

15-009-25337

1-20-15w

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KCC WICHITA



## DRILL STEM TEST REPORT

Prepared For: **F.G. HOLL COMPANY L.L.C**

9431 E CENTRAL STE 100  
WICHITA KS 67208

ATTN: RENE

**1-20-15**

**ROMINE1-1**

Start Date: 2009.08.29 @ 05:28:41

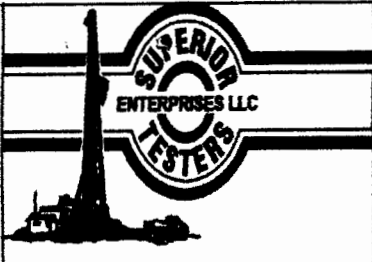
End Date: 2009.08.29 @ 10:10:11

Job Ticket #: 16435          DST #: 1

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

Printed: 2009.09.01 @ 12:03:24

F.G. HOLL COMPANY L.L.C  
ROMINE1-1  
1-20-15  
DST # 1  
LKC-G-  
2009.08.29



# DRILL STEM TEST REPORT

F.G. HOLL COMPANY L.L.C

ROMINE1-1

9431 E CENTRAL STE 100  
WICHITA KS 67206

1-20-15

Job Ticket: 16435 DST#: 1

ATTN: RENE

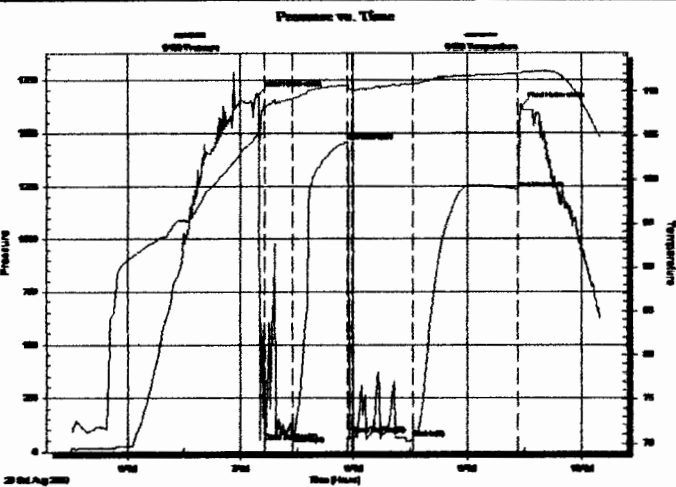
Test Start: 2009.08.29 @ 05:28:41

## GENERAL INFORMATION:

Formation: LKC -G-  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 07:12:41  
 Time Test Ended: 10:10:11  
 Test Type: Conventional Bottom Hole (Initial)  
 Tester: DAVID NICHOLS  
 Unit No: 3345 15 MGB  
 Interval: 3344.00 ft (KB) To 3358.00 ft (KB) (TVD)  
 Reference Elevations: 1960.00 ft (KB)  
 Total Depth: 3358.00 ft (KB) (TVD) 1952.00 ft (CF)  
 Hole Diameter: 7.88 inches Hole Condition: Poor KB to GR/CF: 8.00 ft

Serial #: 8400 Inside  
 Press@RunDepth: 62.86 psia @ 3353.00 ft (KB) Capacity: 5000.00 psia  
 Start Date: 2009.08.29 End Date: 2009.08.29 Last Calib.: 2009.08.29  
 Start Time: 05:30:41 End Time: 10:10:11 Time On Btm: 2009.08.29 @ 07:09:11  
 Time Off Btm: 2009.08.29 @ 09:28:41

TEST COMMENT: 15-INITIAL OPENING WEAK BLOW BUILT TO 2 INCHES INTO WATER  
 30-INITIAL SHUT IN NO BLOW BACK  
 30-FINAL OPENING VERY WEAK SURFACE BLOW  
 60-FINAL SHUT IN NO BLOW BACK



## PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1677.75	105.30	Initial Hydro-static
4	47.55	108.09	Open To Flow (1)
19	74.18	109.23	Shut-in(1)
48	1461.54	110.74	End Shut-in(1)
50	77.12	110.22	Open To Flow (2)
82	62.86	110.87	Shut-in(2)
138	1236.33	111.99	End Shut-in(2)
140	1622.78	112.14	Final Hydro-static

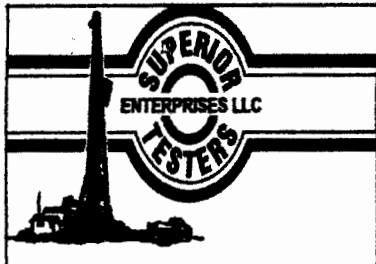
## Recovery

Length (ft)	Description	Volume (bbl)
15.00	DRILLING MUD100%M	0.22

## Gas Rates

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





# DRILL STEM TEST REPORT

TOOL DIAGRAM

F.G. HOLL COMPANY L.L.C

ROMINE1-1

9431 E CENTRAL STE 100  
WICHITA KS 67206

1-20-15

Job Ticket: 16435

DST#: 1

ATTN: RENE

Test Start: 2009.08.29 @ 05:28:41

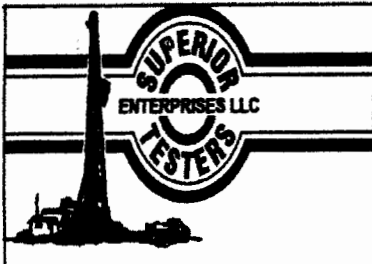
### Tool Information

Drill Pipe:	Length: 3325.00 ft	Diameter: 3.88 inches	Volume: 48.63 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: 25000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 50000.00 lb
		Total Volume: 48.63 bbl		Tool Chased 0.00 ft
Drill Pipe Above KB:	2.00 ft			String Weight: Initial 45000.00 lb
Depth to Top Packer:	3344.00 ft			Final 45000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	14.00 ft			
Tool Length:	35.00 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			3324.00	
Shut-in Tool	5.00			3329.00	
Hydroic Tool	5.00			3334.00	
Packer	5.00			3339.00	21.00 Bottom Of Top Packer
Packer	5.00			3344.00	
Perforations	9.00			3353.00	
Recorder	0.00	8400	Inside	3353.00	
Recorder	0.00	71986	Outside	3353.00	
Bullnose	5.00			3358.00	14.00 Bottom Packers & Anchor
<b>Total Tool Length:</b>	<b>35.00</b>				



# DRILL STEM TEST REPORT

FLUID SUMMARY

F.G. HOLL COMPANY L.L.C

ROMINE1-1

9431 E CENTRAL STE 100  
WICHITA KS 67206

1-20-15

Job Ticket: 16435

DST#: 1

ATTN: RENE

Test Start: 2009.08.29 @ 05:28:41

## 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: 7.98 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psia		
Salinity: 4600.00 ppm			
Filter Cake: inches			

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
15.00	DRILLING MUD100%M	0.219

Total Length: 15.00 ft      Total Volume: 0.219 bbl

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

Laboratory Name:      Laboratory Location:

Recovery Comments:

