

15-185-23663

20-25s-11w



DRILL STEM TEST REPORT

Prepared For: **Reif Oil and Gas Company**

P.O. Box 298 Hoisington Kansas 67544

ATTN: Josh Austin

20/25S/11W Stafford

Schmidt #2

Start Date: 2011.02.21 @ 09:45:00

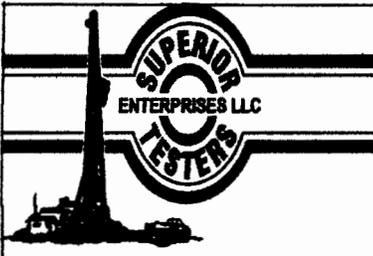
End Date: 2011.02.21 @ 00:00:00

Job Ticket #: 15658 DST #: 2

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

Printed: 2011.02.22 @ 14:40:45

Reif Oil and Gas Company
Schmidt #2
20/25S/11W Stafford
DST # 1
Lansing "I and J" Zo
2011.02.19



DRILL STEM TEST REPORT

Reif Oil and Gas Company
 P.O. Box 298 Hoisington Kansas 67544
 ATTN: Josh Austin

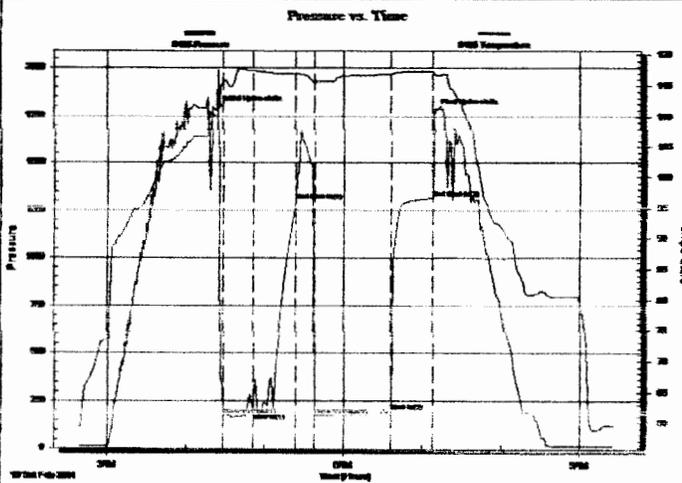
Schmidt #2
 20/25S/11W Stafford
 Job Ticket: 15657 DST#: 1
 Test Start: 2011.02.19 @ 02:38:00

GENERAL INFORMATION:

Formation: **Lansing "I and J" Zo**
 Deviated: **No Whipstock** ft (KB)
 Test Type: **Conventional Bottom Hole (Initial)**
 Time Tool Opened: **04:35:30**
 Tester: **Dylan E Ellis**
 Time Test Ended: **09:26:00**
 Unit No: **3345/Great Bend/96**
 Interval: **3683.00 ft (KB) To 3729.00 ft (KB) (TVD)**
 Reference Elevations: **1843.00 ft (KB)**
 Total Depth: **3729.00 ft (KB) (TVD)**
1834.00 ft (CF)
 Hole Diameter: **7.88 inches** Hole Condition: **Fair**
 KB to GR/CF: **9.00 ft**

Serial #: **8405** Inside
 Press@RunDepth: **1314.08 psia @ 3724.62 ft (KB)** Capacity: **5000.00 psia**
 Start Date: **2011.02.19** End Date: **2011.02.19** Last Calib.: **2011.02.19**
 Start Time: **02:39:01** End Time: **09:26:25** Time On Btm: **2011.02.19 @ 04:23:55**
 Time Off Btm: **2011.02.19 @ 07:09:25**

TEST COMMENT: 1ST Opening 30 Minutes weak surface blow /blow died in 11 minutes/slide tool about 9 foot to bottom
 1ST Shut-in 30 Minutes no blo back
 2ND Opening 60 Minutes weak surface blow /blow w as surging/ flushed tool 2 times/blow 0.25" into bucket
 2ND Shut-in 30 Minutes no blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1780.23	110.20	Initial Hydro-static
5	172.36	115.66	Open To Flow (1)
27	189.30	117.36	Shut-In(1)
60	1300.17	116.98	End Shut-In(1)
74	173.50	115.50	Open To Flow (2)
133	195.25	116.81	Shut-In(2)
165	1314.08	117.26	End Shut-In(2)
166	1767.01	116.84	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
330.00	Mud	4.63

Gas Rates

Choke (inches)	Pressure (psia)	Gas Rate (Mcfd)



