

15-185-23664

20-25s-11w



DRILL STEM TEST REPORT

Prepared For: **REIF OIL & GAS COMPANY LLC**

PO BOX 298 HOISINGTON KS 67544

ATTN: JOSH AUSTIN

20-25-11W STAFFORD

ZINK #2

Start Date: 2011.02.28 @ 18:54:00

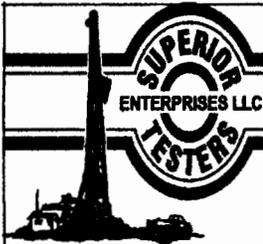
End Date: 2011.03.01 @ 01:21:30

Job Ticket #: 16099 DST #: 1

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

Printed: 2011.03.01 @ 12:40:41

REIF OIL & GAS COMPANY LLC ZINK #2 20-25-11W STAFFORD DST # 1 MISSISSIPPI 2011.02.28



DRILL STEM TEST REPORT

REF OIL & GAS COMPANY LLC
 PO BOX 298 HOISINGTON KS 67544
 ATTN: JOSH AUSTIN

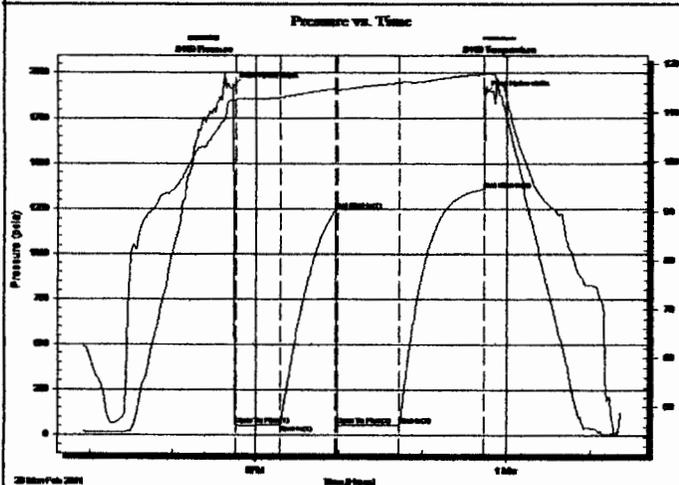
ZINK #2
20-25-11W STAFFORD
 Job Ticket: 16099 DST#: 1
 Test Start: 2011.02.28 @ 18:54:00

GENERAL INFORMATION:

Formation: **MISSISSIPPI**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 20:45:30
 Time Test Ended: 01:21:30
 Interval: **3898.00 ft (KB) To 3950.00 ft (KB) (TVD)**
 Total Depth: 3950.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Poor
 Test Type: Conventional Bottom Hole (Initial)
 Tester: JARED SCHECK
 Unit No: 3320- GREAT BEND -90
 Reference Elevations: 1836.00 ft (KB)
 1827.00 ft (CF)
 KB to GR/CF: 9.00 ft

Serial #: 8419 **Inside**
 Press@RunDepth: 55.46 psia @ 3946.00 ft (KB) Capacity: 5000.00 psia
 Start Date: 2011.02.28 End Date: 2011.03.01 Last Calib.: 2011.03.01
 Start Time: 18:55:00 End Time: 01:21:30 Time On Btm: 2011.02.28 @ 20:43:30
 Time Off Btm: 2011.02.28 @ 23:44:30

TEST COMMENT: 30/INITIAL OPEN:STRONG BLOW BUILT BOTTOM OF BUCKET IN 4 MINUTES
 45/INITIAL SHUT IN:VERY WEAK SURFACE BLOW
 45/FINAL OPEN:STRONG BLOW BUILT BOTTOM OF BUCKET IN 1 MINUTE
 60/FINAL SHUT IN:NO BLOW BACK



PRESSURE SUMMARY

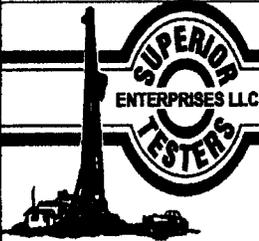
Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1926.39	112.67	Initial Hydro-static
2	55.65	112.78	Open To Flow (1)
34	57.07	113.23	Shut-in(1)
74	1244.22	114.96	End Shut-in(1)
75	55.24	114.71	Open To Flow (2)
120	55.46	116.15	Shut-in(2)
181	1361.74	117.90	End Shut-in(2)
181	1882.93	118.10	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
30.00	MUD 100%	0.42