DST Test Number: 1

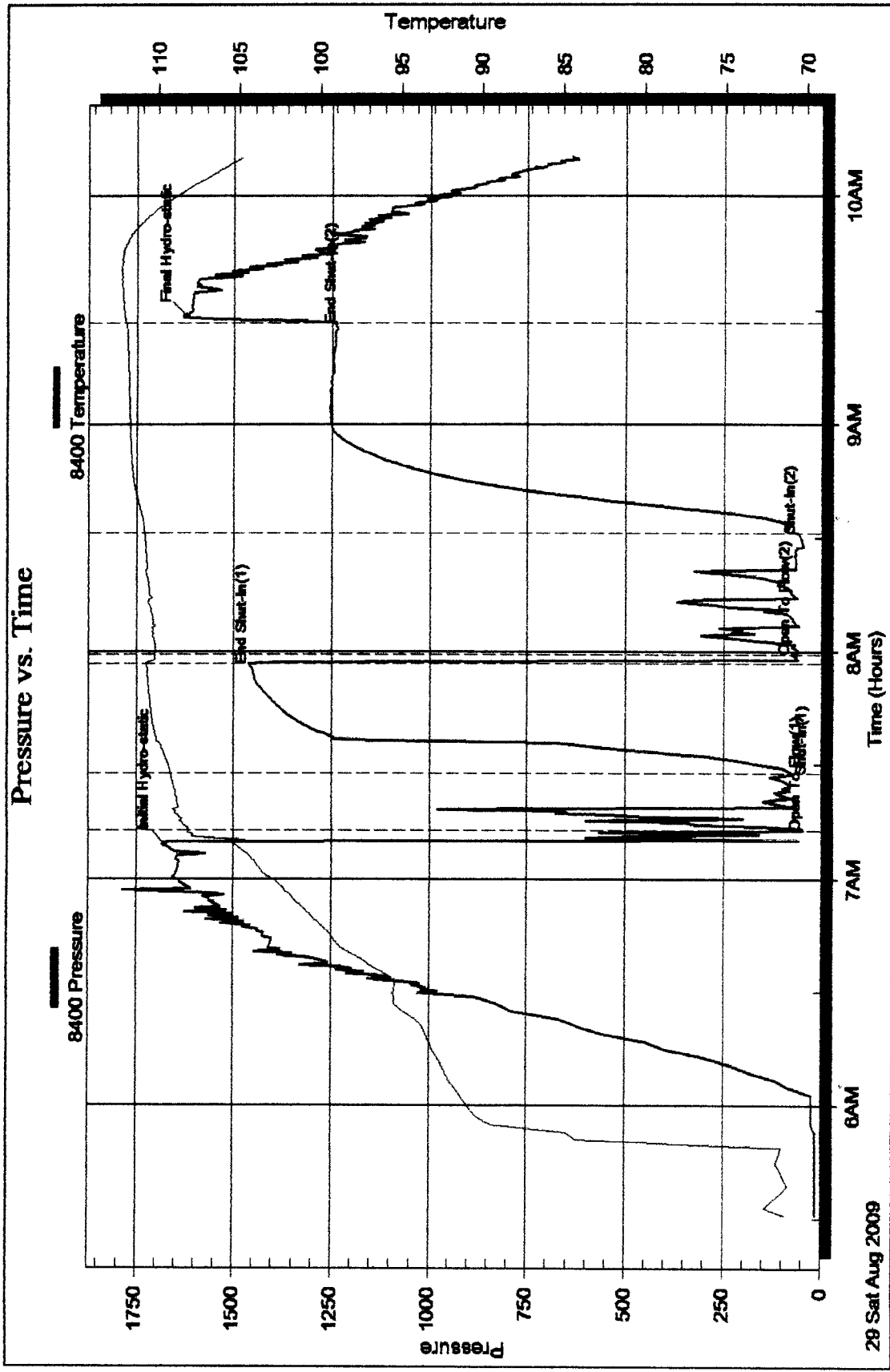
1-20-15

Inside F.G. HOLL COMPANY L.L.C

Serial #: 8400

8AM

### Pressure vs. Time



Printed: 2009.09.01 @ 12:03:25

Ref. No: 16435

Superior Testers Enterprises LLC

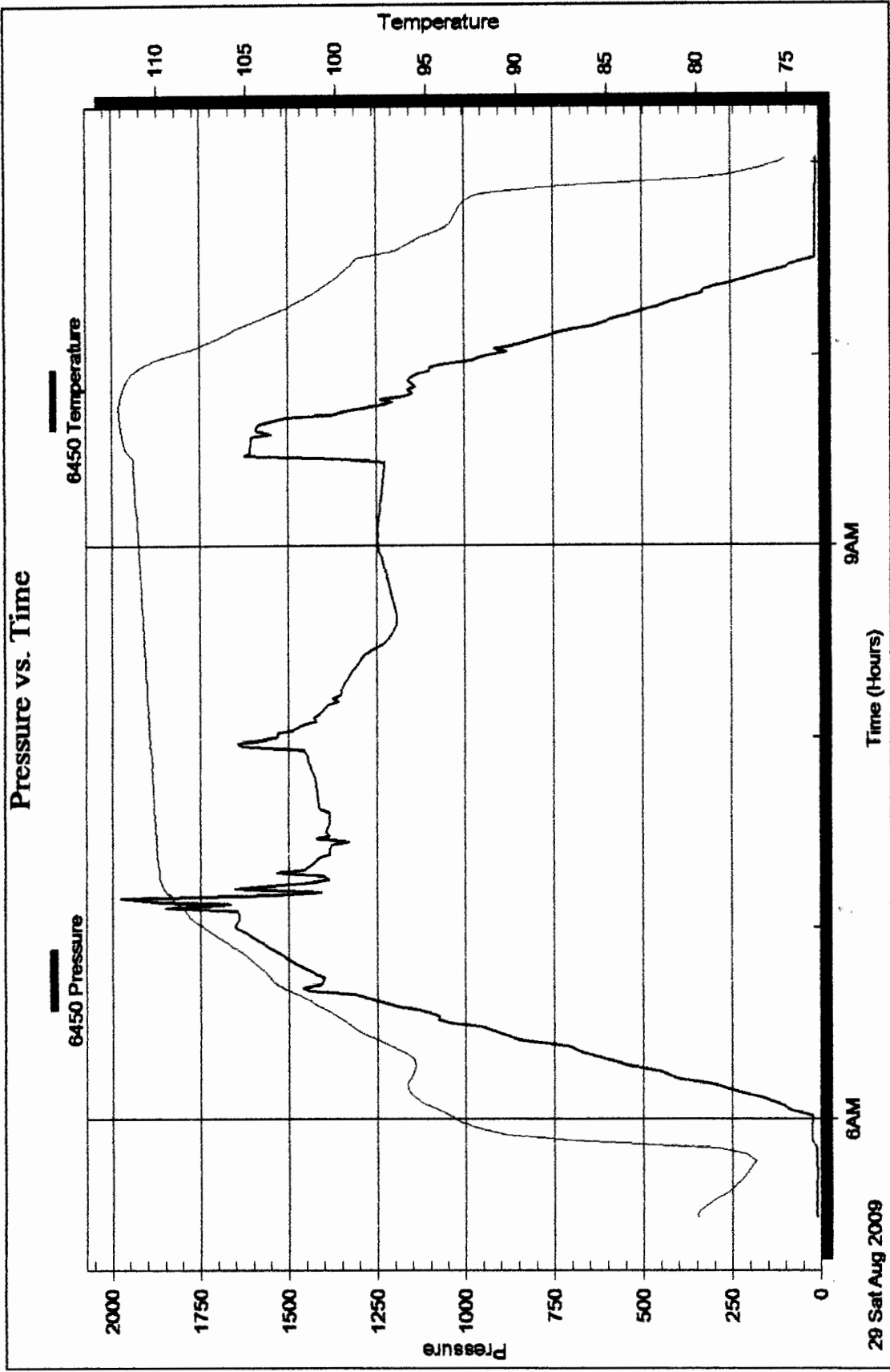
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1-20-15

Outside F.G. HOLL COMPANY L.L.C

Serial #: 6450

### Pressure vs. Time



Printed: 2009.09.01 @ 12:03:25

Ref. No: 16435

Superior Testers Enterprises LLC



## DRILL STEM TEST REPORT

Prepared For: **F.G. HOLL COMPANY L.L.C**

9431 E CENTRAL STE 100  
WICHITA KS 67206

ATTN: RENE

**1-20-15**

**ROMINE1-1**

Start Date: 2009.08.29 @ 18:46:44

End Date: 2009.08.30 @ 01:41:14

Job Ticket #: 16436                      DST #: 2

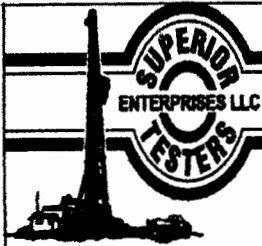
Superior Testers Enterprises LLC  
PO Box 138 Great Bend KS 67530  
1-800-792-6902

Printed: 2009.09.01 @ 12:46:28

F.G. HOLL COMPANY L.L.C      ROMINE1-1      1-20-15      DST # 2      LKC F-G-      2009.08.29







# DRILL STEM TEST REPORT

TOOL DIAGRAM

F.G. HOLL COMPANY L.L.C

ROMINE1-1

9431 E CENTRAL STE 100  
WICHITA KS 67206

1-20-15

Job Ticket: 16436

DST#: 2

ATTN: RENE

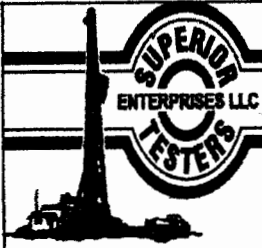
Test Start: 2009.08.29 @ 18:48:44

### Tool Information

Drill Pipe:	Length: 3323.00 ft	Diameter: 3.88 inches	Volume: 48.60 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: 50000.00 lb
			<u>Total Volume: 48.60 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	2.00 ft			String Weight: Initial 45000.00 lb
Depth to Top Packer:	3342.00 ft			Final 46000.00 lb
Depth to Bottom Packer:	3364.00 ft			
Interval between Packers:	22.00 ft			
Tool Length:	43.00 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			3322.00	
Shut-in Tool	5.00			3327.00	
Hydroic Tool	5.00			3332.00	
Packer	5.00			3337.00	21.00 Bottom Of Top Packer
Packer	5.00			3342.00	
Perforations	17.00			3359.00	
Recorder	0.00	8400	Inside	3359.00	
Recorder	0.00	71986	Outside	3359.00	
Bullnose	5.00			3364.00	22.00 Bottom Packers & Anchor
<b>Total Tool Length:</b>	<b>43.00</b>				



# DRILL STEM TEST REPORT

FLUID SUMMARY

F.G. HOLL COMPANY L.L.C

ROMINE1-1

9431 E CENTRAL STE 100  
WICHITA KS 67206

1-20-15

Job Ticket: 16436

DST#: 2

ATTN: RENE

Test Start: 2009.08.29 @ 18:46:44

## Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil API: 27 deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity: ppm
Viscosity: 64.00 sec/qt	Cushion Volume: bbl	
Water Loss: 9.18 in <sup>3</sup>	Gas Cushion Type:	
Resistivity: 6600.00 ohm.m	Gas Cushion Pressure: psia	
Salinity: ppm		
Filter Cake: inches		

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
1200.00	GAS IN PIPE 100%GAS	17.549
420.00	GASSEY OIL 20%G80%OIL	6.142
60.00	OIL CUT MUD50%O50%M	0.877

Total Length: 1680.00 ft      Total Volume: 24.568 bbl  
Num Fluid Samples: 0      Num Gas Bombs: 0      Serial #:  
Laboratory Name:      Laboratory Location:  
Recovery Comments:

Serial #: 8400

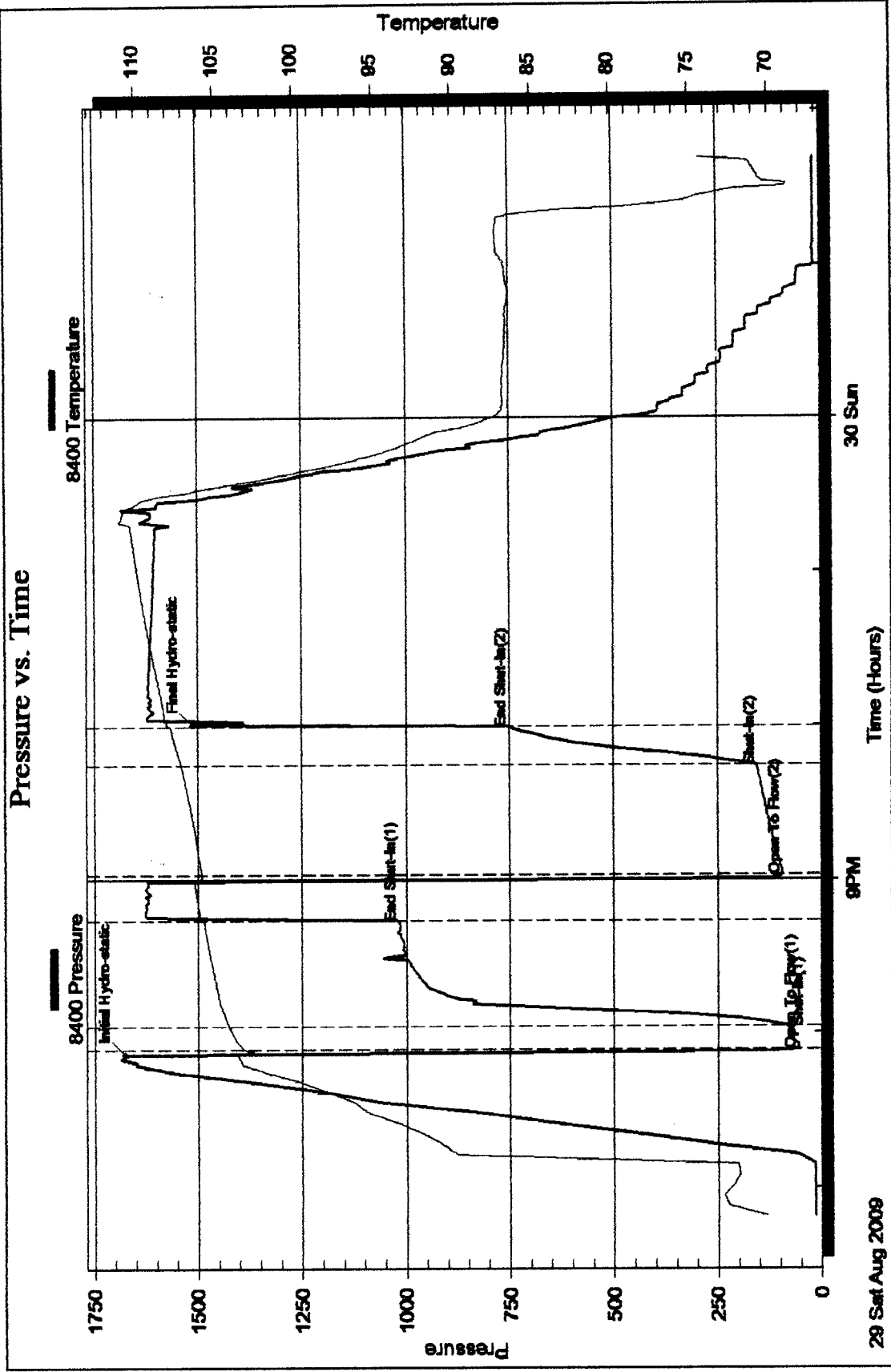
Inside

F.G. HOLL COMPANY LLC

1-20-15

DST Test Number: 2

### Pressure vs. Time



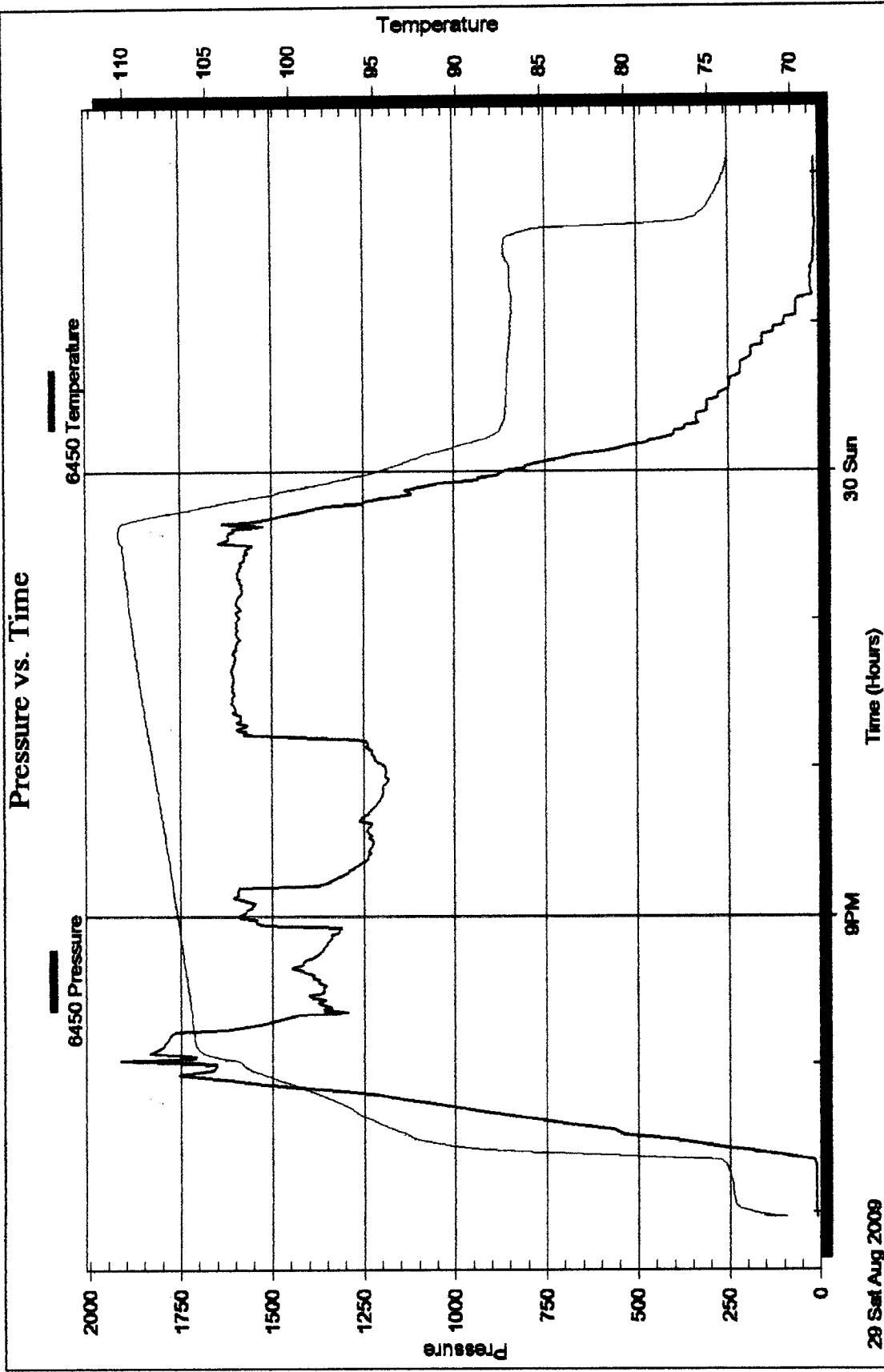
Serial #: 6450

Outside F.G. HOLL COMPANY L.L.C

1-20-15

DST Test Number: 2

### Pressure vs. Time





## DRILL STEM TEST REPORT

Prepared For: **F.G. HOLL COMPANY L.L.C**

9431 E CENTRAL STE 100  
WICHITA KS 67206

ATTN: RENE

**1-20-15**

**ROMINE1-1**

Start Date: 2009.08.30 @ 10:55:40

End Date: 2009.08.30 @ 18:03:10

Job Ticket #: 16437                      DST #: 3

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

Printed: 2009.09.01 @ 12:02:46

F.G. HOLL COMPANY L.L.C  
ROMINE1-1  
1-20-15  
DST # 3  
LKC H  
2009.08.30



# DRILL STEM TEST REPORT

F.G. HOLL COMPANY L.L.C

ROMINE1-1

9431 E CENTRAL STE 100  
WICHITA KS 67206

1-20-15

Job Ticket: 16437

DST#: 3

ATTN: RENE

Test Start: 2009.08.30 @ 10:55:40

## GENERAL INFORMATION:

Formation: LKC H

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 12:27:10

Time Test Ended: 18:03:10

Test Type: Conventional Bottom Hole (Initial)

Tester: DAVID NICHOLS

Unit No: 3345 15 MGB

Interval: 3406.00 ft (KB) To 3446.00 ft (KB) (TVD)

Total Depth: 3446.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 1960.00 ft (KB)

1952.00 ft (CF)

KB to GR/CF: 8.00 ft

Serial #: 8400

Inside

Press@RunDepth: 256.90 psia @ 3441.00 ft (KB)

Start Date: 2009.08.30

End Date:

2009.08.30

Start Time: 10:57:40

End Time:

18:03:10

Capacity: 5000.00 psia

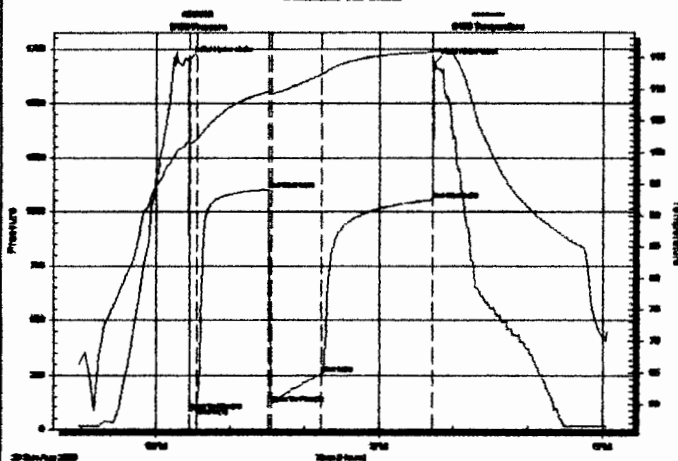
Last Calib.: 2009.08.30

Time On Btm: 2009.08.30 @ 12:26:10

Time Off Btm: 2009.08.30 @ 15:44:40

TEST COMMENT: 5- INITIAL OPENING GOOD BLOW BOTTOM OG THE BUCKET IN LESS 1 MIN  
60-INITIAL SHUT IN FAIR BLOW BACK  
45-FINAL OPENING GOOD BLOW BOTTOM OF THE BUCKET IN LESS 1 MIN  
90-FINAL SHUT IN GOOD BLOW BACK

Pressure vs. Time



## PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1698.18	101.77	Initial Hydro-static
1	83.96	101.45	Open To Flow (1)
7	98.80	102.16	Shut-In(1)
65	1104.28	109.66	End Shut-In(1)
67	118.52	109.36	Open To Flow (2)
108	256.90	112.38	Shut-In(2)
197	1055.26	115.87	End Shut-In(2)
199	1681.35	116.02	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
2180.00	GAS IN PIPE 100%G	31.88
900.00	GASSEY OIL 50%G50%O	13.16
180.00	GASSEY OIL 20%G80%O	2.63
60.00	MUD CUT OIL 70%O 30%M	0.88

