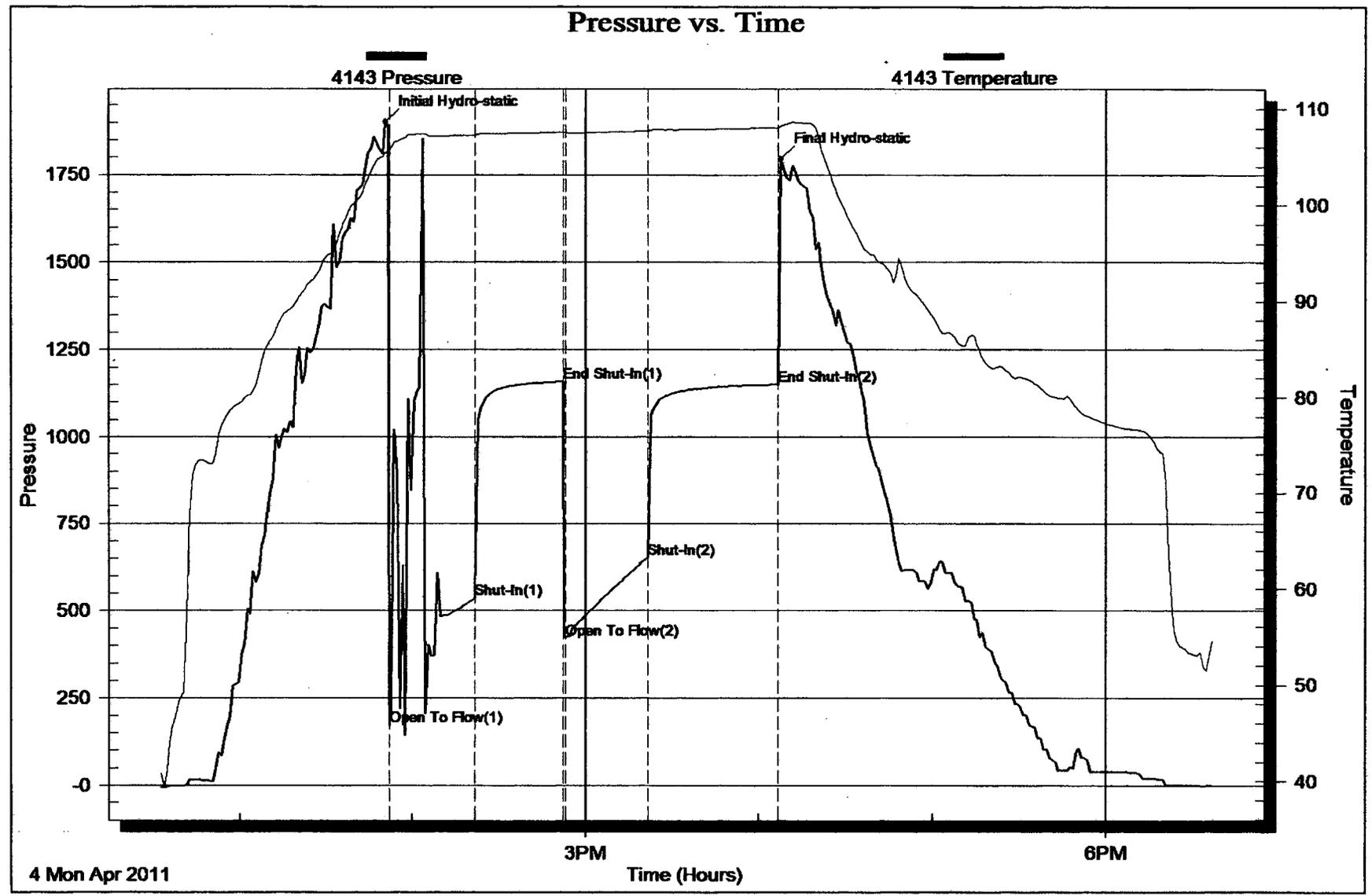
Num Gas Bombs: 0

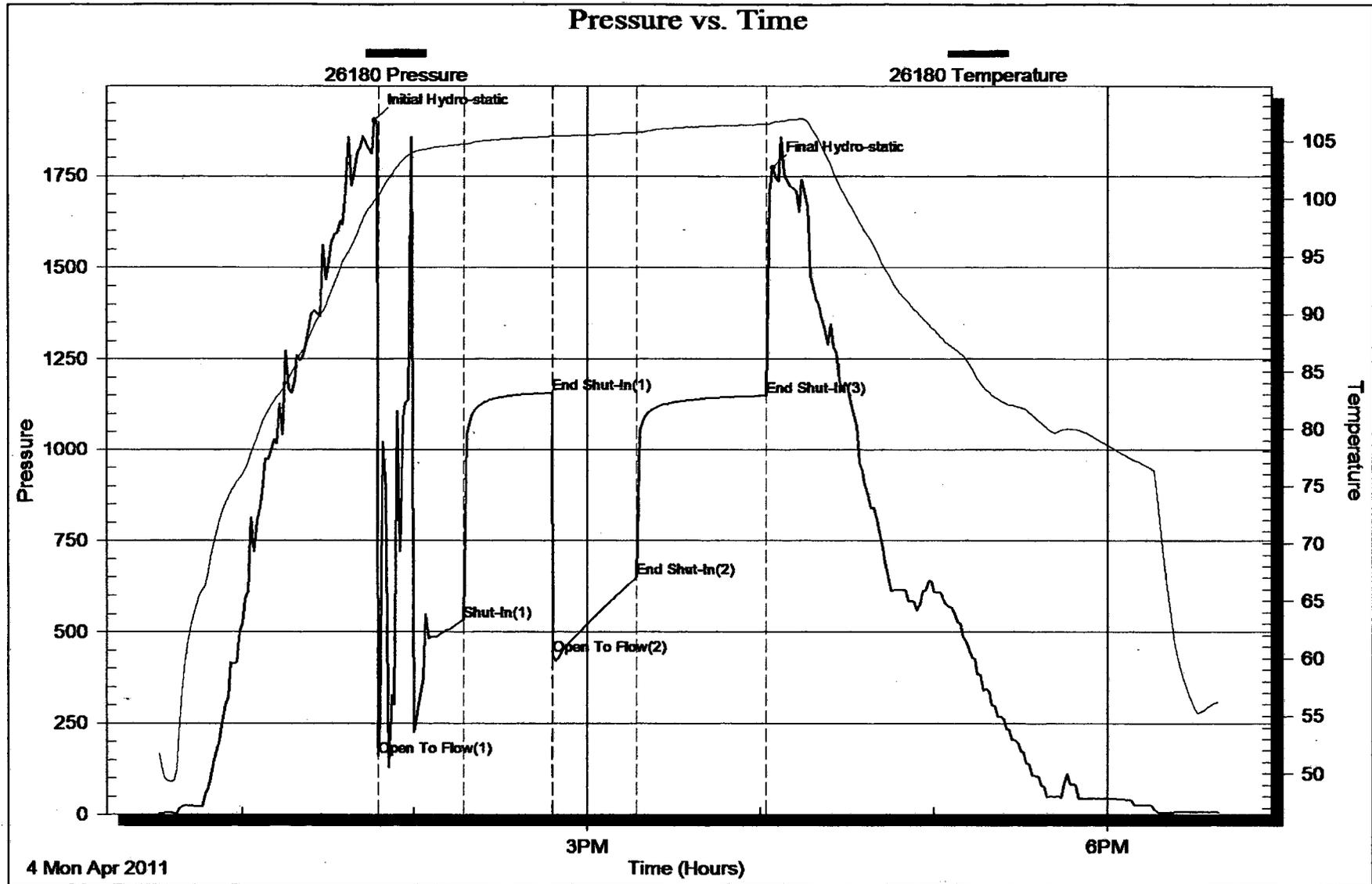
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:





Serial #: 4005

Outside Sandlin Oil Company

15-12s-18w

DST Test Number: 3