Gas Rates

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



DRILL STEM TEST REPORT

REF OIL & GAS COMPANY LLC

ZINK #2

PO BOX 298 HOISINGTON KS 67544

20-25-11W STAFFORD

ATTN: JOSH AUSTIN

Job Ticket: 16099

DST#: 1

Test Start: 2011.02.28 @ 18:54:00

GENERAL INFORMATION:

Formation: **MISSISSIPPI**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 20:45:30

Time Test Ended: 01:21:30

Test Type: Conventional Bottom Hole (Initial)

Tester: JARED SCHECK

Unit No: 3320- GREAT BEND -90

Interval: 3898.00 ft (KB) To 3950.00 ft (KB) (TVD)

Total Depth: 3950.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Poor

Reference Elevations: 1836.00 ft (KB)

1827.00 ft (CF)

KB to GR/CF: 9.00 ft

Serial #: 8524 Outside

Press@RunDepth: 1362.92 psia @ 3947.00 ft (KB)

Start Date: 2011.02.28

End Date: 2011.03.01

Start Time: 18:55:00

End Time: 01:21:30

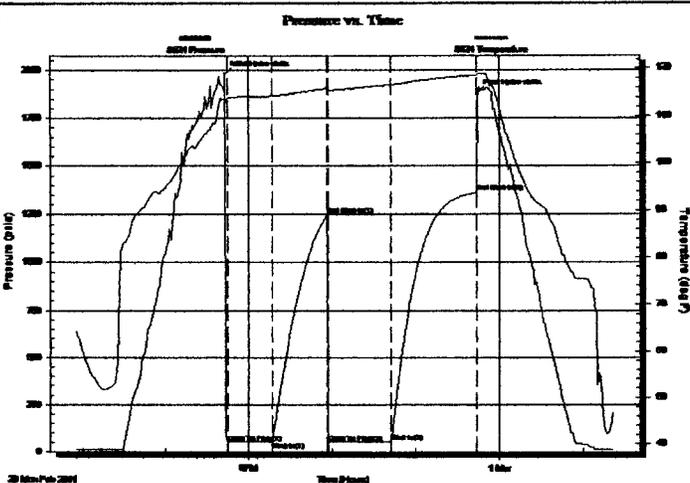
Capacity: 5000.00 psia

Last Calib.: 2011.03.01

Time On Btrr: 2011.02.28 @ 20:43:00

Time Off Btrr: 2011.02.28 @ 23:44:30

TEST COMMENT: 30/INITIAL OPEN:STRONG BLOW BUILT BOTTOM OF BUCKET IN 4 MINUTES
 45/INITIAL SHUT IN:VERY WEAK SURFACE BLOW
 45/FINAL OPEN:STRONG BLOW BUILT BOTTOM OF BUCKET IN 1 MINUTE
 60/FINAL SHUT IN:NO BLOW BACK



PRESSURE SUMMARY

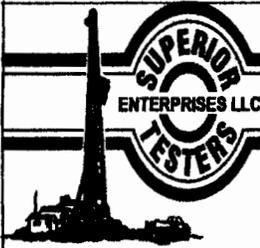
Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1977.85	113.28	Initial Hydro-static
2	50.32	113.72	Open To Flow (1)
34	54.05	114.25	Shut-In(1)
74	1248.28	115.70	End Shut-In(1)
75	49.66	115.40	Open To Flow (2)
120	54.43	116.56	Shut-In(2)
181	1362.92	118.51	End Shut-In(2)
182	1879.59	118.62	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
30.00	MUD 100%	0.42

Gas Rates

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



DRILL STEM TEST REPORT

TOOL DIAGRAM

REF OIL & GAS COMPANY LLC
 PO BOX 298 HOISINGTON KS 67544
 ATTN: JOSH AUSTIN

ZINK #2
20-25-11W STAFFORD
 Job Ticket: 16099 DST#: 1
 Test Start: 2011.02.28 @ 18:54:00

Tool Information

Drill Pipe:	Length: 3907.00 ft	Diameter: 3.80 inches	Volume: 54.80 bbl	Tool Weight: 1000.00 lb
Heavy Wt. Pipe:	Length: 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: 75000.00 lb
			Total Volume: 54.80 bbl	Tool Chased 2.00 ft
Drill Pipe Above KB:	30.00 ft			String Weight: Initial 35000.00 lb
Depth to Top Packer:	3898.00 ft			Final 35000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	52.00 ft			
Tool Length:	73.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments: TOOL CHASED 2 FEET TO BOTTOM

