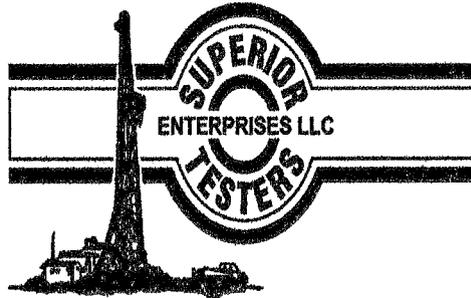


15-033-21537

32-34s-19w

IND



DRILL STEM TEST REPORT

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

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

ATTN: BILL REA

32-34S-19W COMANCHE

WOOLFOLK #1-32

Start Date: 2008.09.07 @ 02:08:26

End Date: 2008.09.07 @ 10:20:41

Job Ticket #: 16134 DST #: 1

KCC
NOV 14 2008
CONFIDENTIAL

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

F.G. HOLL COMPANY LLC

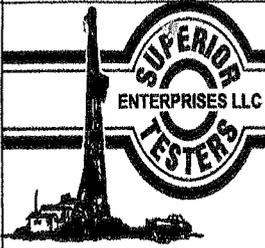
WOOLFOLK #1-32

32-34S-19W COMANCHE

DST # 1

MARMONTON

2008.09.07



DRILL STEM TEST REPORT

F.G. HOLL COMPANY LLC

WOOLFOLK #1-32

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

32-34S-19W COMANCHE

Job Ticket: 16134

DST#: 1

ATTN: BILL REA

Test Start: 2008.09.07 @ 02:08:26

GENERAL INFORMATION:

Formation: **MARMONTON**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 05:03:41

Time Test Ended: 10:20:41

Test Type: Conventional Bottom Hole

Tester: FRANK ZAMARRIPA

Unit No: 3335 268 GB

Interval: **5113.00 ft (KB) To 5156.00 ft (KB) (TVD)**

Reference Elevations: 1789.00 ft (KB)

Total Depth: 5156.00 ft (KB) (TVD)

1776.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 13.00 ft

Serial #: 4005

Press@RunDepth: 131.61 psig @ ft (KB)

Capacity: psig

Start Date: 2008.09.07 End Date: 2008.09.07

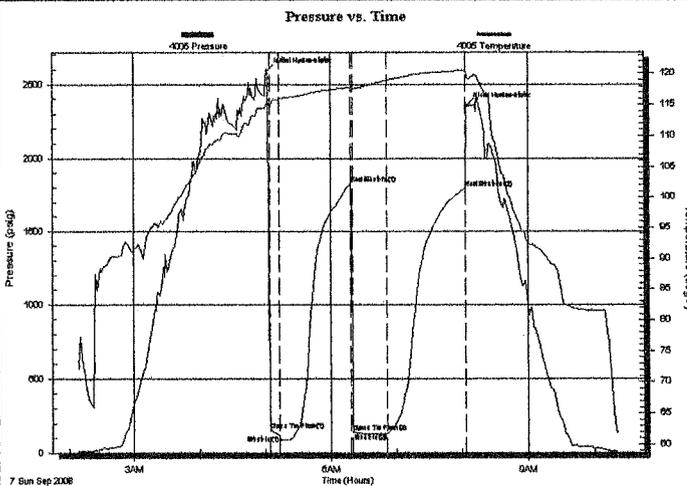
Last Calib.: 1899.12.30

Start Time: 02:08:27 End Time: 10:20:42

Time On Btm: 2008.09.07 @ 05:01:42

Time Off Btm: 2008.09.07 @ 08:04:42

TEST COMMENT: 15- WEAK BUILDING BLOW BUILT TO BOTTOM OF 5 GALLON BUCKET
60- NO BLOW BACK
30-WEAK BUILDING BLOW BUILT TO 8 INCHES
60- NO BLOW BACK



PRESSURE SUMMARY

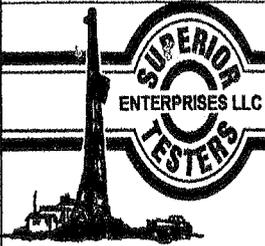
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2589.93	115.14	Initial Hydro-static
2	154.27	114.85	Open To Flow (1)
11	118.74	115.84	Shut-In(1)
76	1821.94	117.79	End Shut-In(1)
78	141.68	117.64	Open To Flow (2)
109	131.61	118.92	Shut-In(2)
181	1790.97	120.56	End Shut-In(2)
183	2354.03	119.48	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
160.00	WM	2.24

Gas Rates

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



DRILL STEM TEST REPORT

TOOL DIAGRAM

F.G. HOLL COMPANY LLC

WOOLFOLK #1-32

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

32-34S-19W COMANCHE

Job Ticket: 16134

DST#: 1

ATTN: BILL REA

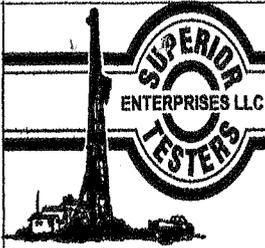
Test Start: 2008.09.07 @ 02:08:26

Tool Information

Drill Pipe:	Length: 5086.00 ft	Diameter: 3.80 inches	Volume: 71.34 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
			<u>Total Volume: 71.34 bbl</u>	Tool Chased ft
Drill Pipe Above KB:	2.00 ft			String Weight: Initial 60000.00 lb
Depth to Top Packer:	5113.00 ft			Final 64000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	43.00 ft			
Tool Length:	72.00 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			5086.00	
S.I. Tool	5.00			5091.00	
HYD.S.I. Tool	5.00			5096.00	
Jars	5.00			5101.00	
Safety Joint	2.00			5103.00	
Packer	5.00			5108.00	29.00 Bottom Of Top Packer
Packer	5.00			5113.00	
Perforations	38.00			5151.00	
Bullnose	5.00			5156.00	43.00 Bottom Packers & Anchor
Total Tool Length:	72.00				



DRILL STEM TEST REPORT

FLUID SUMMARY

F.G. HOLL COMPANY LLC

WOOLFOLK #1-32

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

32-34S-19W COMANCHE

Job Ticket: 16134

DST#: 1

ATTN: BILL REA

Test Start: 2008.09.07 @ 02:08:26

Mud and Cushion Information

Mud Type: Gel Chem
Mud Weight: 9.00 lb/gal
Viscosity: 45.00 sec/qt
Water Loss: 8.19 in³
Resistivity: ohm.m
Salinity: 3800.00 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: 12000 ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
160.00	WM	2.244

Total Length: 160.00 ft Total Volume: 2.244 bbl

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

Laboratory Name: Laboratory Location:

Recovery Comments:

