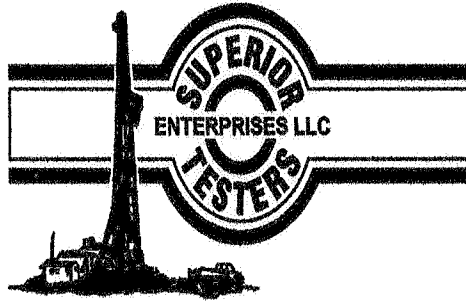


15-145-21577

21-21s-15w

IND



DRILL STEM TEST REPORT

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

9431 E CENTRAL SUITE 100
WICHITA, KANSAS 67206

ATTN: RYAN GREENBAUM

21-21-15 PAWNEE KS.

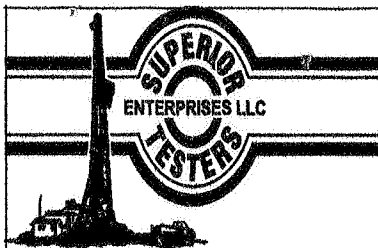
KASSELMAN 1-21

Start Date: 2008.08.08 @ 04:05:32

End Date: 2008.08.08 @ 08:45:42

Job Ticket #: 15472 DST #: 1

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



DRILL STEM TEST REPORT

F.G. HOLL COMPANY L.L.C

9431 E CENTRAL SUITE 100
WICHITA, KANSAS 67206

ATTN: RYAN GREENBAUM

KASSELMAN 1-21

21-21-15 PAWNEE KS.

Job Ticket: 15472

DST#: 1

Test Start: 2008.08.08 @ 04:05:32

GENERAL INFORMATION:

Formation: **HERRINGTON**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 05:31:43

Time Test Ended: 08:45:42

Test Type: Conventional Bottom Hole

Tester: DAVID NICHOLS

Unit No: 3345 41 GD

Interval: **1868.00 ft (KB) To 1938.00 ft (KB) (TVD)**

Total Depth: 1938.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 1959.00 ft (KB)

1951.00 ft (CF)

KB to GR/CF: 8.00 ft

Serial #: 26450

Press@RunDepth: 223.89 psig @ ft (KB)

Start Date: 2008.08.08

End Date: 2008.08.08

Capacity: 5000.00 psig

Last Calib.: 1899.12.30

Start Time: 04:05:33

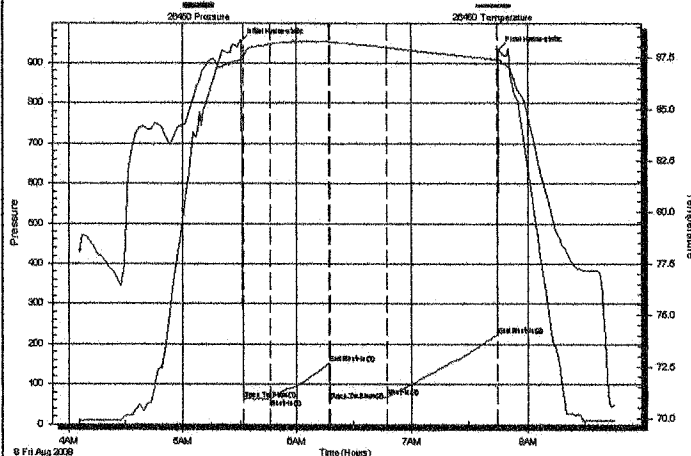
End Time: 08:45:42

Time On Btm: 2008.08.08 @ 05:30:13

Time Off Btm: 2008.08.08 @ 07:44:43

TEST COMMENT: INITIAL OPENING WEAK BUILDING BLOW BUILT TO 6 INCHES INTO WATER IN 15 MIN
INITIAL SHUT IN 1/2 BLOW BACK
FINAL OPENING WEAK BUILDING BLOW BUILT TO 10 INCHES INTO WATER IN 30 MIN
FINAL SHUT IN NO BLO

Pressure vs. Time



PRESSURE SUMMARY

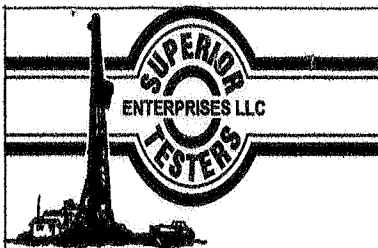
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	952.01	87.37	Initial Hydro-static
2	63.52	87.50	Open To Flow (1)
16	63.96	88.14	Shut-In(1)
47	153.15	88.24	End Shut-In(1)
48	59.98	88.25	Open To Flow (2)
77	69.95	87.99	Shut-In(2)
134	223.89	87.43	End Shut-In(2)
135	933.13	87.46	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
30.00	MUD 100%MUD	0.44

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
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DRILL STEM TEST REPORT

TOOL DIAGRAM

F.G. HOLL COMPANY L.L.C

KASSELMAN 1-21

9431 E CENTRAL SUITE 100
WICHITA, KANSAS 67206

21-21-15 PAWNEE KS.

Job Ticket: 15472

DST#: 1

ATTN: RYAN GREENBAUM

Test Start: 2008.08.08 @ 04:05:32

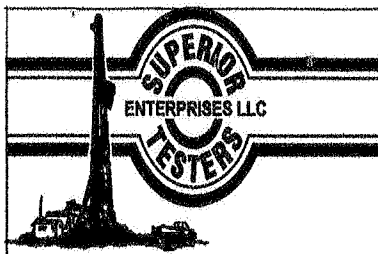
Tool Information

Drill Pipe:	Length: 1842.00 ft	Diameter: 3.88 inches	Volume: 26.94 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: 52000.00 lb
			Total Volume: 26.94 bbl	Tool Chased 5.00 ft
Drill Pipe Above KB:	4.00 ft			String Weight: Initial 34000.00 lb
Depth to Top Packer:	1868.00 ft			Final 36000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	69.90 ft			
Tool Length:	99.90 ft			
Number of Packers:	2	Diameter: 6.75 inches		
Tool Comments:				

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
CIRCULATING SUB	1.00			1839.00	
CHANGE OVER SUB	1.00			1840.00	
SHUT IN TOOL	5.00			1845.00	
HYDROLIC TOOL	5.00		Fluid	1850.00	
JARS	6.00			1856.00	
SAFETY JOINT	2.00			1858.00	
Packer	5.00			1863.00	30.00 Bottom Of Top Packer
Packer	5.00		Inside	1868.00	
STUBB	0.00			1868.00	
Anchor	32.00			1900.00	
CHANGE OFFER	0.75			1900.75	
DRILL PIPE	31.40			1932.15	
CHANGE OFFER	0.75			1932.90	
BULL PLUG	5.00			1937.90	69.90 Bottom Packers & Anchor

Total Tool Length: 99.90



DRILL STEM TEST REPORT

FLUID SUMMARY

F.G. HOLL COMPANY L.L.C

KASSELMAN 1-21

9431 E CENTRAL SUITE 100
WICHITA, KANSAS 67206

21-21-15 PAWNEE KS.

Job Ticket: 15472

DST#: 1

ATTN: RYAN GREENBAUM

Test Start: 2008.08.08 @ 04:05:32

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 36.00 sec/qt

Water Loss: 15.15 in³

Resistivity: ohm.m

Salinity: 16000.00 ppm

Filter Cake: 1.00 inches

Cushion Type:

Cushion Length:

Cushion Volume:

Gas Cushion Type:

Gas Cushion Pressure:

ft

bbl

psig

Oil API:

Water Salinity:

deg API

ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
30.00	MUD 100%MUD	0.439

Total Length: 30.00 ft

Total Volume: 0.439 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

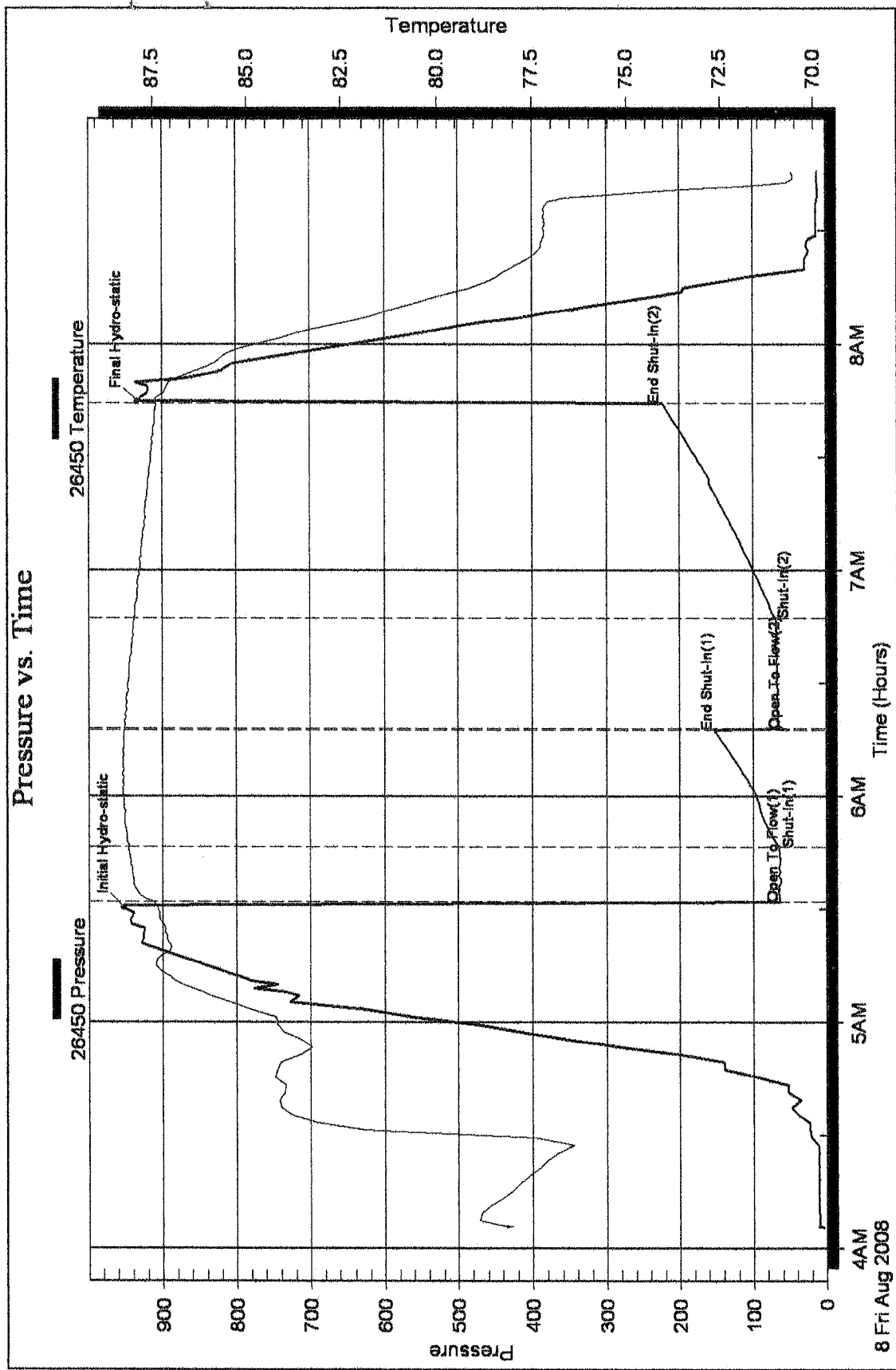
Recovery Comments:

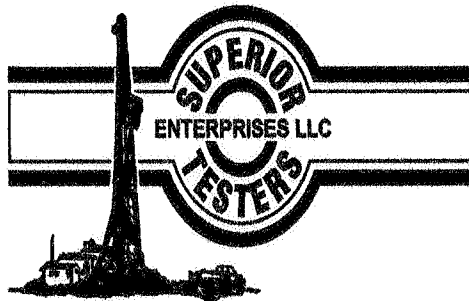
Serial #: 26450

F.G. HOLL COMPANY L.L.C

21-21-15 PAWNEE KS.

DST Test Number: 1





DRILL STEM TEST REPORT

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

9431 E CENTRAL SUITE 100
WICHITA, KANSAS 67206

ATTN: RYAN GREENBAUM

21-21-15 PAWNEE KS.

