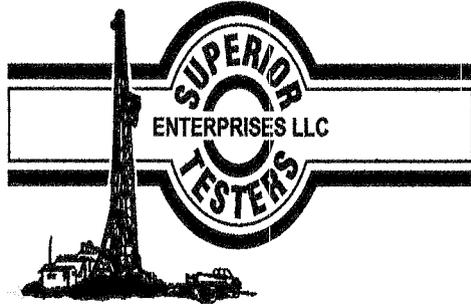


15-009-25190

23-20s-15w

IND

*dat (6)  
incomplete*  
IND



**DRILL STEM TEST REPORT**

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

9431 E CENTRAL SUIT # 100  
WICHITA KS 67206

ATTN: RYAN GREENBAUM

*23*  
**~~26~~-20S-15W**

**HIGHLAND #1-23**

Start Date: 2008.07.27 @ 06:00:00

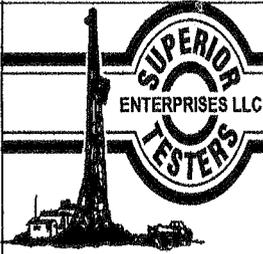
End Date: 2008.07.27 @ 10:56:16

Job Ticket #: 15324                      DST #: 1

F.G HOLL COMPANY L.L.C  
HIGHLAND #1-23  
*Section is 23, not 26 as printed*  
~~26~~-20S-15W  
DST # 1  
KRIDER  
2008.07.27

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

KCC  
OCT 29 2008  
CONFIDENTIAL



# DRILL STEM TEST REPORT

F.G HOLL COMPANY L.L.C

**HIGHLAND #1-23**

9431 E CENTRAL SUIT # 100  
WICHITA KS 67206

**26-20S-15W**

Job Ticket: 15324

**DST#: 1**

ATTN: RYAN GREENBAUM

Test Start: 2008.07.27 @ 06:00:00

## GENERAL INFORMATION:

Formation: **KRIDER**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 06:59:45

Time Test Ended: 10:56:16

Test Type: Conventional Bottom Hole (Initial)

Tester: JARED SCHECK

Unit No: 3320- 30 - GB

Interval: **1775.00 ft (KB) To 1850.00 ft (KB) (TVD)**

Reference Elevations: 1934.00 ft (KB)

Total Depth: 1850.00 ft (KB) (TVD)

1926.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

## Serial #: 4023

Press@RunDepth: 81.10 psia @ ft (KB)

Capacity: 5000.00 psia

Start Date: 2008.07.27 End Date: 2008.07.27

Last Calib.: 2008.07.27

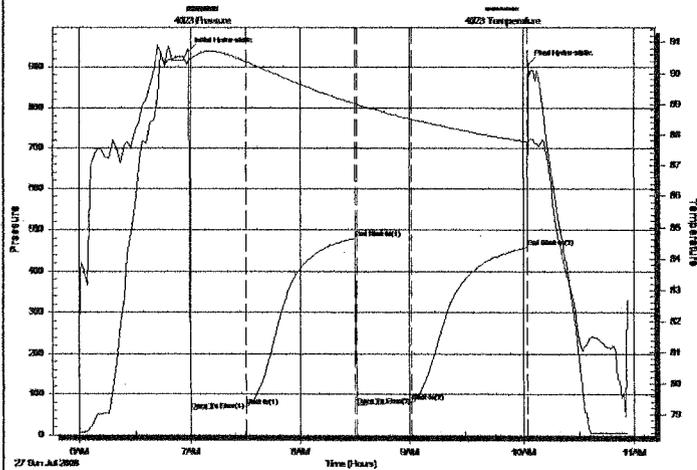
Start Time: 06:00:01 End Time: 10:56:16

Time On Btm: 2008.07.27 @ 06:58:46

Time Off Btm: 2008.07.27 @ 10:02:46

**TEST COMMENT:** INITIAL OPEN: FAIR BLOW BUILT 10 INCHES INTO BUCKET IN 30 MINUTES  
INITIAL SHUT IN: NO BLOW BACK  
FINAL OPEN:WEAK BUT BUILDING BLOW BUILT 3 1/2 INCHES INTO BUCKET IN 30 MINUTES  
FINAL SHUT IN:NO BLOW BACK

Pressure vs. Time



## PRESSURE SUMMARY

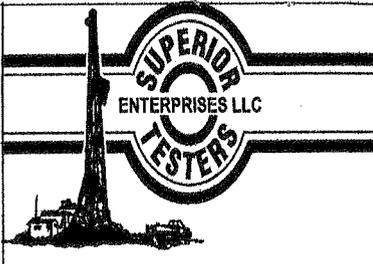
Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	938.36	90.41	Initial Hydro-static
1	61.11	90.50	Open To Flow (1)
32	70.17	90.37	Shut-In(1)
92	478.89	89.00	End Shut-In(1)
93	72.13	89.01	Open To Flow (2)
122	81.10	88.51	Shut-In(2)
184	456.86	87.76	End Shut-In(2)
184	905.82	87.76	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
50.00	MUD 100%	0.70

## Gas Rates

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



# DRILL STEM TEST REPORT

TOOL DIAGRAM

F.G HOLL COMPANY L.L.C

HIGHLAND #1-23

9431 E CENTRAL SUIT # 100  
WICHITA KS 67206

26-20S-15W

Job Ticket: 15324

DST#: 1

ATTN: RYAN GREENBAUM

Test Start: 2008.07.27 @ 06:00:00

## Tool Information

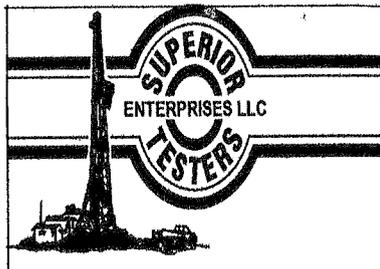
Drill Pipe:	Length: 1630.00 ft	Diameter: 3.80 inches	Volume: 22.86 bbl	Tool Weight: 10000.00 lb
Heavy Wt. Pipe:	Length: ft	Diameter: inches	Volume: - bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 40000.00 lb
			Total Volume: - bbl	Tool Chased 0.00 ft
Drill Pipe Above KB:	5.00 ft			String Weight: Initial 38000.00 lb
Depth to Top Packer:	1775.00 ft			Final 38000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	74.43 ft			
Tool Length:	224.43 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
------------------	-------------	------------	----------	------------	----------------

Circulating Sub	1.00			1626.00	
Drill Pipe or Drill Collars	120.00			1746.00	
Change Over Sub	1.00			1747.00	
Shut-In Tool	5.00			1752.00	
Hydrolic Tool	5.00			1757.00	
Jars	6.00			1763.00	
Safety Joint	2.00			1765.00	
Packer	5.00			1770.00	150.00 Bottom Of Top Packer
Packer	5.00			1775.00	
Anchor	37.00			1812.00	
Change Over Sub	0.75			1812.75	
Drill Pipe	30.93			1843.68	
Change Over Sub	0.75			1844.43	
Bull Plug	5.00			1849.43	74.43 Bottom Packers & Anchor

**Total Tool Length: 224.43**



# DRILL STEM TEST REPORT

FLUID SUMMARY

F.G HOLL COMPANY L.L.C

HIGHLAND #1-23

9431 E CENTRAL SUIT # 100  
WICHITA KS 67206

26-20S-15W

Job Ticket: 15324

DST#: 1

ATTN: RYAN GREENBAUM

Test Start: 2008.07.27 @ 06:00:00

## Mud and Cushion Information

Mud Type: Gel Chem  
Mud Weight: 9.00 lb/gal  
Viscosity: 45.00 sec/qt  
Water Loss: 10.19 in<sup>3</sup>  
Resistivity: ohm.m  
Salinity: 38000.00 ppm  
Filter Cake: 2.00 inches