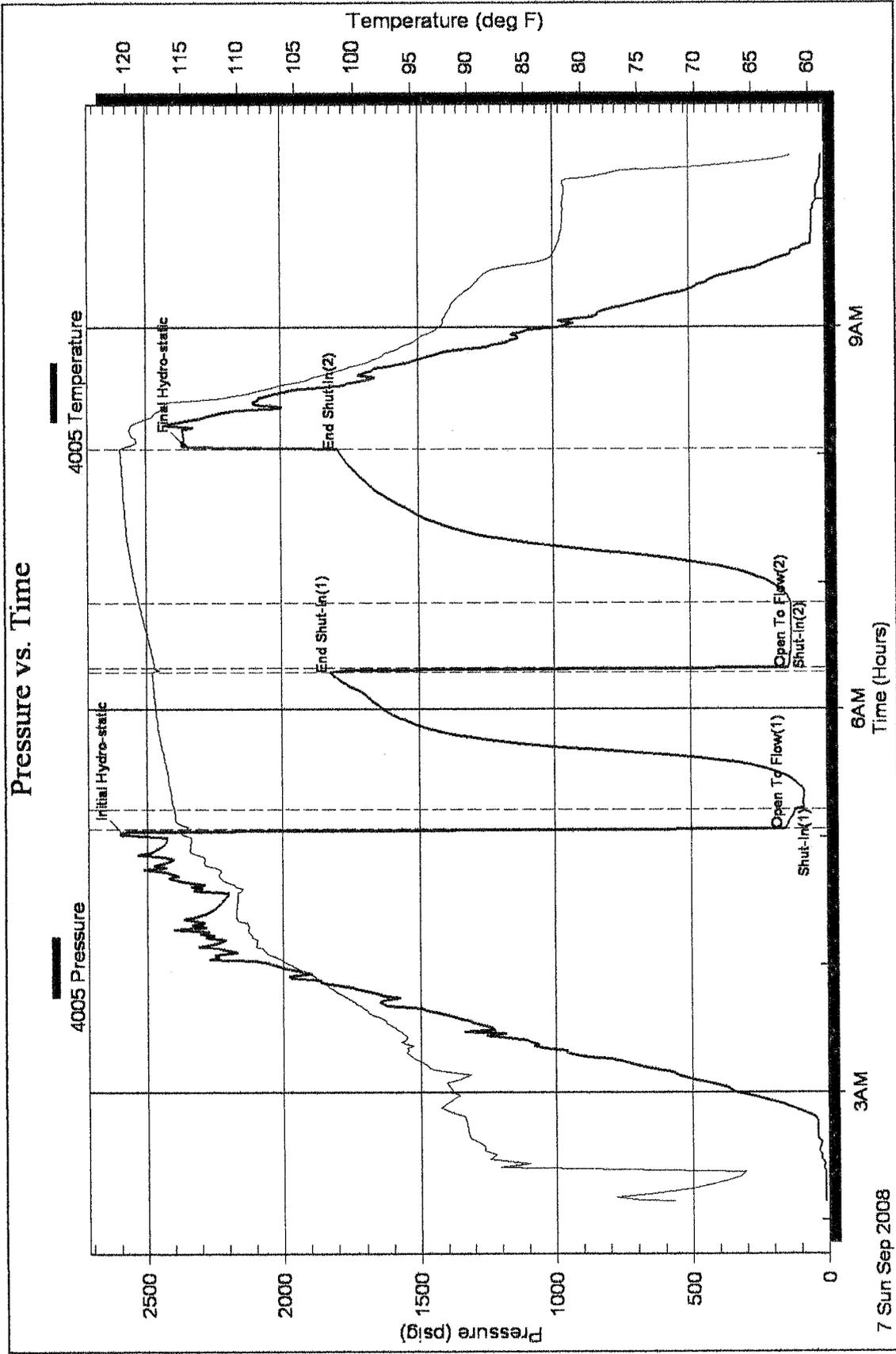
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F.G. HOLL COMPANY LLC

32-34S-19W COMANCHE

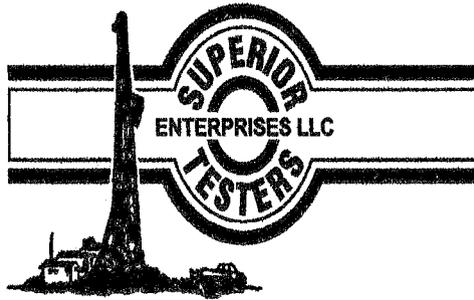
DST Test Number: 1

Pressure vs. Time



Ref. No: 16134

Supertor Testers Enterprises LLC



DRILL STEM TEST REPORT

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

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

ATTN: BILL REE

32-34S-19W COMANCHE

WOOLFOLK #1-32

Start Date: 2008.09.08 @ 00:24:00

End Date: 2008.09.08 @ 07:28:15

Job Ticket #: 16135 DST #: 2

Superior Testers Enterprises LLC
PO Box 138 Great Bend KS 67530
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Printed: 2008.09.10 @ 18:45:31 Page 1

F.G. HOLL COMPANY LLC

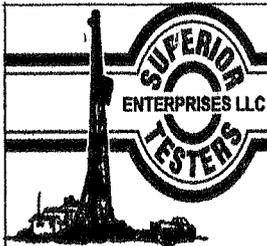
WOOLFOLK #1-32

32-34S-19W COMANCHE

DST # 2

MISSISSIPPI

2008.09.08



DRILL STEM TEST REPORT

F.G. HOLL COMPANY LLC
 9431 E. CENTRAL SUITE 100
 WICHITA KS. 67206-2563
 ATTN: BILL REE

WOOLFOLK #1-32
32-34S-19W COMANCHE
 Job Ticket: 16135 **DST#: 2**
 Test Start: 2008.09.08 @ 00:24:00

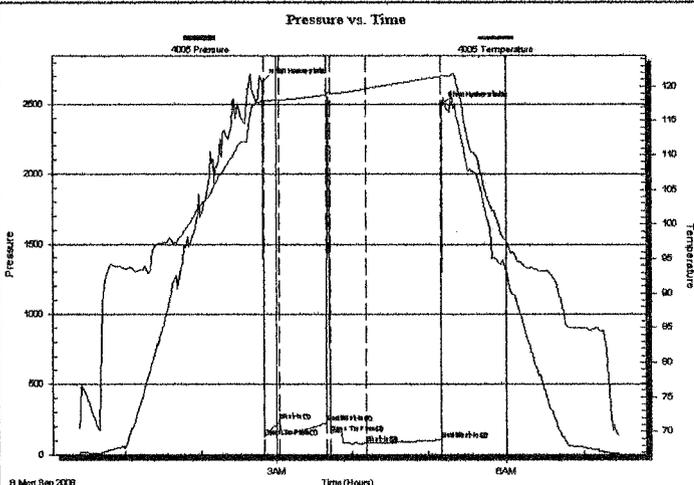
GENERAL INFORMATION:

Formation: **MISSISSIPPI**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 02:50:16
 Time Test Ended: 07:28:15
 Test Type: Conventional Bottom Hole
 Tester: FRANK ZAMARRIPA
 Unit No: 3335 30 PROTECTION
 Interval: **5271.00 ft (KB) To 5338.00 ft (KB) (TVD)**
 Total Depth: 5338.00 ft (KB) (TVD)
 Reference Elevations: 1789.00 ft (KB)
 Hole Diameter: 7.88 inches Hole Condition: Fair 1776.00 ft (CF)
 KB to GR/CF: 13.00 ft

Serial #: 4005

Press@RunDepth: 82.83 psig @ ft (KB) Capacity: 3000.00 psig
 Start Date: 2008.09.08 End Date: 2008.09.08 Last Calib.: 1899.12.30
 Start Time: 00:24:01 End Time: 07:28:16 Time On Btm: 2008.09.08 @ 02:49:15
 Time Off Btm: 2008.09.08 @ 05:11:16

TEST COMMENT: 15-WEAK SURFACE BLOW
 30-NO BLOW BACK
 30-NO BLOW, FLUSHED TOOL GOOD SURGE, NO BLOW
 60-NO BLOW BACK



PRESSURE SUMMARY

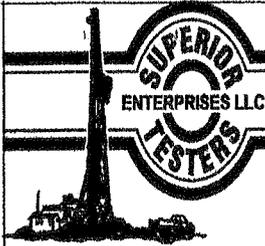
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2660.81	117.00	Initial Hydro-static
2	128.48	117.91	Open To Flow (1)
14	242.28	118.06	Shut-In(1)
50	225.81	118.76	End Shut-In(1)
53	153.51	119.01	Open To Flow (2)
83	82.83	119.62	Shut-In(2)
141	105.86	121.40	End Shut-In(2)
143	2489.59	121.60	Final Hydro-static