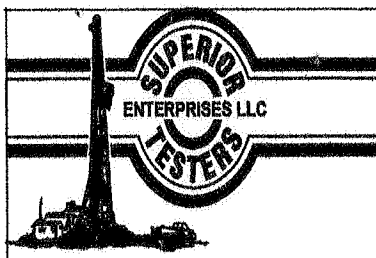
KASSELMAN 1-21

Start Date: 2008.08.08 @ 13:12:09

End Date: 2008.08.08 @ 16:53:39

Job Ticket #: 15473 DST #: 2

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



DRILL STEM TEST REPORT

F.G. HOLL COMPANY L.L.C

9431 E CENTRAL SUITE 100
WICHITA, KANSAS 67206

ATTN: RYAN GREENBAUM

KASSELMAN 1-21

21-21-15 PAWNEE KS.

Job Ticket: 15473

DST#: 2

Test Start: 2008.08.08 @ 13:12:09

GENERAL INFORMATION:

Formation: **WINFIELD**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 13:58:09

Time Test Ended: 16:53:39

Test Type: Conventional Bottom Hole

Tester: DAVID NICHOLS

Unit No: 3345 41 GB

Interval: 1920.00 ft (KB) To 1970.00 ft (KB) (TVD)

Total Depth: 1970.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 1959.00 ft (KB)

1951.00 ft (CF)

KB to GR/CF: 8.00 ft

Serial #: 8419

Press@RunDepth: 72.62 psig @ ft (KB)

Start Date: 2008.08.08

End Date:

2008.08.08

Start Time: 13:13:09

End Time:

16:53:39

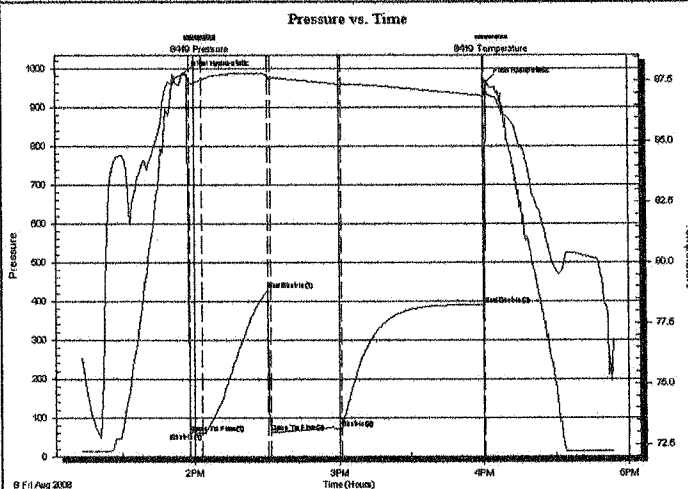
Capacity: 5000.00 psig

Last Calib.: 1899.12.30

Time On Btm: 2008.08.08 @ 13:56:09

Time Off Btm: 2008.08.08 @ 16:01:39

TEST COMMENT: INITIAL OPENING FAIR BLOW BOTTOM BUCKET IN 4 MINS
INITIAL SHUT IN GOOD BLOW BACK
FINAL OPENING GOOD BLOW BOTTOM BUCKET IN LESS 1 MIN
FINAL SHUT IN GOOD BLOW BACK



PRESSURE SUMMARY

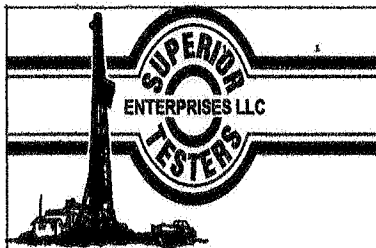
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	986.69	87.78	Initial Hydro-static
2	61.59	87.43	Open To Flow (1)
7	60.18	87.56	Shut-In (1)
35	428.11	87.79	End Shut-In (1)
35	62.01	87.65	Open To Flow (2)
65	72.62	87.35	Shut-In (2)
125	391.08	86.89	End Shut-In (2)
126	964.91	86.99	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
50.00	MUD 100%MUD	0.73

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
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DRILL STEM TEST REPORT

F.G. HOLL COMPANY L.L.C

9431 E CENTRAL SUITE 100
WICHITA, KANSAS 67206

ATTN: RYAN GREENBAUM

KASSELMAN 1-21

21-21-15 PAWNEE KS.

Job Ticket: 15473

DST#: 2

Test Start: 2008.08.08 @ 13:12:09

GENERAL INFORMATION:

Formation: **WINFIELD**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 13:58:09

Time Test Ended: 16:53:39

Test Type: Conventional Bottom Hole

Tester: DAVID NICHOLS

Unit No: 3345 41 GB

Interval: 1920.00 ft (KB) To 1970.00 ft (KB) (TVD)

Total Depth: 1970.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 1959.00 ft (KB)

1951.00 ft (CF)

KB to GR/CF: 8.00 ft

Serial #: 26450

Press@RunDepth: psig @ ft (KB)

Start Date: 2008.08.08

End Date:

2008.08.08

Start Time: 13:12:32

End Time:

17:20:42

Capacity: psig

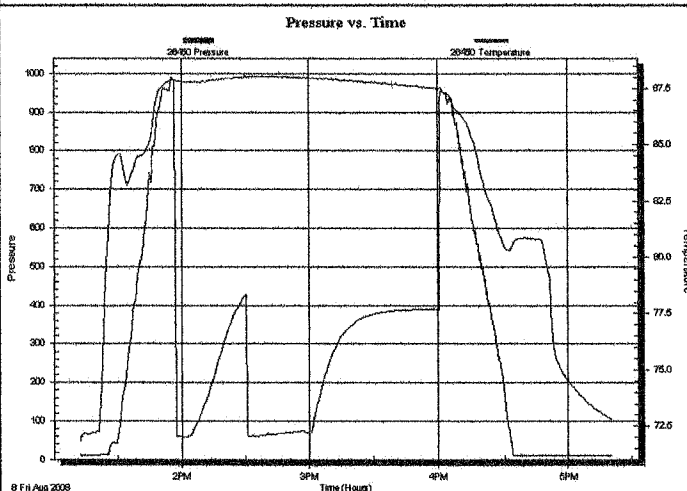
Last Calib.:

1899.12.30

Time On Btm:

Time Off Btm:

TEST COMMENT: INITIAL OPENING FAIR BLOW BOTTOM BUCKET IN 4 MINS
INITIAL SHUT IN GOOD BLOW BACK
FINAL OPENING GOOD BLOW BOTTOM BUCKET IN LESS 1 MIN
FINAL SHUT IN GOOD BLOW BACK



PRESSURE SUMMARY

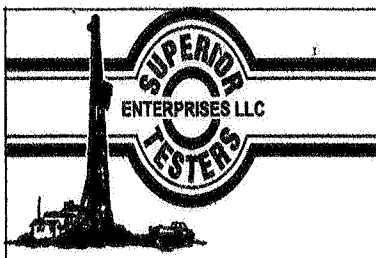
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation

Recovery

Length (ft)	Description	Volume (bbl)
50.00	MUD 100%MUD	0.73

Gas Rates

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



DRILL STEM TEST REPORT

TOOL DIAGRAM

F.G. HOLL COMPANY L.L.C

KASSELMAN 1-21

9431 E CENTRAL SUITE 100
WICHITA, KANSAS 67206

21-21-15 PAWNEE KS.

Job Ticket: 15473

DST#: 2

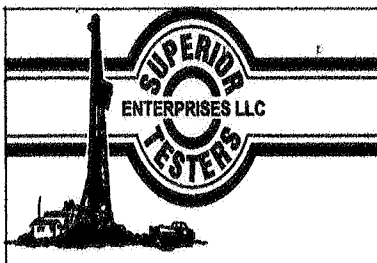
ATTN: RYAN GREENBAUM

Test Start: 2008.08.08 @ 13:12:09

Tool Information

Drill Pipe:	Length: 1894.00 ft	Diameter: 3.88 inches	Volume: 27.70 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
			Total Volume: 27.70 bbl	Tool Chased 0.00 ft
Drill Pipe Above KB:	4.00 ft			String Weight: Initial 36000.00 lb
Depth to Top Packer:	1920.00 ft			Final 36000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	49.90 ft			
Tool Length:	79.90 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			1891.00	
CHANGE OVER SUB	1.00			1892.00	
SHUT IN TOOL	5.00			1897.00	
HYDROLIC TOOL	5.00		Fluid	1902.00	
JARS	6.00			1908.00	
SAFETY JOINT	2.00			1910.00	
Packer	5.00			1915.00	30.00 Bottom Of Top Packer
Packer	5.00		Inside	1920.00	
STUBB	0.00			1920.00	
Anchor	12.00			1932.00	
CHANGE OFFER	0.75			1932.75	
DRILL PIPE	31.40			1964.15	
CHANGE OFFER	0.75			1964.90	
BULL PLUG	5.00			1969.90	49.90 Bottom Packers & Anchor
Total Tool Length:		79.90			



DRILL STEM TEST REPORT

FLUID SUMMARY

F.G. HOLL COMPANY L.L.C

KASSELMAN 1-21

9431 E CENTRAL SUITE 100
WICHITA, KANSAS 67206

21-21-15 PAWNEE KS.

Job Ticket: 15473

DST#: 2

ATTN: RYAN GREENBAUM

Test Start: 2008.08.08 @ 13:12:09

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: 9.17 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 49000.00 ppm

Filter Cake: 0.10 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
50.00	MUD 100%MUD	0.731

Total Length: 50.00 ft

Total Volume: 0.731 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

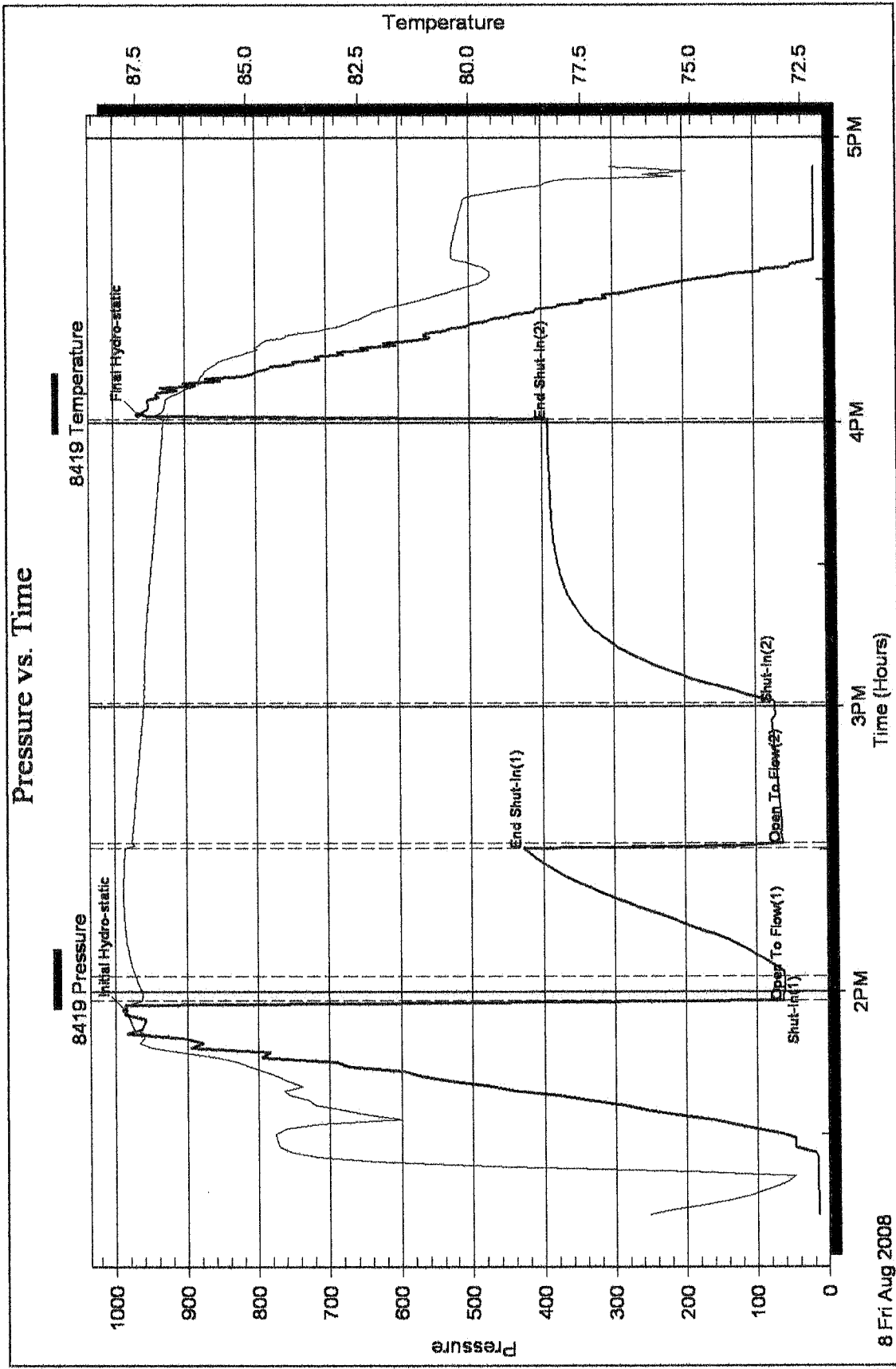
Recovery Comments:

Serial #: 8419

F.G. HOLL COMPANY L.L.C

21-21-15 PAWNEE KS.