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

Oil API: deg API  
Water Salinity: ppm

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
50.00	MUD 100%	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:

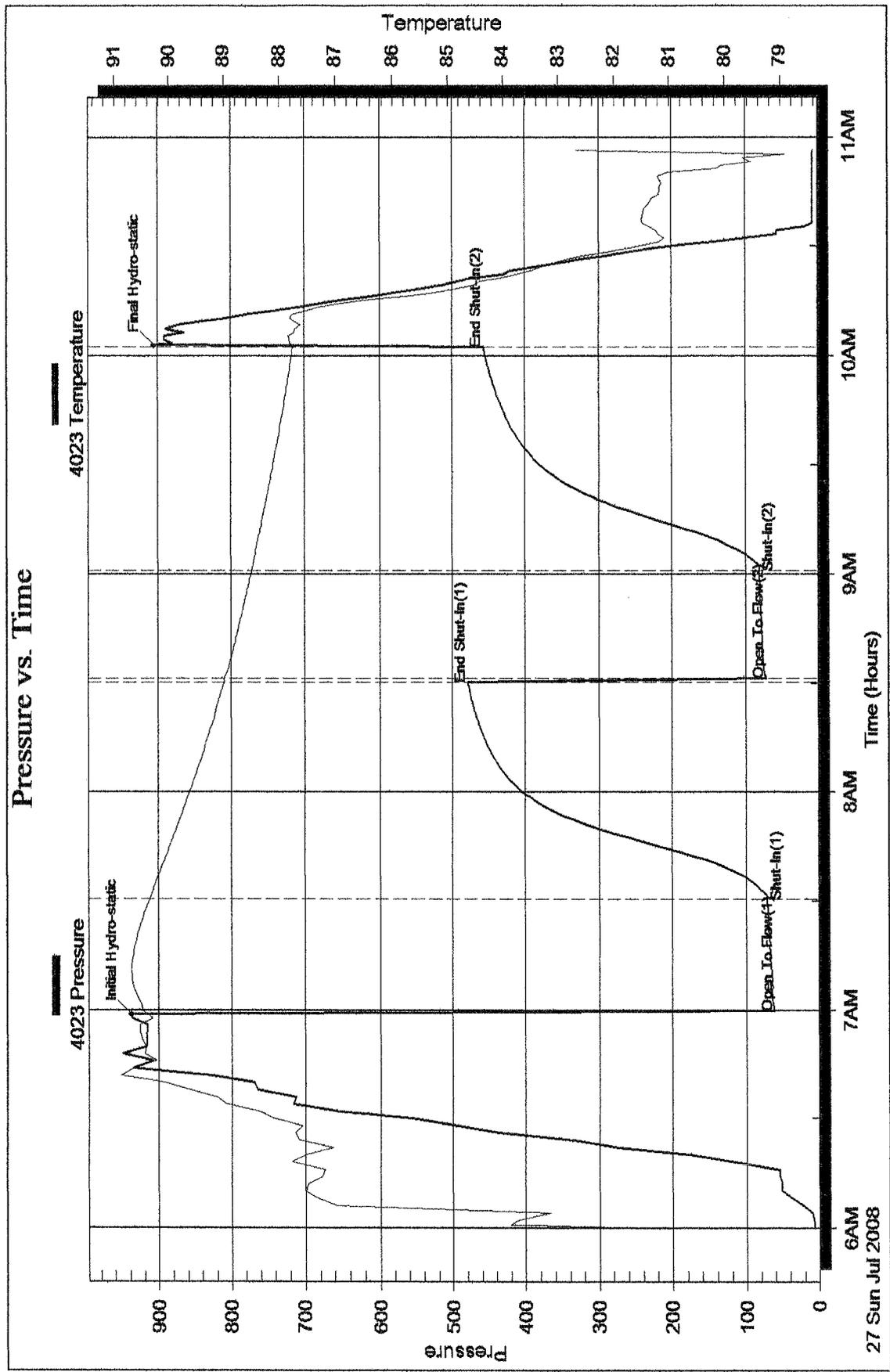
Recovery Comments:

Serial #: 4023

F.G.HOLL COMPANY L.L.C

26-20S-15W

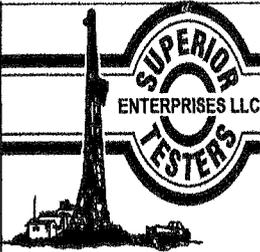
DST Test Number: 1



Printed: 2008.07.31 @ 05:22:55

Ref. No: 15324

Superior Testers Enterprises LLC



# DRILL STEM TEST REPORT

F.G HOLL COMPANY L.L.C

HIGHLAND #1-23

9431 E CENTRAL SUIT # 100  
WICHITA KS 67206

26-20S-15W

Job Ticket: 15351

DST#: 2

ATTN: RYAN GREENBAUM

Test Start: 2008.07.30 @ 05:00:00

## GENERAL INFORMATION:

Formation: LANSING A-E

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 16:51:23

Time Test Ended: 19:39:23

Test Type: Conventional Bottom Hole (Initial)

Tester: JARED SCHECK

Unit No: 3320 - 30 - GB

Interval: 3344.00 ft (KB) To 3398.00 ft (KB) (TVD)

Reference Elevations: 1934.00 ft (KB)

Total Depth: 3398.00 ft (KB) (TVD)

1926.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

## Serial #: 8405

Press@RunDepth: 59.47 psia @ ft (KB)

Capacity: 5000.00 psia

Start Date: 2008.07.30

End Date: 2008.07.30

Last Calib.: 2008.07.30

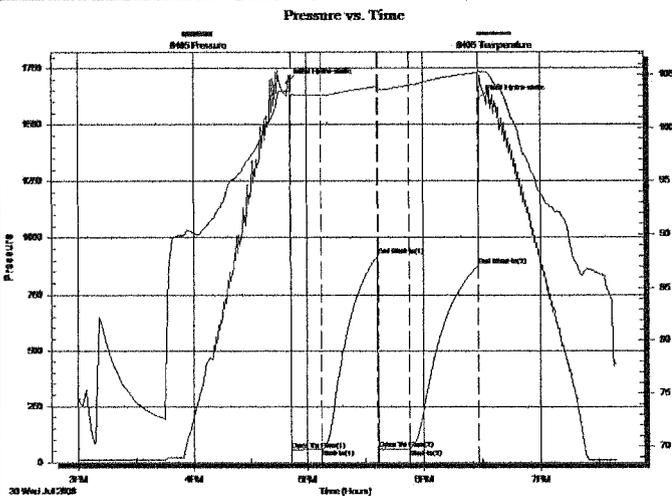
Start Time: 15:00:00

End Time: 19:39:23

Time On Btm: 2008.07.30 @ 16:49:53

Time Off Btm: 2008.07.30 @ 18:28:53

TEST COMMENT: INITIAL OPEN: VERY WEAK BUT BUILDING BLOW BUILT 1/2 INCH INTO WATER IN 15 MINUTES  
INITIAL SHUT IN: NO BLOW BACK  
FINAL OPEN: VERY WEAK SURGE DID NOT BUILD  
FINAL SHUT IN: NO BLOW BACK