Recovery

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

Gas Rates

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



DRILL STEM TEST REPORT

TOOL DIAGRAM

F.G. HOLL COMPANY LLC

WOOLFOLK #1-32

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

32-34S-19W COMANCHE

Job Ticket: 16135

DST#: 2

ATTN: BILL REE

Test Start: 2008.09.08 @ 00:24:00

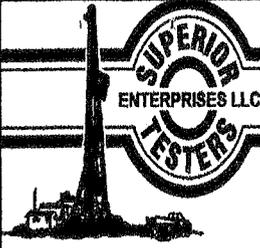
Tool Information

Drill Pipe:	Length: 5244.00 ft	Diameter: 3.80 inches	Volume: 73.56 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: 74000.00 lb
			Total Volume: 73.56 bbl	Tool Chased ft
Drill Pipe Above KB:	2.00 ft			String Weight: Initial 64000.00 lb
Depth to Top Packer:	5271.00 ft			Final 64000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	67.27 ft			
Tool Length:	96.27 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			5244.00	
S.I. Tool	5.00			5249.00	
HYD S.I. Tool	5.00			5254.00	
Jars	5.00			5259.00	
Safety Joint	2.00			5261.00	
Packer	5.00			5266.00	29.00 Bottom Of Top Packer
Packer	5.00			5271.00	
Perforations	5.00			5276.00	
C.O. Sub	0.75			5276.75	
Drill Pipe	31.77			5308.52	
C.O. Sub	0.75			5309.27	
Perforations	24.00			5333.27	
Bullnose	5.00			5338.27	67.27 Bottom Packers & Anchor

Total Tool Length: 96.27



DRILL STEM TEST REPORT

FLUID SUMMARY

F.G. HOLL COMPANY LLC

WOOLFOLK #1-32

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

32-34S-19W COMANCHE

Job Ticket: 16135

DST#: 2

ATTN: BILL REE

Test Start: 2008.09.08 @ 00:24:00

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: 40.00 sec/qt	Cushion Volume: bbl		
Water Loss: 11.17 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 6000.00 ppm			
Filter Cake: 1.00 inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
50.00	MUD	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:

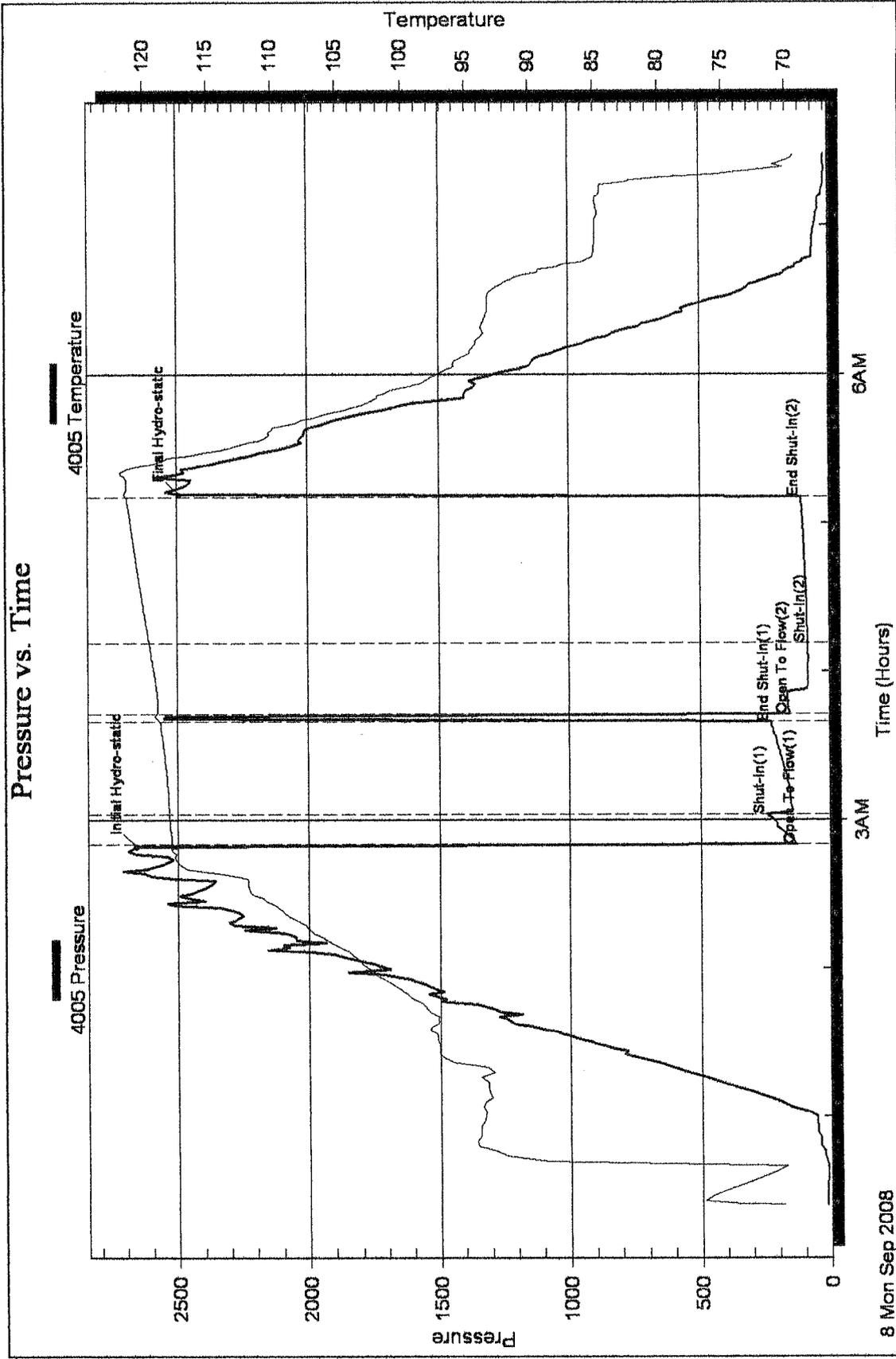
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F.G. HOLL COMPANY LLC

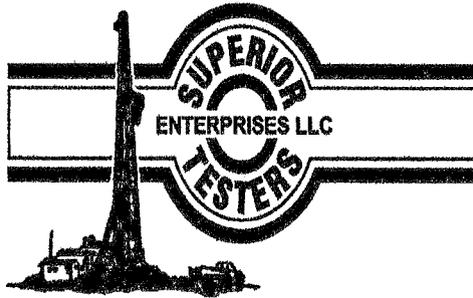
32-34S-19W COMANCHE

DST Test Number: 2

Pressure vs. Time



8 Mon Sep 2008



DRILL STEM TEST REPORT

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

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

ATTN: BILL REE

32-34S-19W COMANCHE

WOOLFOLK #1-32

Start Date: 2008.09.08 @ 20:49:00

End Date: 2008.09.09 @ 03:45:16

Job Ticket #: 16136 DST #: 3

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PO Box 138 Great Bend KS 67530
1-800-792-6902

