

F.G. HOLL COMPANY LLC. 12-20S-14W BARTON DST # 1 12-20S-14W BARTON DST # 1 12-20S-14W BARTON DST # 1 12-20S-14W BARTON DST # 1

Printed: 2008.11.06 @ 21:33:04

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

Start Date: 2008.11.03 @ 13:10:00
End Date: 2008.11.03 @ 17:41:30
Job Ticket #: 16162
DST #: 1

**12-20S-14W BARTON
INGALLS #1-12**

ATTN: RENE HUSTEAD

9431 E. CENTRAL
STE 100
WICHITA KS. 67206-2563

Prepared For: F.G. HOLL COMPANY LLC.

DRILL STEM TEST REPORT



12-20s-14w

15-009-25282

DRILL STEM TEST REPORT



F.G. HOLL COMPANY LLC.

INGALLS #1-12
12-20S-14W BARTON

Job Ticket: 16162 DST#: 1

Test Start: 2008.11.03 @ 13:10:00

9431 E CENTRAL
 STE 100
 WICHITA KS. 67206-2563
 ATTN: RENE HUSTEAD

GENERAL INFORMATION:

Formation: **LANISING "A-D"**
 Develted: No Whipstock
 Test Type: Conventional Bottom Hole (Initial)
 Tester: FRANK ZAMARRIPA
 Unit No: 3335 12 GB
 Reference Elevations: 1878.00 ft (KB) 1870.00 ft (CF) 8.00 ft
 Interval: 3223.00 ft (KB) To 3288.00 ft (KB) (TVD)
 Total Depth: 3288.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inchesHole Condition: Fair
 KB to GRCF: 8.00 ft

Serial #: 8405

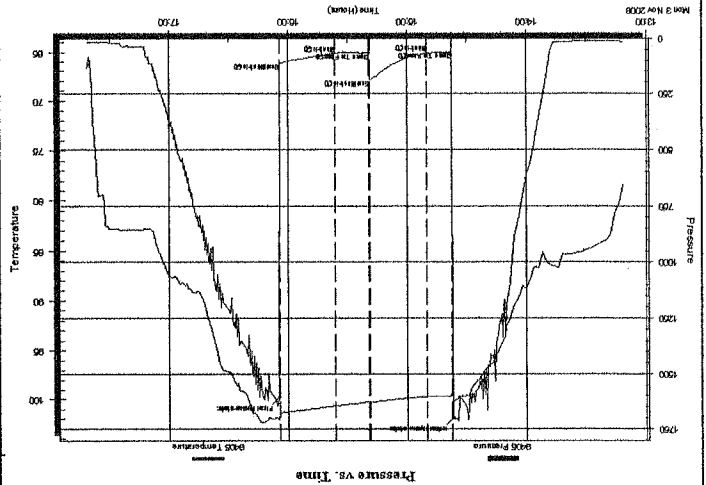
Press@RunDepth: 66.92 psig @ ft (KB)
 Start Date: 2008.11.03
 End Date: 2008.11.03
 Start Time: 13:12:00
 End Time: 17:41:30
 Last Calib.: 1899.12.30
 Capacity: 2000.00 psig
 Time On Btm: 2008.11.03 @ 14:37:00
 Time Off Btm: 2008.11.03 @ 16:04:30

TEST COMMENT: 15-INITIAL OPEN:WEAK SURFACE BLOW DIED OFF IN 10 MINUTES

30-INITIAL SHUT-IN: NO BLOW BACK
 15-FINAL OPEN:NO BLOW
 30-FINAL SHUT-IN:NO BLOW BACK

PRESSURE SUMMARY

Annotation	Temp (deg F)	Pressure (psig)	Time (Min.)
Initial Hydro-static	100.13	1698.10	0
Open To Flow (1)	99.03	60.23	1
Shut-in(1)	99.72	64.84	14
End Shut-in(1)	100.29	185.94	42
Open To Flow (2)	100.24	61.78	42
Shut-in(2)	100.64	66.92	59
End Shut-in(2)	101.36	110.79	87
Final Hydro-static	102.05	1605.09	88



Recovery

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

Gas Rates

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

TOOL DIAGRAM

DRILL STEM TEST REPORT



F.G. HOLL COMPANY LLC

INGALLS #1-12

9431 E CENTRAL

12-20S-14W BARTON

STE 100

DST#: 1

WICHITA KS, 67206-2563

Job Ticket: 16162

ATTN: RENE HUSTEAD

Test Start: 2008.11.03 @ 13:10:00

Tool Information

Drill Pipe:	Length: 3196.00 ft	Diameter: 3.80 inches	Volume: 44.83 bbl	Tool Weight: 20000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 ft	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 ft	Volume: 0.00 bbl	Weight to Pull Loose: 60000.00 lb
<u>Total Volume: 44.83 bbl</u>				
Drill Pipe Above KB:	2.00 ft			Tool Chased ft
Depth to Top Packer:	3223.00 ft			String Weight: Initial 48000.00 lb
Depth to Bottom Packer:	ft			Final 48000.00 lb
Interval between Packers:	64.75 ft			
Tool Length:	93.75 ft			
Number of Packers:	2	Diameter:	6.75 inches	
Tool Comments:				

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

Safety Joint	2.00		3196.00	
S.L. Tool	5.00		3201.00	
HYD S.L. Tool	5.00		3206.00	
Jars	5.00		3211.00	
Safety Joint	2.00		3213.00	
Packer	5.00		3218.00	Bottom Of Top Packer
Packer	5.00		3223.00	
Perforations	5.00		3228.00	
C.O. Sub	0.75		3228.75	
Drill Pipe	30.25		3259.00	
C.O. Sub	0.75		3259.75	
Perforations	23.00		3282.75	
Bullnose	5.00		3287.75	Bottom Packers & Anchor
Total Tool Length: 93.75				

FLUID SUMMARY

DRILL STEM TEST REPORT

INGALLS #1-12

12-20S-14W BARTON

Job Ticket: 16162 DST#:1

Test Start: 2008.11.03 @ 13:10:00

F.G. HOLL COMPANY LLC.

9431 E CENTRAL

WICHITA KS, 67206-2563

ATTN: RENEHUSTEAD



Mud and Cushion Information

Mud Type: Gel Chem
 Mud Weight: 9.00 lb/gal
 Viscosity: 62.00 sec/qt
 Water Loss: 7.97 in³
 Resistivity: ohm.m
 Salinity: 5400.00 ppm
 Filter Cake: 1.00 inches

Cushion Type:
 Cushion Length: ft
 Cushion Volume: bbl
 Oil API: deg API
 Water Salinity: ppm

Gas Cushion Type:
 Gas Cushion Pressure: psig

Recovery Information

Length ft	Description	Volume bbl
5.00	MUD 100%	0.070

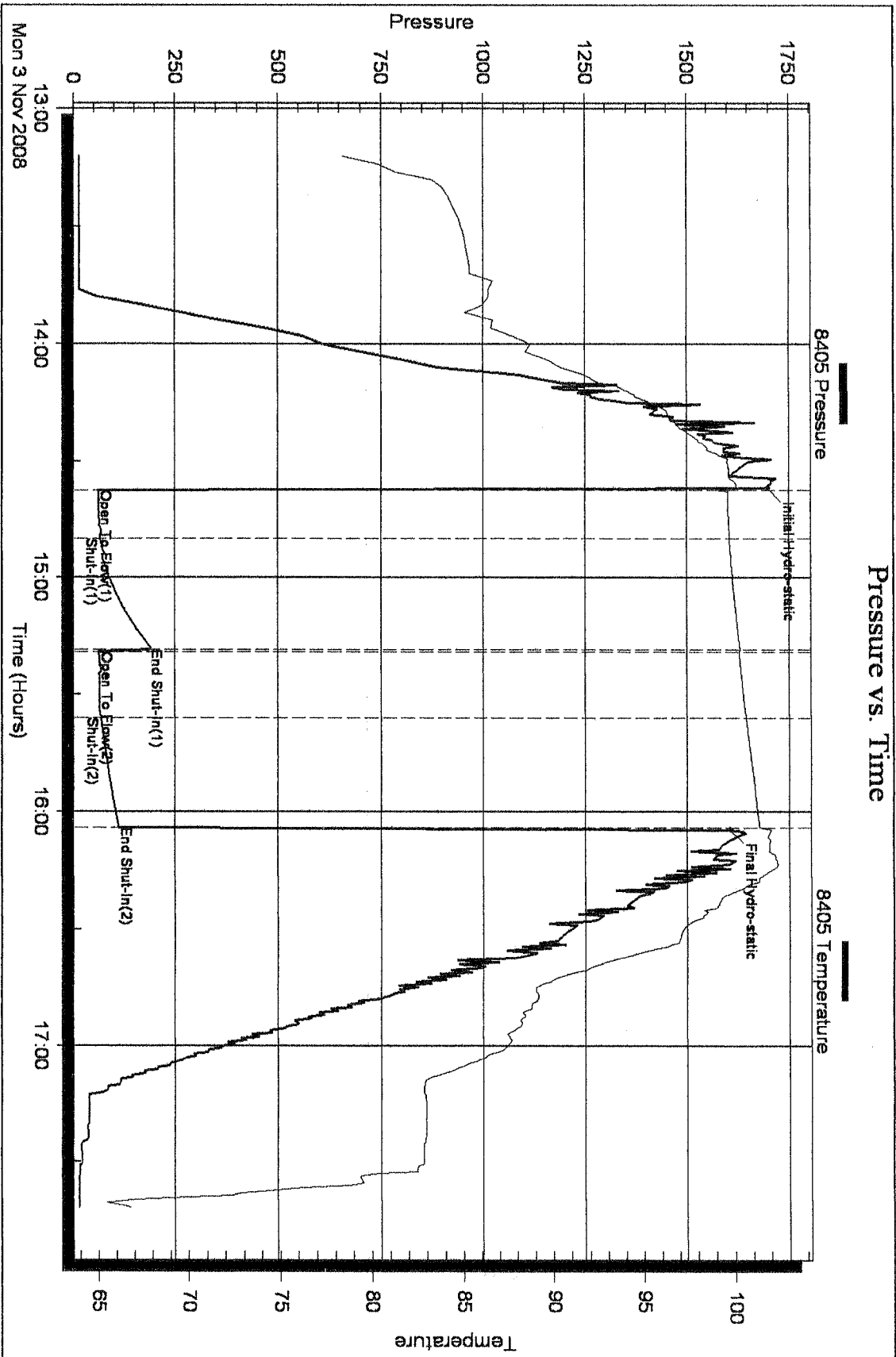
Total Length: 5.00 ft
 Total Volume: 0.070 bbl
 Num Fluid Samples: 0
 Laboratory Name:
 Recovery Comments:
 Num Gas Bombs: 0
 Laboratory Location:
 Serial #:

Serial #: 8405

F.G. HOLL COMPANY LLC

12-205-14W BARTON

DST Test Number: 1





DRILL STEM TEST REPORT

Prepared For: **F.G. HOLL COMPANY LLC.**

9431 E. CENTRAL
STE 100
WICHITA KS. 67206-2563

ATTN: RENE HUSTEAD

12-20S-14W BARTON

INGALLS #1-12

Start Date: 2008.11.04 @ 01:25:00

End Date: 2008.11.04 @ 08:42:00

Job Ticket #: 16163
DST #: 2

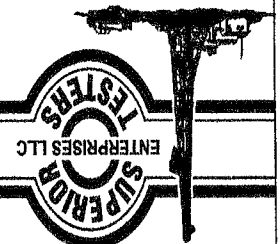
Superior Testers Enterprises LLC

PO Box 138 Great Bend KS 67530

1-800-792-6902

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DRILL STEM TEST REPORT



F.G. HOLL COMPANY LLC

INGALLS #1-12
12-20S-14W BARTON

9431 E CENTRAL
 STE 100
 WICHITA KS. 67206-2563
 ATTN: RENE HUSTEAD

Job Ticket: 16163
 DST#: 2
 Test Start: 2008.11.04 @ 01:25:00

GENERAL INFORMATION:

Formation: LANSING "E-F"
 Deviated: No Whipstock:
 Time Tool Opened: 03:06:30
 Time Test Ended: 08:42:00
 Interval: 3288.00 ft (KB) To 3318.00 ft (KB) (TVD)
 Total Depth: 3318.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inchesHole Condition: Fair
 Reference Elevations: 1878.00 ft (KB)
 1870.00 ft (CF)
 8.00 ft
 KB to GR/CF:
 Test Type: Conventional Bottom Hole (Initial)
 Tester: FRANK ZAMARRIPA
 Unit No: 3335 12 GB

Serial #: 8405

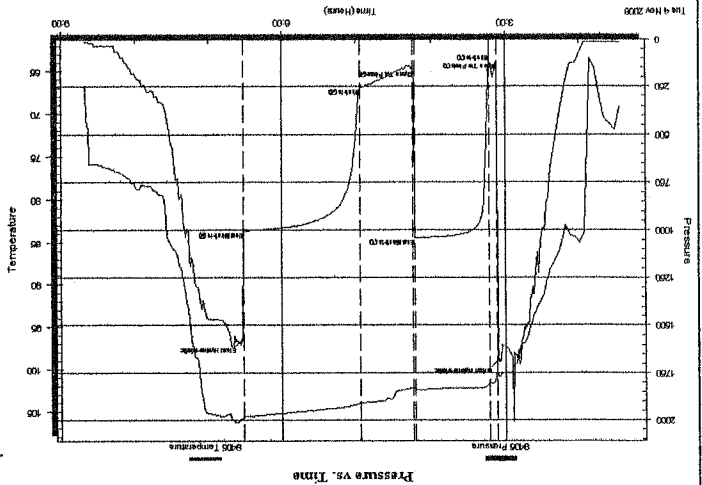
Press@RunDepth: 258.16 psig @
 End Date: 2008.11.04
 End Time: 01:27:00
 Start Date: 2008.11.04 @ 03:05:30
 Start Time: 08:42:00
 Capacity: 2000.00 psig
 Last Callb.: 1899.12.30
 Time On Btm: 2008.11.04 @ 03:05:30
 Time Off Btm: 2008.11.04 @ 06:32:30

TEST COMMENT:

5-INITIAL OPEN:STRONG BLOW TO BOTTOM OF 5 GALLON BUCKET IN 2 MINUTES
 60-INITIAL SHUT-IN:WEAK BLOW BACK BUILT TO 3 INCHES
 45-FINAL OPEN:STRONG BLOW TO BOTTOM OF 5 GALLON BUCKET IN LESS THAN 1 MINUTE
 90-FINAL SHUT-IN:WEAK BLOW BACK BUILT TO 3 INCHES

PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1681.40	100.94	Initial Hydro-static
2	116.92	99.92	Open To Flow (1)
8	119.33	101.62	Shut-h(1)
68	1039.94	102.50	End Shut-h(1)
69	162.29	102.27	Open To Flow (2)
111	258.16	104.02	Shut-h(2)
206	1003.26	105.63	End Shut-h(2)
207	1569.94	105.82	Final Hydro-static

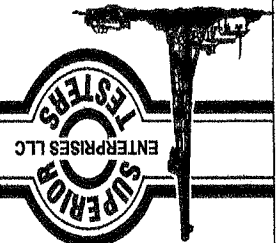


Recovery

Length (ft)	Description	Volume (bbl)
2520.00	GAS IN PIPE 100%	35.35
610.00	GASSY OIL 10% GAS 90% OIL	8.56

Gas Rates

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



F.G. HOLL COMPANY LLC
 9431 E CENTRAL
 STE 100
 WICHITA KS. 67206-2563
 ATTN: RENE HUSTEAD

INGALLS #1-12
12-20S-14W BARTON
 Job Ticket: 16163
 DST#: 2
 Test Start: 2008.11.04 @ 01:25:00

DRILL STEM TEST REPORT

TOOL DIAGRAM

Tool Information

Drill Pipe: Length: 3261.00 ft Diameter: 3.80 inches Volume: 45.74 bbl Tool Weight: 20000.00 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
 Drill Pipe Above KB: 2.00 ft
 Depth to Top Packer: 3288.00 ft
 Depth to Bottom Packer: ft
 Interval between Packers: 30.00 ft
 Tool Length: 59.00 ft
 Number of Packers: 2 Diameter: 6.75 inches
 Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Safety Joint	2.00				3261.00
S.I. Tool	5.00				3266.00
HYD S.I. Tool	5.00				3271.00
Jars	5.00				3276.00
Safety Joint	2.00				3278.00
Packer	5.00				3283.00
Bottom Of Top Packer				29.00	
Packer	5.00				3288.00
Perforations	25.00				3313.00
Bullnose	5.00				3318.00
Total Tool Length:	59.00				
Bottom Packers & Anchor				30.00	

FLUID SUMMARY

DRILL STEM TEST REPORT

INGALLS #1-12

12-20S-14W BARTON

Job Ticket: 16163 DST#: 2

Test Start: 2008.11.04 @ 01:25:00

F.G. HOLL COMPANY LLC.

9431 E CENTRAL

STE 100
WICHITA KS. 67206-2563

ATTN: RENEHUSTEAD



Mud and Cushion Information

Mud Type: Gel Chem
Mud Weight: 9.00 lb/gal
Viscosity: 52.00 sec/qt
Water Loss: 7.98 in³
Resistivity: ohm.m
Salinity: 5400.00 ppm
Filter Cake: 1.00 inches

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

Oil API: 33 deg API
Water Salinity: ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
2520.00	GAS IN PIPE 100%	35.349
610.00	GASSY OIL 10% GAS 90% OIL	8.557

Total Length: 3130.00 ft Total Volume: 43.906 bbl

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

Laboratory Name: Laboratory Location:

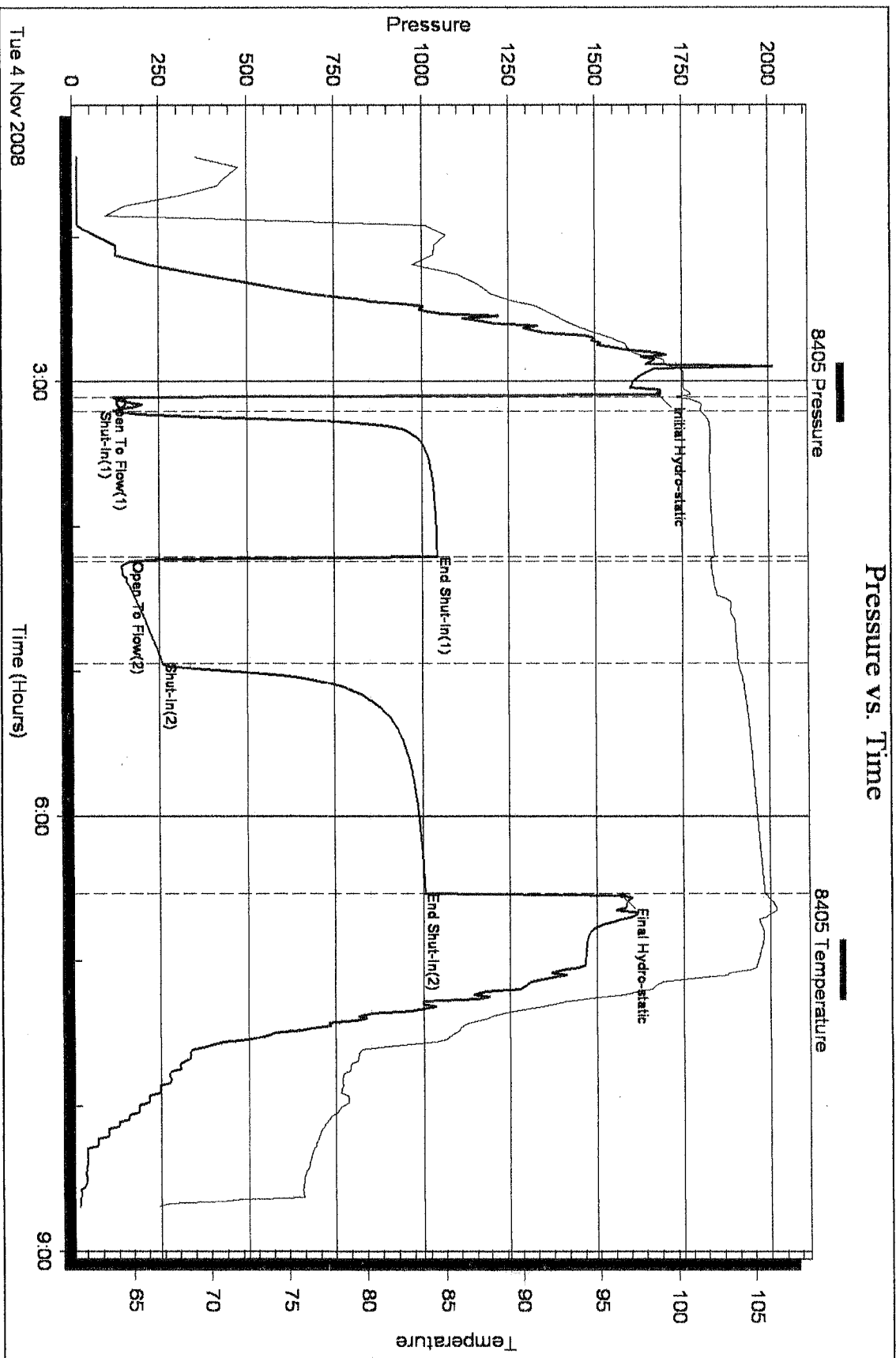
Recovery Comments:

Serial #: 8405

F.G. HOLL COMPANY LLC

12-205-14W BARTON

DST Test Number: 2





DRILL STEM TEST REPORT

Prepared For: **F.G. HOLL COMPANY LLC.**

9431 E. CENTRAL
STE 100
WICHITA KS. 67206-2563

ATTN: RENE HUSTEAD

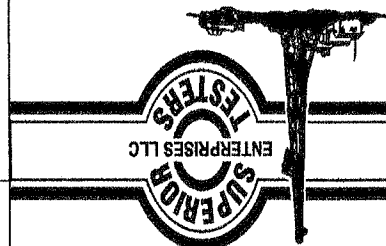
12-20S-14W BARTON

INGALLS #1-12

Start Date: 2008.11.04 @ 18:13:00
End Date: 2008.11.05 @ 01:12:30
Job Ticket #: 16164
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 LLC

9431 E CENTRAL

STE 100

WICHITA KS. 67206-2563

ATTN: RENEHUSTEAD

INGALLS #1-12

12-20S-14W BARTON

Job Ticket: 16164

Test Start: 2008.11.04 @ 18:13:00

GENERAL INFORMATION:

Formation: LANSING "H"
 Deviated: No
 Whipstock: No
 Test Type: Conventional Bottom Hole (Initial)
 Tester: FRANK ZAMARRIPA
 Unit No: 3335 12 GB
 Reference Elevations: 1878.00 ft (KB) to 1870.00 ft (CF)
 Hole Diameter: 7.88 inches
 Condition: Fair
 Interval: 3350.00 ft (KB) To 3374.00 ft (KB) (TVD)
 Total Depth: 3374.00 ft (KB) (TVD)
 Time Tool Opened: 19:52:30
 Time Test Ended: 01:12:30