DST Test Number: 2

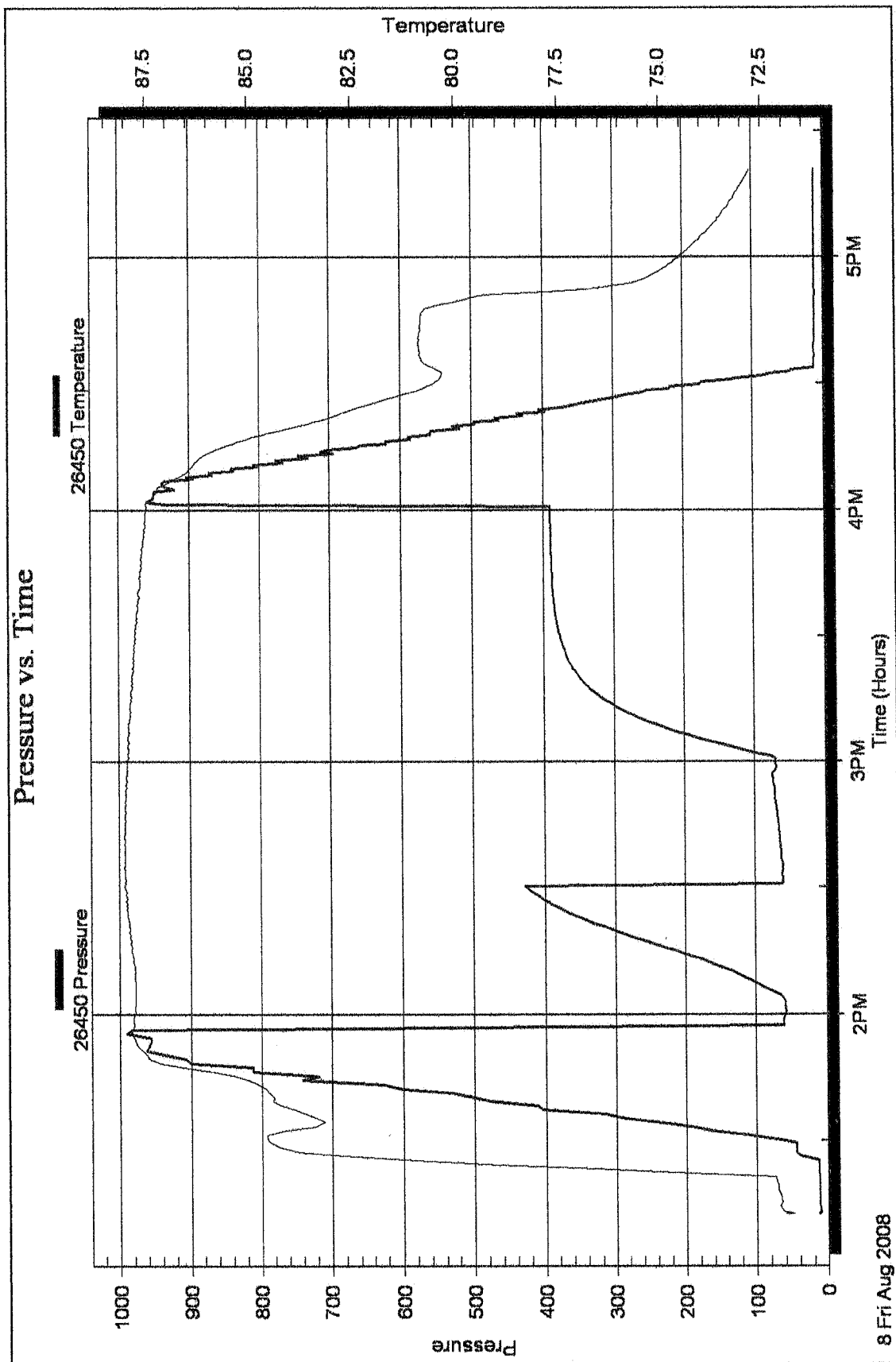


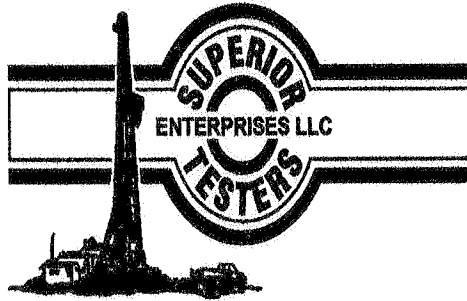
DST Test Number: 2

21-21-15 PAWNEE KS.

F.G. HOLL COMPANY L.L.C

Serial #: 26450





DRILL STEM TEST REPORT

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

9431 E CENTRAL SUITE 100
WICHITA, KANSAS 67206

ATTN: RYAN GREENBAUM

21-21-15 PAWNEE KS.

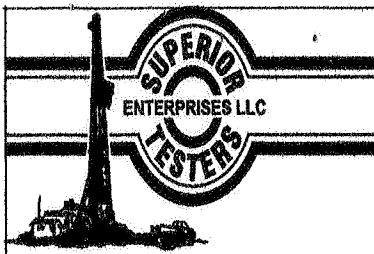
KASSELMAN 1-21

Start Date: 2008.08.11 @ 09:33:49

End Date: 2008.08.11 @ 16:49:49

Job Ticket #: 15474 DST #: 3

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



DRILL STEM TEST REPORT

F.G. HOLL COMPANY L.L.C

9431 E CENTRAL SUITE 100
WICHITA, KANSAS 67206

ATTN: RYAN GREENBAUM

KASSELMAN 1-21

21-21-15 PAWNEE KS.

Job Ticket: 15474

DST#: 3

Test Start: 2008.08.11 @ 09:33:49

GENERAL INFORMATION:

Formation: **LANSING A - E**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 11:25:19

Time Test Ended: 16:49:49

Test Type: Conventional Bottom Hole

Tester: DAVID NICHOLS

Unit No: 3345 41 GB

Interval: **3444.00 ft (KB) To 3512.00 ft (KB) (TVD)**

Total Depth: 3512.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 1959.00 ft (KB)

1951.00 ft (CF)

KB to GR/CF: 8.00 ft

Serial #: 8419

Press@RunDepth: 99.23 psig @ ft (KB)

Start Date: 2008.08.11

End Date:

2008.08.11

Start Time: 09:34:49

End Time:

16:49:49

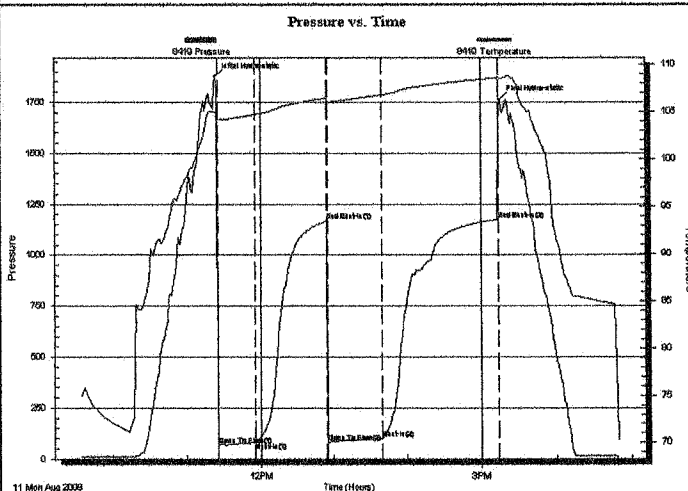
Capacity: 5000.00 psig

Last Calib.: 1899.12.30

Time On Btm: 2008.08.11 @ 11:23:19

Time Off Btm: 2008.08.11 @ 15:14:19

TEST COMMENT: 30-INITIAL OPENING BOTTOM BUCKET IN 20 MINS
60-INITIAL SHUT IN WEAK BLOW BACK
45-FINAL OPENING BOTTOM BUCKET IN 13 MINS
90-FINAL SHUT IN WEAK BLOW BACK



PRESSURE SUMMARY

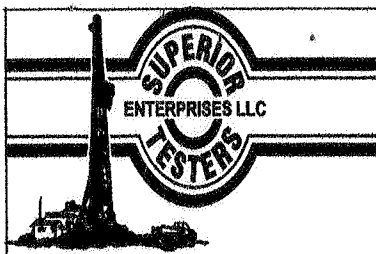
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1876.63	105.03	Initial Hydro-static
2	68.87	104.25	Open To Flow (1)
32	81.42	104.73	Shut-In(1)
91	1167.66	106.47	End Shut-In(1)
92	83.17	106.07	Open To Flow (2)
136	99.23	106.80	Shut-In(2)
230	1173.90	108.58	End Shut-In(2)
231	1761.65	108.56	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
80.00	OIL CUT MUD 70 %MUD 30 %OIL	1.17
490.00	GAS IN PIPE	7.17

Gas Rates

Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
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DRILL STEM TEST REPORT

TOOL DIAGRAM

F.G. HOLL COMPANY L.L.C

KASSELMAN 1-21

9431 E CENTRAL SUITE 100
WICHITA, KANSAS 67206

21-21-15 PAWNEE KS.

Job Ticket: 15474

DST#: 3

ATTN: RYAN GREENBAUM

Test Start: 2008.08.11 @ 09:33:49

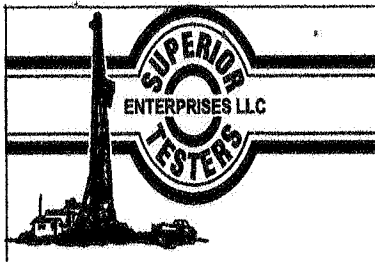
Tool Information

Drill Pipe:	Length: 3418.00 ft	Diameter: 3.88 inches	Volume: 49.99 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: 53000.00 lb
			Total Volume: 49.99 bbl	Tool Chased 0.00 ft
Drill Pipe Above KB:	4.00 ft			String Weight: Initial 52000.00 lb
Depth to Top Packer:	3444.00 ft			Final 52000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	67.90 ft			
Tool Length:	97.90 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			3415.00	
CHANGE OVER SUB	1.00			3416.00	
SHUT IN TOOL	5.00			3421.00	
HYDROLIC TOOL	5.00		Fluid	3426.00	
JARS	6.00			3432.00	
SAFETY JOINT	2.00			3434.00	
Packer	5.00			3439.00	30.00 Bottom Of Top Packer
Packer	5.00		Inside	3444.00	
STUBB	0.00			3444.00	
Anchor	30.00			3474.00	
CHANGE OFFER	0.75			3474.75	
DRILL PIPE	31.40			3506.15	
CHANGE OFFER	0.75			3506.90	
BULL PLUG	5.00			3511.90	67.90 Bottom Packers & Anchor

Total Tool Length: 97.90



DRILL STEM TEST REPORT

FLUID SUMMARY

F.G. HOLL COMPANY L.L.C

KASSELMAN 1-21

9431 E CENTRAL SUITE 100
WICHITA, KANSAS 67206

21-21-15 PAWNEE KS.