## Gas Rates

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



# DRILL STEM TEST REPORT

F.G. HOLL COMPANY L.L.C

ROMINE1-1

9431 E CENTRAL STE 100  
WICHITA KS 67206

1-20-15

Job Ticket: 16437

DST#: 3

ATTN: RENE

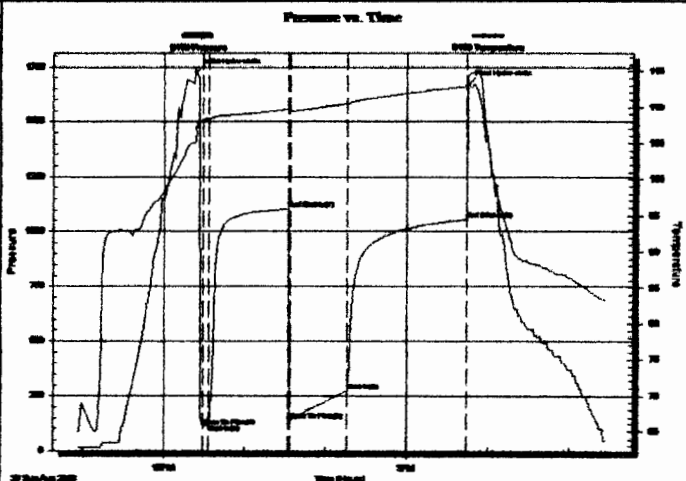
Test Start: 2009.08.30 @ 10:55:40

## GENERAL INFORMATION:

Formation: LKC H  
 Deviated: No Whipstock: ft (KB)  
 Test Type: Conventional Bottom Hole (Initial)  
 Time Tool Opened: 12:27:10 Tester: DAVID NICHOLS  
 Time Test Ended: 18:03:10 Unit No: 3345 15 M GB  
 Interval: 3406.00 ft (KB) To 3446.00 ft (KB) (TVD) Reference Elevations: 1960.00 ft (KB)  
 Total Depth: 3446.00 ft (KB) (TVD) 1952.00 ft (CF)  
 Hole Diameter: 7.88 inches Hole Condition: Fair KB to GR/CF: 8.00 ft

Serial #: 8419 Outside  
 Press@RunDepth: 1056.05 psia @ 3441.00 ft (KB) Capacity: 5000.00 psia  
 Start Date: 2009.08.30 End Date: 2009.08.30 Last Calib.: 2009.08.30  
 Start Time: 10:56:21 End Time: 17:26:51 Time On Btm: 2009.08.30 @ 12:23:51  
 Time Off Btm: 2009.08.30 @ 15:45:21

TEST COMMENT: 5- INITIAL OPENING GOOD BLOW BOTTOM OG THE BUCKET IN LESS 1 MIN  
 60-INITIAL SHUT IN FAIR BLOW BACK  
 45-FINAL OPENING GOOD BLOW BOTTOM OF THE BUCKET IN LESS 1 MIN  
 90-FINAL SHUT IN GOOD BLOW BACK



## PRESSURE SUMMARY

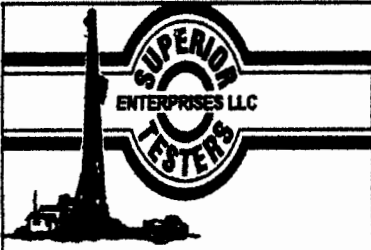
Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1729.35	107.01	Initial Hydro-static
5	110.29	108.22	Open To Flow (1)
9	119.27	108.35	Shut-in(1)
68	1103.76	109.71	End Shut-in(1)
70	139.34	109.45	Open To Flow (2)
112	274.59	110.45	Shut-in(2)
200	1056.05	112.92	End Shut-in(2)
202	1669.88	114.36	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
2180.00	GAS IN PIPE 100%G	31.88
900.00	GASSEY OIL 50%G50%O	13.16
180.00	GASSEY OIL 20%G80%O	2.63
60.00	MUD CUT OIL 70%O 30%M	0.88

## Gas Rates

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



# DRILL STEM TEST REPORT

TOOL DIAGRAM

F.G. HOLL COMPANY L.L.C

ROMINE1-1

9431 E CENTRAL STE 100  
WICHITA KS 67206

1-20-15

Job Ticket: 16437

DST#: 3

ATTN: RENE

Test Start: 2009.08.30 @ 10:55:40

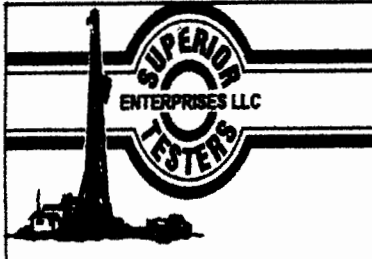
## Tool Information

Drill Pipe:	Length: 3387.00 ft	Diameter: 3.88 inches	Volume: 49.53 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: 60000.00 lb
			<b>Total Volume: 49.53 bbl</b>	Tool Chased 0.00 ft
Drill Pipe Above KB:	2.00 ft			String Weight: Initial 45000.00 lb
Depth to Top Packer:	3406.00 ft			Final 48000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	40.00 ft			
Tool Length:	61.00 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			3386.00	
Shut-In Tool	5.00			3391.00	
Hydroic Tool	5.00			3396.00	
Packer	5.00			3401.00	21.00 Bottom Of Top Packer
Packer	5.00			3406.00	
Perforations	35.00			3441.00	
Recorder	0.00	8400	Inside	3441.00	
Recorder	0.00	8419	Outside	3441.00	
Bullnose	5.00			3446.00	40.00 Bottom Packers & Anchor
<b>Total Tool Length:</b>	<b>61.00</b>				



# DRILL STEM TEST REPORT

FLUID SUMMARY

F.G. HOLL COMPANY L.L.C

ROMINE1-1

9431 E CENTRAL STE 100  
WICHITA KS 67206

1-20-15

Job Ticket: 16437

DST#: 3

ATTN: RENE

Test Start: 2009.08.30 @ 10:55:40

## Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil API: 30 deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity: ppm
Viscosity: 67.00 sec/qt	Cushion Volume: bbl	
Water Loss: 7.99 in <sup>3</sup>	Gas Cushion Type:	
Resistivity: ohm.m	Gas Cushion Pressure: psia	
Salinity: 6000.00 ppm		
Filter Cake: inches		

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
2180.00	GAS IN PIPE 100%G	31.881
900.00	GASSEY OIL 50%G50%O	13.162
180.00	GASSEY OIL 20%G80%O	2.632
60.00	MUD CUT OIL 70%O 30%M	0.877

Total Length: 3320.00 ft      Total Volume: 48.552 bbl

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

Laboratory Name:      Laboratory Location:

Recovery Comments:

Serial #: 8400

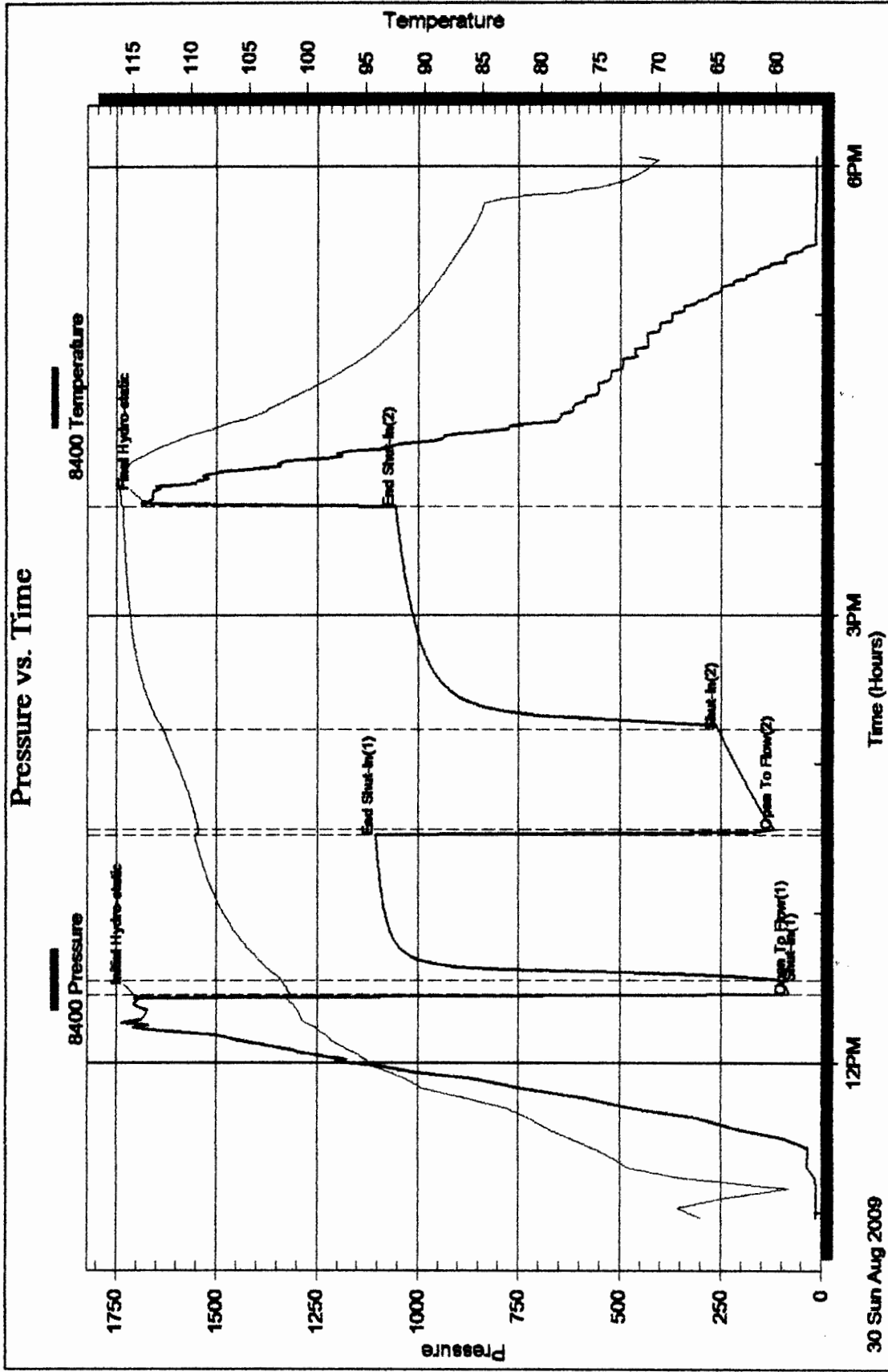
Inside

F.G. HOLL COMPANY L.L.C

1-20-15

DST Test Number: 3

### Pressure vs. Time



Superior Testers Enterprises LLC

Ref. No: 16437

Printed: 2009.09.01 @ 12:02:47

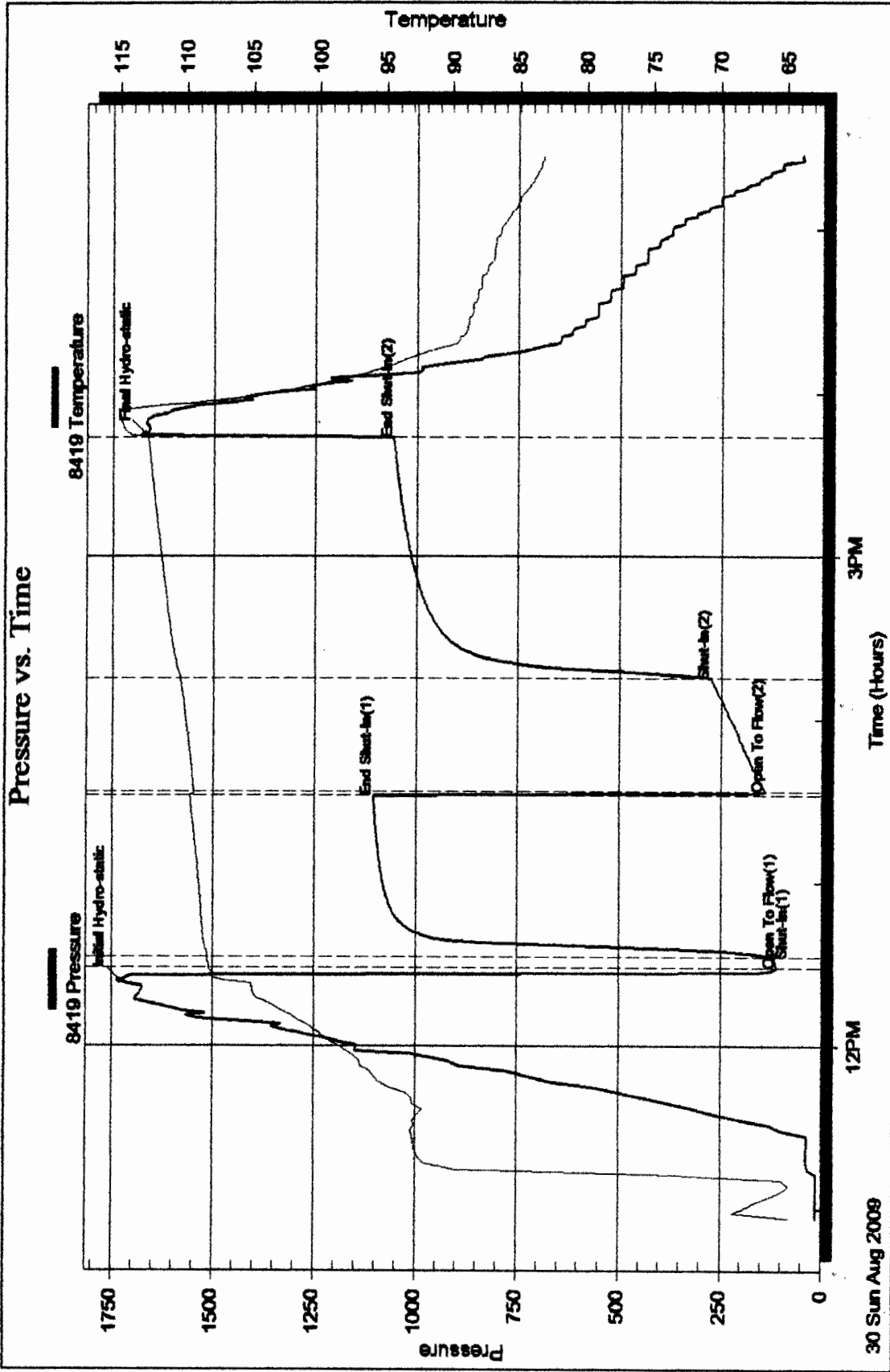
Serial #: 8419

Outside F.G. HOLL COMPANY L.L.C

1-20-15

DST Test Number: 3

### Pressure vs. Time





## DRILL STEM TEST REPORT

Prepared For: **F.G. HOLL COMPANY L.L.C**

9431 E CENTRAL STE 100  
WICHITA KS 67206

ATTN: RENE

**1-20-15**

**ROMINE1-1**

Start Date: 2009.08.31 @ 09:32:11

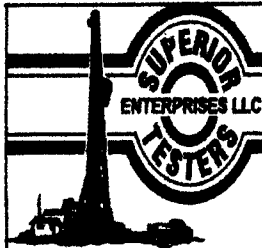
End Date: 2009.08.31 @ 15:56:11

Job Ticket #: 16438      DST #: 4

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

Printed: 2009.09.01 @ 12:02:23

F.G. HOLL COMPANY L.L.C  
ROMINE1-1  
1-20-15  
DST # 4  
7  
2009.08.31



# DRILL STEM TEST REPORT

F.G. HOLL COMPANY L.L.C

ROMINE1-1

9431 E CENTRAL STE 100  
WICHITA KS 67206

1-20-15

Job Ticket: 16438

DST#: 4

ATTN: RENE

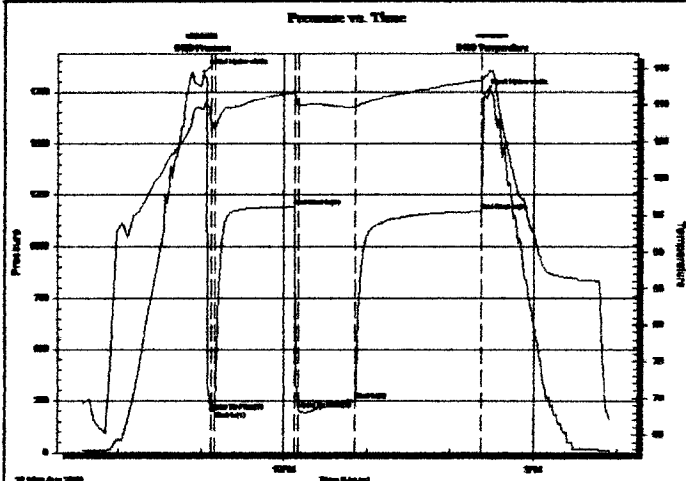
Test Start: 2009.08.31 @ 09:32:11

## GENERAL INFORMATION:

Formation: ?  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 11:07:11  
 Time Test Ended: 15:58:11  
 Interval: 3500.00 ft (KB) To 3591.00 ft (KB) (TVD)  
 Total Depth: 3591.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Fair  
 Test Type: Conventional Bottom Hole (Initial)  
 Tester: DAVID NICHOLS  
 Unit No: 3345 15 MGB  
 Reference Elevations: 1960.00 ft (KB)  
 1952.00 ft (CF)  
 KB to GR/CF: 8.00 ft

Serial #: 8400 Inside  
 Press@RunDepth: 253.15 psia @ 3586.00 ft (KB) Capacity: 5000.00 psia  
 Start Date: 2009.08.31 End Date: 2009.08.31 Last Calib.: 2009.08.31  
 Start Time: 09:34:11 End Time: 15:56:11 Time On Btm: 2009.08.31 @ 11:01:41  
 Time Off Btm: 2009.08.31 @ 14:24:11

TEST COMMENT: 5-INITIAL OPENING STRONG BLOW BOTTOM OF THE BUCKET IN LESS 1 MIN  
 60-INITIAL SHUT IN NO BLOW BACK  
 45-FINAL OPENING STRONG BLOW BOTTOM OF THE BUCKET IN LESS 1 MIN  
 90-FINAL SHUT IN NO BLOW BACK



## PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1847.53	109.59	Initial Hydro-static
6	198.28	107.61	Open To Flow (1)
8	202.07	106.84	Shut-In(1)
66	1190.30	111.78	End Shut-In(1)
69	209.57	109.87	Open To Flow (2)
110	253.15	109.64	Shut-In(2)
202	1169.01	113.43	End Shut-In(2)
203	1744.46	113.79	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
180.00	OIL CUT MUD 10%O 90%M	2.63
240.00	MUD CUT GASSEY OIL45%G35%O20%N3.51	

## Gas Rates

	Choke (inches)	Pressure (psia)	Gas Rate (Mcf/d)
First Gas Rate	1.00	8.50	244.37
Last Gas Rate	1.00	6.80	195.49
Max. Gas Rate	1.00	8.50	244.37



# DRILL STEM TEST REPORT

F.G. HOLL COMPANY L.L.C

ROMINE1-1

9431 E CENTRAL STE 100  
WICHITA KS 67206

1-20-15

Job Ticket: 16438

DST#: 4

ATTN: RENE

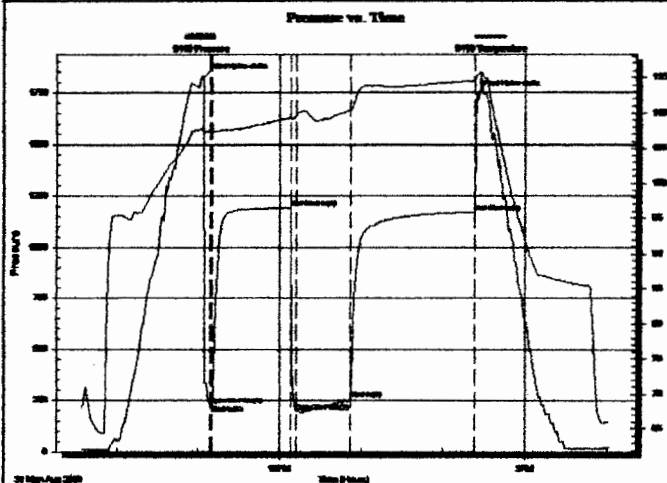
Test Start: 2009.08.31 @ 09:32:11

## GENERAL INFORMATION:

Formation: ?  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 11:07:11  
 Time Test Ended: 15:56:11  
 Interval: 3500.00 ft (KB) To 3591.00 ft (KB) (TVD)  
 Total Depth: 3591.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Fair  
 Test Type: Conventional Bottom Hole (Initial)  
 Tester: DAVID NICHOLS  
 Unit No: 3345 15 M GB  
 Reference Elevations: 1960.00 ft (KB)  
 1952.00 ft (CF)  
 KB to GR/CF: 8.00 ft