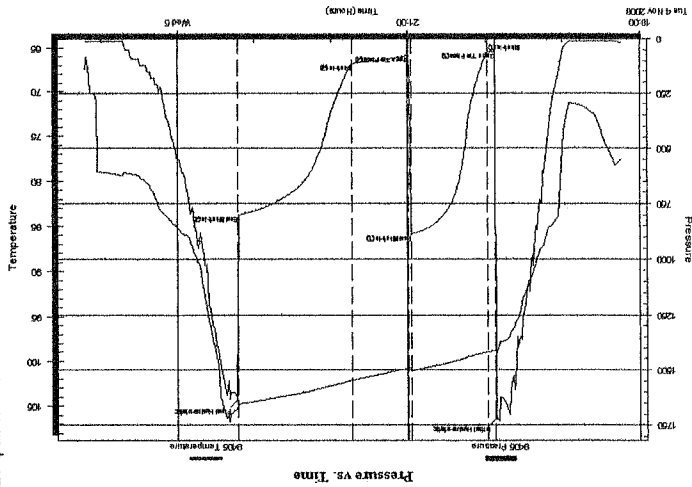
Serial #: 8405

Press@RunDepth: 113.38 psig @
 End Date: 2008.11.04
 End Time: 18:15:00
 Capacity: 2000.00 psig
 Last Calib.: 1899.12.30
 Time On Blm: 2008.11.04 @ 19:51:30
 Time Off Blm: 2008.11.04 @ 23:13:30

TEST COMMENT: 5-INITIAL OPEN:STRONG BLOW TO BOTTOM OF 5 GALLON BUCKET IN 3 MINUTES
 60-INITIAL SHUT-IN:WEAK BLOW BACK BUILT TO 3 INCHES
 45-FINAL OPEN:STRONG BLOW TO BOTTOM OF 5 GALLON BUCKET IN LESS THAN 1 MINUTE
 90-FINAL SHUT-IN:STRONG BLOW BACK BUILT TO BOTTOM OF 5 GALLON BUCKET

PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1717.44	99.06	Initial Hydro-static
1	59.71	98.77	Open To Flow (1)
7	57.08	98.96	Shut-in(1)
66	887.46	101.09	End Shut-in(1)
68	77.59	100.84	Open To Flow (2)
112	113.38	102.14	Shut-in(2)
202	801.28	104.77	End Shut-in(2)
202	1637.80	105.33	Final Hydro-static



Recovery

Length (ft)	Description	Volume (bbl)
2940.00	GAS IN PIPE 100%	41.24
60.00	GASSY OIL 10% GAS 90% OIL	0.84
60.00	GMCO 5% GAS 10% MUD 85% OIL	0.84
120.00	GMCO 20% GAS 20% MUD 60% OIL	1.68

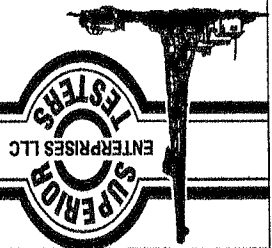
Gas Rates

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

Superior Testers Enterprises LLC

Ref. No: 16164

Printed: 2008.11.06 @ 21:34:01



DRILL STEM TEST REPORT

INGALLS #1-12
12-20S-14W BARTON
 Job Ticket: 16164
 DST#: 3
 Test Start: 2008.11.04 @ 18:13:00

F.G. HOLL COMPANY LLC
 9431 E. CENTRAL
 STE 100
 WICHITA KS. 67206-2563
 ATTN: RENE HUSTEAD

Tool Information	
Drill Pipe: Length: 3323.00 ft Diameter: 3.80 inches Volume: 46.61 bbl	Tool Weight: 20000.00 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: 46.61 bbl	
Tool Chased	
Drill Pipe Above KB: 2.00 ft	String Weight: Initial 48000.00 lb
Depth to Top Packer: 3350.00 ft	Final 51000.00 lb
Depth to Bottom Packer: ft	
Interval between Packers: 24.00 ft	
Tool Length: 53.00 ft	
Number of Packers: 2	
Diameter: 6.75 inches	
Tool Comments:	

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Safety Joint	2.00				3323.00
S.L. Tool	5.00				3328.00
HYD S.L. Tool	5.00				3333.00
Jars	5.00				3338.00
Safety Joint	2.00				3340.00
Packer	5.00				3345.00
Bottom Of Top Packer	29.00				3350.00
Packer	5.00				3350.00
Perforations	19.00				3369.00
Bullnose	5.00				3374.00
					Total Tool Length: 53.00
					Bottom Packers & Anchor 24.00

FLUID SUMMARY

DRILL STEM TEST REPORT



F.G. HOLL COMPANY LLC.

INGALLS #1-12

12-20S-14W BARTON

9431 E CENTRAL

WICHITA KS. 67206-2563

Job Ticket: 16164

DST#: 3

Test Start: 2008.11.04 @ 18:13:00

ATTN: RENE HUSTEAD

Mud and Cushion Information

Mud Type: Gel Chem
 Mud Weight: 9.00 lb/gal
 Viscosity: 45.00 sec/qt
 Water Loss: 8.78 in²
 Resistivity: ohm.m
 Salinity: 7700.00 ppm
 Filter Cake: 1.00 inches

Cushion Type: Oil API: 34 deg API
 Cushion Length: ft
 Cushion Volume: bbl
 Gas Cushion Type: psig
 Gas Cushion Pressure: psig

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
2940.00	GAS IN PIPE 100%	41.240
60.00	GASSY OIL 10% GAS 90% OIL	0.842
60.00	GMCO 5% GAS 10% MUD 85% OIL	0.842
120.00	GMCO 20% GAS 20% MUD 60% OIL	1.683

Total Length: 3180.00 ft Total Volume: 44.607 bbl

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

Laboratory Name:

Laboratory Location:

Recovery Comments:

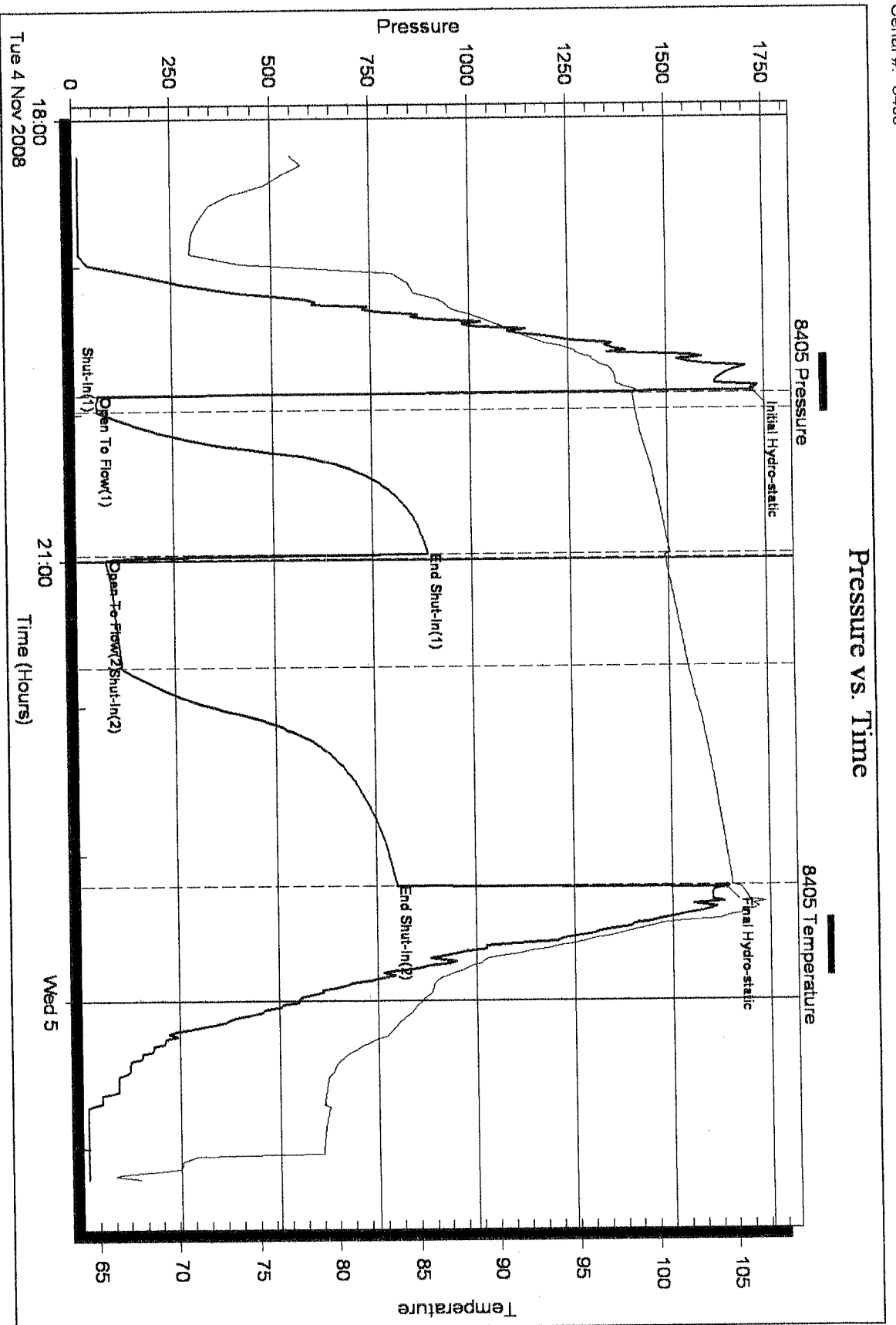
Serial #: 8405

F.G. HOLL COMPANY LLC

12-20S-14W BARTON

DST Test Number: 3

Pressure vs. Time





DRILL STEM TEST REPORT

Prepared For: **F.G. HOLL COMPANY LLC.**

9431 E. CENTRAL
STE 100
WICHITA KS. 67206-2563

ATTN: RENE HUSTEAD

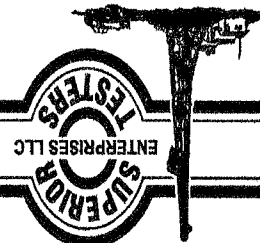
12-20S-14W BARTON

INGALLS #1-12

Start Date: 2008.11.05 @ 07:45:00
End Date: 2008.11.05 @ 11:55:00
Job Ticket #: 16165
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 LLC
 9431 E CENTRAL
 STE 100
 WICHITA KS. 67206-2563
 ATTN: RENE HUSTEAD

INGALLS #1-12
 12-20S-14W BARTON
 Job Ticket: 16165
 DST#: 4
 Test Start: 2008.11.05 @ 07:45:00

GENERAL INFORMATION:

Formation: LANSING "H"
 Deviated: No
 Whipstock: No
 Test Type: Conventional Bottom Hole (Initial)
 Tester: FRANK ZAWARRIPA
 Unit No: 3335 12 GB
 Reference Elevations: 1878.00 ft (KB) 1870.00 ft (CF) 8.00 ft
 Interval: 3374.00 ft (KB) To 3391.00 ft (KB) (TVD)
 Total Depth: 3391.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches
 Condition: Fair