Job Ticket: 15474

DST#: 3

ATTN: RYAN GREENBAUM

Test Start: 2008.08.11 @ 09:33:49

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: 8.78 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 6300.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
80.00	OIL CUT MUD 70 %MUD 30 %OIL	1.170
490.00	GAS IN PIPE	7.166

Total Length: 570.00 ft

Total Volume: 8.336 bbl

Num Fluid Samples: 0

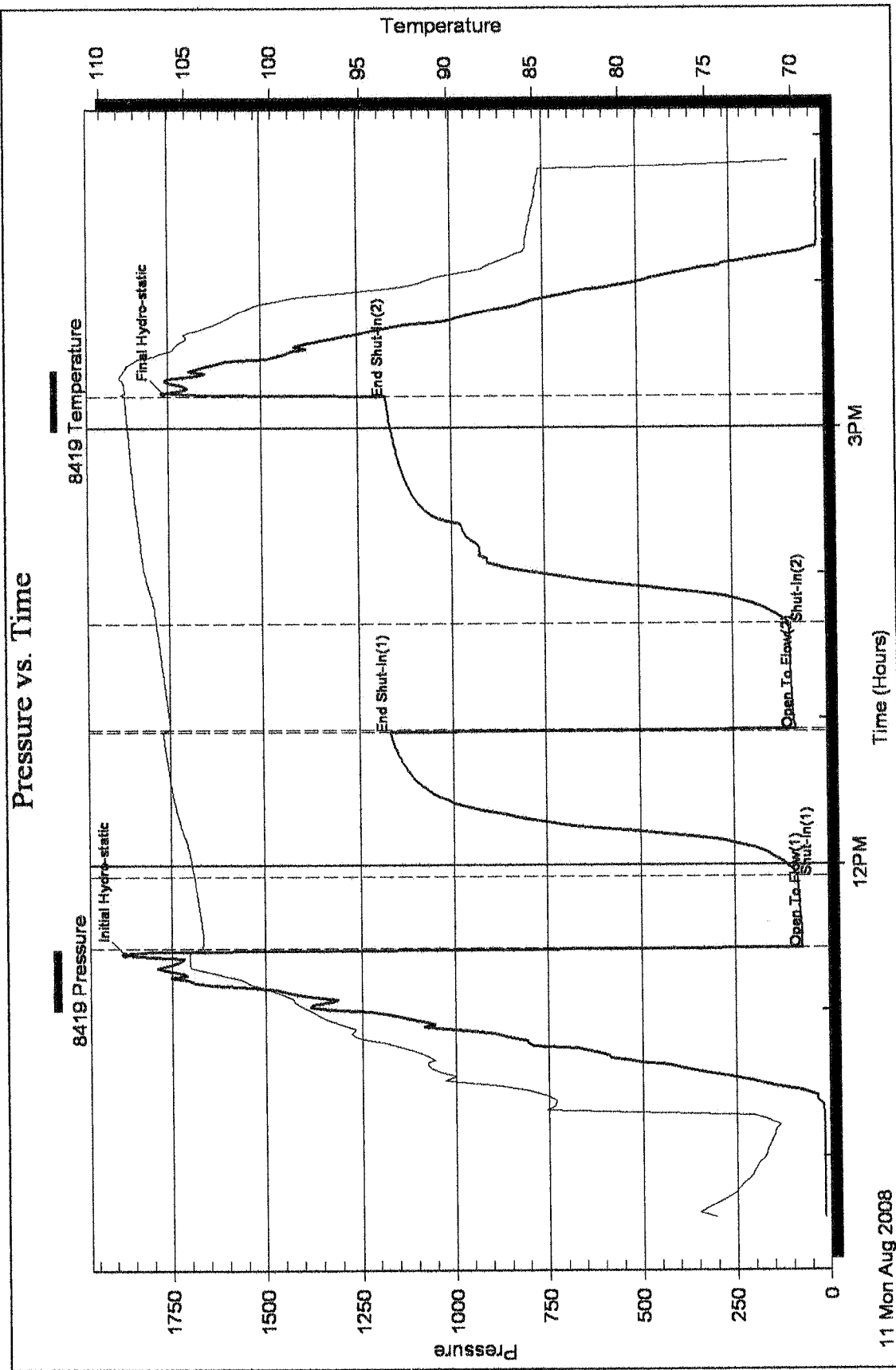
Num Gas Bombs: 0

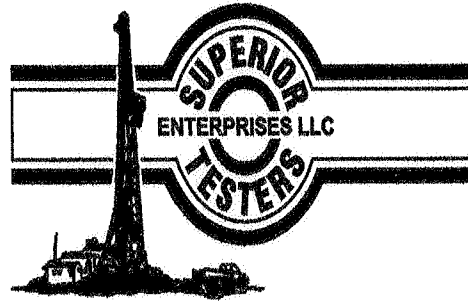
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:





DRILL STEM TEST REPORT

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

9431 E CENTRAL SUITE 100
WICHITA, KANSAS 67206

ATTN: RYAN GREENBAUM

21-21-15 PAWNEE KS.

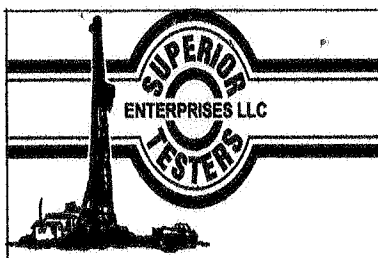
KASSELMAN 1-21

Start Date: 2008.08.12 @ 02:34:54

End Date: 2008.08.12 @ 09:17:24

Job Ticket #: 15475 DST #: 4

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



DRILL STEM TEST REPORT

F.G. HOLL COMPANY L.L.C

9431 E CENTRAL SUITE 100
WICHITA, KANSAS 67206

ATTN: RYAN GREENBAUM

KASSELMAN 1-21

21-21-15 PAWNEE KS.

Job Ticket: 15475

DST#: 4

Test Start: 2008.08.12 @ 02:34:54

GENERAL INFORMATION:

Formation: **LANSING H-I**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 04:09:54

Time Test Ended: 09:17:24

Test Type: Conventional Bottom Hole

Tester: DAVID NICHOLS

Unit No: 3345 41 GB

Interval: **3560.00 ft (KB) To 3605.00 ft (KB) (TVD)**

Total Depth: 3605.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 1959.00 ft (KB)

1951.00 ft (CF)

KB to GR/CF: 8.00 ft

Serial #: 8419

Press@RunDepth: 377.69 psig @ ft (KB)

Start Date: 2008.08.12

End Date:

2008.08.12

Start Time: 02:42:54

End Time:

09:24:24

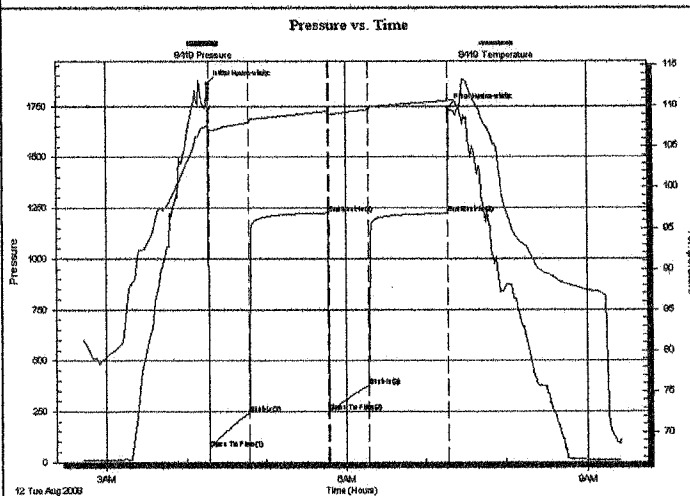
Capacity: 5000.00 psig

Last Calib.: 1899.12.30

Time On Btm: 2008.08.12 @ 04:15:54

Time Off Btm: 2008.08.12 @ 07:17:54

TEST COMMENT: 30- INITIAL OPENING FAIR BLOW BOTTOM OF THE BUCKET IN 5 MINS
60- INITIAL SHUT IN NO BLOW BACK
30- FINAL OPENING FAIR BLOW BOTTOM OF THE BUCKET IN 10 MINS
60- FINAL SHUT IN NO BLOW BACK



PRESSURE SUMMARY

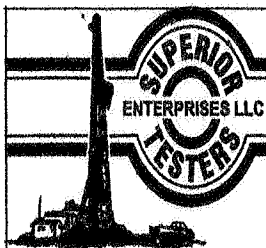
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1860.49	107.57	Initial Hydro-static
1	70.84	106.88	Open To Flow (1)
31	243.16	108.01	Shut-In (1)
91	1225.19	109.34	End Shut-In (1)
91	250.45	108.77	Open To Flow (2)
121	377.69	109.53	Shut-In (2)
182	1222.94	110.65	End Shut-In (2)
182	1742.79	110.82	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
120.00	MUDDY WATER 50%MUD 50%WATER	1.75
540.00	WATER 100%WATER	7.90

Gas Rates

	Choke (Inches)	Pressure (psig)	Gas Rate (Mcf/d)
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DRILL STEM TEST REPORT

F.G. HOLL COMPANY L.L.C

9431 E CENTRAL SUITE 100
WICHITA, KANSAS 67206

ATTN: RYAN GREENBAUM

KASSELMAN 1-21

21-21-15 PAWNEE KS.

Job Ticket: 15475

DST#: 4

Test Start: 2008.08.12 @ 02:34:54

GENERAL INFORMATION:

Formation: **LANSING H-I**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 04:09:54

Time Test Ended: 09:17:24

Test Type: Conventional Bottom Hole

Tester: DAVID NICHOLS

Unit No: 3345 41 GB

Interval: **3560.00 ft (KB) To 3605.00 ft (KB) (TVD)**

Total Depth: 3605.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 1959.00 ft (KB)

1951.00 ft (CF)

KB to GR/CF: 8.00 ft

Serial #: 26450

Press@RunDepth: 1221.60 psig @ ft (KB)

Start Date: 2008.08.12

End Date:

2008.08.12

Start Time: 02:42:08

End Time:

09:30:18

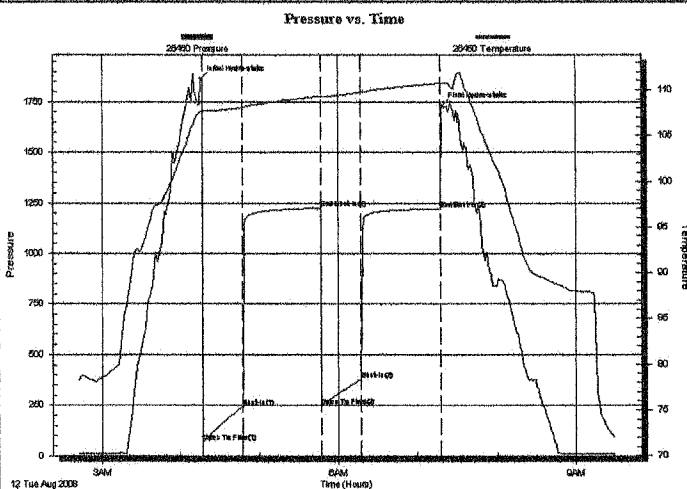
Capacity: 5000.00 psig

Last Calib.: 1899.12.30

Time On Btm: 2008.08.12 @ 04:15:49

Time Off Btm: 2008.08.12 @ 07:19:19

TEST COMMENT: 30- INITIAL OPENING FAIR BLOW BOTTOM OF THE BUCKET IN 5 MINS
60- INITIAL SHUT IN NO BLOW BACK
30- FINAL OPENING FAIR BLOW BOTTOM OF THE BUCKET IN 10 MINS
60- FINAL SHUT IN NO BLOW BACK



PRESSURE SUMMARY

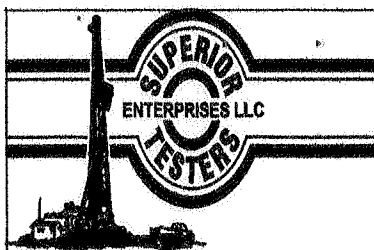
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1861.42	107.56	Initial Hydro-static
2	70.32	107.53	Open To Flow (1)
32	242.75	108.06	Shut-In(1)
91	1224.00	109.29	End Shut-In(1)
92	248.48	109.22	Open To Flow (2)
122	377.31	109.72	Shut-In(2)
182	1221.60	110.73	End Shut-In(2)
184	1731.32	110.75	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
120.00	MUDDY WATER 50%MUD 50%WATER	1.75
540.00	WATER 100%WATER	7.90

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
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DRILL STEM TEST REPORT

TOOL DIAGRAM

F.G. HOLL COMPANY L.L.C

KASSELMAN 1-21

9431 E CENTRAL SUITE 100
WICHITA, KANSAS 67206

21-21-15 PAWNEE KS.