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3878.00	
Shut-in Tool	5.00			3883.00	
Hydraulic Tool	5.00			3888.00	
Recorder	5.00			3893.00	
Packer	5.00			3898.00	21.00 Bottom Of Top Packer
Change Over Sub	0.75			3898.75	
Drill Pipe	30.50			3929.25	
Change Over Sub	0.75			3930.00	
Perforations	15.00			3945.00	
Recorder	1.00	8419	Inside	3946.00	
Recorder	1.00	8524	Outside	3947.00	
Bullhose	3.00			3950.00	52.00 Anchor Tool

Total Tool Length: 73.00



DRILL STEM TEST REPORT

FLUID SUMMARY

REF OIL & GAS COMPANY LLC
 PO BOX 298 HOISINGTON KS 67544
 ATTN: JOSH AUSTIN

ZINK #2
20-25-11W STAFFORD
 Job Ticket: 16099 DST#: 1
 Test Start: 2011.02.28 @ 18:54:00

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: 49.00 sec/qt	Cushion Volume: bbl		
Water Loss: 7.99 in ³	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
30.00	MUD 100%	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: TOOL CHASED 2 FEET TO BOTTOM

Serial #: 8419

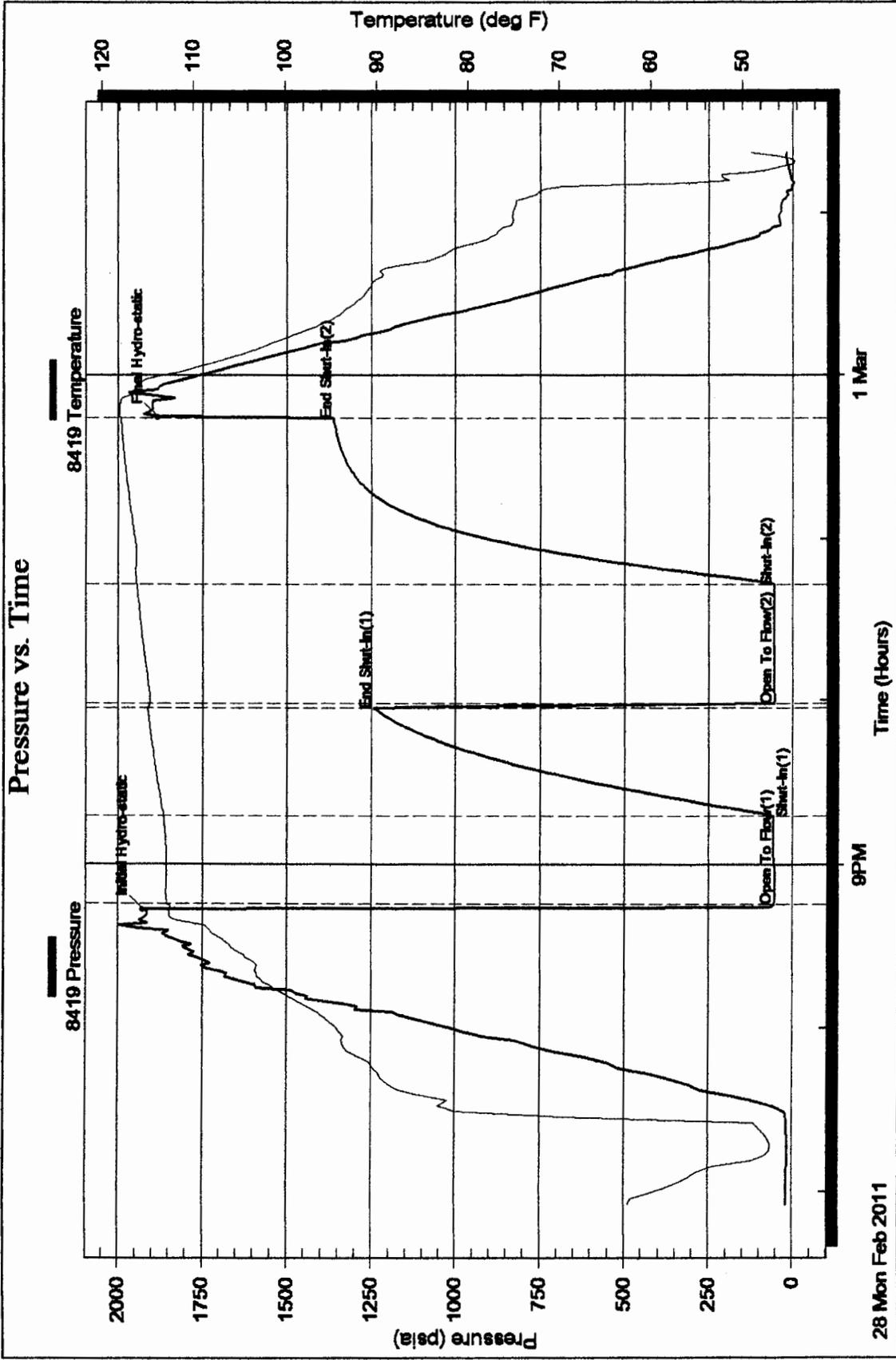
Inside

REF OIL & GAS COMPANY LLC

20-25-11W STAFFORD

DST Test Number: 1

Pressure vs. Time

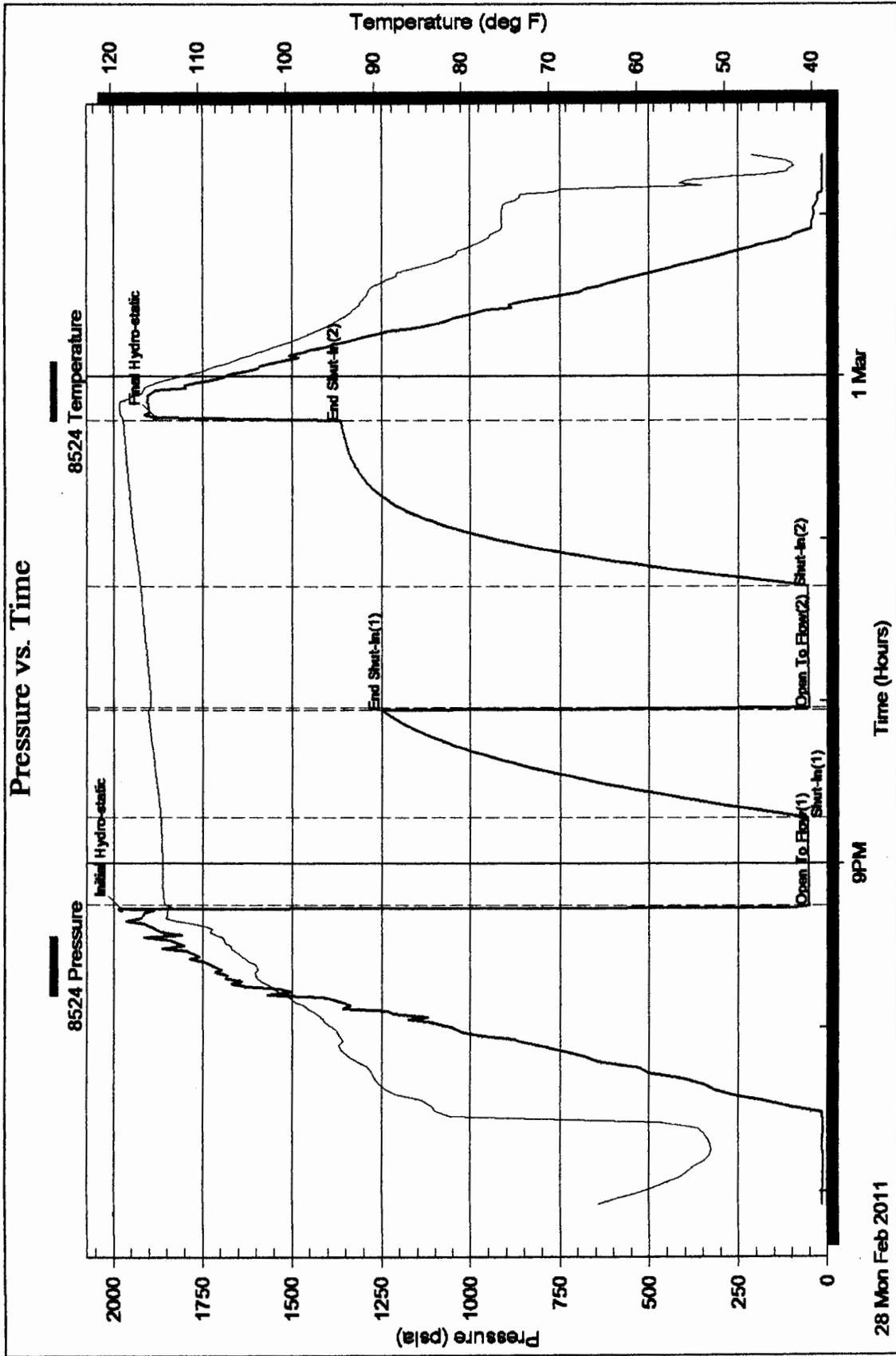


Serial #: 8524

Outside REF OIL & GAS COMPANY LLC

20-25-11W STAFFORD

DST Test Number: 1



28 Mon Feb 2011

9PM

Time (Hours)