Serial #: 8419 Outside  
 Press@RunDepth: 1168.34 psia @ 3586.00 ft (KB) Capacity: 5000.00 psia  
 Start Date: 2009.08.31 End Date: 2009.08.31 Last Calib.: 2009.08.31  
 Start Time: 09:34:21 End Time: 18:01:51 Time On Btm: 2009.08.31 @ 11:03:51  
 Time Off Btm: 2009.08.31 @ 14:24:21

TEST COMMENT: 5-INITIAL OPENING STRONG BLOW BOTTOM OF THE BUCKET IN LESS 1 MIN  
 60-INITIAL SHUT IN NO BLOW BACK  
 45-FINAL OPENING STRONG BLOW BOTTOM OF THE BUCKET IN LESS 1 MIN  
 90-FINAL SHUT IN NO BLOW BACK



## PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1824.19	107.82	Initial Hydro-static
5	225.77	107.32	Open To Flow (1)
7	227.47	107.30	Shut-in(1)
65	1190.83	109.44	End Shut-in(1)
69	197.71	109.67	Open To Flow (2)
109	258.54	110.39	Shut-in(2)
200	1168.34	114.59	End Shut-in(2)
201	1743.34	115.06	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
180.00	OIL CUT MUD 10%O 90%M	2.63
240.00	MUD CUT GASSEY OIL45%G35%O20%	3.51

## Gas Rates

	Choke (Inches)	Pressure (psia)	Gas Rate (Mcf/d)
First Gas Rate	1.00	8.50	244.37
Last Gas Rate	1.00	6.80	195.49
Max. Gas Rate	1.00	8.50	244.37



# DRILL STEM TEST REPORT

TOOL DIAGRAM

F.G. HOLL COMPANY L.L.C

ROMINE1-1

9431 E CENTRAL STE 100  
WICHITA KS 67206

1-20-15

Job Ticket: 16438

DST#: 4

ATTN: RENE

Test Start: 2009.08.31 @ 09:32:11

## Tool Information

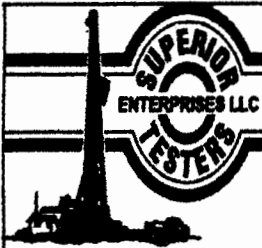
Drill Pipe:	Length: 3481.00 ft	Diameter: 3.88 inches	Volume: 50.91 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 5000.00 lb
			Total Volume: 50.91 bbl	Tool Chased 0.00 ft
Drill Pipe Above KB:	2.00 ft			String Weight: Initial 48000.00 lb
Depth to Top Packer:	3500.00 ft			Final 48000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	91.00 ft			
Tool Length:	112.00 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			3480.00	
Shut-in Tool	5.00			3485.00	
Hydroic Tool	5.00			3490.00	
Packer	5.00			3495.00	21.00 Bottom Of Top Packer
Packer	5.00			3500.00	
Change Over Sub	0.75			3500.75	
Drill Pipe	62.50			3563.25	
Change Over Sub	0.75			3564.00	
Perforations	22.00			3586.00	
Recorder	0.00	8400	Inside	3586.00	
Recorder	0.00	8419	Outside	3586.00	
Buffnose	5.00			3591.00	91.00 Bottom Packers & Anchor

**Total Tool Length: 112.00**



# DRILL STEM TEST REPORT

FLUID SUMMARY

F.G. HOLL COMPANY L.L.C

ROMINE1-1

9431 E CENTRAL STE 100  
WICHITA KS 67206

1-20-15

Job Ticket: 16438

DST#: 4

ATTN: RENE

Test Start: 2009.08.31 @ 09:32:11

## 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: bbl		
Water Loss: 7.99 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: 6000.00 ohm.m	Gas Cushion Pressure: psia		
Salinity: ppm			
Filter Cake: inches			

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
180.00	OIL CUT MUD 10%O 90%M	2.632
240.00	MUD CUT GASSEY OIL 45%G 35%O 20%M	3.510

Total Length: 420.00 ft      Total Volume: 6.142 bbl

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

Laboratory Name:      Laboratory Location:

Recovery Comments:

Serial #: 8400

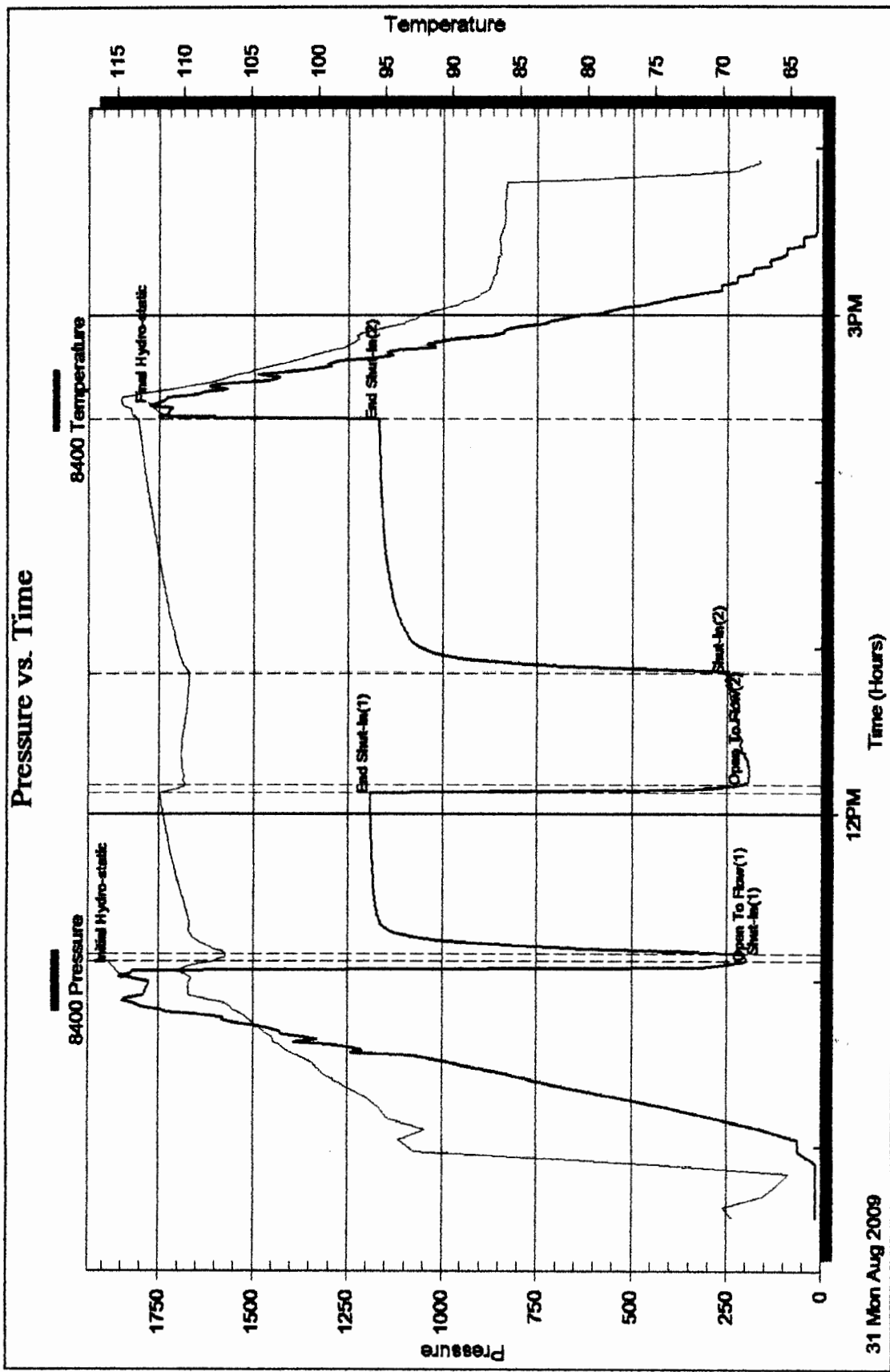
Inside

F.G. HOLL COMPANY LLC

1-20-15

DST Test Number: 4

### Pressure vs. Time



31 Mon Aug 2009

12PM

3PM

Superior Testers Enterprises LLC

Ref. No: 16438

Printed: 2009.09.01 @ 12:02:25

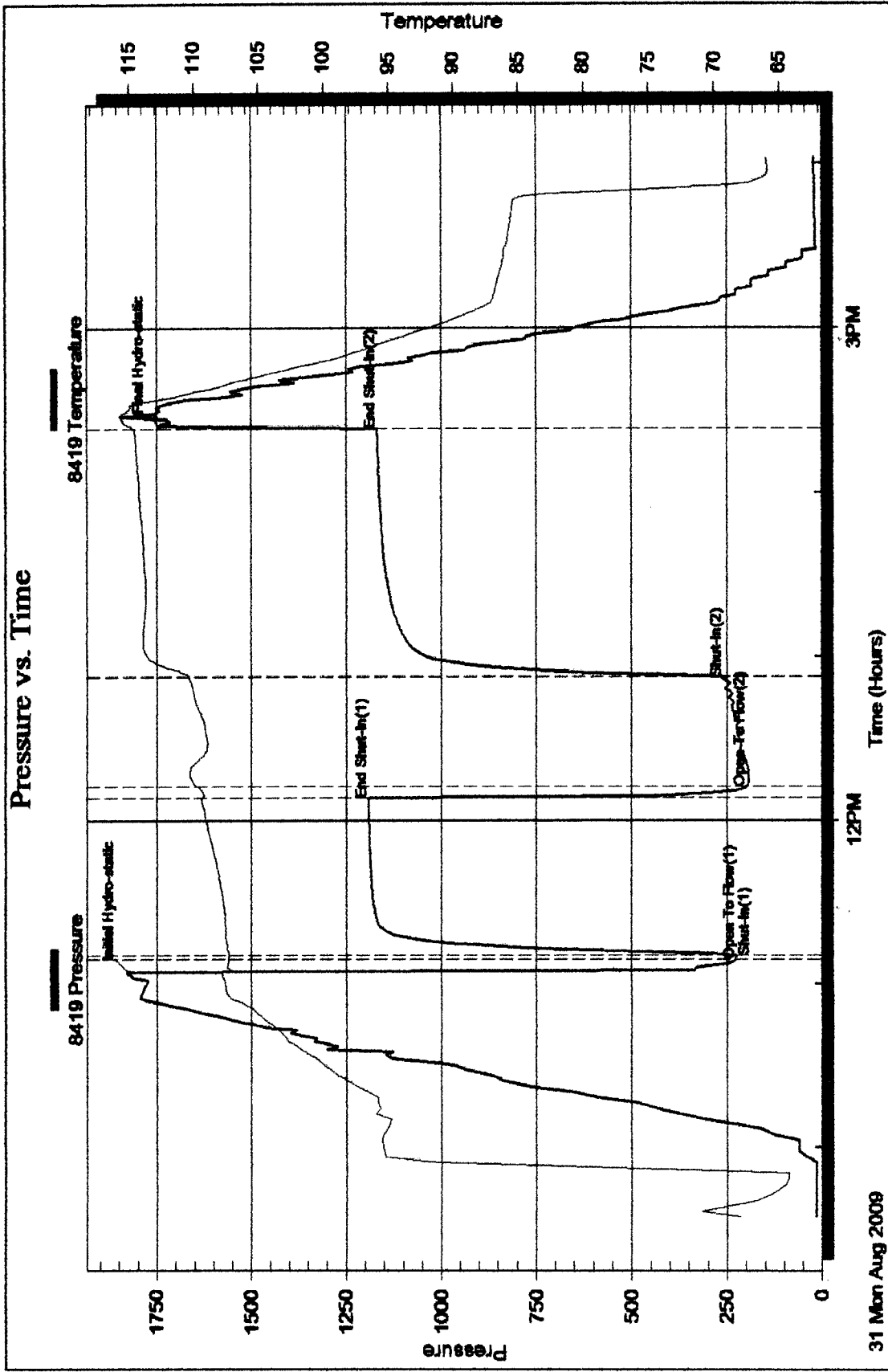
Serial #: 8419

Outside F.G. HOLL COMPANY LLC

1-20-15

DST Test Number: 4

### Pressure vs. Time



31 Mon Aug 2009

12PM

Time (Hours)

3PM

Superior Testers Enterprises LLC

Ref. No: 16438

Printed: 2009.09.01 @ 12:02:25



## DRILL STEM TEST REPORT

Prepared For: **F.G. HOLL COMPANY L.L.C**

9431 E CENTRAL STE 100  
WICHITA KS 67206

ATTN: RENE

**1-20-15**

**ROMINE1-1**

Start Date: 2009.08.31 @ 23:44:06

End Date: 2009.09.01 @ 06:42:36

Job Ticket #: 16439                      DST #: 5

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

Printed: 2009.09.01 @ 12:02:03

F.G. HOLL COMPANY L.L.C      ROMINE1-1      1-20-15      DST # 5      RED BEDS      2009.08.31



# DRILL STEM TEST REPORT

F.G. HOLL COMPANY L.L.C

ROMINE1-1

9431 E CENTRAL STE 100  
WICHITA KS 67206

1-20-15

Job Ticket: 16439

DST#: 5

ATTN: RENE

Test Start: 2009.08.31 @ 23:44:08

## GENERAL INFORMATION:

Formation: **RED BEDS**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 01:19:36

Time Test Ended: 06:42:36

Test Type: Conventional Bottom Hole (Initial)

Tester: DAVID NICHOLS

Unit No: 3345 15 MGB

Interval: 3596.00 ft (KB) To 3620.00 ft (KB) (TVD)

Total Depth: 3620.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 1960.00 ft (KB)

1952.00 ft (CF)

KB to GR/CF: 8.00 ft

Serial #: 8400

Inside

Press@RunDepth: 153.34 psia @ 3615.00 ft (KB)

Capacity: 5000.00 psia

Start Date: 2009.08.31

End Date:

2009.09.01

Last Calib.:

2009.08.31

Start Time:

23:46:06

End Time:

06:42:36

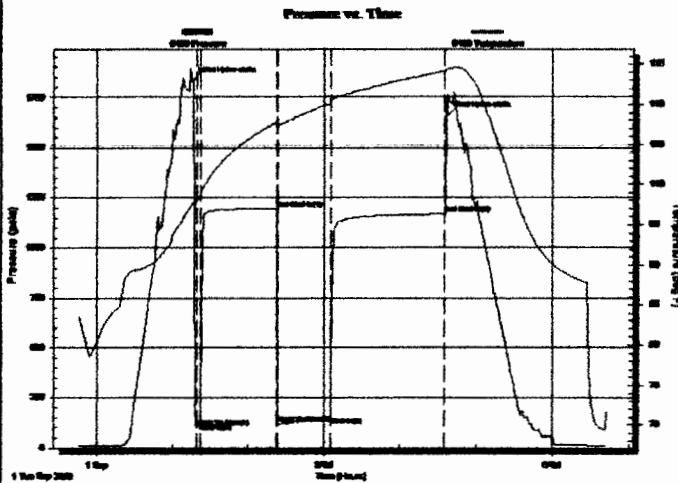
Time On Btm:

2009.09.01 @ 01:15:36

Time Off Btm:

2009.09.01 @ 04:37:06

TEST COMMENT: 5-INITIAL OPENING STRONG BLOW BOTTOM OF THE BUCKET IN 10 SEC  
80-INITIAL SHUT IN GOOD BLOW BACK  
45-FINAL OPENING STRONG BLOW BOTTOM OF THE BUCKET IN 10 SEC  
90-FINAL SHUT IN GOOD BLOW BACK



## PRESSURE SUMMARY

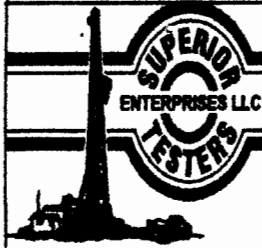
Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1830.73	97.58	Initial Hydro-static
4	102.72	98.01	Open To Flow (1)
7	120.04	98.71	Shut-In(1)
67	1194.86	107.74	End Shut-In(1)
68	120.57	107.42	Open To Flow (2)
110	153.34	110.14	Shut-In(2)
200	1170.36	114.11	End Shut-In(2)
202	1660.19	114.29	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
300.00	GASSEY OIL 20% GAS 80% OIL	4.39
60.00	MUD CUT GASSEY OIL 40% GAS 40% OIL 20% MUD	10.88

## Gas Rates

	Choke (inches)	Pressure (psia)	Gas Rate (Mcf/d)
First Gas Rate	0.75	15.70	245.23
Last Gas Rate	0.75	13.40	209.31
Max. Gas Rate	0.75	15.70	245.23



# DRILL STEM TEST REPORT

F.G. HOLL COMPANY L.L.C

ROMINE1-1

9431 E CENTRAL STE 100  
WICHITA KS 67206

1-20-15

Job Ticket: 16439

DST#: 8

ATTN: RENE

Test Start: 2009.08.31 @ 23:44:06

## GENERAL INFORMATION:

Formation: **RED BEDS**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 01:19:36

Time Test Ended: 06:42:36

Test Type: Conventional Bottom Hole (Initial)

Tester: DAVID NICHOLS

Unit No: 3345 15 M GB

Interval: 3596.00 ft (KB) To 3620.00 ft (KB) (TVD)

Total Depth: 3620.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 1960.00 ft (KB)

1952.00 ft (CF)

KB to GR/CF: 8.00 ft

Serial #: 8419

Outside

Press@RunDepth: 1171.66 psia @ 3615.00 ft (KB)

Capacity: 5000.00 psia

Start Date: 2009.08.31

End Date:

2009.09.01

Last Calib.:

2009.08.31

Start Time:

23:45:46

End Time:

08:48:46

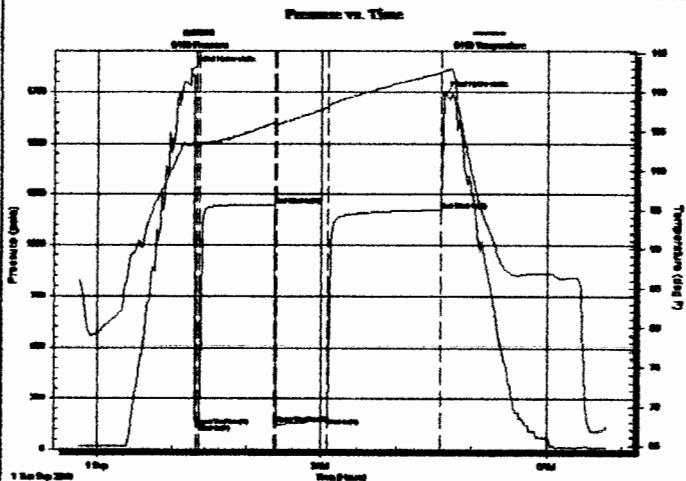
Time On Btm:

2009.09.01 @ 01:15:16

Time Off Btm:

2009.09.01 @ 04:37:16

TEST COMMENT: 5-INITIAL OPENING STRONG BLOW BOTTOM OF THE BUCKET IN 10 SEC  
60-INITIAL SHUT IN GOOD BLOW BACK  
45-FINAL OPENING STRONG BLOW BOTTOM OF THE BUCKET IN 10 SEC  
90-FINAL SHUT IN GOOD BLOW BACK



## PRESSURE SUMMARY

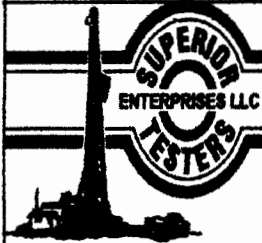
Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1858.78	103.22	Initial Hydro-static
5	113.19	103.27	Open To Flow (1)
7	123.38	103.25	Shut-In(1)
68	1196.34	106.16	End Shut-In(1)
69	127.42	105.91	Open To Flow (2)
110	153.94	108.11	Shut-In(2)
200	1171.66	112.47	End Shut-In(2)
202	1739.26	112.72	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
300.00	GASSEY OIL 20% GAS 80% OIL	4.39
60.00	MUD CUT GASSEY OIL 40% GAS 40% OIL 20%	10.88

## Gas Rates

	Choke (Inches)	Pressure (psia)	Gas Rate (Mcf/d)
First Gas Rate	0.75	15.70	245.23
Last Gas Rate	0.75	13.40	209.31
Max. Gas Rate	0.75	15.70	245.23