## PRESSURE SUMMARY

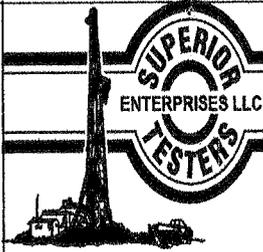
Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1685.02	103.46	Initial Hydro-static
2	55.38	102.67	Open To Flow (1)
18	57.22	103.03	Shut-In(1)
47	918.56	103.89	End Shut-In(1)
47	57.70	103.34	Open To Flow (2)
63	59.47	103.99	Shut-In(2)
99	875.85	105.17	End Shut-In(2)
100	1611.34	105.46	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
5.00	MUD 100%	0.07

## Gas Rates

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



# DRILL STEM TEST REPORT

TOOL DIAGRAM

F.G HOLL COMPANY L.L.C

HIGHLAND #1-23

9431 E CENTRAL SUIT # 100  
WICHITA KS 67206

26-20S-15W

Job Ticket: 15351

DST#: 2

ATTN: RYAN GREENBAUM

Test Start: 2008.07.30 @ 05:00:00

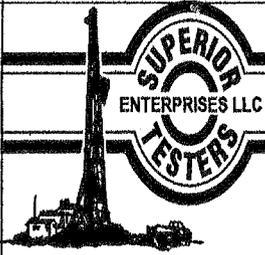
## Tool Information

Drill Pipe:	Length: 3221.00 ft	Diameter: 3.80 inches	Volume: 45.18 bbl	Tool Weight: 10000.00 lb
Heavy Wt. Pipe:	Length: ft	Diameter: inches	Volume: - 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: 58000.00 lb
			Total Volume: - bbl	Tool Chased 0.00 ft
Drill Pipe Above KB:	27.00 ft			String Weight: Initial 52000.00 lb
Depth to Top Packer:	3344.00 ft			Final 52000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	53.48 ft			
Tool Length:	203.48 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Circulating Sub	1.00			3195.00	
Drill Pipe or Drill Collars	120.00			3315.00	
Change Over Sub	1.00			3316.00	
Shut-In Tool	5.00			3321.00	
Hydraulic Tool	5.00			3326.00	
Jars	6.00			3332.00	
Safety Joint	2.00			3334.00	
Packer	5.00			3339.00	150.00 Bottom Of Top Packer
Packer	5.00			3344.00	
Anchor	15.00			3359.00	
Change Over Sub	0.75			3359.75	
Drill Pipe	31.98			3391.73	
Change Over Sub	0.75			3392.48	
Bull Plug	5.00			3397.48	53.48 Bottom Packers & Anchor

**Total Tool Length: 203.48**



# DRILL STEM TEST REPORT

FLUID SUMMARY

F.G HOLL COMPANY L.L.C

HIGHLAND #1-23

9431 E CENTRAL SUIT # 100  
WICHITA KS 67206

26-20S-15W

Job Ticket: 15351

DST#: 2

ATTN: RYAN GREENBAUM

Test Start: 2008.07.30 @ 05:00:00

## 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: 41.00 sec/qt

Cushion Volume:

bbl

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

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psia

Salinity: 6000.00 ppm

Filter Cake: 1.00 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5.00	MUD 100%	0.070