DRILL STEM TEST REPORT

TOOL DIAGRAM

Reif Oil and Gas Company
 P.O. Box 298 Hoisington Kansas 67544
 ATTN: Josh Austin

Schmidt #2
 20/25S/11W Stafford
 Job Ticket: 15657 DST#: 1
 Test Start: 2011.02.19 @ 02:38:00

Tool Information

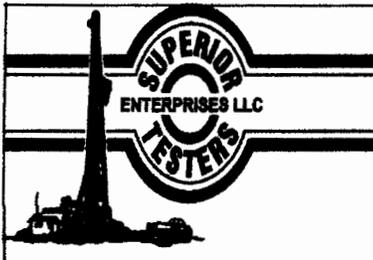
Drill Pipe:	Length: 3690.00 ft	Diameter: 3.80 inches	Volume: 51.76 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 15000.00 lb
			<u>Total Volume: 51.76 bbl</u>	Tool Chased 9.00 ft
Drill Pipe Above KB:	27.00 ft			String Weight: Initial 33000.00 lb
Depth to Top Packer:	3683.00 ft			Final 33000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	45.62 ft			
Tool Length:	65.62 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut-In Tool	5.00			3668.00	
Hydraulic Tool	5.00			3673.00	
Packer	5.00			3678.00	20.00 Bottom Of Top Packer
Packer	5.00			3683.00	
Perforations	5.00			3688.00	
Change Over Sub	0.75			3688.75	
Drill Pipe	31.12			3719.87	
Change Over Sub	0.75			3720.62	
Perforations	3.00			3723.62	
Recorder	1.00	8405	Inside	3724.62	
Recorder	1.00	8400	Outside	3725.62	
Bull Plug	3.00			3728.62	45.62 Bottom Packers & Anchor

Total Tool Length: 65.62



DRILL STEM TEST REPORT

FLUID SUMMARY

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ATTN: Josh Austin

Schmidt #2
20/25S/11W Stafford
Job Ticket: 15657 DST#: 1
Test Start: 2011.02.19 @ 02:38:00

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: 9.98 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psia		
Salinity: 5800.00 ppm			
Filter Cake: 1.00 inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
330.00	Mud	4.629

Total Length: 330.00 ft Total Volume: 4.629 bbl

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

Laboratory Name: Laboratory Location:

Recovery Comments: Have to replace top packer.