# DRILL STEM TEST REPORT

TOOL DIAGRAM

F.G. HOLL COMPANY L.L.C

ROMINE1-1

9431 E CENTRAL STE 100  
WICHITA KS 67206

1-20-15

Job Ticket: 16439

DST#: 5

ATTN: RENE

Test Start: 2009.08.31 @ 23:44:06

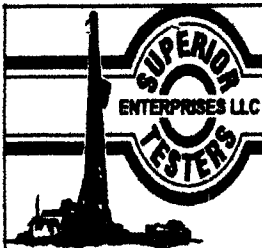
### Tool Information

Drill Pipe:	Length: 3577.00 ft	Diameter: 3.88 inches	Volume: 52.31 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: 70000.00 lb
			<b>Total Volume: 52.31 bbl</b>	Tool Chased: ft
Drill Pipe Above KB:	2.00 ft			String Weight: Initial 48000.00 lb
Depth to Top Packer:	3596.00 ft			Final 48000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	24.00 ft			
Tool Length:	45.00 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			3576.00	
Shut-In Tool	5.00			3581.00	
Hydroic Tool	5.00			3586.00	
Packer	5.00			3591.00	21.00 Bottom Of Top Packer
Packer	5.00			3596.00	
Perforations	19.00			3615.00	
Recorder	0.00	8400	Inside	3615.00	
Recorder	0.00	8419	Outside	3615.00	
Bullnose	5.00			3620.00	24.00 Bottom Packers & Anchor
<b>Total Tool Length:</b>	<b>45.00</b>				



# DRILL STEM TEST REPORT

FLUID SUMMARY

F.G. HOLL COMPANY L.L.C

ROMINE1-1

9431 E CENTRAL STE 100  
WICHITA KS 67206

1-20-15

Job Ticket: 16439

DST#: 5

ATTN: RENE

Test Start: 2009.08.31 @ 23:44:06

## Mud and Cushion Information

Mud Type: Gel Chem  
Mud Weight: 9.00 lb/gal  
Viscosity: 53.00 sec/qt  
Water Loss: 7.99 in<sup>3</sup>  
Resistivity: ohm.m  
Salinity: 6800.00 ppm  
Filter Cake: inches

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

Oil API: 34 deg API  
Water Salinity: ppm

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
300.00	GASSEY OIL 20%GAS80%OIL	4.387
60.00	MUD CUT GASSEY OIL 40%G40%O20%M	0.877

Total Length: 360.00 ft      Total Volume: 5.264 bbl

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

Laboratory Name:      Laboratory Location:

Recovery Comments:

DST Test Number: 5

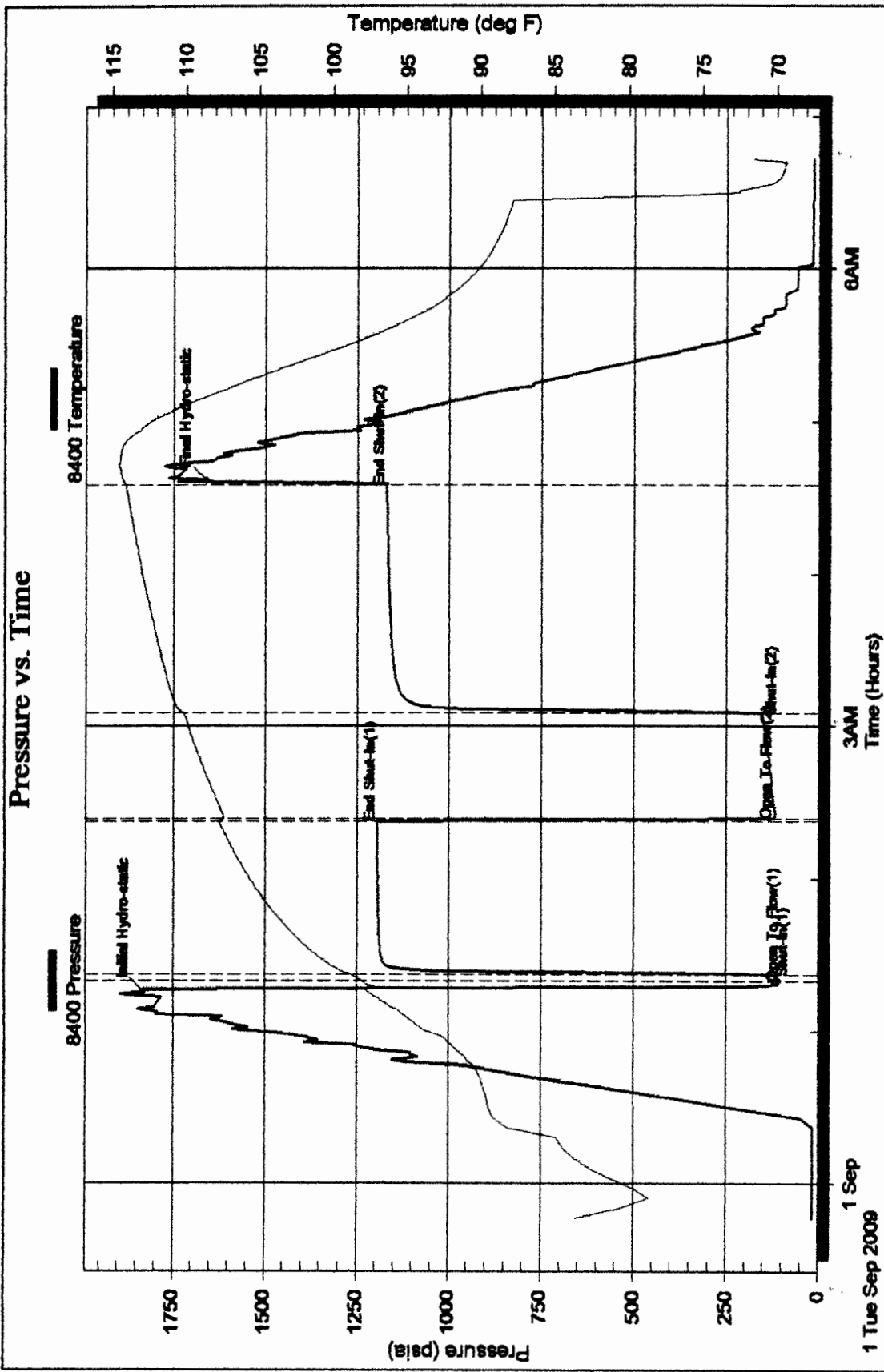
1-20-15

F.G. HOLL COMPANY L.L.C

Inside

Serial #: 8400

### Pressure vs. Time



Printed: 2009.09.01 @ 12:02:04

Ref. No: 16439

Superior Testers Enterprises LLC

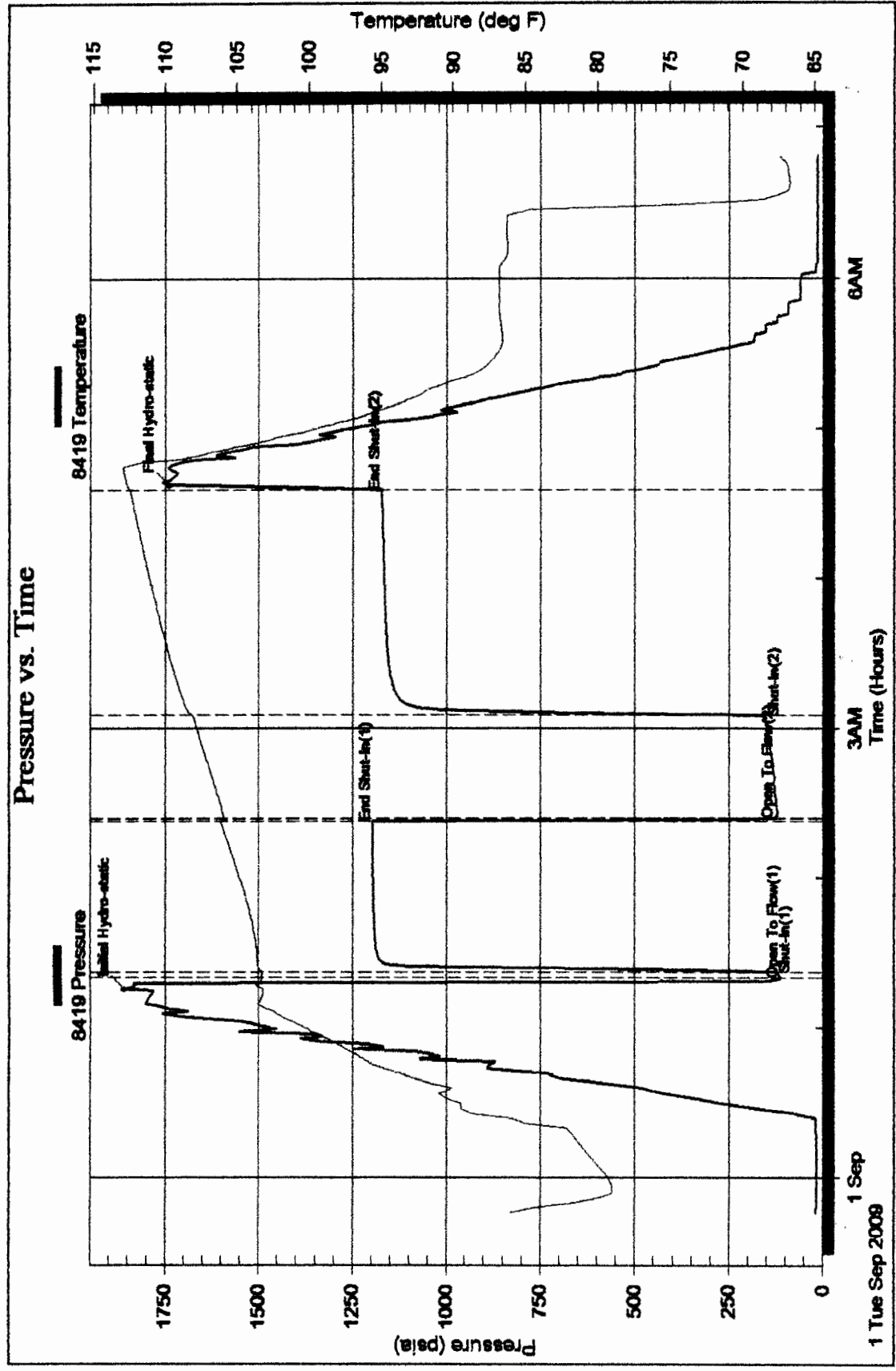
DST Test Number: 5

1-20-15

Outside F.G. HOLL COMPANY LLC

Serial #: 8419

### Pressure vs. Time



Printed: 2009.09.01 @ 12:02:04

Ref. No: 16439

Superior Testers Enterprises LLC