Printed: 2008.09.10 @ 18:45:14 Page 1

F.G. HOLL COMPANY LLC

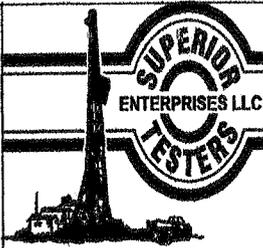
WOOLFOLK #1-32

32-34S-19W COMANCHE

DST # 3

MISSISSIPPI

2008.09.08



DRILL STEM TEST REPORT

F.G. HOLL COMPANY LLC

WOOLFOLK #1-32

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

32-34S-19W COMANCHE

Job Ticket: 16136 DST#: 3

ATTN: BILL REE

Test Start: 2008.09.08 @ 20:49:00

GENERAL INFORMATION:

Formation: **MISSISSIPPI**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 23:51:16

Time Test Ended: 03:45:16

Test Type: Conventional Bottom Hole

Tester: FRANK ZAMARRIPA

Unit No: 3335 30 PROTECTION

Interval: **5338.00 ft (KB) To 5390.00 ft (KB) (TVD)**

Total Depth: 5390.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 1789.00 ft (KB)

1776.00 ft (CF)

KB to GR/CF: 13.00 ft

Serial #: 4005

Press@RunDepth: 62.65 psig @ ft (KB)

Start Date: 2008.09.08

End Date: 2008.09.09

Start Time: 20:49:01

End Time: 03:45:16

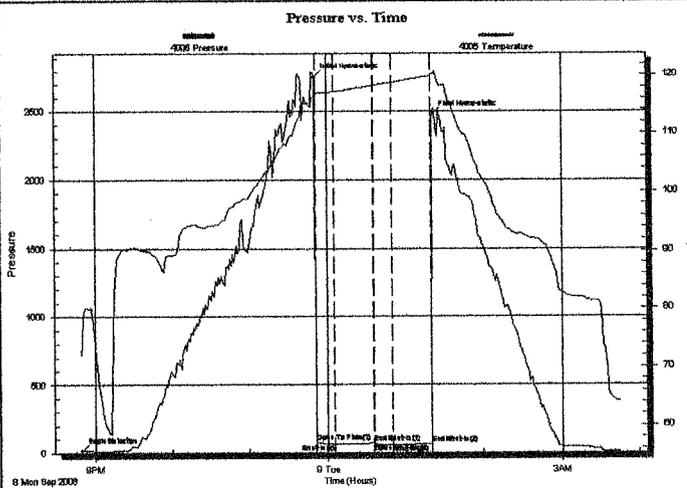
Capacity: 3000.00 psig

Last Calib.: 1899.12.30

Time On Btm: 2008.09.08 @ 23:50:15

Time Off Btm: 2008.09.09 @ 01:21:45

TEST COMMENT: 15-WEAK SURFACE BLOW DIED OFF IN 5 MINUTES
30-NO BLOW BACK
15-NO BLOW
30-NO BLOW BACK



PRESSURE SUMMARY

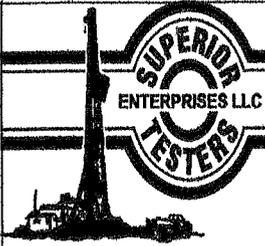
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	15.32	72.11	Begin Selection
182	2757.63	116.37	Initial Hydro-static
183	80.77	116.31	Open To Flow (1)
197	65.60	117.15	Shut-In(1)
227	72.82	118.20	End Shut-In(1)
228	64.48	118.24	Open To Flow (2)
242	62.65	118.78	Shut-In(2)
272	68.99	119.91	End Shut-In(2)
273	2480.64	120.23	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
10.00	MUD 100%	0.15

Gas Rates

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



DRILL STEM TEST REPORT

TOOL DIAGRAM

F.G. HOLL COMPANY LLC

WOOLFOLK #1-32

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

32-34S-19W COMANCHE

Job Ticket: 16136

DST#: 3

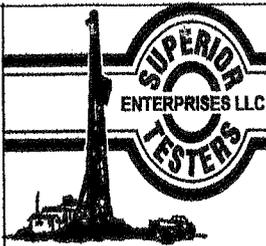
ATTN: BILL REE

Test Start: 2008.09.08 @ 20:49:00

Tool Information

Drill Pipe:	Length: 5311.00 ft	Diameter: 3.88 inches	Volume: 77.67 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: 80000.00 lb
			Total Volume: 77.67 bbl	Tool Chased ft
Drill Pipe Above KB:	2.00 ft			String Weight: Initial 58000.00 lb
Depth to Top Packer:	5338.00 ft			Final 58000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	52.44 ft			
Tool Length:	81.44 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			5311.00	
S.I. Tool	5.00			5316.00	
HYD S.I. Tool	5.00			5321.00	
Jars	5.00			5326.00	
Safety Joint	2.00			5328.00	
Packer	5.00			5333.00	29.00 Bottom Of Top Packer
Packer	5.00			5338.00	
C.O. Sub	0.75			5338.75	
Drill Pipe	30.94			5369.69	
C.O. Sub	0.75			5370.44	
Perforations	15.00			5385.44	
Bullnose	5.00			5390.44	52.44 Bottom Packers & Anchor
Total Tool Length:		81.44			



DRILL STEM TEST REPORT

FLUID SUMMARY

F.G. HOLL COMPANY LLC

WOOLFOLK #1-32

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

32-34S-19W COMANCHE

Job Ticket: 16136

DST#: 3

ATTN: BILL REE

Test Start: 2008.09.08 @ 20:49:00

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: 85.00 sec/qt	Cushion Volume: bbl		
Water Loss: 9.58 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 5500.00 ppm			
Filter Cake: 1.00 inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
10.00	MUD 100%	0.146

Total Length: 10.00 ft Total Volume: 0.146 bbl

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

Laboratory Name: Laboratory Location:

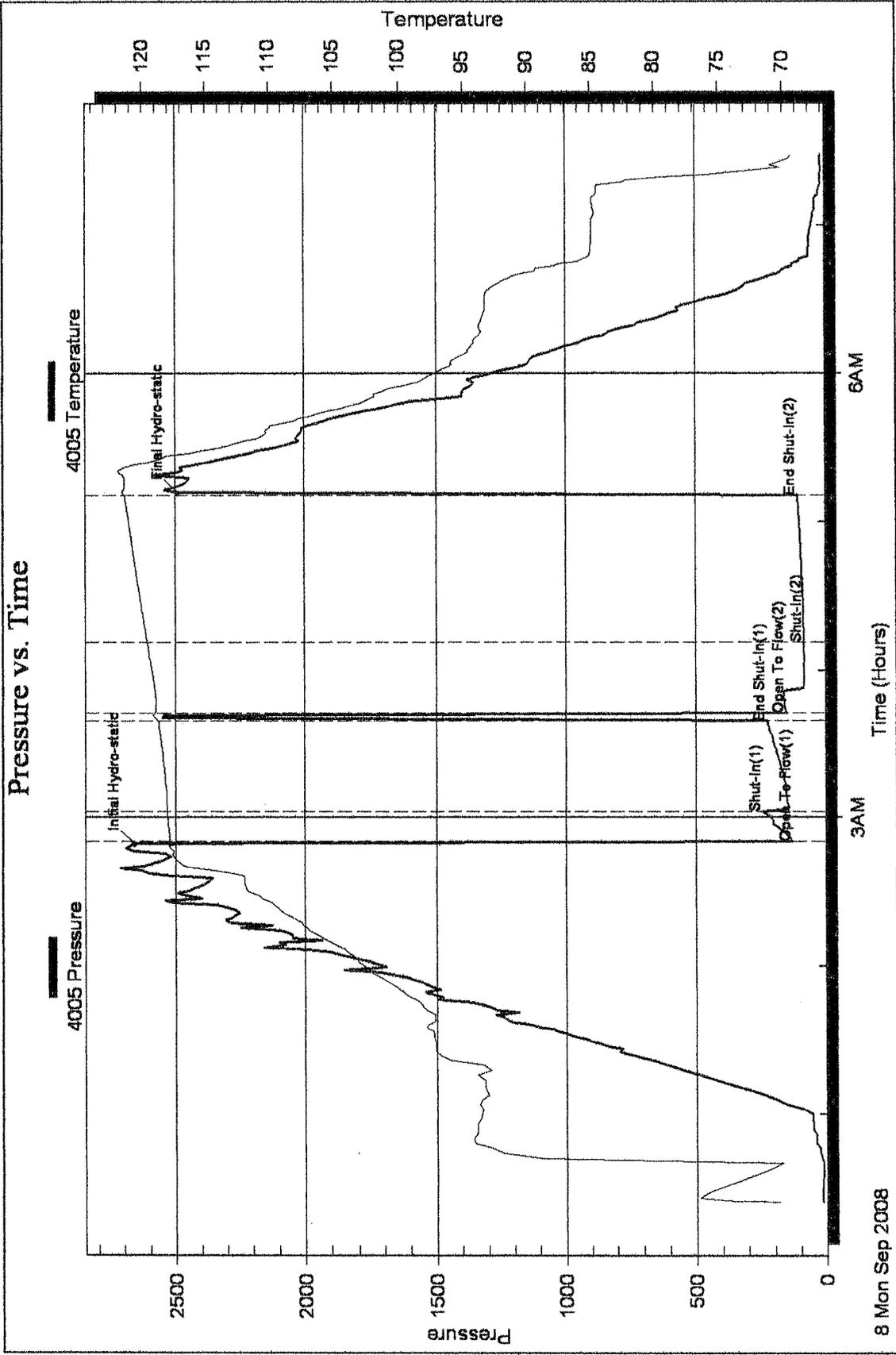
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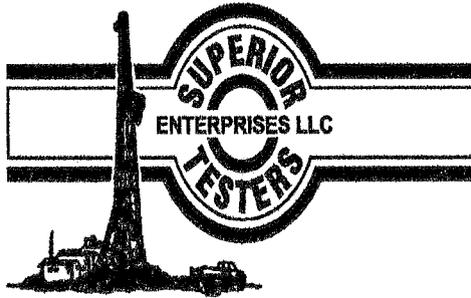
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F.G. HOLL COMPANY LLC

32-34S-19W COMANCHE

DST Test Number: 3





DRILL STEM TEST REPORT

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

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

ATTN: BILL REE

32-34S-19W COMANCHE

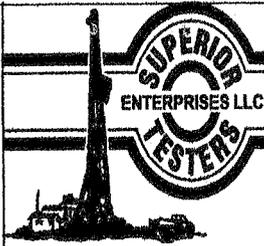
WOOLFOLK #1-32

Start Date: 2008.09.10 @ 08:00:00

End Date: 2008.09.10 @ 15:44:16

Job Ticket #: 16137 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

WOOLFOLK #1-32

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

32-34S-19W COMANCHE

ATTN: BILL REE

Job Ticket: 16137

DST#: 4

Test Start: 2008.09.10 @ 08:00:00

GENERAL INFORMATION:

Formation: **MISSISSIPPI**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 10:35:16

Time Test Ended: 15:44:16

Test Type: Conventional Bottom Hole

Tester: FRANK ZAMARRIPA

Unit No: 3335 30 PROTECTION

Interval: **5537.00 ft (KB) To 5619.00 ft (KB) (TVD)**

Total Depth: 5619.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 1789.00 ft (KB)

1776.00 ft (CF)

KB to GR/CF: 13.00 ft

Serial #: 4005

Press@RunDepth: 152.83 psig @ ft (KB)

Capacity: 3000.00 psig

Start Date: 2008.09.10

End Date: 2008.09.10

Last Calib.: 1899.12.30

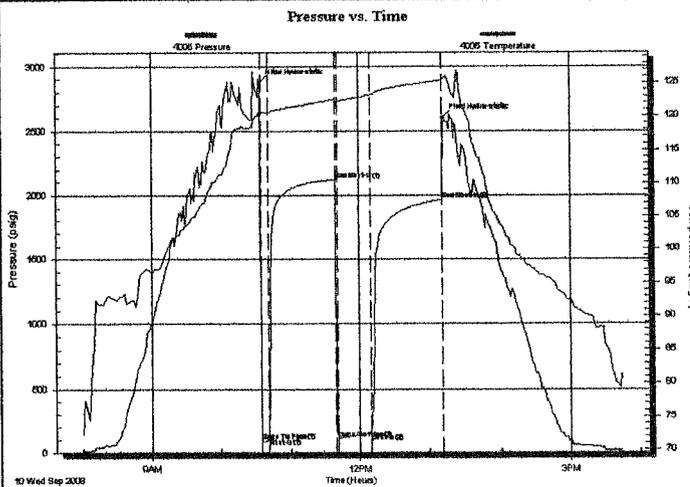
Start Time: 08:00:01

End Time: 15:44:16

Time On Btm: 2008.09.10 @ 10:34:15

Time Off Btm: 2008.09.10 @ 13:12:15

TEST COMMENT: 5-STRONG BLOW TO BOTTOM OF 5 GALLON BUCKET IN 2 MINUTES
60-NO BLOW BACK
30-WEAK BUILDING BLOW BUILT TO BOTTOM OF 5 GALLON BUCKET IN 9 MINUTES
60-NO BLOW BACK



PRESSURE SUMMARY

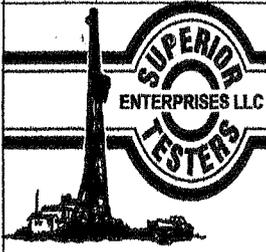
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2873.00	120.72	Initial Hydro-static
2	92.49	120.57	Open To Flow (1)
8	118.48	120.55	Shut-In(1)
65	2118.64	122.55	End Shut-In(1)
68	111.29	122.39	Open To Flow (2)
96	152.83	123.24	Shut-In(2)
158	1965.71	125.39	End Shut-In(2)
158	2600.33	125.51	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
240.00	MUDDY WATER 25 % MUD 75 % WAT	3.37

Gas Rates

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



DRILL STEM TEST REPORT

TOOL DIAGRAM

F.G. HOLL COMPANY LLC

WOOLFOLK #1-32

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

32-34S-19W COMANCHE

Job Ticket: 16137

DST#: 4

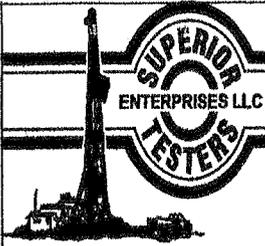
ATTN: BILL REE

Test Start: 2008.09.10 @ 08:00:00

Tool Information

Drill Pipe:	Length: 5510.00 ft	Diameter: 3.80 inches	Volume: 77.29 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: 75000.00 lb
			Total Volume: 77.29 bbl	Tool Chased ft
Drill Pipe Above KB:	3.00 ft			String Weight: Initial 62000.00 lb
Depth to Top Packer:	5537.00 ft			Final 70000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	83.70 ft			
Tool Length:	113.70 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			5509.00	
S.I. Tool	5.00			5514.00	
HYD S.I. Tool	5.00			5519.00	
Jars	6.00			5525.00	
Safety Joint	2.00			5527.00	
Packer	5.00			5532.00	30.00 Bottom Of Top Packer
Packer	5.00			5537.00	
C.O. Sub	0.75			5537.75	
Drill Pipe	62.20			5599.95	
C.O. Sub	0.75			5600.70	
Perforations	15.00			5615.70	
Bullnose	5.00			5620.70	83.70 Bottom Packers & Anchor
Total Tool Length:		113.70			