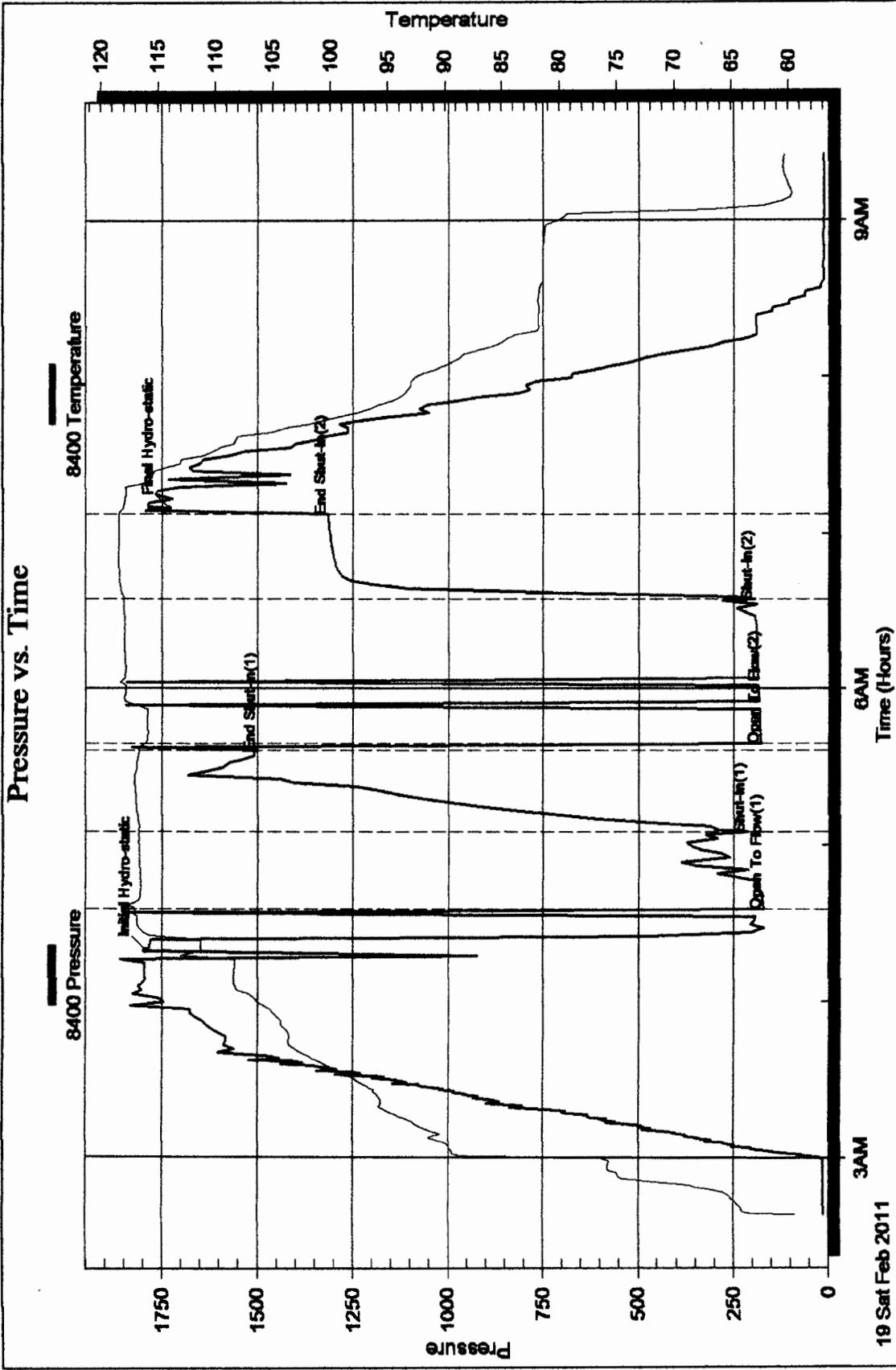
Serial #: 8400

Outside Ref Oil and Gas Company

20/25S/11W Stafford

DST Test Number: 1

Pressure vs. Time



Serial #: 8405

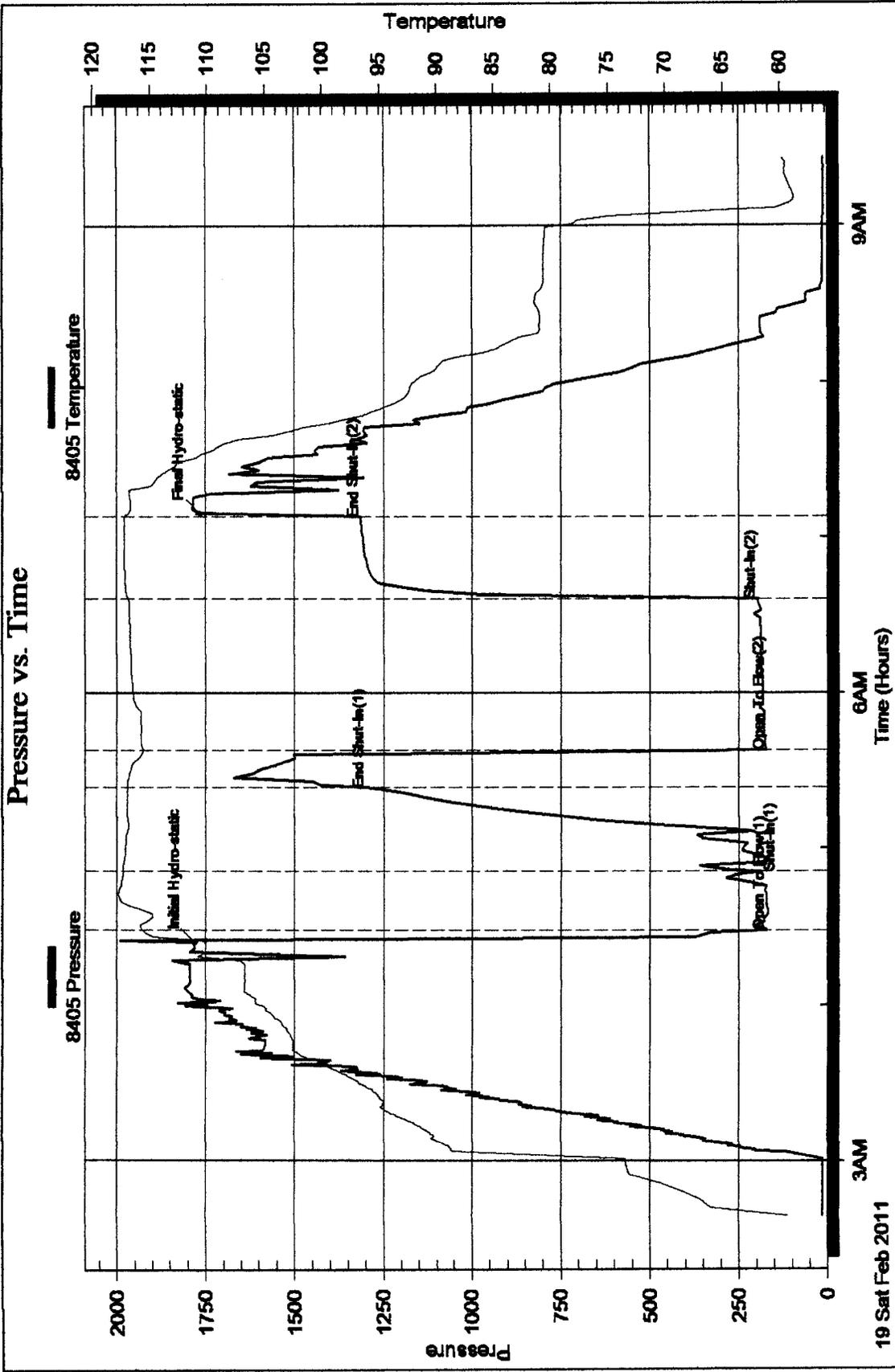
Inside

Reif Oil and Gas Company

2025S/11W Stafford

DST Test Number: 1

Pressure vs. Time





DRILL STEM TEST REPORT

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20/25S/11W Stafford

Schmidt #2

Start Date: 2011.02.21 @ 09:45:00

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Job Ticket #: 15658 DST #: 2

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

Printed: 2011.02.22 @ 14:34:45

Reif Oil and Gas Company

Schmidt #2

20/25S/11W Stafford

DST # 2

Mississippi

2011.02.21



DRILL STEM TEST REPORT

TOOL DIAGRAM

Reif Oil and Gas Company
 P.O. Box 298 Hoisington Kansas 67544
 ATTN: Josh Austin

Schmidt #2
 20/25S/11W Stafford
 Job Ticket: 15658 DST#: 2
 Test Start: 2011.02.21 @ 09:45:00

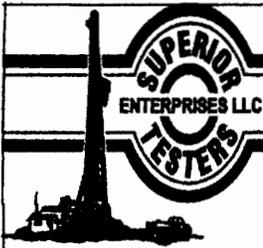
Tool Information

Drill Pipe:	Length: 3812.00 ft	Diameter: 3.80 inches	Volume: 53.47 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: 45000.00 lb
			<u>Total Volume: 51.76 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	7.00 ft			String Weight: Initial 36000.00 lb