Job Ticket: 15475

DST#: 4

ATTN: RYAN GREENBAUM

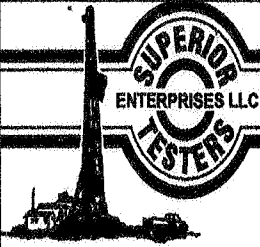
Test Start: 2008.08.12 @ 02:34:54

Tool Information

Drill Pipe:	Length: 3534.00 ft	Diameter: 3.88 inches	Volume: 51.68 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:	55000.00 lb		
			Total Volume:	51.68 bbl	Tool Chased	0.00 ft	
Drill Pipe Above KB:	4.00 ft			String Weight: Initial	52000.00 lb	Final	55000.00 lb
Depth to Top Packer:	3560.00 ft						
Depth to Bottom Packer:	ft						
Interval between Packers:	45.00 ft						
Tool Length:	75.00 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			3531.00	
CHANGE OVER SUB	1.00			3532.00	
SHUT IN TOOL	5.00			3537.00	
HYDROLIC TOOL	5.00		Fluid	3542.00	
JARS	6.00			3548.00	
SAFETY JOINT	2.00			3550.00	
Packer	5.00			3555.00	30.00 Bottom Of Top Packer
Packer	5.00		Inside	3560.00	
STUBB	0.00			3560.00	
Anchor	40.00			3600.00	
Bullnose	5.00			3605.00	45.00 Bottom Packers & Anchor

Total Tool Length: 75.00

	DRILL STEM TEST REPORT		FLUID SUMMARY
	F.G. HOLL COMPANY L.L.C 9431 E CENTRAL SUITE 100 WICHITA, KANSAS 67206 ATTN: RYAN GREENBAUM		KASSELMAN 1-21 21-21-15 PAWNEE KS. Job Ticket: 15475 DST#: 4 Test Start: 2008.08.12 @ 02:34:54

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: 9.38 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 7300.00 ppm			
Filter Cake: 1.00 inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
120.00	MUDDY WATER 50%MUD 50%WATER	1.755
540.00	WATER 100%WATER	7.897

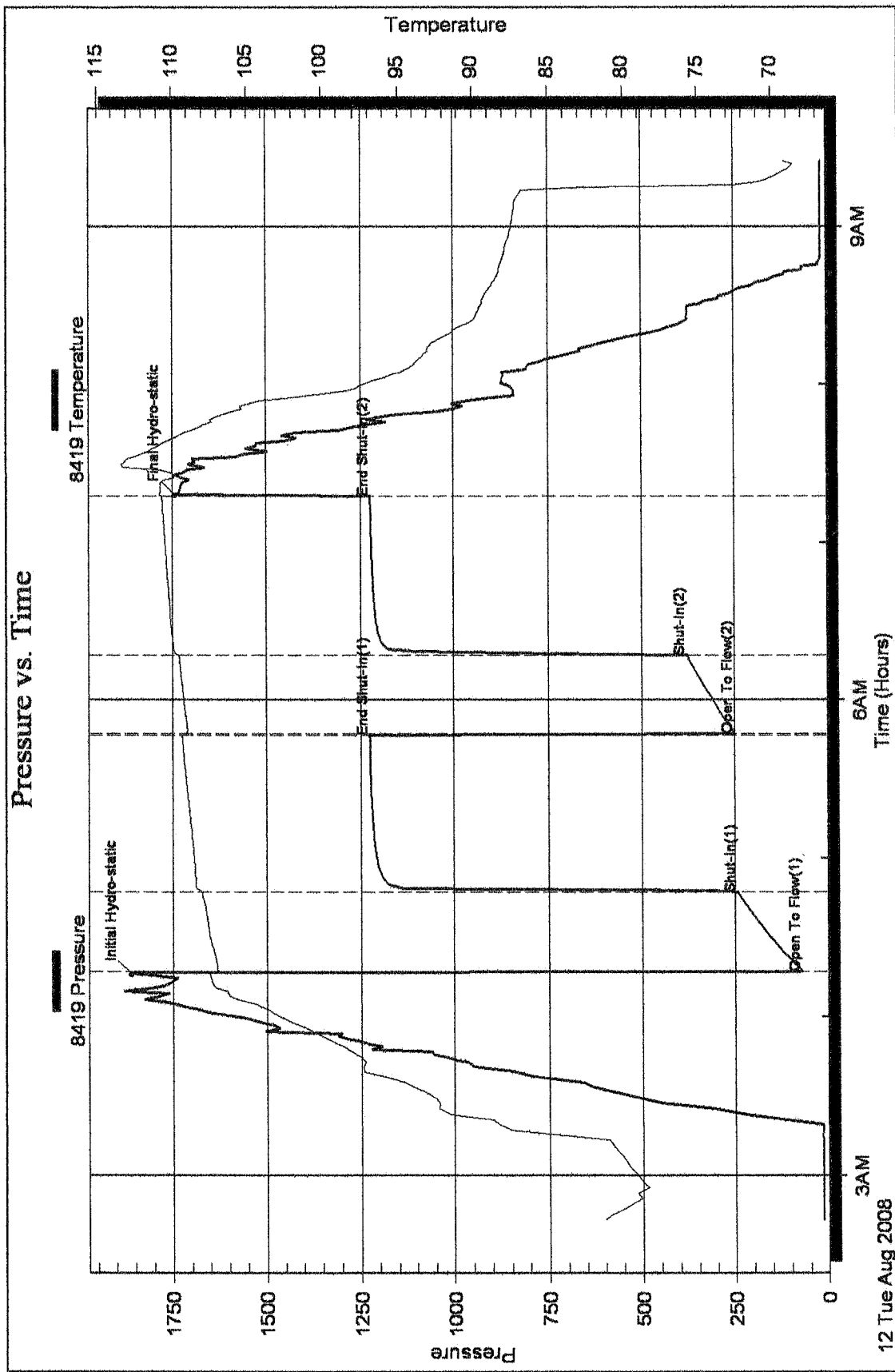
Total Length: 660.00 ft	Total Volume: 9.652 bbl	
Num Fluid Samples: 0	Num Gas Bombs: 0	Serial #:
Laboratory Name:	Laboratory Location:	
Recovery Comments:		

Serial #: 8419

F.G. HOLL COMPANY L.L.C

21-21-15 PAWNEE KS.

DST Test Number: 4

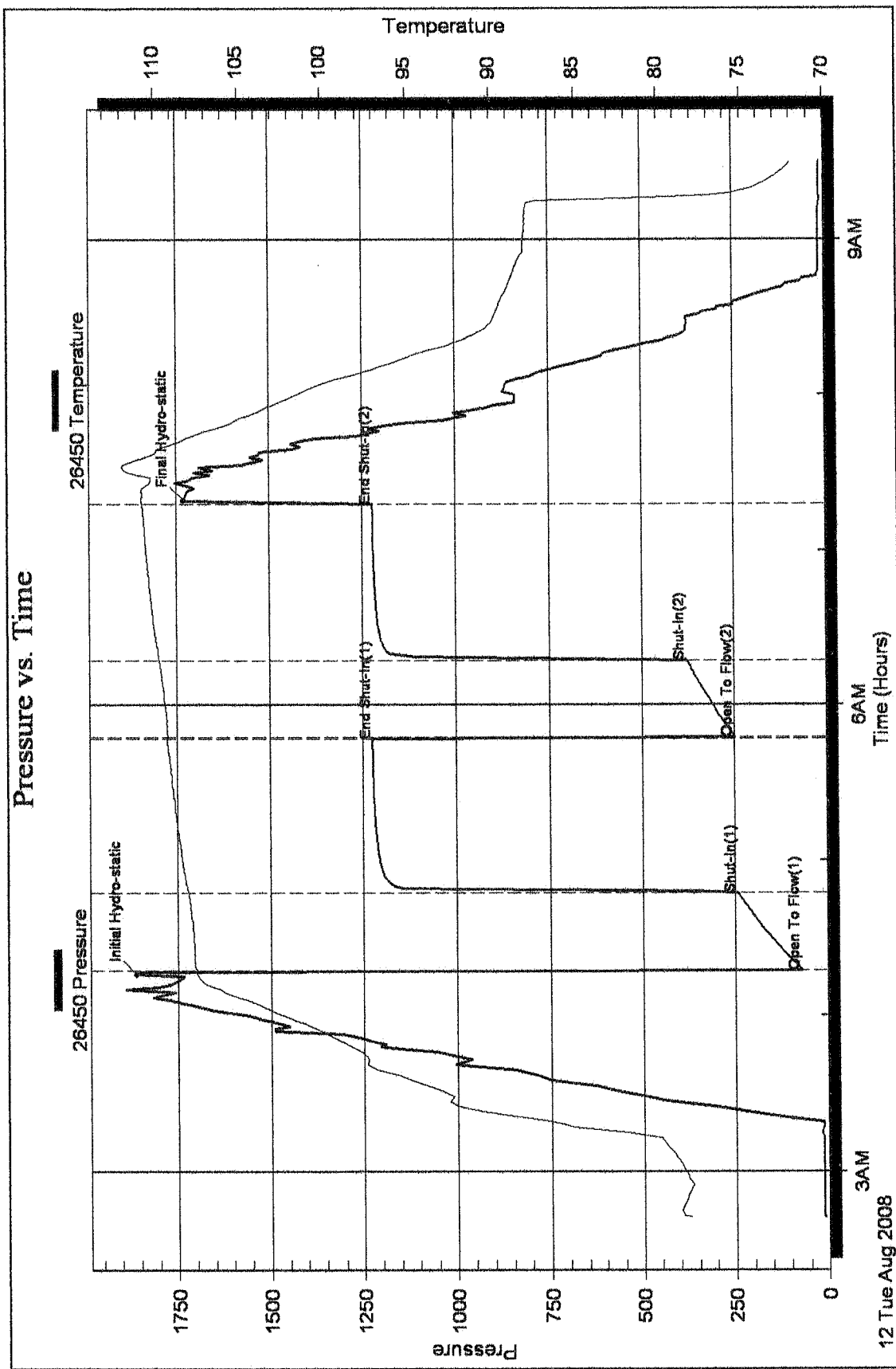


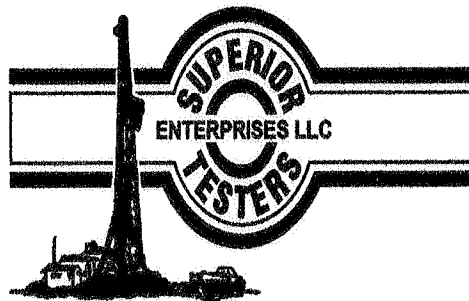
Serial #: 26450

F.G. HOLL COMPANY LLC

21-21-15 PAWNEEKS.

DST Test Number: 4





DRILL STEM TEST REPORT

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

9431 E CENTRAL SUITE 100
WICHITA, KANSAS 67206

ATTN: RYAN GREENBAUM

21-21-15 PAWNEE KS.

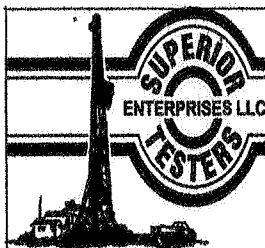
KASSELMAN 1-21

Start Date: 2008.08.13 @ 01:26:12

End Date: 2008.08.13 @ 05:59:12

Job Ticket #: 16826 DST #: 5

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



DRILL STEM TEST REPORT

F.G. HOLL COMPANY L.L.C

9431 E CENTRAL SUITE 100
WICHITA, KANSAS 67206

ATTN: RYAN GREENBAUM

KASSELMAN 1-21

21-21-15 PAWNEE KS.