1 Mar

Superior Testers Enterprises LLC

Ref. No: 16099

Printed: 2011.03.01 @ 12:40:42



DRILL STEM TEST REPORT

Prepared For: **REIF OIL & GAS COMPANY LLC**

PO BOX 298 HOISINGTON KS 67544

ATTN: JOSH AUSTIN

20-25-11W STAFFORD

ZINK #2

Start Date: 2011.03.01 @ 14:30:00

End Date: 2011.03.01 @ 17:30:00

Job Ticket #: 16100 DST #: 2

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

Printed: 2011.03.04 @ 13:47:21

REIF OIL & GAS COMPANY LLC ZINK #2 20-25-11W STAFFORD DST # 2 VIOLA 2011.03.01



DRILL STEM TEST REPORT

TOOL DIAGRAM

REF OIL & GAS COMPANY LLC
 PO BOX 298 HOISINGTON KS 67544
 ATTN: JOSH AUSTIN

ZINK #2
20-25-11W STAFFORD
 Job Ticket: 16100 DST#: 2
 Test Start: 2011.03.01 @ 14:30:00

Tool Information

Drill Pipe:	Length: 4062.00 ft	Diameter: 3.80 inches	Volume: 56.98 bbl	Tool Weight: 1000.00 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: 0.00 lb
			Total Volume: 56.98 bbl	Tool Chased: 0.00 ft
Drill Pipe Above KB:	ft			String Weight: Initial 0.00 lb
Depth to Top Packer:	4083.00 ft			Final 0.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	18.00 ft			
Tool Length:	39.00 ft			
Number of Packers:	1	Diameter: 6.75 inches		

Tool Comments: HIT BRIDGE 570 FEET OFF BOTTOM

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4063.00	
Shut-In Tool	5.00			4068.00	
Hydraulic Tool	5.00			4073.00	
Packer	5.00			4078.00	21.00 Bottom Of Top Packer
Packer	5.00			4083.00	
Perforations	13.00			4096.00	
Recorder	1.00	8419	Inside	4097.00	
Recorder	1.00	8524	Outside	4098.00	
Bullnose	3.00			4101.00	18.00 Bottom Packers & Anchor
Total Tool Length:	39.00				



DRILL STEM TEST REPORT

FLUID SUMMARY

REF OIL & GAS COMPANY LLC
 PO BOX 298 HOISINGTON KS 67544
 ATTN: JOSH AUSTIN

ZINK #2
20-25-11W STAFFORD
 Job Ticket: 16100 **DST#: 2**
 Test Start: 2011.03.01 @ 14:30:00

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: 48.00 sec/qt	Cushion Volume: bbl		
Water Loss: 7.99 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psia		
Salinity: 6100.00 ppm			
Filter Cake: 1.00 inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
1320.00	MUD	18.516

Total Length: 1320.00 ft Total Volume: bbl
 Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
 Laboratory Name: Laboratory Location:
 Recovery Comments:

DST Test Number: 2

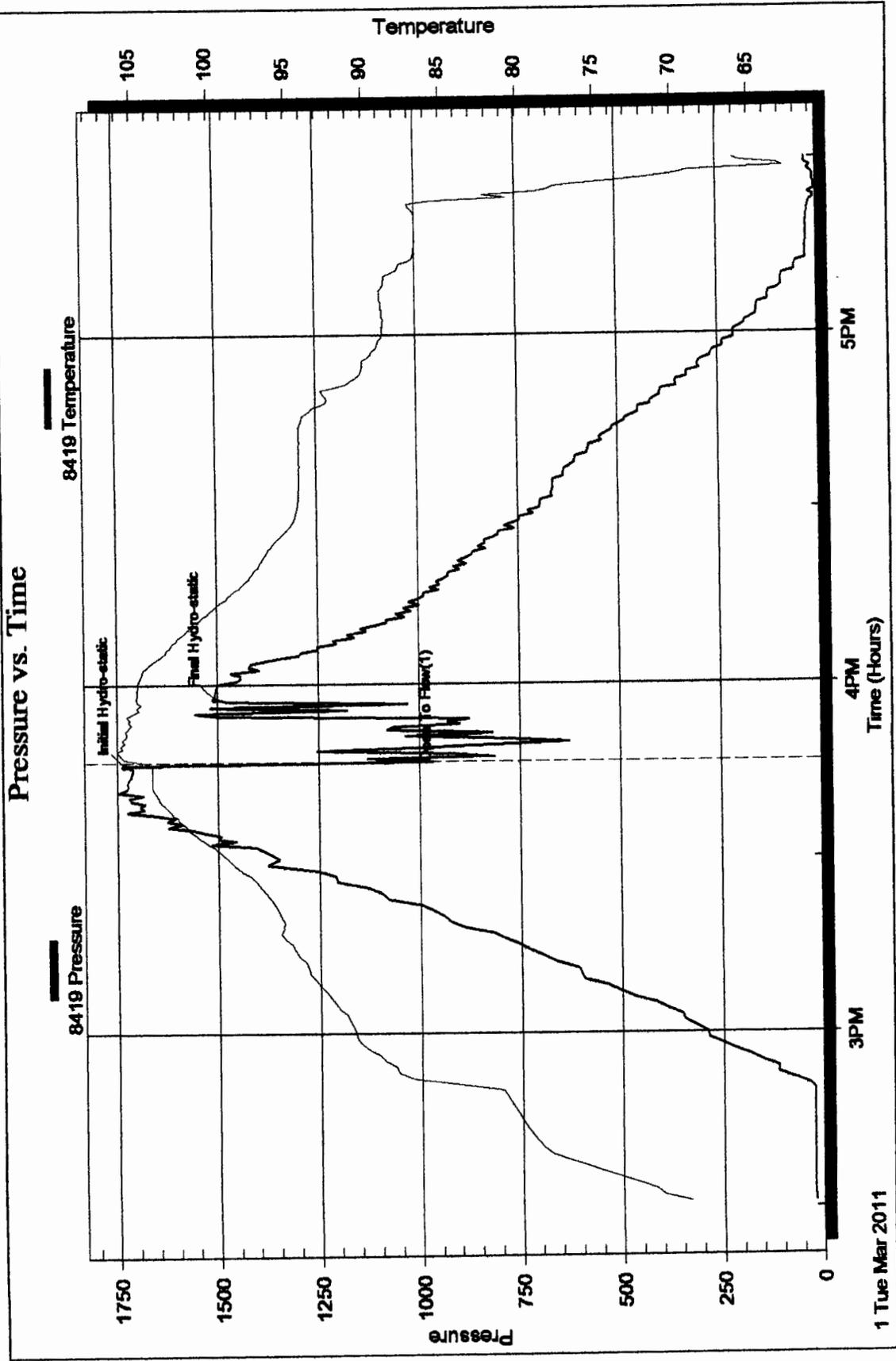
20-25-11W STAFFORD

REF OIL & GAS COMPANY LLC

Inside

Serial #: 8419

Pressure vs. Time



Printed: 2011.03.04 @ 13:47:21

Ref. No: 16100

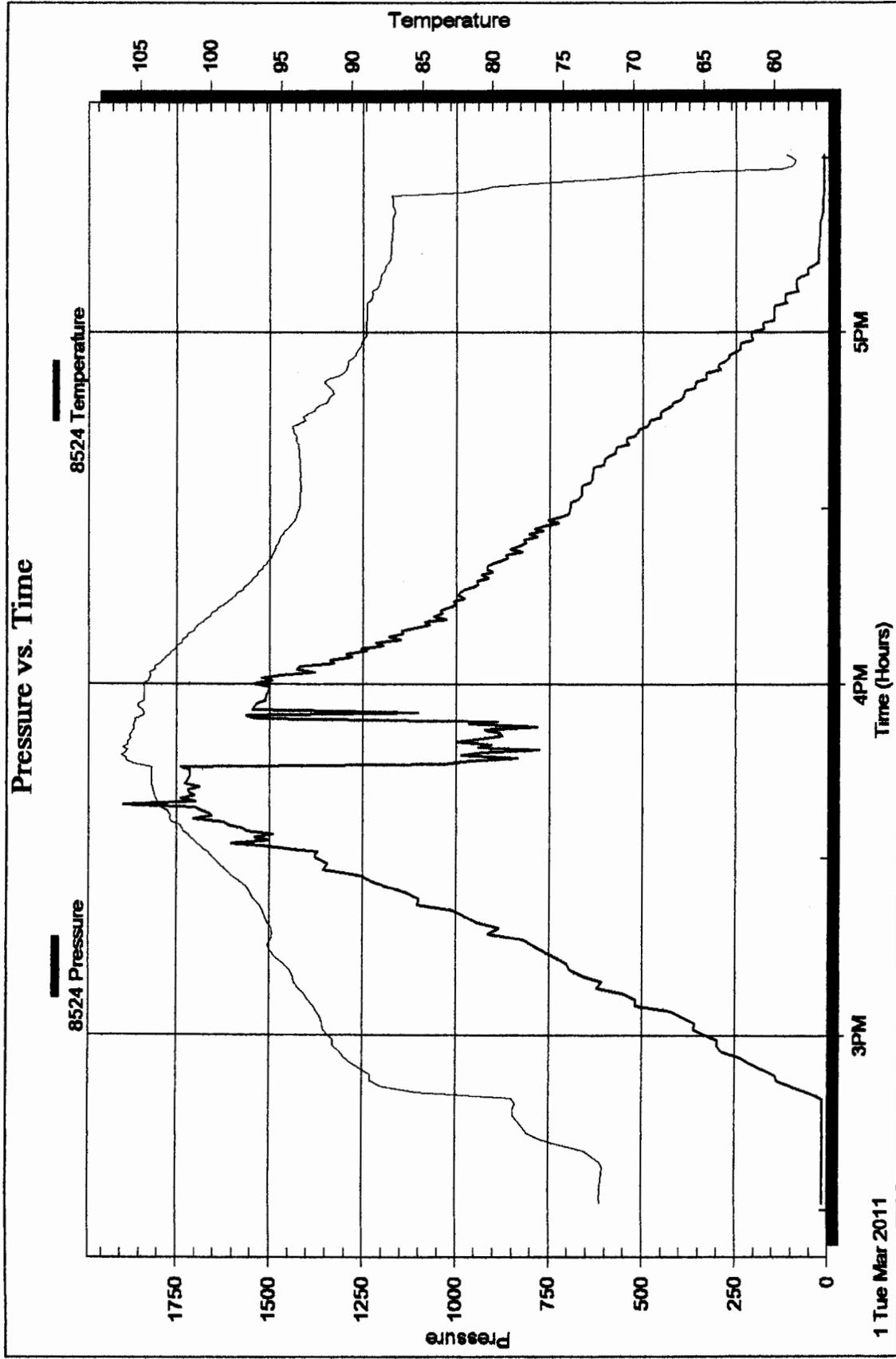
Superior Testers Enterprises LLC

Serial #: 8524

Outside REF OIL & GAS COMPANY LLC

20-25-11W STAFFORD

DST Test Number: 2



Superior Testers Enterprises LLC

Ref. No: 16100

Printed: 2011.03.04 @ 13:47:22



DRILL STEM TEST REPORT

Prepared For: **REIF OIL & GAS COMPANY LLC**
PO BOX 298 HOISINGTON KS 67544

ATTN: JOSH AUSTIN

20-25-11W STAFFORD

ZINK #2

Start Date: 2011.03.04 @ 00:00:00

End Date:

Job Ticket #: DST #: 3

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

Printed: 2011.03.04 @ 13:37:36

REIF OIL & GAS COMPANY LLC

ZINK #2

20-25-11W STAFFORD

DST # 3

2011.03.04



DRILL STEM TEST REPORT

TOOL DIAGRAM

REF OIL & GAS COMPANY LLC
 PO BOX 298 HOISINGTON KS 67544
 ATTN: JOSH AUSTIN

ZINK #2
 20-25-11W STAFFORD
 Job Ticket: DST#: 3
 Test Start: 2011.03.04 @ 00:00:00

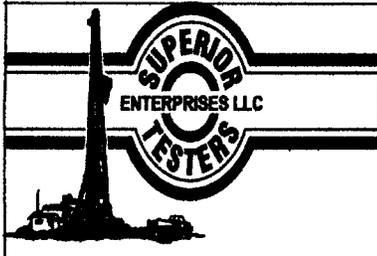
Tool Information