Serial #: 8405

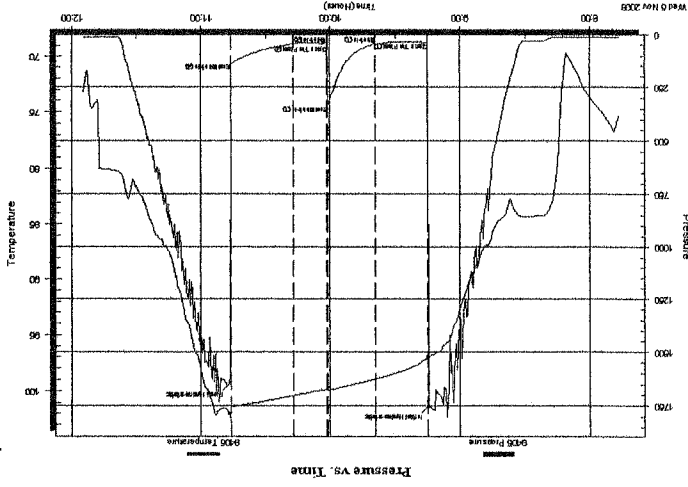
Press@RunDepth: 43.84 psig @
 End Date: 2008.11.05
 End Time: 07:47:00
 Start Date: 2008.11.05
 Start Time: 09:14:30
 Capacity: 2000.00 psig
 Last Calib.: 1899.12.30
 Time On Btm: 2008.11.05 @ 09:14:30
 Time Off Btm: 2008.11.05 @ 10:47:00

TEST COMMENT:

15-INITIAL OPENWEAK SURFACE BLOW BUILT TO 1/2 INCH
 30-INITIAL SHUT-IN-NO BLOW BACK
 15-FINAL OPENWEAK SURFACE BLOW
 30-FINAL SHUT-IN-NO BLOW BACK

PRESSURE SUMMARY

Annotation	Pressure (psig)	Temp (deg F)	Time (Min.)
Initial Hydro-static	97.05	1750.22	0
Open To Flow (1)	96.51	37.13	1
Shut-in(1)	98.93	42.89	25
End Shut-in(1)	99.94	334.99	47
Open To Flow (2)	99.72	49.30	47
Shut-in(2)	100.40	43.84	63
End Shut-in(2)	101.41	134.83	92
Final Hydro-static	101.90	1644.97	93



Recovery

Length (ft)	Description	Volume (bbl)
10.00	SLIGHT OIL CUT MUD 1% OIL 99% MUD 0.14	

Gas Rates

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

TOOL DIAGRAM

DRILL STEM TEST REPORT



F.G. HOLL COMPANY LLC.

INGALLS #1-12

9431 E CENTRAL

12-20S-14W BARTON

WICHITA KS. 67206-2563

Job Ticket: 16165

DST#:4

ATTN: RENE HUSTEAD

Test Start: 2008.11.05 @ 07:45:00

Tool Information

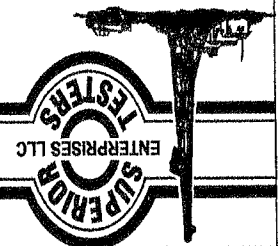
Drill Pipe: Length: 3347.00 ft Diameter: 3.80 inches Volume: 46.95 bbl Tool Weight: 20000.00 lb
 Heavy Wt. Pipe: Length: 0.00 ft Diameter: 0.00 inches Volume: 0.00 bbl Weight set on Packer: 20000.00 lb
 Drill Collar: Length: 0.00 ft Diameter: 0.00 inches Volume: 0.00 bbl Weight to Pull Loose: 70000.00 lb
 Tool Chased
 String Weight: Initial 50000.00 lb Final 50000.00 lb
 Depth to Top Packer: 3374.00 ft
 Depth to Bottom Packer: ft
 Interval between Packers: 17.00 ft
 Tool Length: 46.00 ft
 Number of Packers: 2 Diameter: 6.75 inches
 Tool Comments:

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

Safety Joint	2.00	3347.00		
S.I. Tool	5.00	3352.00		
HYD S.I. Tool	5.00	3357.00		
Jars	5.00	3362.00		
Safety Joint	2.00	3364.00		
Packer	5.00	3369.00	Bottom Of Top Packer	29.00
Packer	5.00	3374.00		
Perforations	12.00	3386.00		
Bullnose	5.00	3391.00	Bottom Packers & Anchor	17.00
Total Tool Length:		46.00		

FLUID SUMMARY

DRILL STEM TEST REPORT



F.G. HOLL COMPANY LLC

INGALLS #1-12

12-20S-14W BARTON

9431 E CENTRAL

Job Ticket: 16165 DST#: 4

WICHITA KS. 67206-2563

Test Start: 2008.11.05 @ 07:45:00

ATTN: RENE HUSTEAD

Mud and Cushion Information

Mud Type: Gel Chem
 Mud Weight: 9.00 lb/gal
 Viscosity: 50.00 sec/qt
 Water Loss: 9.58 in³
 Resistivity: ohm.m
 Salinity: 9200.00 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
10.00	SLIGHT OIL CUT MUD 1% OIL 99% MUD	0.140

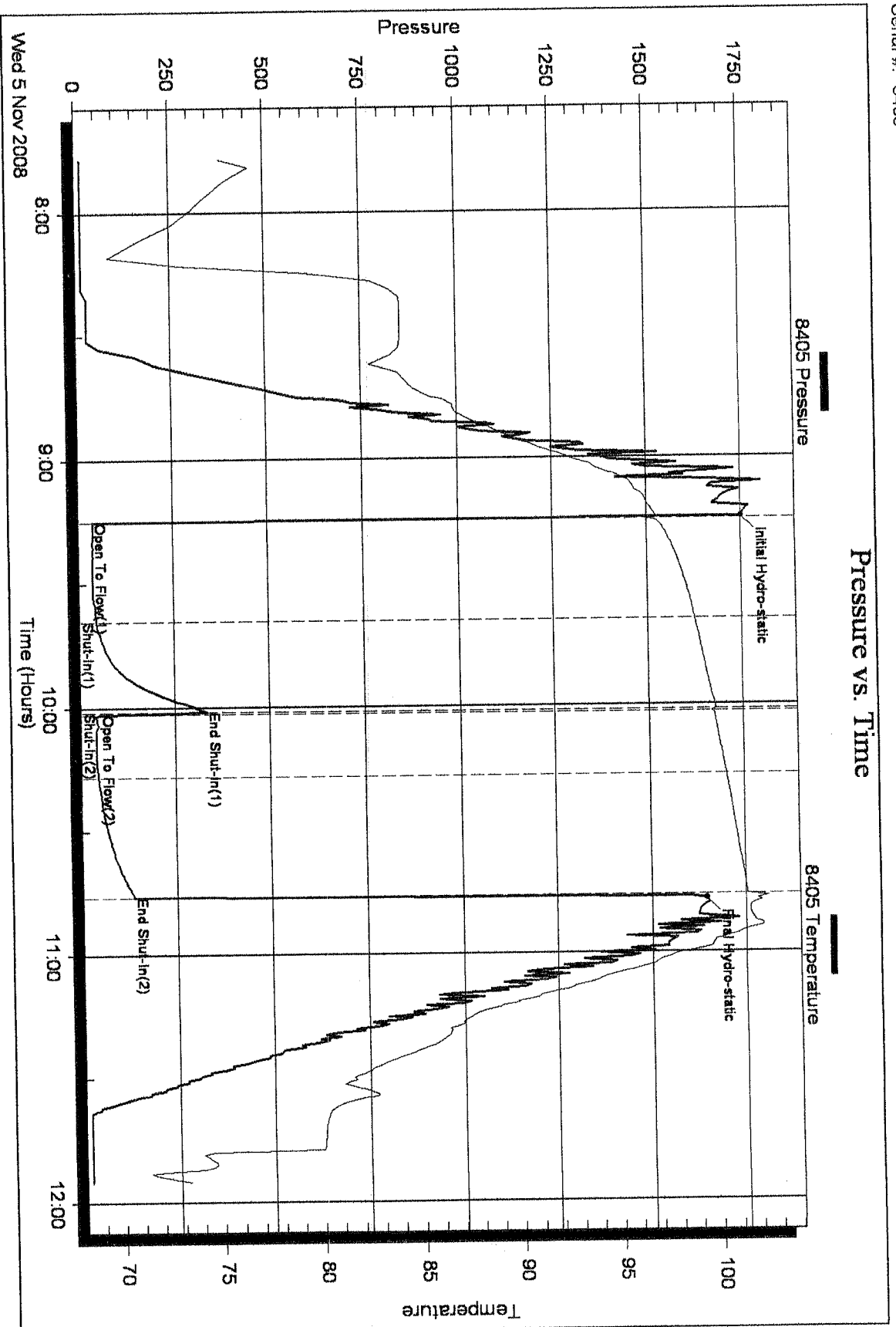
Total Length: 10.00 ft
 Total Volume: 0.140 bbl
 Num Fluid Samples: 0
 Num Gas Bombs: 0
 Laboratory Location:
 Recovery Comments:

Serial #: 8405

F.G. HOLL COMPANY LLC

12-205-14W BARTON

DST Test Number: 4





DRILL STEM TEST REPORT

Prepared For: **F.G. HOLL COMPANY LLC.**

9431 E. CENTRAL
STE 100
WICHITA KS. 67206-2563

ATTN: RENE HUSTEAD

12-20S-14W BARTON

INGALLS #1-12

Start Date: 2008.11.05 @ 21:23:00

End Date: 2008.11.06 @ 03:54:00

Job Ticket #: 16166 DST #: 5

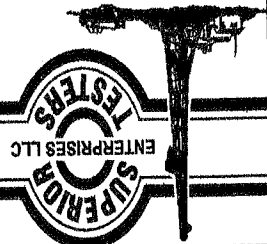
Superior Testers Enterprises LLC

PO Box 138 Great Bend KS 67530

1-800-792-6902

Printed: 2008.11.06 @ 21:34:40

DRILL STEM TEST REPORT



F.G. HOLL COMPANY LLC
 9431 E CENTRAL
 STE 100
 WICHITA KS. 67206-2563
 ATTN: RENEHUSTEAD

INGALLS #1-12
 12-20S-14W BARTON
 Job Ticket: 16166
 DST#: 5
 Test Start: 2008.11.05 @ 21:23:00

GENERAL INFORMATION:

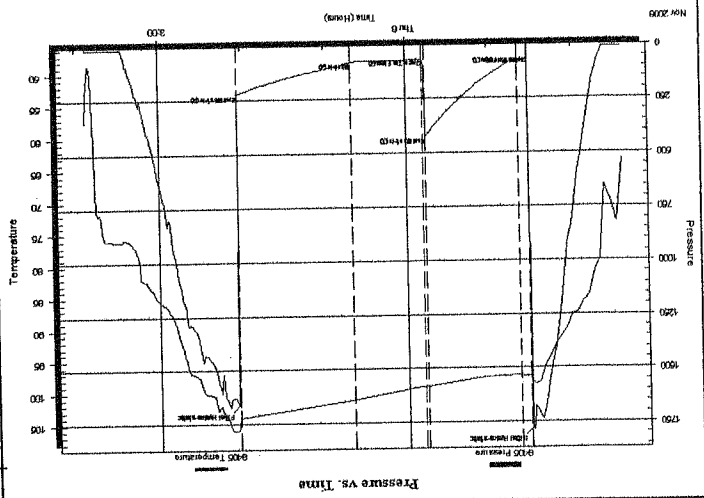
Formation: LANSING "K-L"
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 22:31:30
 Time Test Ended: 03:54:00
 Interval: 3414.00 ft (KB) To 3457.00 ft (KB) (TVD)
 Total Depth: 3457.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inchesHole Condition: Fair
 Reference Elevations: 1878.00 ft (KB)
 1870.00 ft (CF)
 8.00 ft
 KB to GR/CF:

Serial #: 8405

80.00 psig @ ft (KB)
 Start Date: 2008.11.05
 End Date: 2008.11.05
 End Time: 21:25:00
 Start Time: 03:54:00
 Press@RunDepth: 1899.12.30
 Last Callb.: 2008.11.05 @ 22:30:30
 Time On Btm: 2008.11.06 @ 02:03:30
 Time Off Btm: 2008.11.06 @ 02:03:30
 Capacity: 2000.00 psig

TEST COMMENT:

15-INITIAL OPEN:WEAK BLOW BUILT TO 5 INCHES
 60-INITIAL SHUT-IN:NO BLOW BACK
 45-FINAL OPEN:STRONG BLOW TO BOTTOM OF 5 GALLON BUCKET IN 1 MINUTE
 90-FINAL SHUT-IN:NO BLOW BACK



Recovery

Length (ft)	Description	Volume (bbl)
10.00	MUD 100%	0.14
60.00	MCOG 5% MUD 20% GAS 75% OIL	0.84

Gas Rates

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

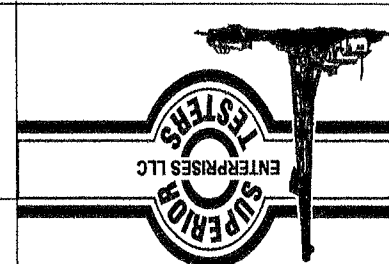
PRESSURE SUMMARY

Annotation	Pressure (psig)	Temp (deg F)	Time (Min.)
Initial Hydro-static	98.38	1783.00	0
Open To Flow (1)	97.48	58.00	2
Shut-in(1)	97.61	97.00	8
End Shut-in(1)	99.30	427.00	75
Open To Flow (2)	99.22	67.00	77
Shut-in(2)	101.17	80.00	129
End Shut-in(2)	103.92	222.00	212
Final Hydro-static	105.25	1663.00	213

TOOL DIAGRAM

DRILL STEM TEST REPORT

INGALLS #1-12
12-20S-14W BARTON
 Job Ticket: 16166 DST#:5
 Test Start: 2008.11.05 @ 21:23:00



F.G. HOLL COMPANY LLC
 9431 E CENTRAL
 STE 100
 WICHITA KS. 67206-2563
 ATTN: RENE HUSTEAD

Tool Information

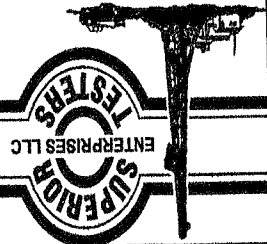
Drill Pipe: Length: 3387.00 ft Diameter: 3.80 inches Volume: 47.51 bbl Tool Weight: 20000.00 lb
 Heavy W. Pipe: Length: 0.00 ft Diameter: 0.00 inches Volume: 0.00 bbl Weight set on Packer: 20000.00 lb
 Drill Collar: Length: 0.00 ft Diameter: 0.00 inches Volume: 0.00 bbl Weight to Pull Loose: 50000.00 lb
 Drill Pipe Above KB: 1.00 ft
 Depth to Top Packer: 3414.00 ft
 Depth to Bottom Packer: ft
 Interval between Packers: 44.50 ft
 Tool Length: 72.50 ft
 Number of Packers: 2 Diameter: 6.75 inches
 Tool Comments:

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

Shut-in Tool	5.00	3391.00		
Hydrolic Tool	5.00	3396.00		
Jars	6.00	3402.00		
Safety Joint	2.00	3404.00		
Packer	5.00	3409.00	Bottom Of Top Packer	28.00
Packer	5.00	3414.00		
Perforations	38.00	3452.00		
Recorder	0.75	3452.75	Inside	
Recorder	0.75	3453.50	Outside	
Bullnose	5.00	3458.50		
Total Tool Length:		72.50		

FLUID SUMMARY

DRILL STEM TEST REPORT



F.G. HOLL COMPANY LLC.

INGALLS #1-12

9431 E CENTRAL

12-20S-14W BARTON

WICHITA KS. 67206-2563

Job Ticket: 16166 DST#:5

ATTN: RENE HUSTEAD

Test Start: 2008.11.05 @ 21:23:00

Mud and Cushion Information

Mud Type: Gel Chem
 Mud Weight: 9.00 lb/gal
 Viscosity: 50.00 sec/qt
 Water Loss: 9.58 in³
 Resistivity: ohm.m
 Salinity: 9200.00 ppm
 Filter Cake: 1.00 inches

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

Oil API: deg API
 Water Salinity: ppm

Recovery Information

Length ft	Description	Volume bbl
10.00	MUD 100%	0.140
60.00	MCOG 5% MUD 20% GAS 75% OIL	0.842

Total Length: 70.00 ft
 Total Volume: 0.982 bbl

Num Fluid Samples: 0
 Laboratory Name:
 Recovery Comments:
 Num Gas Bombs: 0
 Laboratory Location:
 Serial #:

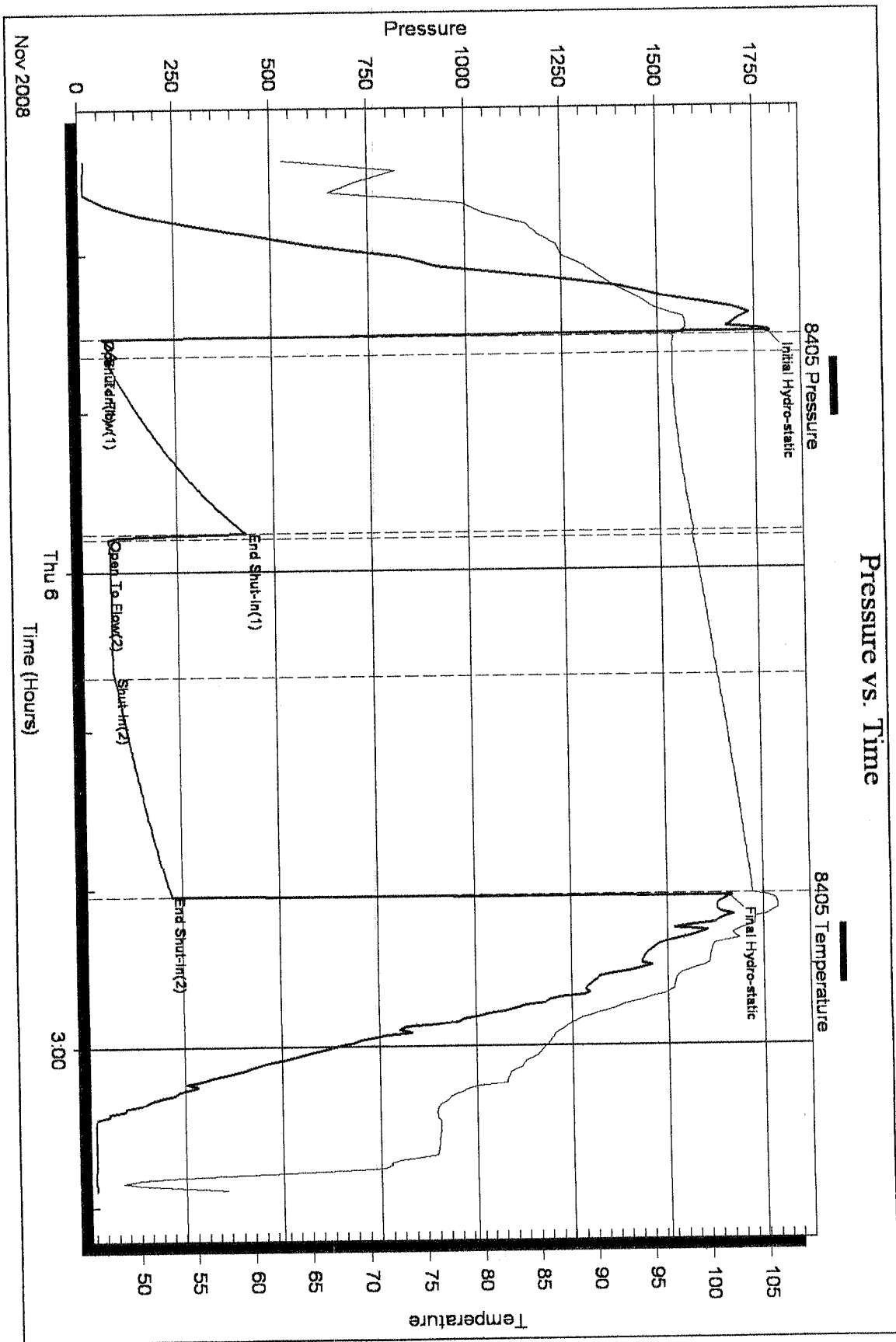
Serial #: 8405

F.G. HOLL COMPANY LLC

12-20S-14W BARTON

DST Test Number: 5

Pressure vs. Time

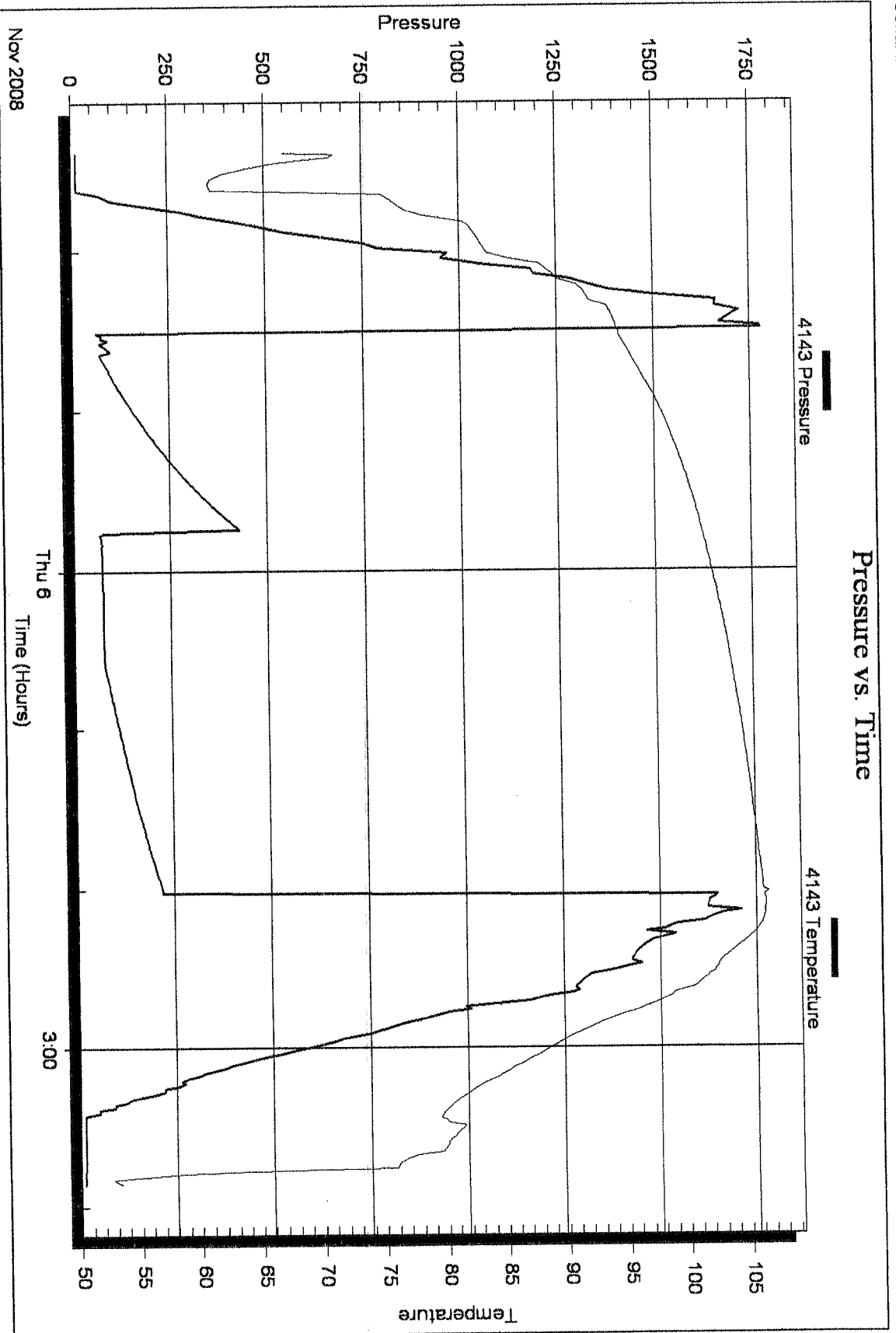


Serial #: 4143

F.G. HOLL COMPANY LLC

12-208-14W BARTON

DST Test Number: 5



Nov 2008

Thu 6

3:00

Time (Hours)