Job Ticket: 16826

DST#: 5

Test Start: 2008.08.13 @ 01:26:12

GENERAL INFORMATION:

Formation: **CONGLOMERATE**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 02:47:42

Time Test Ended: 05:59:12

Test Type: Conventional Bottom Hole

Tester: DAVID NICHOLS

Unit No: 3345 41 GB

Interval: **3719.00 ft (KB) To 3798.00 ft (KB) (TVD)**

Total Depth: 3719.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 1959.00 ft (KB)

1951.00 ft (CF)

KB to GR/CF: 8.00 ft

Serial #: 26450

Press@RunDepth: 86.92 psig @ ft (KB)

Start Date: 2008.08.13

End Date:

2008.08.13

Start Time: 01:26:44

End Time:

06:03:53

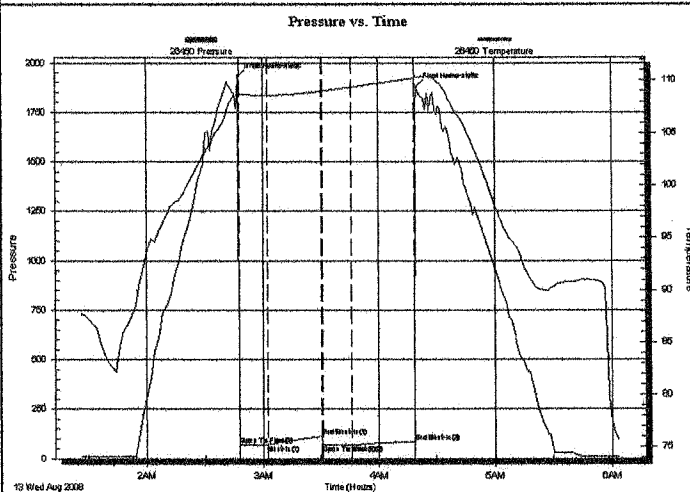
Capacity: 5000.00 psig

Last Calib.: 1899.12.30

Time On Btm: 2008.08.13 @ 02:47:23

Time Off Btm: 2008.08.13 @ 04:19:54

TEST COMMENT: 15-INITIAL OPENING SURFACE BLOW
30-INITIAL SHUT IN NO BLOW BACK
15-FINAL OPENING NO BLOW
30-FINAL SHUT IN NO BLOW BACK



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1932.53	108.65	Initial Hydro-static
1	69.20	108.57	Open To Flow (1)
16	72.03	108.58	Shut-In(1)
44	113.19	109.01	End Shut-In(1)
44	72.59	109.00	Open To Flow (2)
59	72.86	109.37	Shut-In(2)
92	86.92	110.21	End Shut-In(2)
93	1876.06	110.36	Final Hydro-static

Recovery

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

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
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DRILL STEM TEST REPORT

TOOL DIAGRAM

F.G. HOLL COMPANY L.L.C

KASSELMAN 1-21

9431 E CENTRAL SUITE 100
WICHITA, KANSAS 67206

21-21-15 PAWNEE KS.

Job Ticket: 16826

DST#: 5

ATTN: RYAN GREENBAUM

Test Start: 2008.08.13 @ 01:26:12

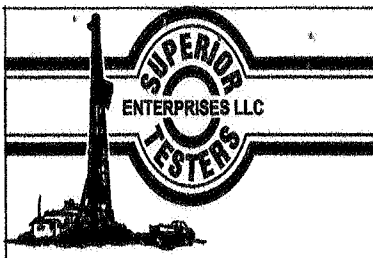
Tool Information

Drill Pipe:	Length: 3693.00 ft	Diameter: 3.88 inches	Volume: 54.01 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
		Total Volume:	54.01 bbl	Tool Chased 0.00 ft
Drill Pipe Above KB:	4.00 ft			String Weight: Initial 55000.00 lb
Depth to Top Packer:	3719.00 ft			Final 55000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	79.90 ft			
Tool Length:	109.90 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			3690.00	
CHANGE OVER SUB	1.00			3691.00	
SHUT IN TOOL	5.00			3696.00	
HYDROLIC TOOL	5.00		Fluid	3701.00	
JARS	6.00			3707.00	
SAFETY JOINT	2.00			3709.00	
Packer	5.00			3714.00	30.00 Bottom Of Top Packer
Packer	5.00		Inside	3719.00	
STUBB	0.00			3719.00	
Anchor	42.00			3761.00	
CHANGE OFFER	0.75			3761.75	
DRILL PIPE	31.40			3793.15	
CHANGE OFFER	0.75			3793.90	
BULL PLUG	5.00			3798.90	79.90 Bottom Packers & Anchor

Total Tool Length: 109.90



DRILL STEM TEST REPORT

FLUID SUMMARY

F.G. HOLL COMPANY L.L.C

KASSELMAN 1-21

9431 E CENTRAL SUITE 100
WICHITA, KANSAS 67206

21-21-15 PAWNEE KS.

Job Ticket: 16826

DST#: 5

ATTN: RYAN GREENBAUM

Test Start: 2008.08.13 @ 01:26:12

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 58.00 sec/qt

Water Loss: 9.59 in³

Resistivity: ohm.m

Salinity: 6700.00 ppm

Filter Cake: 1.00 inches

Cushion Type:

Cushion Length: ft

Cushion Volume: bbl

Gas Cushion Type:

Gas Cushion Pressure: psig

Oil API:

deg API

Water Salinity:

ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5.00	MUD 100%MUD	0.073

Total Length: 5.00 ft

Total Volume: 0.073 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

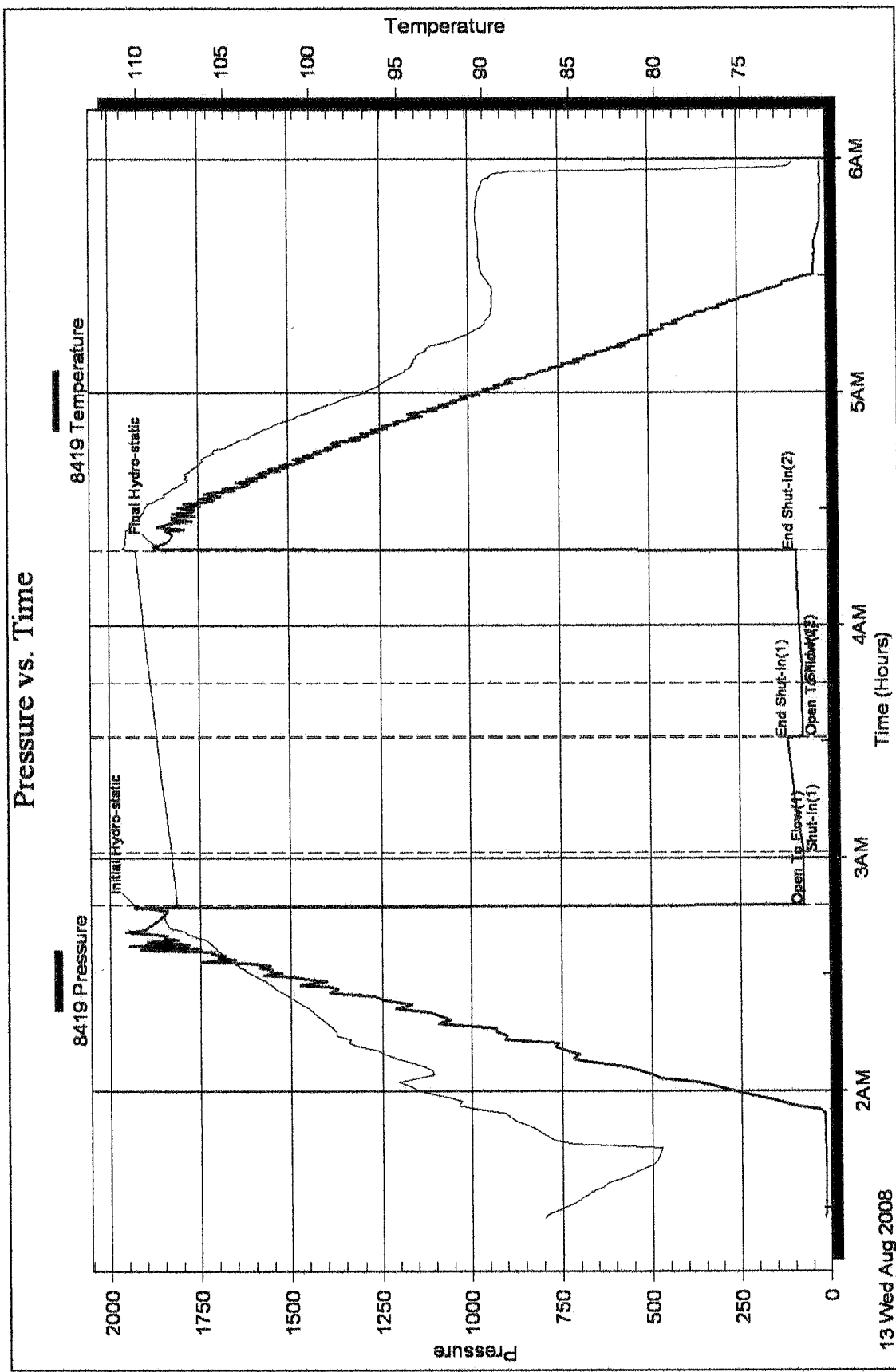
Recovery Comments:

Serial #: 8419

F.G. HOLL COMPANY LLC

21-21-15 PAWNEE KS.

DST Test Number: 5

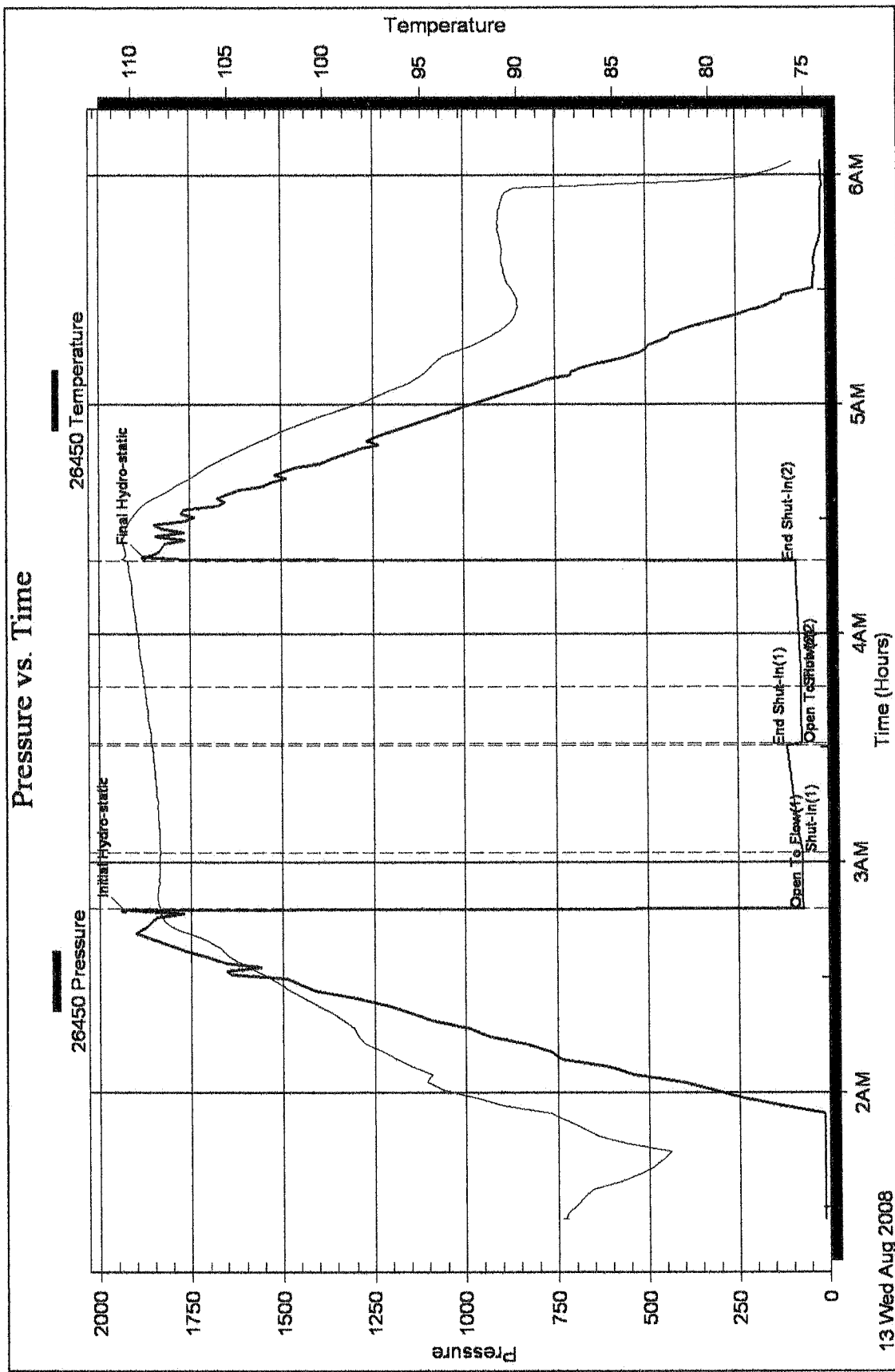


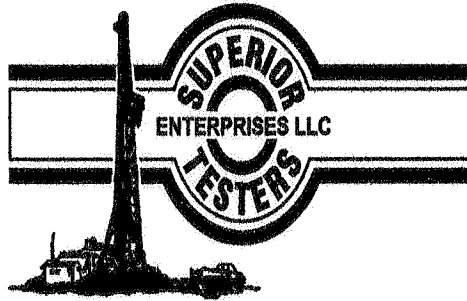
Serial #: 26450

F.G. HOLL COMPANY L.L.C

21-21-15 PAWNEE KS.