Drill Pipe:	Length: 4062.00 ft	Diameter: 3.80 inches	Volume: 56.98 bbl	Tool Weight: 1000.00 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: 65000.00 lb
			<u>Total Volume: 56.98 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	6.00 ft			String Weight: Initial 35000.00 lb
Depth to Top Packer:	4077.00 ft			Final 35000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	0.00 ft			
Tool Length:	39.00 ft			
Number of Packers:	1	Diameter: inches		

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4057.00	
Shut-In Tool	5.00			4062.00	
Hydrolic Tool	5.00			4067.00	
Packer	5.00			4072.00	21.00 Bottom Of Top Packer
Packer	5.00			4077.00	
Perforations	13.00			4090.00	
Recorder	1.00	8419	Inside	4091.00	
Recorder	1.00	8524	Outside	4092.00	
Bullnose	3.00			4095.00	18.00 Bottom Packers & Anchor
Total Tool Length:	39.00				



DRILL STEM TEST REPORT

FLUID SUMMARY

REF OIL & GAS COMPANY LLC

ZINK #2

PO BOX 298 HOISINGTON KS 67544

20-25-11W STAFFORD

Job Ticket:

DST#: 3

ATTN: JOSHAUSTIN

Test Start: 2011.03.04 @ 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: 48.00 sec/qt