DRILL STEM TEST REPORT

Prepared For: **F.G. HOLL COMPANY LLC.**

9431 E. CENTRAL
STE 100
WICHITA KS. 67206-2563

ATTN: RENE HUSTEAD

12-20S-14W BARTON

INGALLS #1-12

Start Date: 2008.11.06 @ 12:50:00

End Date: 2008.11.06 @ 20:00:00

Job Ticket #: 16167
DST #: 6

Superior Testers Enterprises LLC

PO Box 138 Great Bend KS 67530

1-800-792-6902

DRILL STEM TEST REPORT

F.G. HOLL COMPANY LLC.

INGALLS #1-12

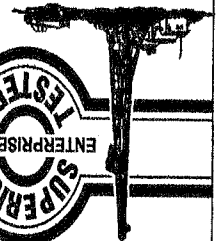
12-20S-14W BARTON

Job Ticket: 16167 DST#:6

Test Start: 2008.11.06 @ 12:50:00

ENTERPRISES LLC

TESTERS



GENERAL INFORMATION:

Formation: ARBUCKLE
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 14:26:30
 Time Test Ended: 20:00:00
 Interval: 3444.00 ft (KB) To 3502.00 ft (KB) (TVD)
 Total Depth: 3512.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches-Hole Condition: Fair
 Reference Elevations: 1878.00 ft (KB)
 1870.00 ft (CF)
 8.00 ft
 KB to GR/CF:

Serial #: 8405

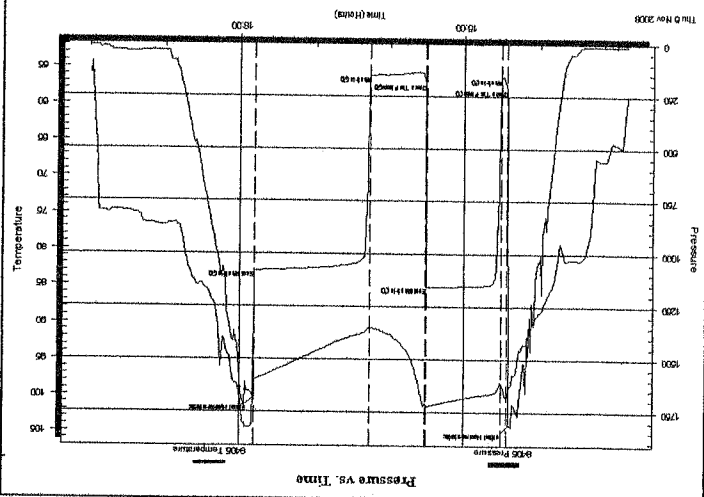
Press@RunDepth: 151.00 psig @
 Start Date: 2008.11.06
 End Date: 2008.11.06
 End Time: 12:52:00
 Capacity: 2000.00 psig
 Last Calib.: 1899.12.30
 Time On Btm: 2008.11.06 @ 14:24:30
 Time Off Btm: 2008.11.06 @ 17:49:30

TEST COMMENT:

5-INITIAL OPEN:STRONG BLOW TO BOTTOM OF 5 GALLON BUCKET IN LESS THAN 1 MINUTE
 60-INITIAL SHUT-IN:STRONG BLOW BACK
 45-FINAL OPEN:STRONG BLOW TO BOTTOM OF 5 GALLON BUCKET RIGHT AWAY
 90-FINAL SHUT-IN:STRONG BLOW BACK

PRESSURE SUMMARY

Annotation	Temp (deg F)	Pressure (psig)	Time (Min.)
Initial Hydro-static	98.76	1814.00	0
Open To Flow (1)	100.19	214.00	2
Shut-in (1)	98.46	161.00	6
End Shut-in (1)	101.58	1158.00	66
Open To Flow (2)	101.09	187.00	68
Shut-in (2)	90.65	151.00	111
End Shut-in (2)	97.84	1083.00	204
Final Hydro-static	98.81	1685.00	206



Recovery

Length (ft)	Description	Volume (bbl)
125.00	MUD 100%	1.75

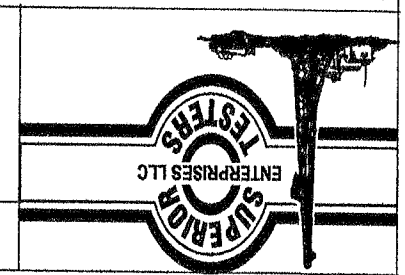
Gas Rates

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

TOOL DIAGRAM

DRILL STEM TEST REPORT

INGALLS #1-12
12-20S-14W BARTON
 Job Ticket: 16167 DST#:6
 ATTN: RENEHUSTEAD
 WICHITA KS. 67206-2563
 9431 E CENTRAL
 STE 100
 F.G. HOLL COMPANY LLC.
 Test Start: 2008.11.06 @ 12:50:00



Tool Information

Drill Pipe: Length: 3417.00 ft Diameter: 3.80 inches Volume: 47.93 bbl
 Heavy Wt. Pipe: Length: 0.00 ft Diameter: 0.00 inches Volume: 0.00 bbl
 Drill Collar: Length: 0.00 ft Diameter: 0.00 inches Volume: 0.00 bbl
 Drill Pipe Above KB: 1.00 ft
 Depth to Top Packer: 3444.00 ft
 Depth to Bottom Packer: ft
 Interval between Packers: 53.68 ft
 Tool Length: 81.68 ft
 Number of Packers: 2 Diameter: 6.75 inches
 Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft) Accum. Lengths
Shut-In Tool	5.00			
Hydrolic Tool	5.00	3421.00		
Jars	6.00	3432.00		
Safety Joint	2.00	3434.00		
Packer	5.00	3439.00		28.00
Packer	5.00	3444.00		
Change Over Sub	0.75	3444.75		
Drill Pipe	30.68	3475.43		
Change Over Sub	0.75	3476.18		
Perforations	15.00	3491.18		
Recorder	0.75	3491.93	Inside	
Recorder	0.75	3492.68	Outside	
Bullnose	5.00	3497.68		53.68
Total Tool Length: 81.68				

Bottom Of Top Packer

Bottom Packers & Anchor

FLUID SUMMARY

DRILL STEM TEST REPORT



E.G. HOLL COMPANY LLC.

INGALLS #1-12

12-20S-14W BARTON

Job Ticket: 16167 **DST#:6**

9431 E CENTRAL
 STE 100
 WICHITA KS. 67206-2563
 ATTN: RENE HUSTEAD

Test Start: 2008.11.06 @ 12:50:00

Mud and Cushion Information

Mud Type: Gel Chem
 Mud Weight: 9.00 lb/gal
 Viscosity: 53.00 sec/qt
 Water Loss: 9.19 in³
 Resistivity: ohm.m
 Salinity: 9300.00 ppm
 Filter Cake: 1.00 inches

Cushion Type:
 Cushion Length:
 Cushion Volume:
 Gas Cushion Type:
 Gas Cushion Pressure: psig

Oil API:
 Water Salinity: ppm
 deg API

Recovery Information

Length ft	Description	Volume bbl
125.00	MUD 100%	1.753
Total Length: 125.00 ft		Total Volume: 1.753 bbl

Num Fluid Samples: 0
 Num Gas Bombs: 0
 Laboratory Name:
 Laboratory Location:
 Recovery Comments:
 Serial #:

SUPERIOR TESTERS ENTERPRISES L.T.C.

GREAT BEND, KANSAS

GAS FLOW RATE

(800) 792-6902

STATE.....#REF!
 COUNTY.....BARTON
 FIELD.....WILDCAT
 Test Date.....11-6-08
 Sec Town Range.....12/20S/14W
 Report Number.....16167

Initial Flow

Comments	Time (h:mm:ss)	Period (min)	Inches H2O	PSI on Office Tester	PSI on Pilot Tube	Choke Size (in)	Gas Rate (MCF/Day)
TOOL OPEN AT 2:25PM NO GAS TO SURFACE							

Final Flow

Comments	Time (h:mm:ss)	Period (min)	Inches H2O	PSI on Office Tester	PSI on Pilot Tube	Choke Size (in)	Gas Rate (MCF/Day)
TOOL OPEN AT 3:30PM GAS TO SURFACE	03:30	5			32	1	146.000
	03:40	10			36	1	155.000
	03:45	15			36	1	155.000
	03:50	20			36	1	155.000
	03:55	25			36	1	155.000
	04:00	30			36	1	155.000
	04:05	35			36	1	155.000
	04:10	40			36	1	155.000
	04:15	45			36	1	155.000