Total Length: 5.00 ft

Total Volume: 0.070 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

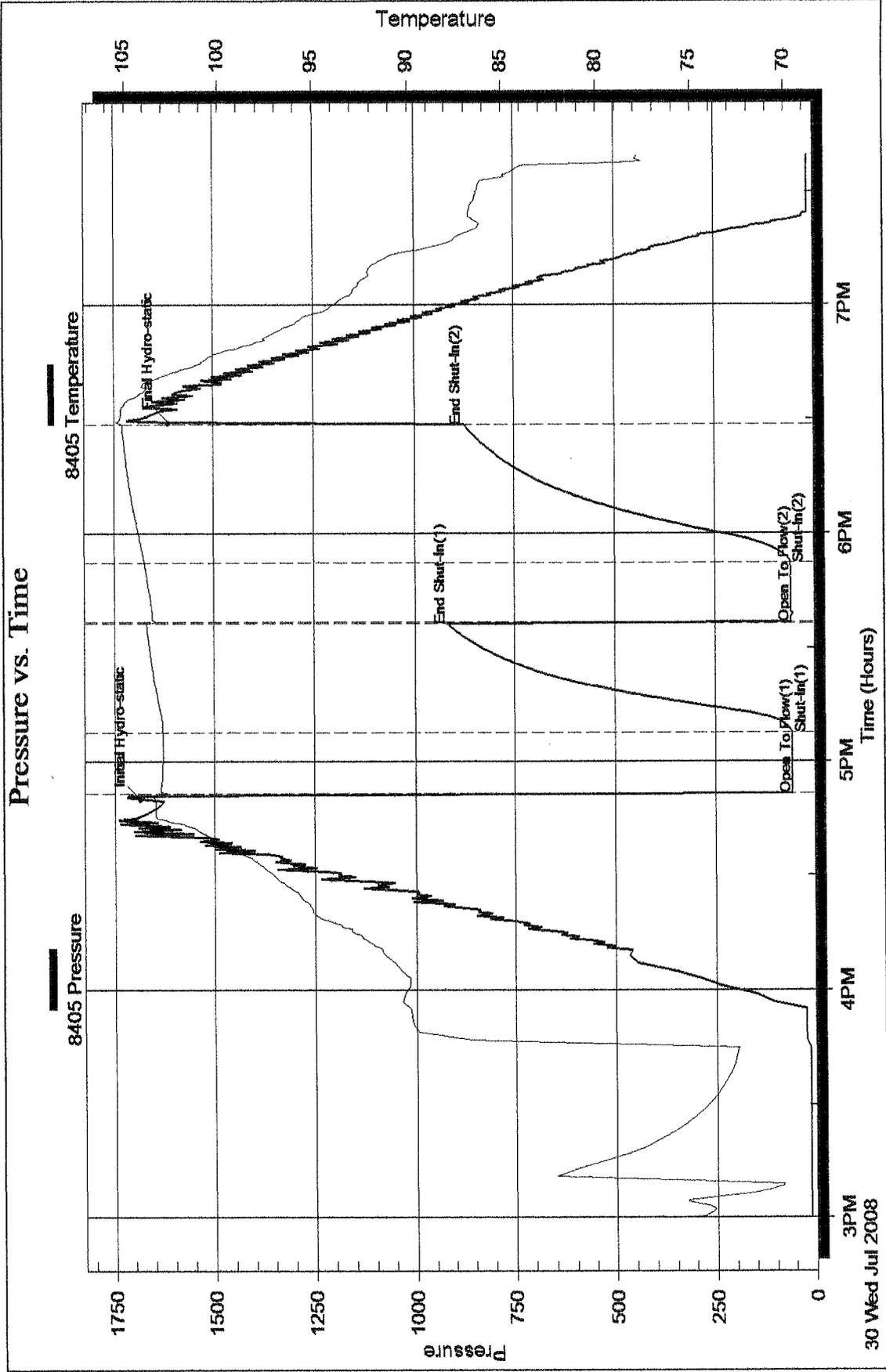
Serial #: 8405

F.G.HOLL COMPANY L.L.C

26-20S-15W

DST Test Number: 2

### Pressure vs. Time

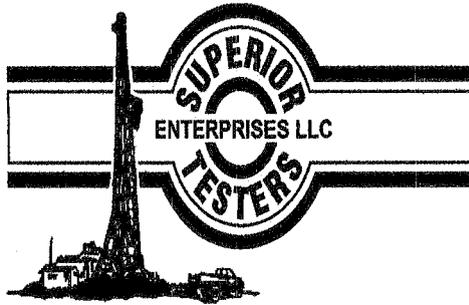


Printed: 2008.07.31 @ 05:23:11

Ref. No: 15351

Superior Testers Enterprises LLC

30 Wed Jul 2008



## DRILL STEM TEST REPORT

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

9431 E CENTRAL SUIT # 100  
WICHITA KS 67206

ATTN: RYAN GREENBAUM

**26-20S-15W**

**HIGHLAND #1-23**

Start Date: 2008.07.31 @ 00:12:00

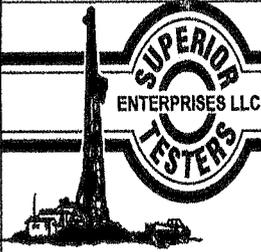
End Date: 2008.07.31 @ 04:46:30

Job Ticket #: 15352                      DST #: 3

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

Printed: 2008.07.31 @ 05:23:27

F.G HOLL COMPANY L.L.C      HIGHLAND #1-23      26-20S-15W      DST # 3      CONGLOMERATE      2008.07.31



# DRILL STEM TEST REPORT

F.G HOLL COMPANY L.L.C

HIGHLAND #1-23

9431 E CENTRAL SUIT # 100  
WICHITA KS 67206

26-20S-15W

Job Ticket: 15352

DST#: 3

ATTN: RYAN GREENBAUM

Test Start: 2008.07.31 @ 00:12:00

## GENERAL INFORMATION:

Formation: **CONGLOMERATE**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 01:33:30

Time Test Ended: 04:46:30

Test Type: Conventional Bottom Hole (Initial)

Tester: JARED SCHECK

Unit No: 3320 - 30 - GB

Interval: **3574.00 ft (KB) To 3627.00 ft (KB) (TVD)**

Reference Elevations: 1934.00 ft (KB)

Total Depth: 3627.00 ft (KB) (TVD)

1926.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

## Serial #: 8405

Press@RunDepth: 194.41 psia @ ft (KB)

Capacity: 5000.00 psia

Start Date: 2008.07.31 End Date: 2008.07.31

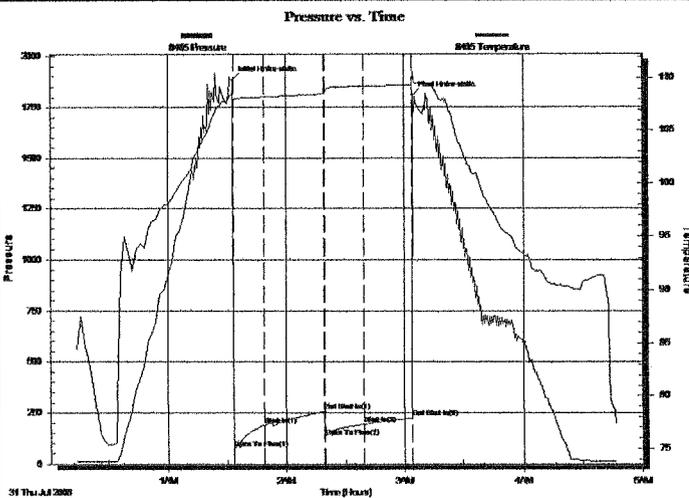
Last Calib.: 2008.07.31

Start Time: 00:12:00 End Time: 04:46:30

Time On Btm: 2008.07.31 @ 01:33:00

Time Off Btm: 2008.07.31 @ 03:04:30

TEST COMMENT: INITIAL OPEN: VERY WEAK SURFACE BLOW DID NOT BUILD  
INITIAL SHUT IN: NO BLOW BACK  
FINAL OPEN: WEAK SURGE DID NOT BUILD  
FINAL SHUT IN: NO BLOW BACK



## PRESSURE SUMMARY

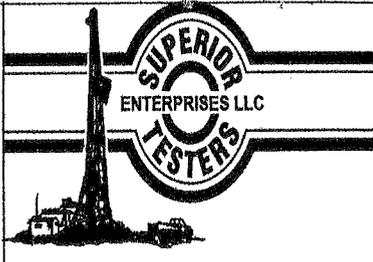
Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1881.27	108.45	Initial Hydro-static
1	73.13	107.67	Open To Flow (1)
16	188.88	108.20	Shut-In(1)
47	258.10	108.51	End Shut-In(1)
47	131.57	108.48	Open To Flow (2)
67	194.41	109.24	Shut-In(2)
92	224.70	109.36	End Shut-In(2)
92	1808.71	110.54	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
7.00	MUD 100%	0.10

## Gas Rates

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



# DRILL STEM TEST REPORT

TOOL DIAGRAM

F.G HOLL COMPANY L.L.C

HIGHLAND #1-23

9431 E CENTRAL SUIT # 100  
WICHITA KS 67206

26-20S-15W

Job Ticket: 15352

DST#: 3

ATTN: RYAN GREENBAUM

Test Start: 2008.07.31 @ 00:12:00

## Tool Information

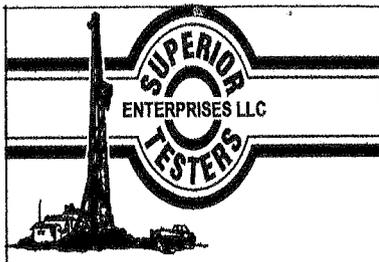
Drill Pipe:	Length: 3441.00 ft	Diameter: 3.80 inches	Volume: 48.27 bbl	Tool Weight: 10000.00 lb
Heavy Wt. Pipe:	Length: ft	Diameter: inches	Volume: - bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 60000.00 lb
			Total Volume: - bbl	Tool Chased 0.00 ft
Drill Pipe Above KB:	17.00 ft			String Weight: Initial 55000.00 lb
Depth to Top Packer:	3574.00 ft			Final 55000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	52.49 ft			
Tool Length:	202.49 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
------------------	-------------	------------	----------	------------	----------------

Circulating Sub	1.00			3425.00	
Drill Pipe or Drill Collars	120.00			3545.00	
Change Over Sub	1.00			3546.00	
Shut-In Tool	5.00			3551.00	
Hydraulic Tool	5.00			3556.00	
Jars	6.00			3562.00	
Safety Joint	2.00			3564.00	
Packer	5.00			3569.00	150.00 Bottom Of Top Packer
Packer	5.00			3574.00	
Anchor	15.00			3589.00	
Change Over Sub	0.75			3589.75	
Drill Pipe	30.99			3620.74	
Change Over Sub	0.75			3621.49	
Bull Plug	5.00			3626.49	52.49 Bottom Packers & Anchor

**Total Tool Length: 202.49**



# DRILL STEM TEST REPORT

**FLUID SUMMARY**

F.G HOLL COMPANY L.L.C

**HIGHLAND #1-23**

9431 E CENTRAL SUIT # 100  
WICHITA KS 67206

**26-20S-15W**

Job Ticket: 15352

**DST#: 3**

ATTN: RYAN GREENBAUM

Test Start: 2008.07.31 @ 00:12:00

## Mud and Cushion Information

Mud Type: Gel Chem  
Mud Weight: 9.00 lb/gal  
Viscosity: 50.00 sec/qt  
Water Loss: 8.00 in<sup>3</sup>  
Resistivity: ohm.m  
Salinity: 6400.00 ppm  
Filter Cake: 1.00 inches

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

Oil API: deg API  
Water Salinity: ppm

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
7.00	MUD 100%	0.098

Total Length: 7.00 ft      Total Volume: 0.098 bbl

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

Laboratory Name:      Laboratory Location:

Recovery Comments:

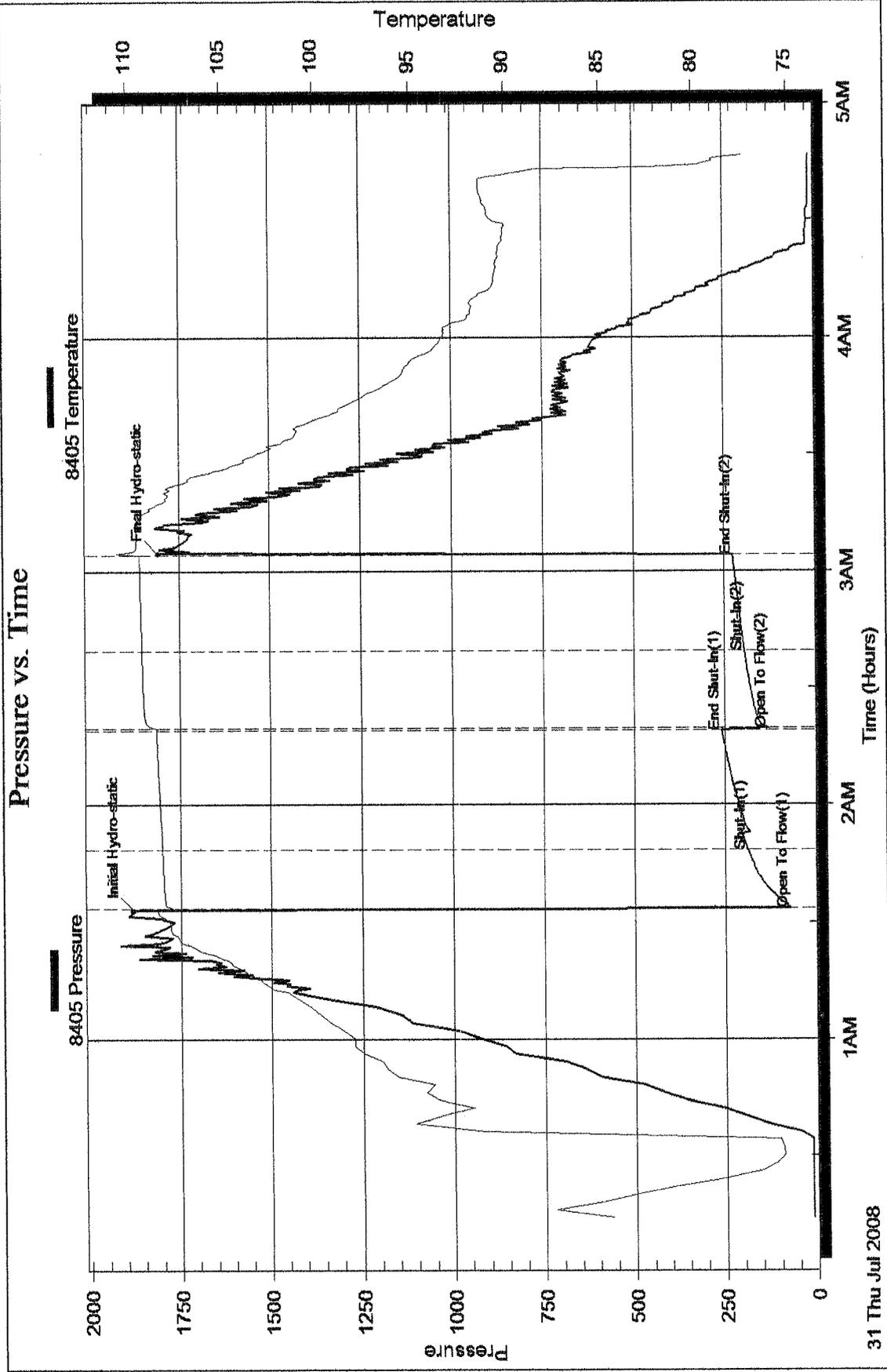
Serial #: 8405

F.G HOLL COMPANY L.L.C

26-20S-15W

DST Test Number: 3

### Pressure vs. Time

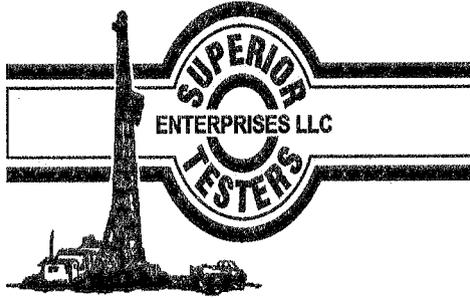


31 Thu Jul 2008

Superior Testers Enterprises LLC

Ref. No: 15352

Printed: 2008.07.31 @ 05:23:28



## DRILL STEM TEST REPORT

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

9431 E CENTRAL SUIT # 100  
WICHITA KS 67206

ATTN: RYAN GREENBAUM

**26-20S-15W**

**HIGHLAND #1-23**

Start Date: 2008.08.04 @ 00:00:00

End Date:

Job Ticket #: 13353

DST #: 4

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

Printed: 2008.08.04 @ 15:23:39

F.G HOLL COMPANY L.L.C

HIGHLAND #1-23

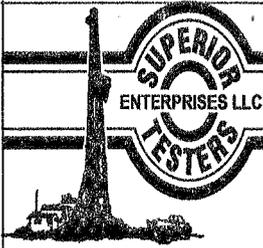
26-20S-15W

DST # 4

TOPEKA

2008.08.04





# DRILL STEM TEST REPORT

TOOL DIAGRAM

F.G HOLL COMPANY L.L.C

HIGHLAND #1-23

9431 E CENTRAL SUIT # 100  
WICHITA KS 67206

26-20S-15W

Job Ticket: 13353

DST#: 4

ATTN: RYAN GREENBAUM

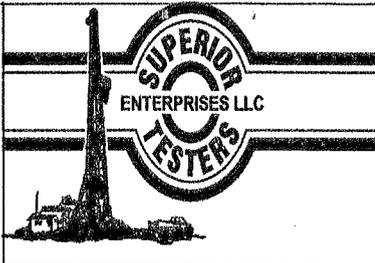
Test Start: 2008.08.04 @ 00:00:00

## Tool Information

Drill Pipe:	Length: 3000.00 ft	Diameter: 3.80 inches	Volume: 42.08 bbl	Tool Weight:	10000.00 lb
Heavy Wt. Pipe:	Length: ft	Diameter: inches	Volume: - bbl	Weight set on Packer:	0.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose:	0.00 lb
			Total Volume: - bbl	Tool Chased	0.00 ft
Drill Pipe Above KB:	ft			String Weight: Initial	0.00 lb
Depth to Top Packer:	3150.00 ft			Final	0.00 lb
Depth to Bottom Packer:	3155.00 ft				
Interval between Packers:	5.00 ft				
Tool Length:	176.00 ft				
Number of Packers:	4	Diameter: 6.75 inches			