Depth to Top Packer:	3825.00 ft			Final 38000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	65.03 ft			
Tool Length:	85.03 ft			
Number of Packers:	2	Diameter: - inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut-In Tool	5.00			3810.00	-999999.00
Hydraulic Tool	5.00			3815.00	-999999.00
Packer	5.00			3820.00	20.00 Bottom Of Top Packer
Packer	5.00			3825.00	-999999.00
Perforations	9.00			3834.00	-999999.00
Change Over Sub	0.75			3834.75	-999999.00
Drill Pipe	31.53			3866.28	-999999.00
Change Over Sub	0.75			3867.03	-999999.00
Perforations	18.00			3885.03	-999999.00
Recorder	1.00	8405	Inside	3886.03	-999999.00
Recorder	1.00	8400	Outside	3887.03	-999999.00
Bull Plug	3.00			3890.03	65.03 Bottom Packers & Anchor

Total Tool Length: 85.03



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20/25S/11W Stafford
Job Ticket: 15658 DST#: 2
Test Start: 2011.02.21 @ 09:45:00

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: 8.79 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psia		
Salinity: 6200.00 ppm			
Filter Cake: 1.00 inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
510.00	Gas in the pipr	7.154
30.00	Gassy mud	0.421

Total Length: 540.00 ft Total Volume: 7.575 bbl

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

Laboratory Name: Laboratory Location:

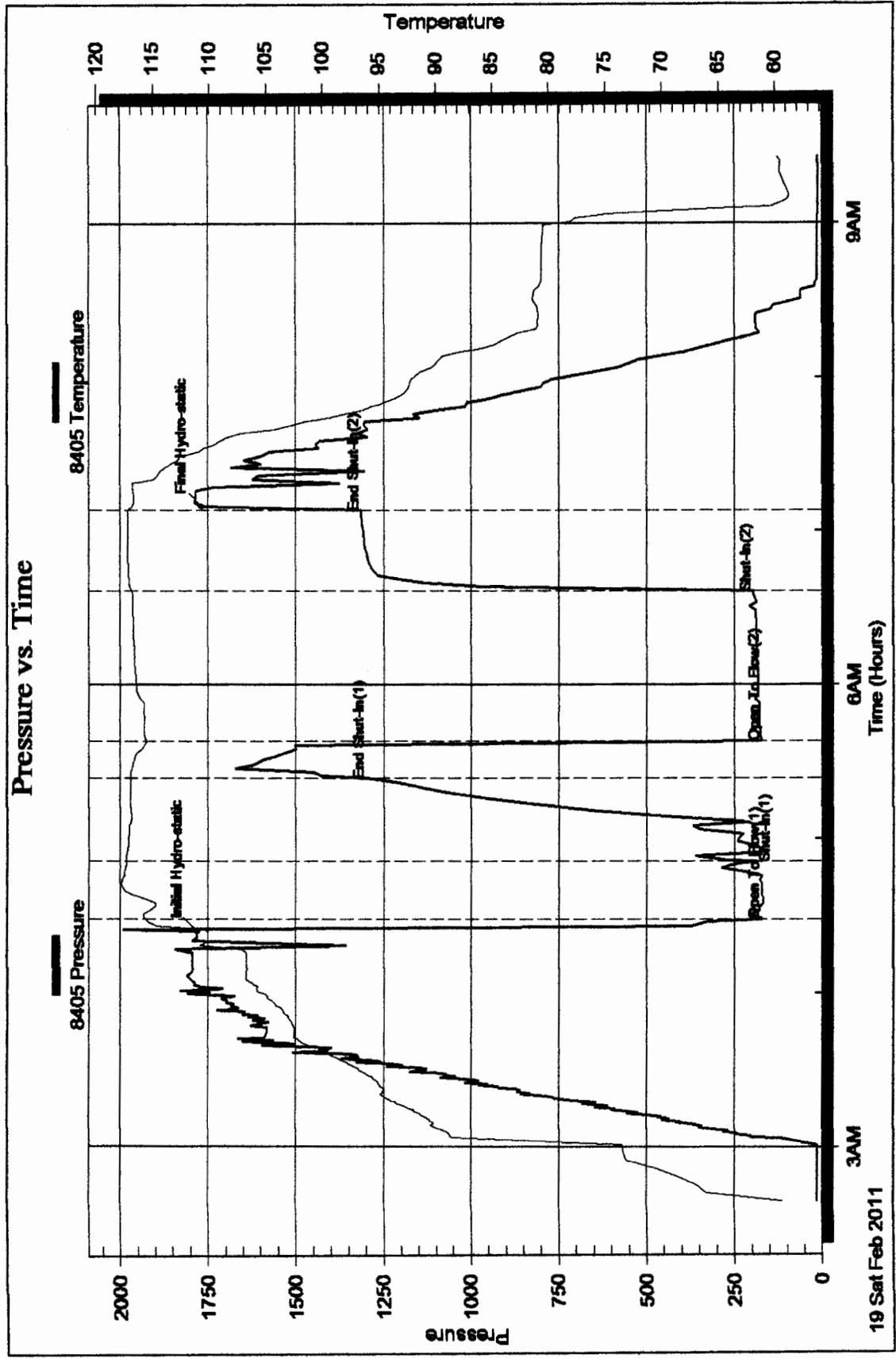
Recovery Comments:

Serial #: 8405

Inside Reif Oil and Gas Company

2025S11W Stafford

DST Test Number: 2



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Ref. No: 15658

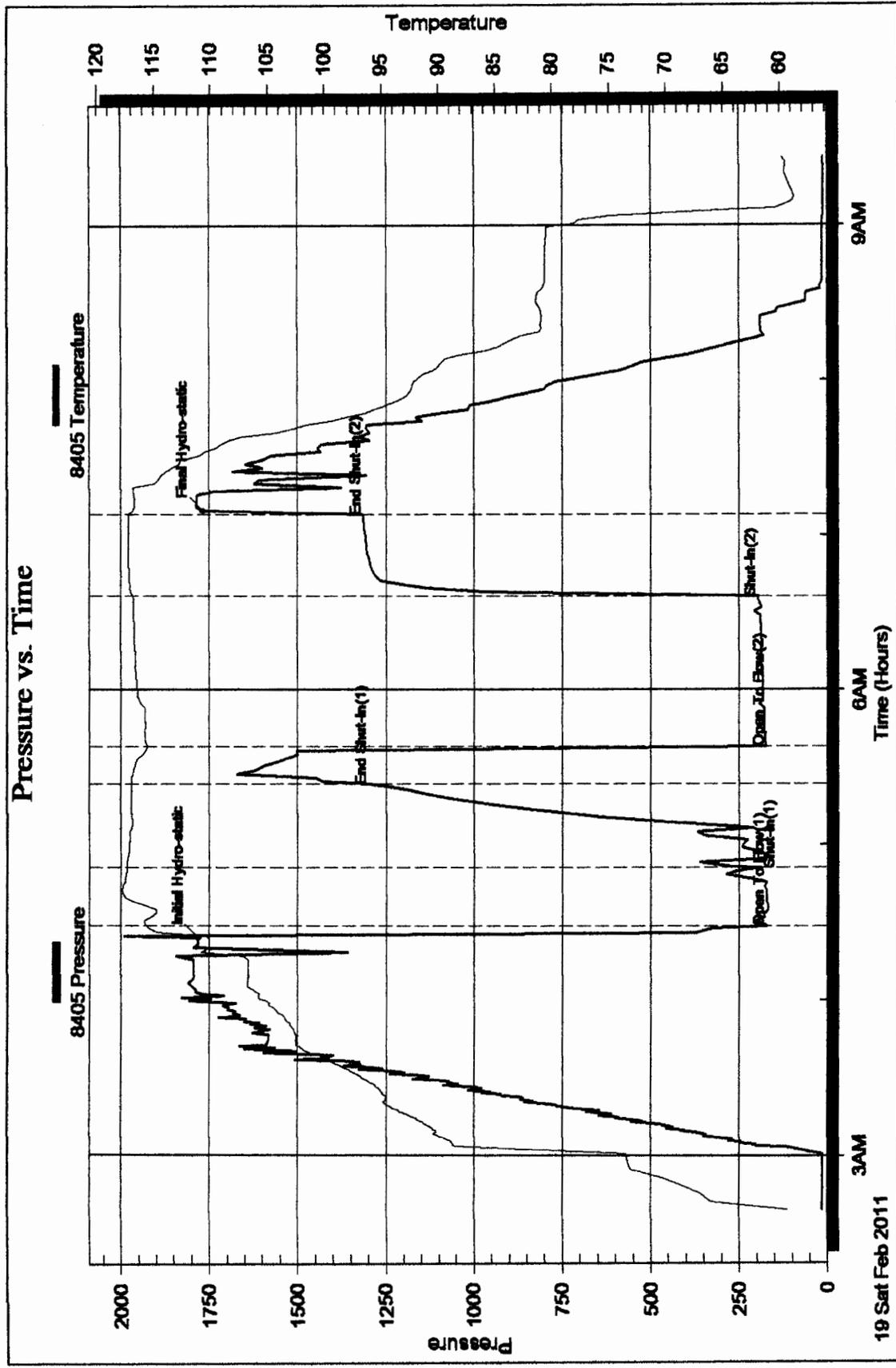
Superior Testers Enterprises LLC

Serial #: 8400

Outside Reif Oil and Gas Company

2025S/11W Stafford

DST Test Number: 2



Superior Testers Enterprises LLC

Ref. No: 15658

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Schmidt #2

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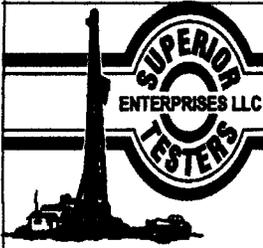
End Date: 2011.02.21 @ 00:00:00

Job Ticket #: 15659 DST #: 3

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

Printed: 2011.02.22 @ 14:34:21

Reif Oil and Gas Company Schmidt #2 20/25S/11W Stafford DST # 3 Mississippi 2011.02.21



DRILL STEM TEST REPORT

TOOL DIAGRAM

Reif Oil and Gas Company
 P.O. Box 298 Hoisington Kansas 67544
 ATTN: Josh Austin

Schmidt #2
 20/25S/11W Stafford
 Job Ticket: 15659 DST#: 3
 Test Start: 2011.02.21 @ 09:00:00

Tool Information

Drill Pipe:	Length: 3875.00 ft	Diameter: 3.80 inches	Volume: 54.36 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: 85.00 lb
			Total Volume: 54.36 bbl	Tool Chased: 0.00 ft
Drill Pipe Above KB:	5.00 ft			String Weight: Initial 61000.00 lb
Depth to Top Packer:	3890.00 ft			Final 61000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	31.00 ft			
Tool Length:	51.00 ft			
Number of Packers:	2	Diameter: 2.00 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
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Shut-In Tool	5.00			3875.00	
Hydraulic Tool	5.00			3880.00	
Packer	5.00			3885.00	20.00 Bottom Of Top Packer
Packer	5.00			3890.00	
Perforations	26.00			3916.00	
Recorder	1.00	8405	Inside	3917.00	
Recorder	1.00	8400	Outside	3918.00	
Bull Plug	3.00			3921.00	31.00 Bottom Packers & Anchor