Was there a gas sample taken

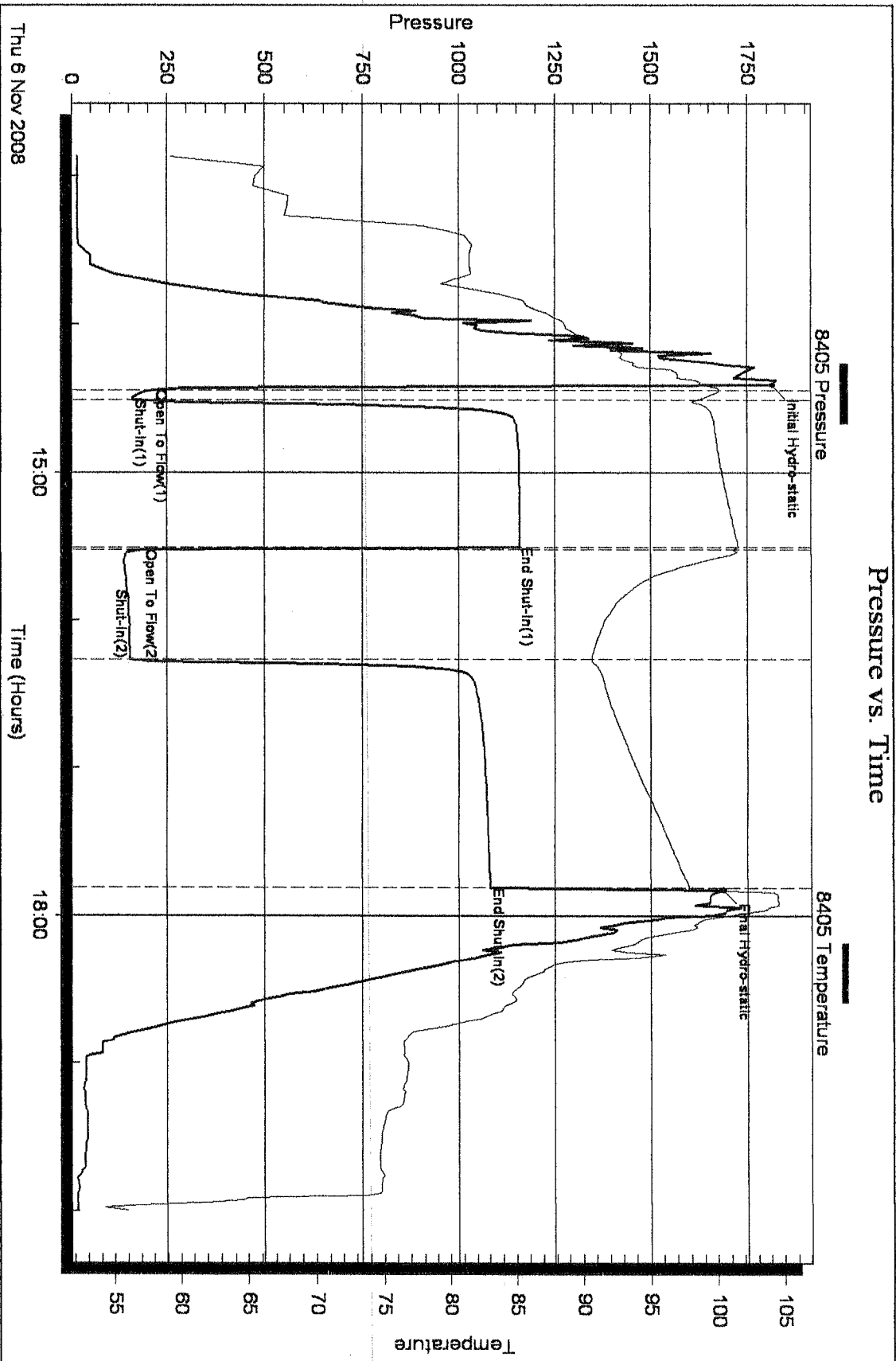
YES

Serial #: 8405

F.G. HOLL COMPANY LLC

12-20S-14W BARTON

DST Test Number: 6

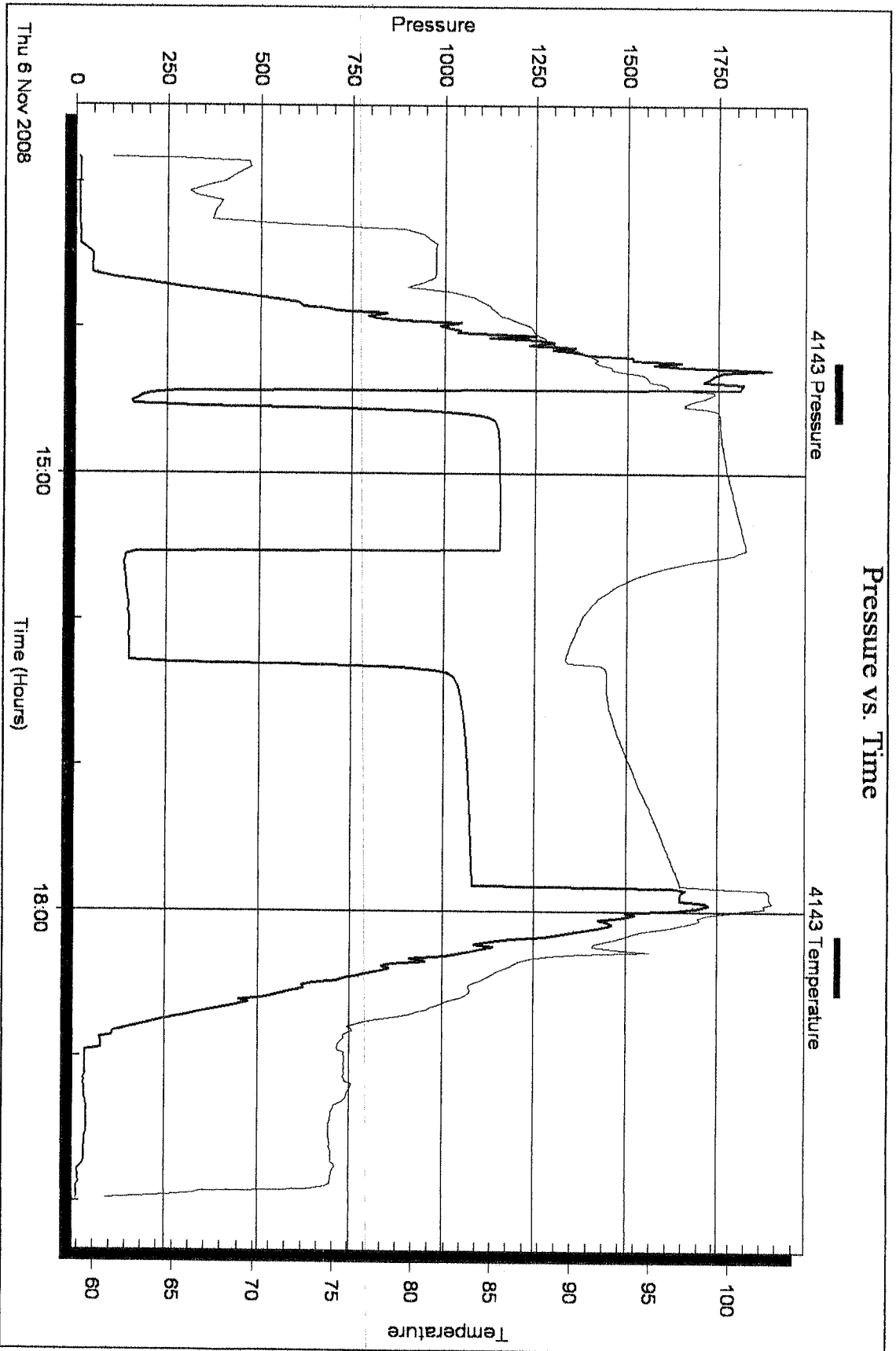


Serial #: 4143

F.G. HOLL COMPANY LLC

12-20S-14W BARTON

DST Test Number: 6



Superior Testers Enterprises LLC

Ref. No: 16167

Printed: 2008.11.06 @ 21:34:59

F.G. HOLL COMPANY LLC. INGALLS #1-12 12-20S-14W BARTON DST # 7 ARBUCKLE 2008.11.07



DRILL STEM TEST REPORT

Prepared For: **F.G. HOLL COMPANY LLC.**

9431 E. CENTRAL
STE 100
WICHITA KS. 67206-2563

ATTN: **RENE HUSTEAD**

12-20S-14W BARTON

INGALLS #1-12

Start Date: 2008.11.07 @ 04:57:00

End Date: 2008.11.07 @ 11:25:00

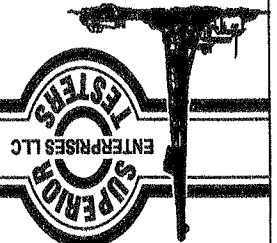
Job Ticket #: 16168 DST #: 7

Superior Testers Enterprises LLC

PO Box 138 Great Bend KS 67530

1-800-792-6902

DRILL STEM TEST REPORT



F.G. HOLL COMPANY LLC
 9431 E. CENTRAL
 STE 100
 WICHITA KS. 67206-2563
 ATTN: RENEHUSTEAD

INGALLS #1-12
12-20S-14W BARTON
 Job Ticket: 16168
 DST#: 7
 Test Start: 2008.11.07 @ 04:57:00

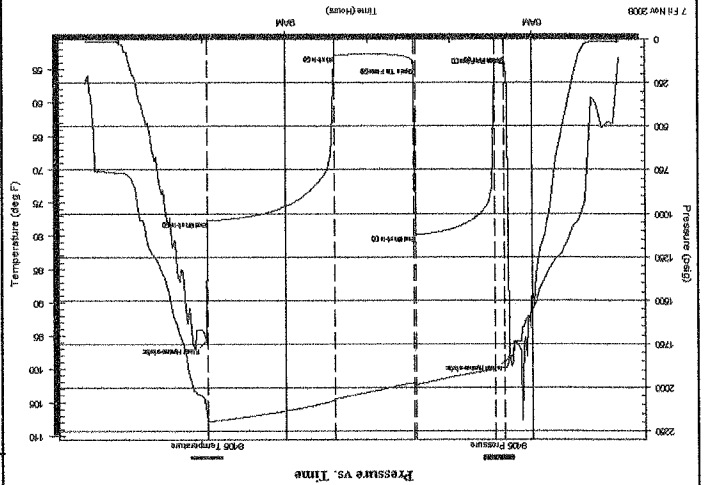
GENERAL INFORMATION:

Formation: ARBUCKLE
 Deviated: No Whipstock:
 Time Tool Opened: 06:20:30
 Time Test Ended: 11:25:00
 Interval: 3502.00 ft (KB) To 3522.00 ft (KB) (TVD)
 Total Depth: 3522.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inchesHole Condition: Fair
 Reference Elevations: 1878.00 ft (KB) 1870.00 ft (CF) 8.00 ft
 Test Type: Conventional Bottom Hole (Initial)
 Tester: FRANK ZAMARRIPA
 Unit No: 3335 12 GB

Serial #: 8405

Press@RunDepth: 90.00 psig @
 End Date: 2008.11.07
 End Time: 04:59:00
 Start Date: 2008.11.07
 Start Time: 06:17:30
 Capacity: 2000.00 psig
 Last Calib.: 1899.12.30
 Time On Btm: 2008.11.07 @ 06:17:30
 Time Off Btm: 2008.11.07 @ 09:57:30

TEST COMMENT: 6-INITIAL OPEN;STRONG BLOW TO BOTTOM OF 5 GALLON BUCKET IN LESS THAN 1 MINUTE
 45-FINAL OPEN;STRONG BLOW TO BOTTOM OF 5 GALLON BUCKET RIGHT AWAY
 90-FINAL SHUT-IN;STRNG BLOW BACK



PRESSURE SUMMARY

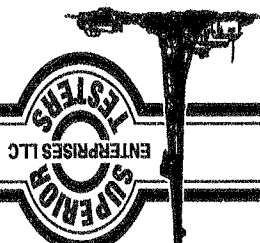
Annotation	Temp (deg F)	Pressure (psig)	Time (Min.)
Initial Hydro-static	98.43	1825.00	0
Open To Flow (1)	99.86	100.00	3
Shut-in(1)	99.86	143.00	10
End Shut-in(1)	102.36	1123.00	68
Open To Flow (2)	101.90	163.00	69
Shut-in(2)	104.51	90.00	127
End Shut-in(2)	107.93	1040.00	219
Final Hydro-static	106.60	1730.00	220

Recovery

Length (ft)	Description	Volume (bbl)
60.00	MUDDY OIL 50% MUD 50% OIL	0.84
60.00	OIL CUT MUD 5% OIL 95% MUD	0.84

Gas Rates

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



F.G. HOLL COMPANY LLC
 9431 E. CENTRAL
 STE 100
 WICHITA KS. 67206-2563
 ATTN: RENEHUSTEAD

INGALLS #1-12
 12-20S-14W BARTON
 Job Ticket: 16168
 DST#: 7
 Test Start: 2008.11.07 @ 04:57:00