Tool Comments: HIT BRIDGE 2880 TRIP BACK OUT HOLE

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths	
Circulating Sub	1.00			3001.00		
Drill Pipe or Drill Collars	120.00			3121.00		
Change Over Sub	1.00			3122.00		
Shut-in Tool	5.00		Fluid	3127.00		
Hydrolic Tool	5.00			3132.00		
Jars	6.00			3138.00		
Safety Joint	2.00			3140.00		
Packer	5.00		Inside	3145.00	150.00	Bottom Of Top Packer
Packer	5.00			3150.00		
Anchor	4.00			3154.00		
Change Over Sub	0.00			3154.00		
Drill Pipe	0.00			3154.00		
Change Over Sub	0.00			3154.00		
Blank Off Sub	1.00			3155.00		
Packer	5.00			3160.00	5.00	Tool Interval
Packer	5.00			3165.00		
Anchor	0.00		Outside	3165.00		
Change Over Sub	0.00		Outside	3165.00		
HOOK WALL	5.00			3170.00		
Perforations	1.00			3171.00		
Bull :Plug	5.00			3176.00	21.00	Bottom Packers & Anchor
<b>Total Tool Length:</b>	<b>176.00</b>					



# DRILL STEM TEST REPORT

FLUID SUMMARY

F.G HOLL COMPANY L.L.C

HIGHLAND #1-23

9431 E CENTRAL SUIT # 100  
WICHITA KS 67206

26-20S-15W

Job Ticket: 13353

DST#: 4

ATTN: RYAN GREENBAUM

Test Start: 2008.08.04 @ 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: 55.00 sec/qt	Cushion Volume: bbl		
Water Loss: 11.99 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psia		
Salinity: 7500.00 ppm			
Filter Cake: 1.00 inches			

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
10.00	MUD 100%	0.140

Total Length: 10.00 ft      Total Volume: 0.140 bbl

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

Laboratory Name:      Laboratory Location:

Recovery Comments:

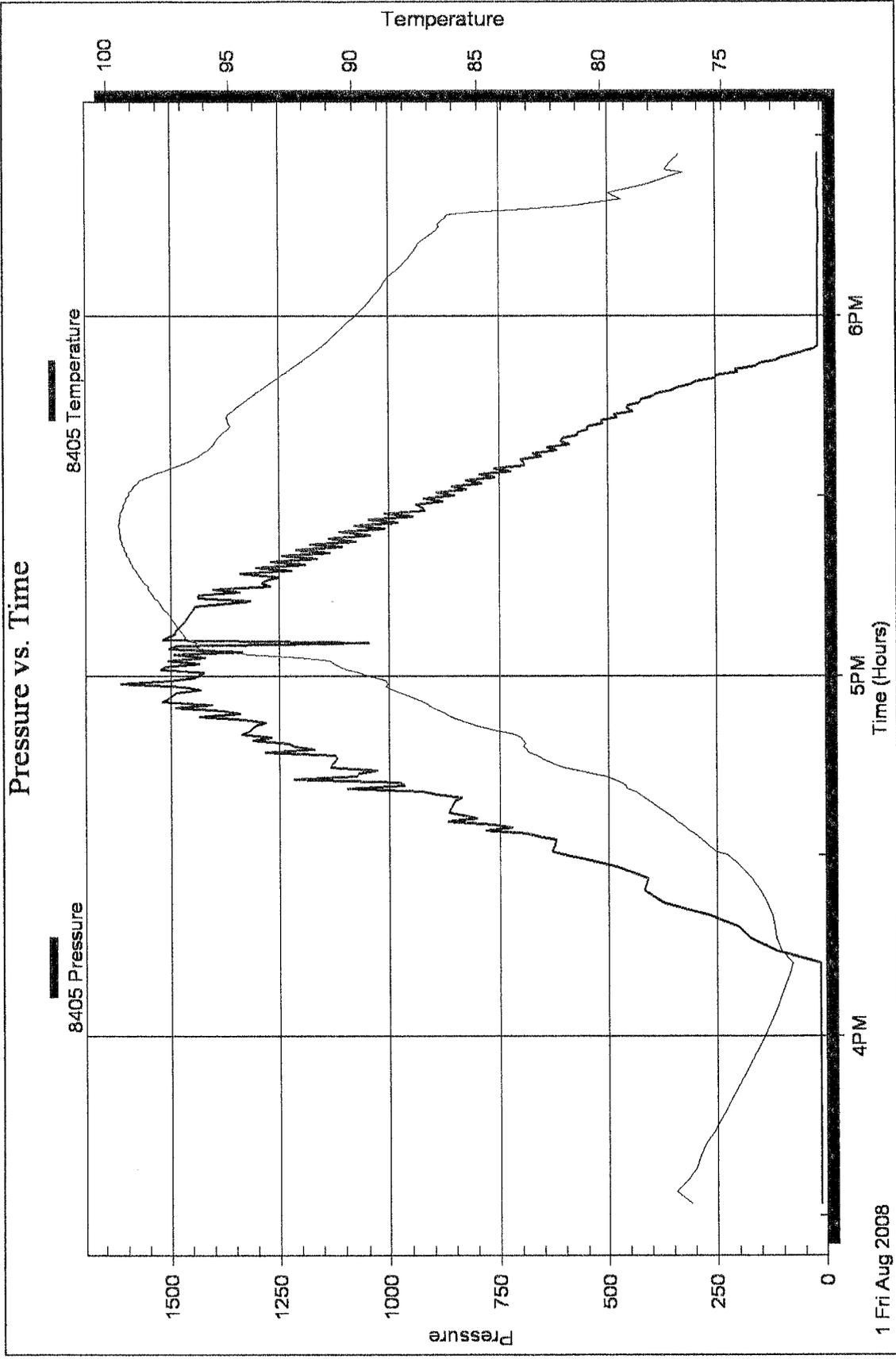
Serial #: 8405

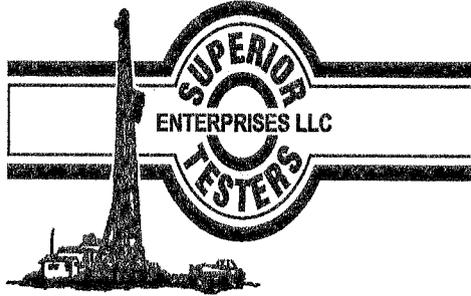
F.G.HOLL COMPANY L.L.C

26-20S-15W

DST Test Number: 4

### Pressure vs. Time





## DRILL STEM TEST REPORT

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

9431 E CENTRAL SUIT # 100  
WICHITA KS 67206

ATTN: RYAN GREENBAUM

**26-20S-15W**

**HIGHLAND #1-23**

Start Date: 2008.08.01 @ 03:30:00

End Date: 2008.08.01 @ 08:00:00

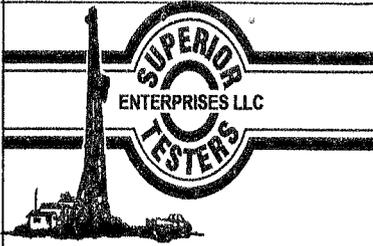
Job Ticket #: 15354                      DST #: 5

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

Printed: 2008.08.04 @ 15:23:54

F.G HOLL COMPANY L.L.C  
HIGHLAND #1-23  
26-20S-15W  
DST # 5  
TOPEKA  
2008.08.01





# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

F.G HOLL COMPANY L.L.C

**HIGHLAND #1-23**

9431 E CENTRAL SUIT # 100  
WICHITA KS 67206

**26-20S-15W**

Job Ticket: 15354

**DST#: 5**

ATTN: RYAN GREENBAUM

Test Start: 2008.08.01 @ 03:30:00

## Tool Information

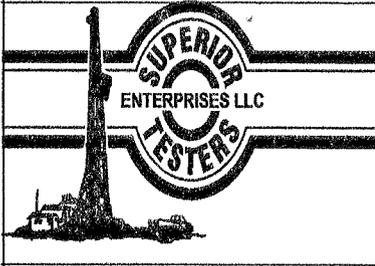
Drill Pipe:	Length: 3030.00 ft	Diameter: 3.80 inches	Volume: 42.50 bbl	Tool Weight: 10000.00 lb
Heavy Wt. Pipe:	Length: ft	Diameter: inches	Volume: - bbl	Weight set on Packer: 0.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 0.00 lb
			<u>Total Volume: - bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	25.00 ft			String Weight: Initial 45000.00 lb
Depth to Top Packer:	3155.00 ft			Final 45000.00 lb
Depth to Bottom Packer:	3160.00 ft			
Interval between Packers:	5.00 ft			
Tool Length:	176.00 ft			
Number of Packers:	4	Diameter: 6.75 inches		