DRILL STEM TEST REPORT

FLUID SUMMARY

F.G. HOLL COMPANY LLC

WOOLFOLK #1-32

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

32-34S-19W COMANCHE

Job Ticket: 16137

DST#: 4

ATTN: BILL REE

Test Start: 2008.09.10 @ 08:00:00

Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	ppm
Viscosity: 48.00 sec/qt	Cushion Volume: bbl		
Water Loss: 10.39 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 7000.00 ppm			
Filter Cake: 1.00 inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
240.00	MUDDY WATER 25 % MUD 75 % WATER	3.367

Total Length: 240.00 ft Total Volume: 3.367 bbl

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

Laboratory Name: Laboratory Location:

Recovery Comments:

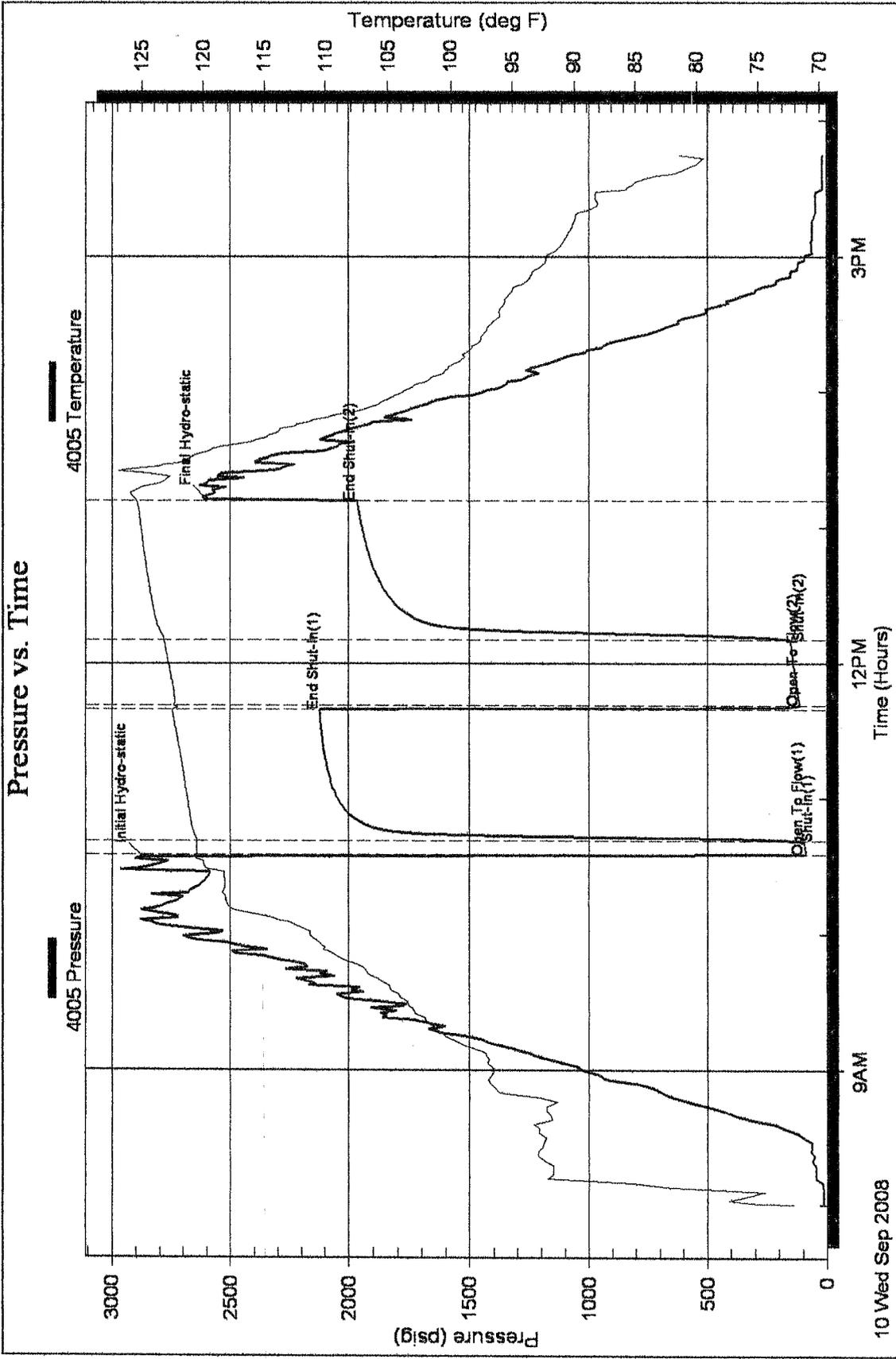
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F.G. HOLL COMPANY LLC

32-34S-19W COMANCHE

DST Test Number: 4

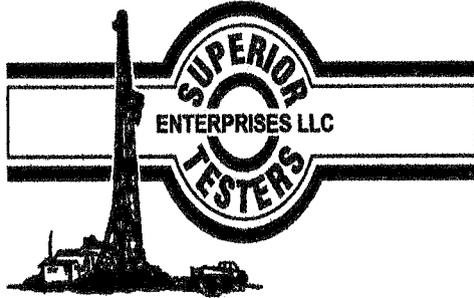
Pressure vs. Time



Ref. No: 16137

Superior Testers Enterprises LLC

Printed: 2008.09.10 @ 18:44:53 Page 5



DRILL STEM TEST REPORT

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

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

ATTN: BILL REE

32-34S-19W COMANCHE

WOOLFOLK #1-32

Start Date: 2008.09.13 @ 17:20:00

End Date: 2008.09.14 @ 02:14:00

Job Ticket #: 16138 DST #: 5

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

Printed: 2008.09.16 @ 08:51:04

F.G. HOLL COMPANY LLC

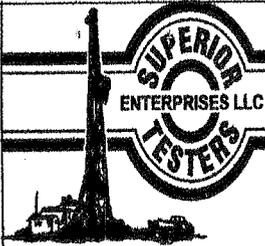
WOOLFOLK #1-32

32-34S-19W COMANCHE

DST # 5

VIOLA

2008.09.13



DRILL STEM TEST REPORT

F.G. HOLL COMPANY LLC

WOOLFOLK #1-32

9431 E CENTRAL SUITE 100
WICHITA KS. 67206-2563

32-34S-19W COMANCHE

ATTN: BILL REE

Job Ticket: 16138

DST#: 5

Test Start: 2008.09.13 @ 17:20:00

GENERAL INFORMATION:

Formation: **VIOLA**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 20:40:00

Time Test Ended: 02:14:00

Test Type: Conventional Bottom Hole (Initial)

Tester: JARED SCHECK

Unit No: 3335- 255- GB

Interval: **6245.00 ft (KB) To 6267.00 ft (KB) (TVD)**

Total Depth: 6267.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 1789.00 ft (KB)

1776.00 ft (CF)

KB to GR/CF: 13.00 ft

Serial #: 8405

Press@RunDepth: 66.34 psig @ ft (KB)