DRILL STEM TEST REPORT

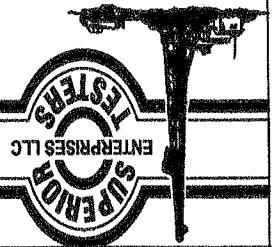
TOOL DIAGRAM

Tool Information

Drill Pipe:	Length: 3483.00 ft	Diameter: 3.80 inches	Volume: 48.86 bbl	Tool Weight: 20000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 ft	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 ft	Volume: 0.00 bbl	Weight to Pull Loose: 50000.00 lb
Drill Pipe Above KB:		2.00 ft		Tool Chased
Depth to Top Packer:	3502.00 ft	Total Volume: 48.86 bbl		String Weight: Initial 50000.00 lb
Depth to Bottom Packer:	ft			Final 52000.00 lb
Interval between Packers:	21.50 ft			
Tool Length:	42.50 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				
Shut-in Tool	5.00				
Hydraulic Tool	5.00				
Packer	5.00				
Packer	5.00				
Packer	5.00				
Perforations	15.00				
Recorder	0.75		inside		
Recorder	0.75		Outside		
Bullnose	5.00				
Total Tool Length:	42.50				
Bottom Packers & Anchor	21.50				
Bottom Of Top Packer	21.00				



DRILL STEM TEST REPORT

FLUID SUMMARY

F.G. HOLL COMPANY LLC
 9431 E CENTRAL
 STE 100
 WICHITA KS. 67206-2563
 ATTN: RENEHUSTEAD
 Job Ticket: 16168
 12-20S-14W BARTON
 DST#: 7
 Test Start: 2008.11.07 @ 04:57:00

Mud and Cushion Information

Mud Type: Gel Chem
 Mud Weight: 9.00 lb/gal
 Viscosity: 53.00 sec/qt
 Water Loss: 9.19 in³
 Resistivity: ohm.m
 Salinity: 9300.00 ppm
 Filter Cake: 1.00 inches
 Cushion Type: Oil API
 Cushion Length: ft
 Water Salinity: ppm
 Cushion Volume: bbl
 Gas Cushion Type: psig
 Gas Cushion Pressure: psig

Recovery Information

Length ft	Description	Volume bbl
60.00	MUDDY OIL 50% MUD 50% OIL	0.842
60.00	OIL CUT MUD 5% OIL 95% MUD	0.842
Total Length: 120.00 ft		Total Volume: 1.684 bbl
Num Fluid Samples: 0		Num Gas Bombs: 0
Laboratory Name:		Laboratory Location:
Recovery Comments:		Serial #:

STATE..... KANSAS
 COUNTY..... BARTON
 FIELD..... WILDCAT
 Test Date 11/7/08
 Sec Town Range 12/20S/14W
 Report Number 16168

Initial Flow

Comments	Time (hh:mm:ss)	Period (dt (min))	Inches H2O	Office Tester	PSI on	Pilot Tube	Choke Size (in)	Gas Rate (MCF/Day)
TOOL OPEN AT 6:20AM NO GAS TO SURFACE								

Final Flow

Comments	Time (hh:mm:ss)	Period (dt (min))	Inches H2O	Office Tester	PSI on	Pilot Tube	Choke Size (in)	Gas Rate (MCF/Day)
TOOL OPEN AT 7:25AM GAS TO SURFACE	7:25	5	20				1 1/2	311,000
	7:30	10	15				1 1/2	270,000
	7:40	15	10				1 1/2	220,000
	7:45	20	52				1	186,000
	7:50	25	50				1	183,000
	7:55	30	44				1	171,000
	8:00	35	40				1	163,000
	8:05	40	36				1	155,000
	8:10	45	34				1	151,000
	8:15	50	32				1	146,000
	8:20	55	30				1	141,000
	8:25	60	28				1	137,000

Was there a gas sample taken

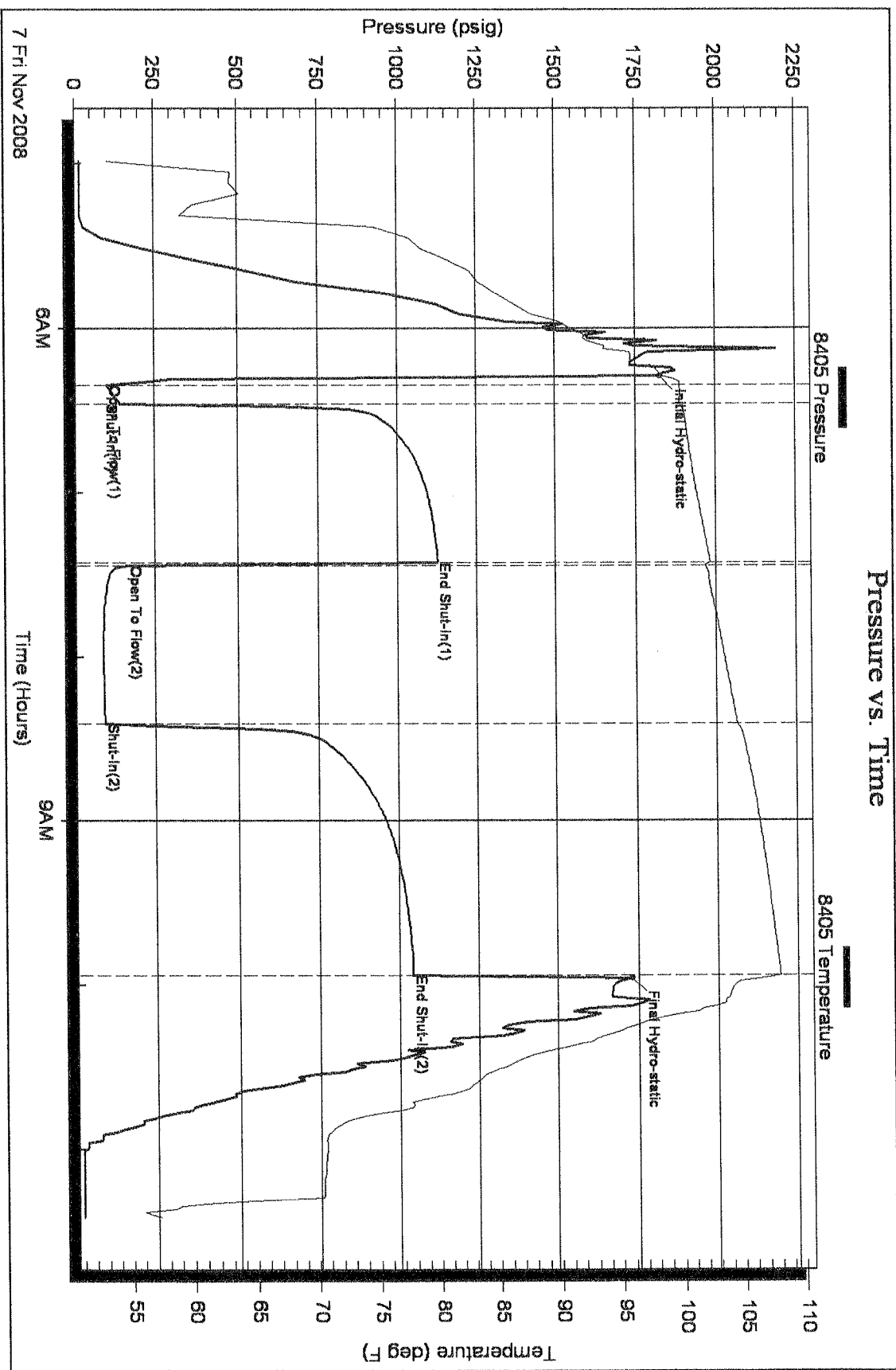
YES

Serial #: 8405

F.G. HOLL COMPANY LLC

12-208-14W BARTON

DST Test Number: 7



Superior Testers Enterprises LLC

Ref. No: 16168

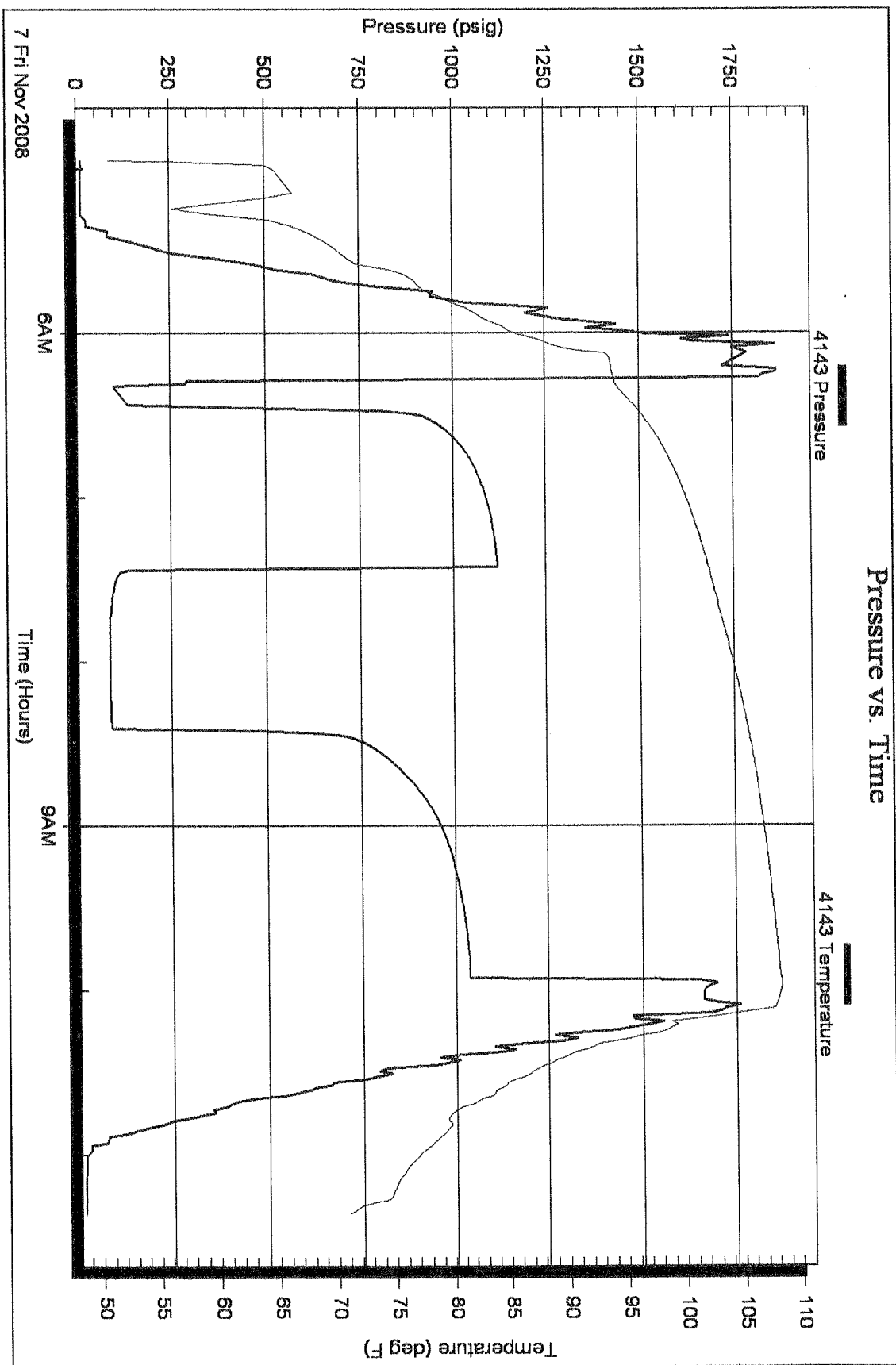
Printed: 2008.11.08 @ 13:23:30

Serial #: 4143

F.G. HOLL COMPANY LLC

12-20S-14W BARTON

DST Test Number: 7



Superior Testers Enterprises LLC

Ref. No: 16168

Printed: 2008.11.08 @ 13:23:30