Tool Comments: MISS RUN DID NOT GET HOOK TO SET

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
------------------	-------------	------------	----------	------------	----------------

Circulating Sub	1.00			3006.00	
Drill Pipe or Drill Collars	120.00			3126.00	
Change Over Sub	1.00			3127.00	
Shut-in Tool	5.00		Fluid	3132.00	
Hydrolic Tool	5.00			3137.00	
Jars	6.00			3143.00	
Safety Joint	2.00			3145.00	
Packer	5.00		Inside	3150.00	150.00 Bottom Of Top Packer
Packer	5.00			3155.00	
Anchor	4.00			3159.00	
Change Over Sub	0.00			3159.00	
Drill Pipe	0.00			3159.00	
Change Over Sub	0.00			3159.00	
Blank Off Sub	1.00			3160.00	
Packer	5.00			3165.00	5.00 Tool Interval
Packer	5.00			3170.00	
Anchor	0.00		Outside	3170.00	
Change Over Sub	0.00		Outside	3170.00	
HOOK WALL	5.00			3175.00	
Perforations	1.00			3176.00	
Bull :Plug	5.00			3181.00	21.00 Bottom Packers & Anchor

**Total Tool Length: 176.00**



# DRILL STEM TEST REPORT

FLUID SUMMARY

F.G HOLL COMPANY L.L.C

HIGHLAND #1-23

9431 E CENTRAL SUIT # 100  
WICHITA KS 67206

26-20S-15W

Job Ticket: 15354

DST#: 5

ATTN: RYAN GREENBAUM

Test Start: 2008.08.01 @ 03:30:00

## 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: 44.00 sec/qt	Cushion Volume: bbl		
Water Loss: 12.39 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psia		
Salinity: 7000.00 ppm			
Filter Cake: 1.00 inches			

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
1.00	MUD 100%	0.014

Total Length: 1.00 ft      Total Volume: 0.014 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

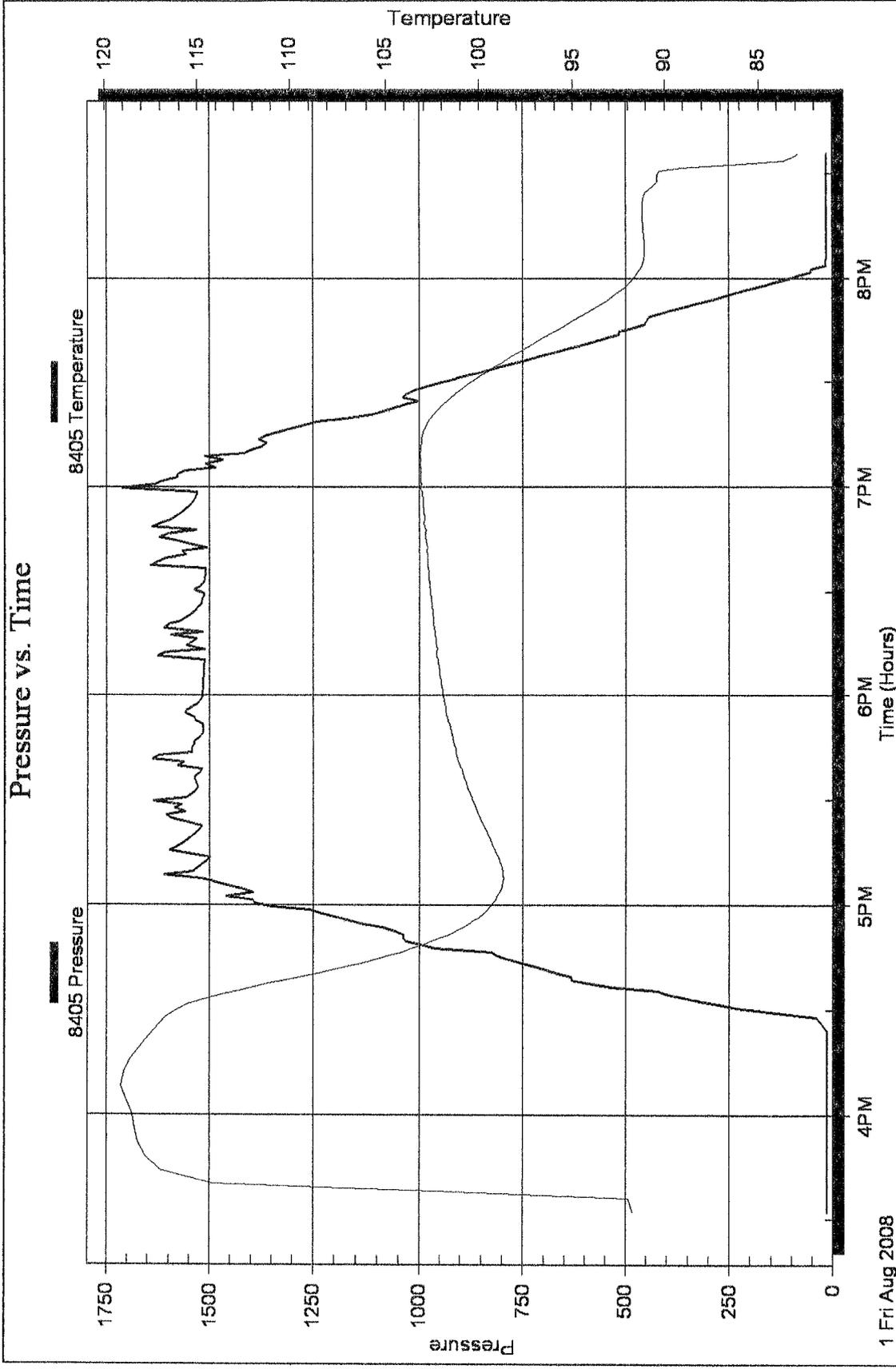
Recovery Comments:

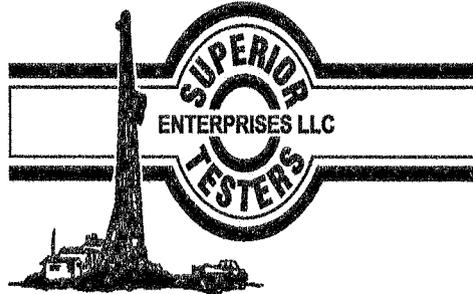
Serial #: 8405

F.G.HOLL COMPANY L.L.C

26-20S-15W

DST Test Number: 5





## DRILL STEM TEST REPORT

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

9431 E CENTRAL SUIT # 100  
WICHITA KS 67206

ATTN: RYAN GREENBAUM

**26-20S-15W**

**HIGHLAND #1-23**

Start Date: 2008.08.04 @ 00:00:00

End Date:

Job Ticket #:

DST #: 6

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

Printed: 2008.08.04 @ 15:24:07

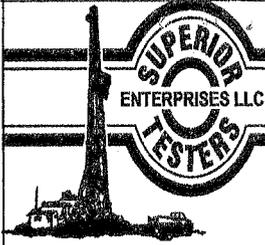
F.G HOLL COMPANY L.L.C

HIGHLAND #1-23

26-20S-15W

DST # 6

2008.08.04



# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

F.G HOLL COMPANY L.L.C

**HIGHLAND #1-23**

9431 E CENTRAL SUIT # 100  
WICHITA KS 67206

**26-20S-15W**

Job Ticket:

**DST#: 6**

ATTN: RYAN GREENBAUM

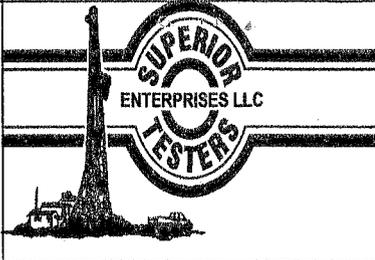
Test Start: 2008.08.04 @ 00:00:00

## Tool Information

Drill Pipe:	Length: 3020.00 ft	Diameter: 3.80 inches	Volume: 42.36 bbl	Tool Weight: 10000.00 lb
Heavy Wt. Pipe:	Length: ft	Diameter: inches	Volume: - bbl	Weight set on Packer: 0.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 0.00 lb
			<u>Total Volume: - bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	ft			String Weight: Initial 45000.00 lb
Depth to Top Packer:	3170.00 ft			Final 45000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	0.00 ft			
Tool Length:	176.00 ft			
Number of Packers:	1	Diameter: inches		
Tool Comments:				

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Circulating Sub	1.00			3021.00	
Drill Pipe or Drill Collars	120.00			3141.00	
Change Over Sub	1.00			3142.00	
Shut-in Tool	5.00		Fluid	3147.00	
Hydrolic Tool	5.00			3152.00	
Jars	6.00			3158.00	
Safety Joint	2.00			3160.00	
Packer	5.00		Inside	3165.00	150.00 Bottom Of Top Packer
Packer	5.00			3170.00	
Anchor	4.00			3174.00	
Change Over Sub	0.00			3174.00	
Drill Pipe	0.00			3174.00	
Change Over Sub	0.00			3174.00	
Blank Off Sub	1.00			3175.00	
Packer	5.00			3180.00	0.00 Tool Interval
Packer	5.00			3185.00	
Anchor	0.00		Outside	3185.00	
Change Over Sub	0.00		Outside	3185.00	
HOOK WALL	5.00			3190.00	
Perforations	1.00			3191.00	
Bull :Plug	5.00			3196.00	1000175.00 Bottom Packers & Anchor

**Total Tool Length: 176.00**



# DRILL STEM TEST REPORT

**FLUID SUMMARY**

F.G HOLL COMPANY L.L.C

**HIGHLAND #1-23**

9431 E CENTRAL SUIT # 100  
WICHITA KS 67206

**26-20S-15W**

Job Ticket:

**DST#: 6**

ATTN: RYAN GREENBAUM

Test Start: 2008.08.04 @ 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: 44.00 sec/qt	Cushion Volume: bbl		
Water Loss: 12.39 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psia		
Salinity: 7000.00 ppm			
Filter Cake: 1.00 inches			

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
1.00	MUD 100%	0.014

Total Length: 1.00 ft      Total Volume: 0.014 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

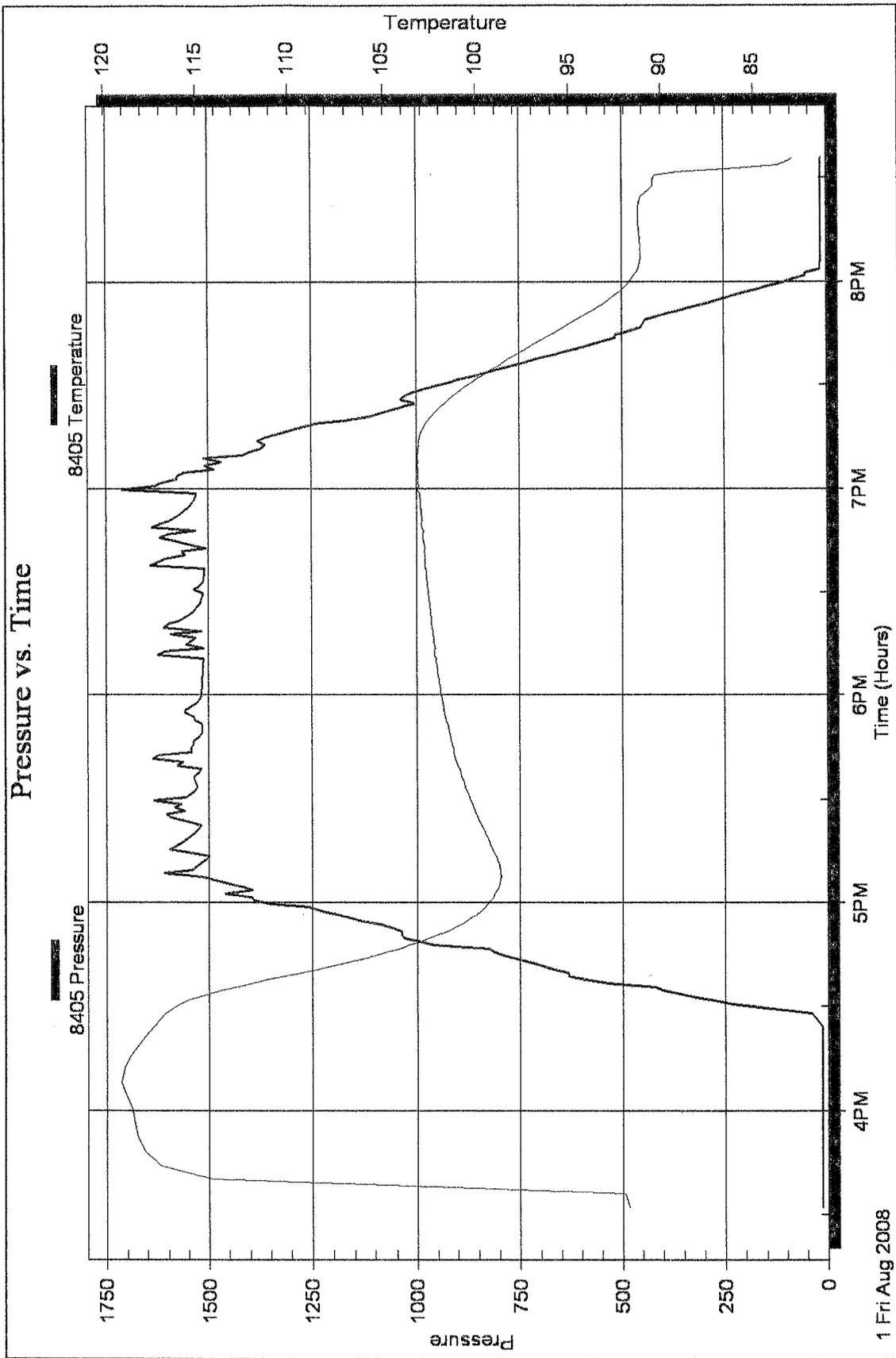
Recovery Comments:

Serial #: 8405

F.G HOLL COMPANY L.L.C

26-20S-15W

DST Test Number: 6



Printed: 2008.08.04 @ 15:24:08

Ref. No:

Superior Testers Enterprises LLC