DST Test Number: 5





DRILL STEM TEST REPORT

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

9431 E CENTRAL SUITE 100
WICHITA, KANSAS 67206

ATTN: RYAN GREENBAUM

21-21-15 PAWNEE KS.

KASSELMAN 1-21

Start Date: 2008.08.13 @ 14:43:56

End Date: 2008.08.13 @ 20:24:56

Job Ticket #: 16827 DST #: 6

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

Printed: 2008.08.14 @ 08:59:41 Page 1

F.G. HOLL COMPANY L.L.C

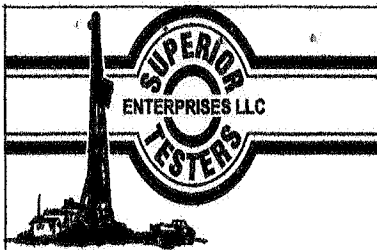
KASSELMAN 1-21

21-21-15 PAWNEE KS.

DST # 6

SIMPSON SAND ARBUCKL

2008.08.13



DRILL STEM TEST REPORT

F.G. HOLL COMPANY L.L.C

9431 E CENTRAL SUITE 100
WICHITA, KANSAS 67206

ATTN: RYAN GREENBAUM

KASSELMAN 1-21

21-21-15 PAWNEE KS.

Job Ticket: 16827

DST#: 6

Test Start: 2008.08.13 @ 14:43:56

GENERAL INFORMATION:

Formation: **SIMPSON SAND ARBUCKL**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 16:05:56

Time Test Ended: 20:24:56

Test Type: Conventional Bottom Hole

Tester: DAVID NICHOLS

Unit No: 3345 441 GB

Interval: **3798.00 ft (KB) To 3845.00 ft (KB) (TVD)**

Total Depth: 3845.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 1959.00 ft (KB)

1951.00 ft (CF)

KB to GR/CF: 8.00 ft

Serial #: 8419

Press@RunDepth: 317.37 psig @ ft (KB)

Start Date: 2008.08.13

End Date:

2008.08.13

Start Time: 14:44:56

End Time:

20:24:56

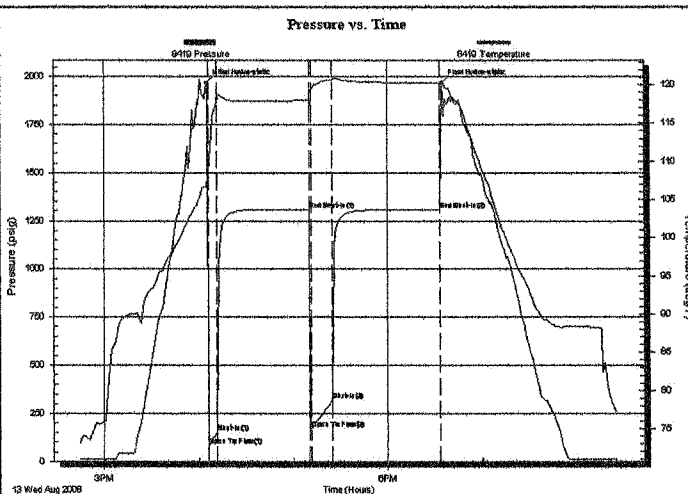
Capacity: 5000.00 psig

Last Calib.: 1899.12.30

Time On Btm: 2008.08.13 @ 16:04:26

Time Off Btm: 2008.08.13 @ 18:34:26

TEST COMMENT: 5- INITIAL OPENING FAIR BLOW BOTTOM OG THE BUCKET IN 4 MINS
60- INITIAL SHUT IN NO BLOW BACK
15- FINAL OPENING FAIR BLOW BOTTOM OF THE BUCKET IN 5 MINS
60- FINAL SHUT IN NO BLOW BACK



PRESSURE SUMMARY

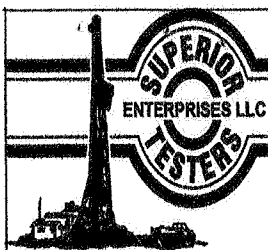
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1964.64	106.66	Initial Hydro-static
2	82.96	108.60	Open To Flow (1)
7	151.72	117.96	Shut-In(1)
66	1308.83	118.02	End Shut-In(1)
67	169.15	118.31	Open To Flow (2)
80	317.37	120.65	Shut-In(2)
149	1308.31	120.23	End Shut-In(2)
150	1963.15	120.50	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
30.00	MUD 100%MUD	0.44
60.00	WATER CUT MUD 80%MUD 20%WATER	0.88
420.00	MUDDY WATER 20%MUD 80 WATER	6.14
60.00	WATERY MUD80%MUD 20%WATER	0.88

Gas Rates

	Choke (Inches)	Pressure (psig)	Gas Rate (Mcf/d)
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DRILL STEM TEST REPORT

TOOL DIAGRAM

F.G. HOLL COMPANY L.L.C

KASSELMAN 1-21

9431 E CENTRAL SUITE 100
WICHITA, KANSAS 67206

21-21-15 PAWNEE KS.

Job Ticket: 16827

DST#: 6

ATTN: RYAN GREENBAUM

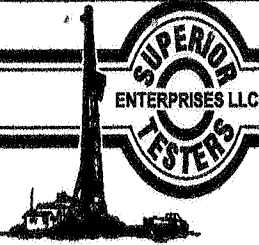
Test Start: 2008.08.13 @ 14:43:56

Tool Information

Drill Pipe:	Length: 3772.00 ft	Diameter: 3.88 inches	Volume: 55.16 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
		Total Volume:	55.16 bbl	Tool Chased	0.00 ft
Drill Pipe Above KB:	4.00 ft			String Weight: Initial	55000.00 lb
Depth to Top Packer:	3798.00 ft			Final	58000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	46.50 ft				
Tool Length:	76.50 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			3769.00	
CHANGE OVER SUB	1.00			3770.00	
SHUT IN TOOL	5.00			3775.00	
HYDROLIC TOOL	5.00		Fluid	3780.00	
JARS	6.00			3786.00	
SAFETY JOINT	2.00			3788.00	
Packer	5.00			3793.00	30.00 Bottom Of Top Packer
Packer	5.00		Inside	3798.00	
STUBB	0.00			3798.00	
Anchor	40.00			3838.00	
CHANGE OFFER	0.75			3838.75	
CHANGE OFFER	0.75			3839.50	
BULL PLUG	5.00			3844.50	46.50 Bottom Packers & Anchor

Total Tool Length: 76.50

	DRILL STEM TEST REPORT		FLUID SUMMARY
	F.G. HOLL COMPANY L.L.C 9431 E CENTRAL SUITE 100 WICHITA, KANSAS 67206 ATTN: RYAN GREENBAUM		KASSELMAN 1-21 21-21-15 PAWNEE KS. Job Ticket: 16827 DST#: 6 Test Start: 2008.08.13 @ 14:43:56

Mud and Cushion Information

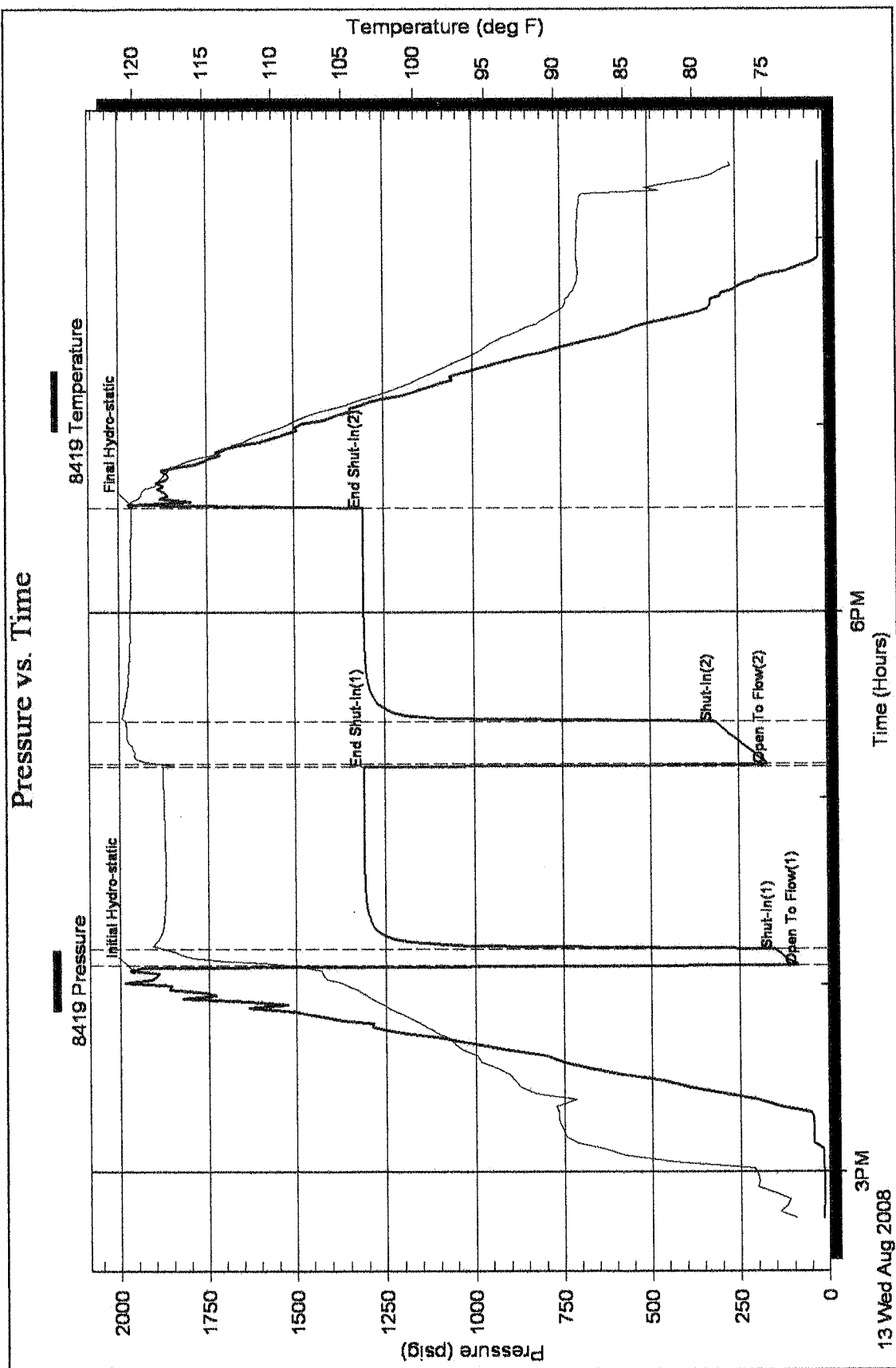
Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	ppm
Viscosity: 49.00 sec/qt	Cushion Volume: bbl		
Water Loss: 10.18 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 8700.00 ppm			
Filter Cake: 1.00 inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
30.00	MUD 100%MUD	0.439
60.00	WATER CUT MUD 80%MUD 20%WATER	0.877
420.00	MUDDY WATER 20%MUD 80 WATER	6.142
60.00	WATERY MUD80%MUD 20%WATER	0.877

Total Length: 570.00 ft	Total Volume: 8.335 bbl	
Num Fluid Samples: 0	Num Gas Bombs: 0	Serial #:
Laboratory Name:	Laboratory Location:	
Recovery Comments:		