Cushion Volume:

bbl

Water Loss: 7.99 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psia

Salinity: 6000.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
15.00	MUD	0.210

Total Length: 15.00 ft Total Volume: 0.210 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: RUINED PACKER

Serial #: 8419

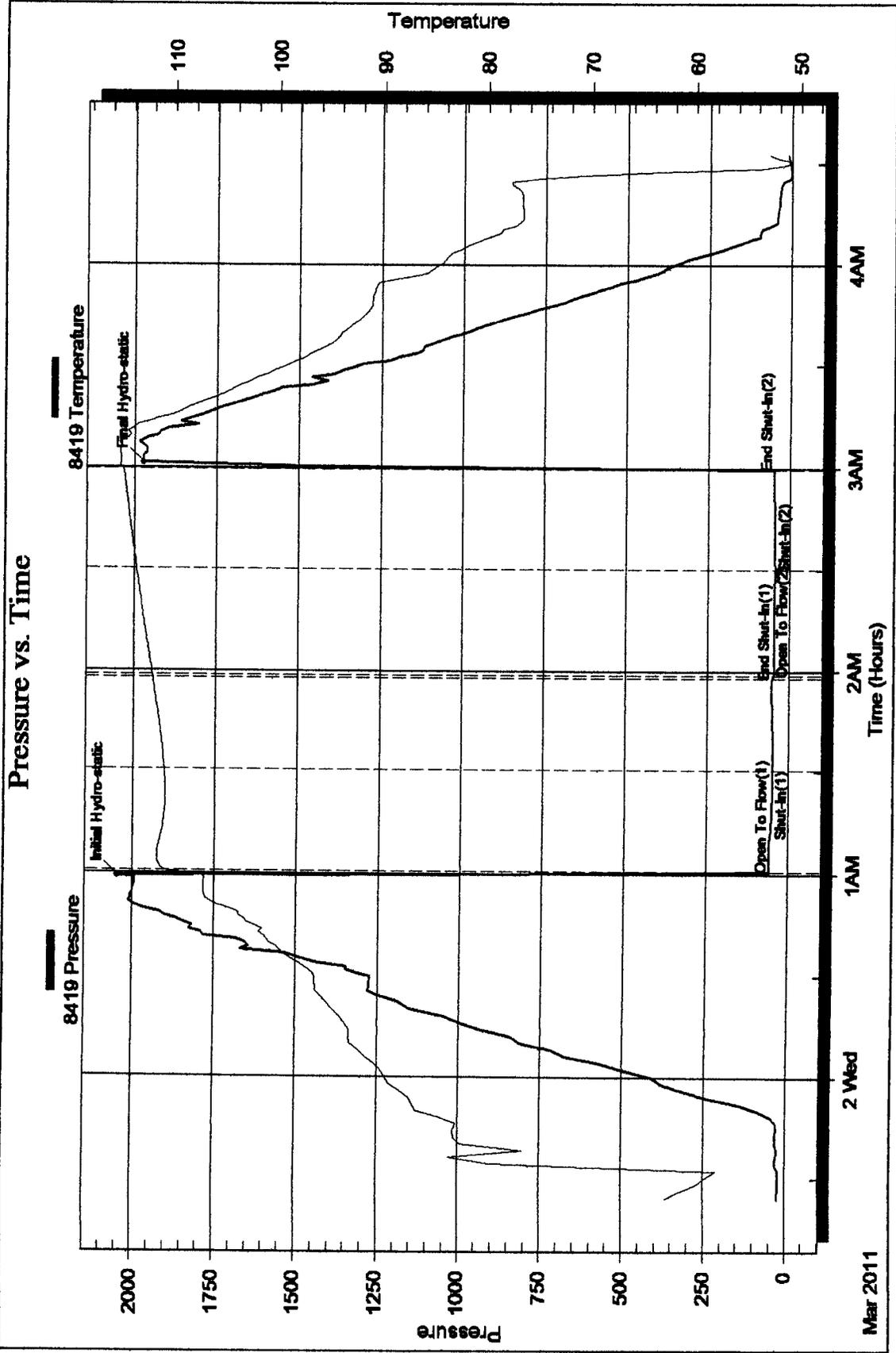
Inside

REF OIL & GAS COMPANY LLC

20-25-11W STAFFORD

DST Test Number: 3

Pressure vs. Time



Ref. No:

Superior Testers Enterprises LLC

Printed: 2011.03.04 @ 13:37:37

Serial #: 8524

Outside REFOIL & GAS COMPANY LLC

20-25-11W STAFFORD

DST Test Number: 3

Pressure vs. Time