Total Tool Length: 51.00



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Test Start: 2011.02.21 @ 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: 59.00 sec/qt	Cushion Volume: bbl		
Water Loss: 9.19 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psia		
Salinity: 9300.00 ppm			
Filter Cake: inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
30.00	Drilling Mud	0.421

Total Length: 30.00 ft Total Volume: 0.421 bbl

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

Laboratory Name: Laboratory Location:

Recovery Comments:

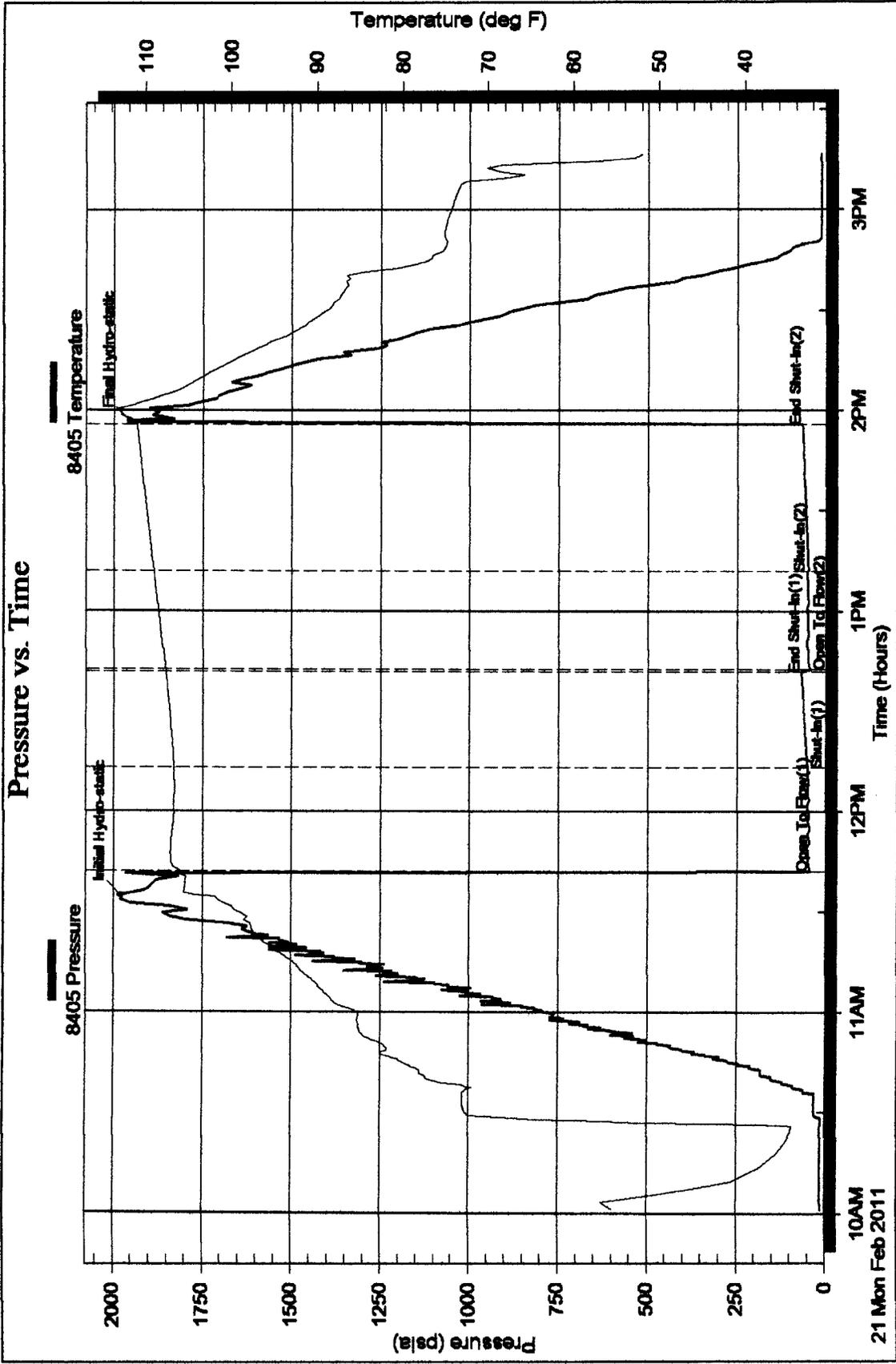
Serial #: 8405

Inside Reif Oil and Gas Company

2025S/11W Stafford

DST Test Number: 3

Pressure vs. Time



Superior Testers Enterprises LLC

Ref. No: 15659

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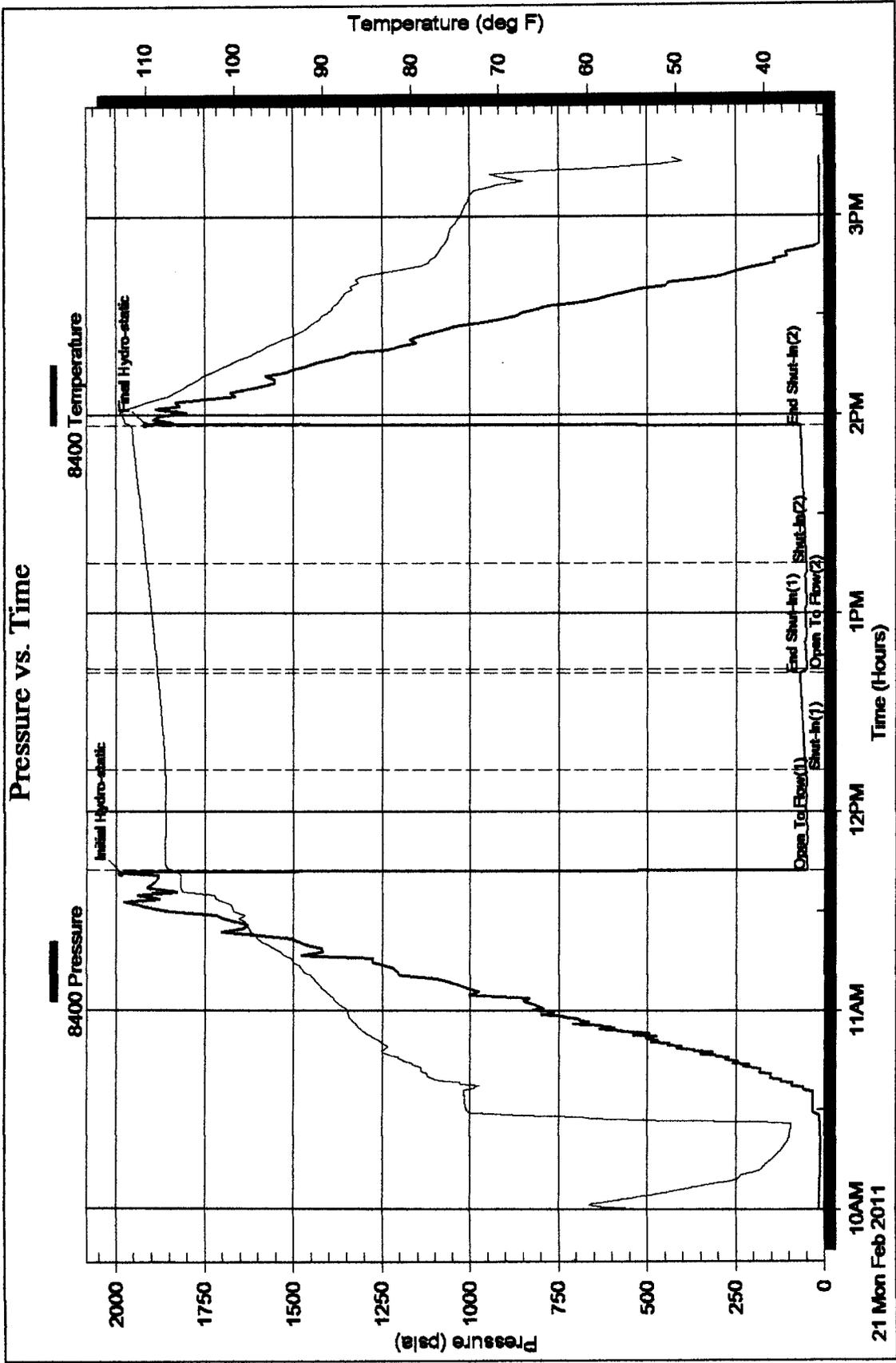
Serial #: 8400

Outside Reif Oil and Gas Company

2025S/1W Stafford

DST Test Number: 3

Pressure vs. Time



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Ref. No: 15659

Superior Testers Enterprises LLC