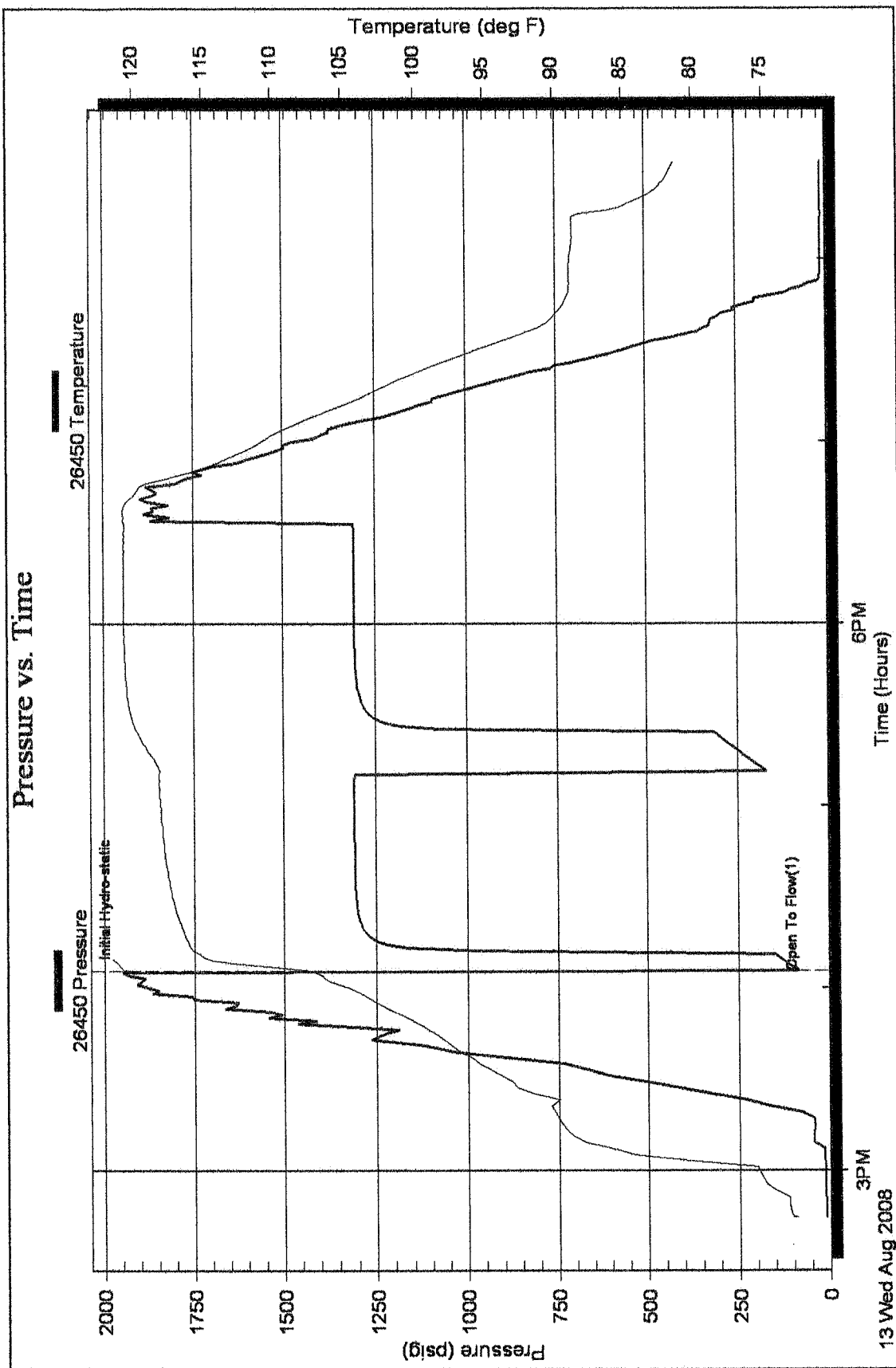


DST Test Number: 6

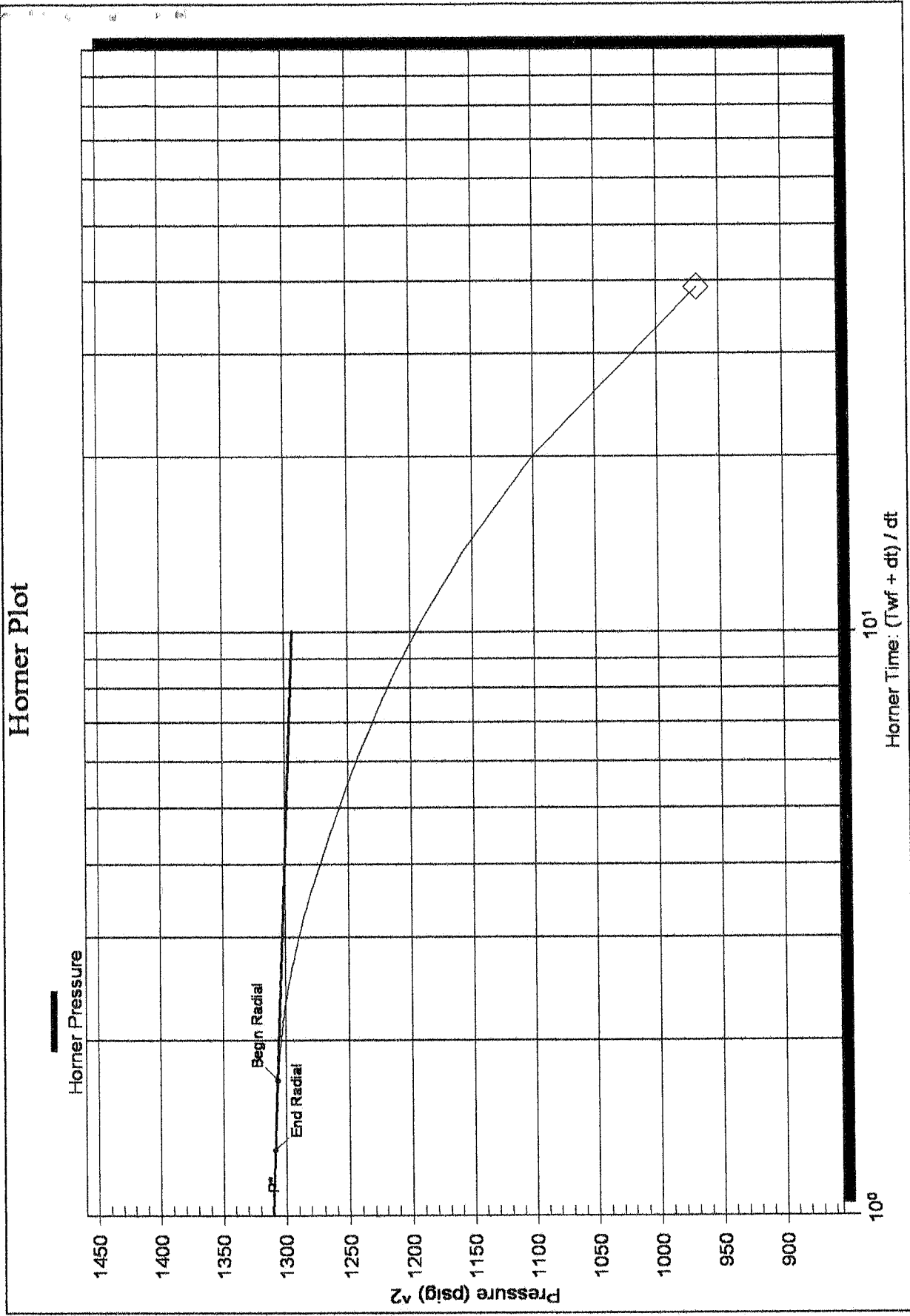
21-21-15 PAWNEE KS.

F.G. HOLL COMPANY L.L.C

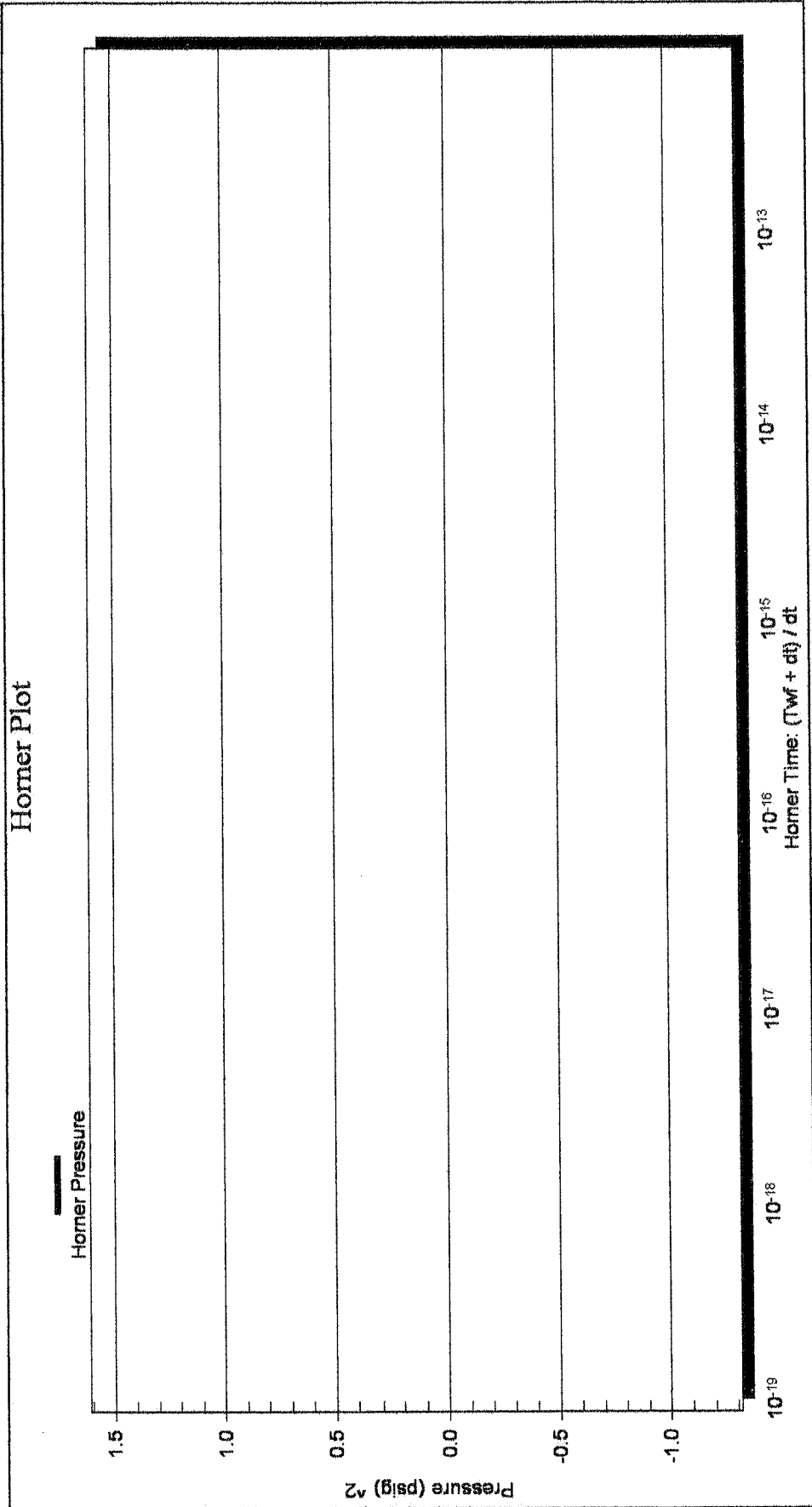
Serial #: 26450



Horner Plot



Homer Plot



Serial Number: 8419 ()

Flow Cycle: -2147483648

Analysis (Fluid)

Inputs

Average Fluid Viscosity:	1.2	Net Pay Thickness:	6.0	Initial Static Reservoir Pressure:	1310.24	Volume of Recovered Fluid:	8.34
Total System Compress:	1E-7	Formation Porosity:	0.1	Flowing Bottom Hole Pressure:	317.37	Total Flowing Time:	0.3167
Formation Volume Factor:	1.2	Water Saturation:		Wellbore Radius:	3.94		

Outputs

Homer Slope (m):	17.36	Effective Permeability:	57497.43
Radius of Investigation:		Apparent Skin Factor:	
Fluid Flow Rate:	631.71	kh:	105151.3