Start Date: 2008.09.13

End Date: 2008.09.14

Start Time: 17:22:00

End Time: 02:14:00

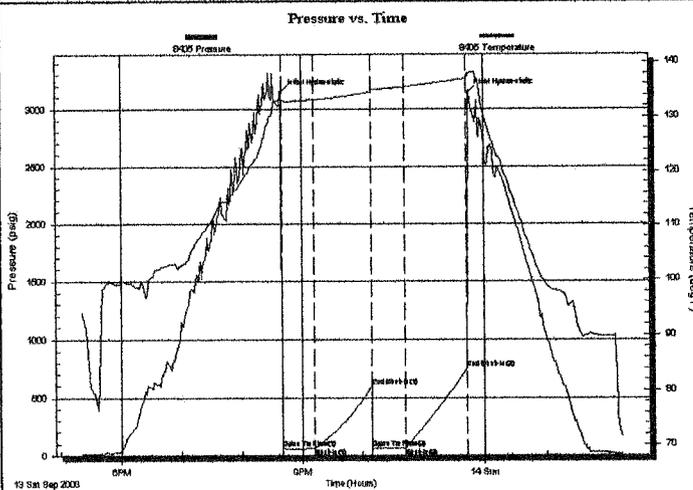
Capacity: 5000.00 psig

Last Calib.: 2008.09.14

Time On Btm: 2008.09.13 @ 20:39:30

Time Off Btm: 2008.09.13 @ 23:45:00

TEST COMMENT: 30/INITIAL OPEN:FAIR BLOW BUILT BOTTOM OF BUCKET IN 12 MINUTES
60/INITIAL SHUT IN:NO BLOW BACK
30/FINAL OPEN:FAIR BLOW/BUILT BOTTOM OF BUCKET IN 3 MINUTES
60/FINAL SHUT IN:NO BLOW BACK



PRESSURE SUMMARY

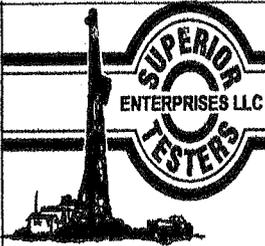
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	3139.99	133.50	Initial Hydro-static
1	63.78	132.94	Open To Flow (1)
32	64.65	133.14	Shut-in(1)
90	596.89	134.53	End Shut-in(1)
90	65.03	134.66	Open To Flow (2)
123	66.34	135.47	Shut-in(2)
184	748.67	136.95	End Shut-in(2)
186	3136.76	137.50	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
90.00	MUDDY WATER 5%W 95%M	1.26

Gas Rates

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



DRILL STEM TEST REPORT

TOOL DIAGRAM

F.G. HOLL COMPANY LLC

WOOLFOLK #1-32

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

32-34S-19W COMANCHE

Job Ticket: 16138

DST#: 5

ATTN: BILL REE

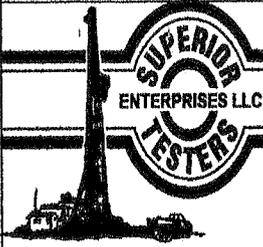
Test Start: 2008.09.13 @ 17:20:00

Tool Information

Drill Pipe:	Length: 6244.00 ft	Diameter: 3.80 inches	Volume: 87.59 bbl	Tool Weight: 10000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 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: 90000.00 lb
			Total Volume: 87.59 bbl	Tool Chased 0.00 ft
Drill Pipe Above KB:	28.00 ft			String Weight: Initial 71000.00 lb
Depth to Top Packer:	6245.00 ft			Final 71000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	22.00 ft			
Tool Length:	51.00 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			6218.00	
S.I. Tool	5.00			6223.00	
HYD S.I. Tool	5.00			6228.00	
Jars	5.00			6233.00	
Safety Joint	2.00			6235.00	
Packer	5.00			6240.00	29.00 Bottom Of Top Packer
Packer	5.00			6245.00	
Perforations	17.00			6262.00	
Bullnose	5.00			6267.00	22.00 Bottom Packers & Anchor
Total Tool Length:	51.00				



DRILL STEM TEST REPORT

FLUID SUMMARY

F.G. HOLL COMPANY LLC

WOOLFOLK #1-32

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

32-34S-19W COMANCHE

Job Ticket: 16138

DST#: 5

ATTN: BILL REE

Test Start: 2008.09.13 @ 17:20:00

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: 9.59 in ^s	Gas Cushion Type:		
Resistivity: 0.40 ohm.m	Gas Cushion Pressure: psig		
Salinity: 6500.00 ppm			
Filter Cake: 1.00 inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
90.00	MUDDY WATER 5%W 95%M	1.262

Total Length: 90.00 ft Total Volume: 1.262 bbl

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

Laboratory Name: Laboratory Location:

Recovery Comments: 22,000 CHLORIES .4 RESISTIVITY @ 60 DEGREES

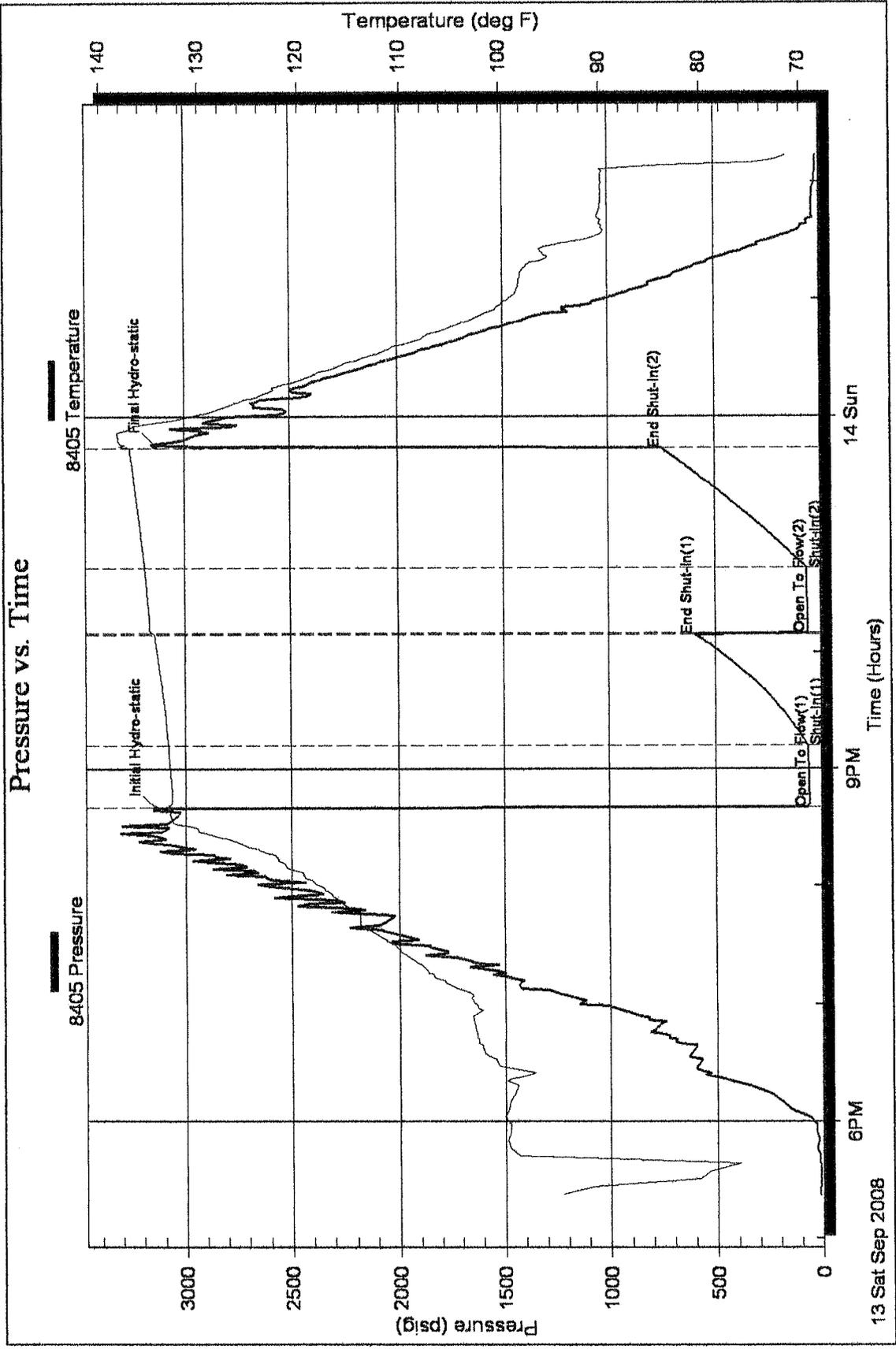
DST Test Number: 5

32-34S-19W COMANCHE

F.G. HOLL COMPANY LLC

Serial #: 8405

Pressure vs. Time



Printed: 2008.09.16 @ 08:51:05

Ref. No: 16138

Superior Testers Enterprises LLC

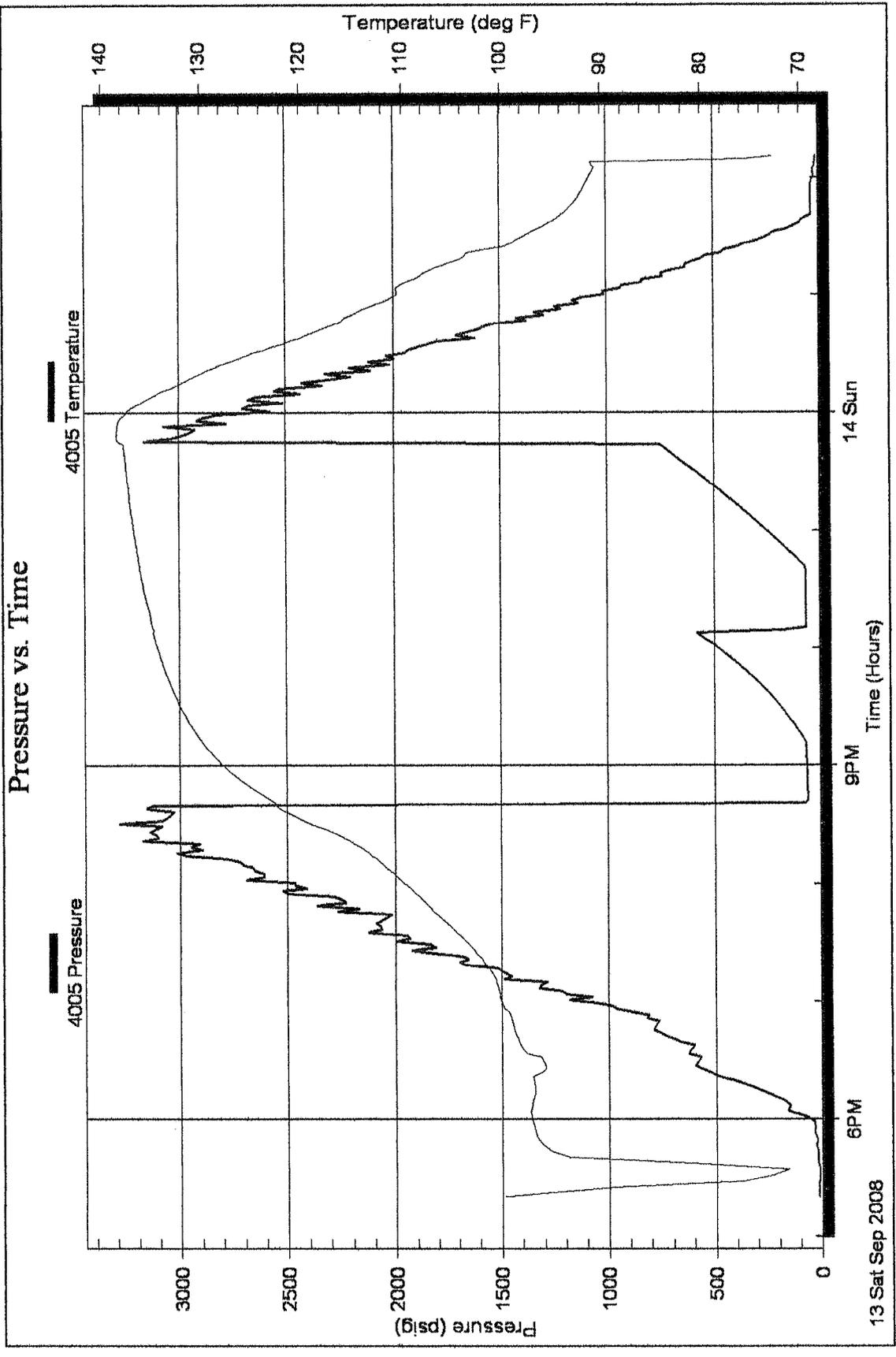
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F.G. HOLL COMPANY LLC

32-34S-19W COMANCHE

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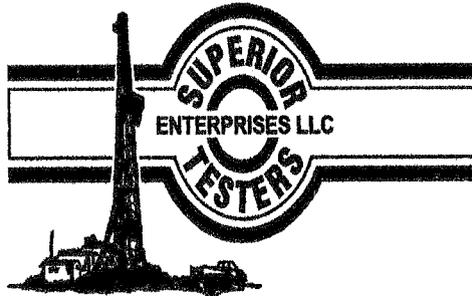
Pressure vs. Time



Printed: 2008.09.16 @ 08:51:05

Ref. No: 16138

Superior Testers Enterprises LLC



DRILL STEM TEST REPORT

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

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

ATTN: BILL REE

32-34S-19W COMANCHE

WOOLFOLK #1-32

Start Date: 2008.09.15 @ 00:20:00

End Date: 2008.09.15 @ 08:27:30

Job Ticket #: 16139 DST #: 6

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

Printed: 2008.09.16 @ 09:05:11

F.G. HOLL COMPANY LLC

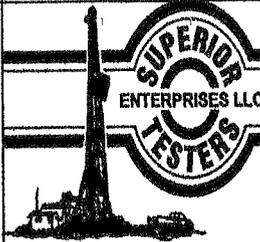
WOOLFOLK #1-32

32-34S-19W COMANCHE

DST # 6

VIOLA

2008.09.15



DRILL STEM TEST REPORT

F.G. HOLL COMPANY LLC

WOOLFOLK #1-32

9431 E CENTRAL SUITE 100
WICHITA KS. 67206-2563

32-34S-19W COMANCHE

Job Ticket: 16139

DST#: 6

ATTN: BILL REE

Test Start: 2008.09.15 @ 00:20:00

GENERAL INFORMATION:

Formation: **VIOLA**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 03:16:30

Time Test Ended: 08:27:30

Test Type: Conventional Bottom Hole (Initial)

Tester: JARED SCHECK

Unit No: 3335-225-GB

Interval: **6355.00 ft (KB) To 6388.00 ft (KB) (TVD)**

Reference Elevations: 1789.00 ft (KB)

Total Depth: 6388.00 ft (KB) (TVD)

1776.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 13.00 ft

Serial #: 8405

Press@RunDepth: 67.73 psig @ ft (KB)

Capacity: 5000.00 psig

Start Date: 2008.09.15

End Date:

2008.09.15

Last Calib.: 2008.09.15

Start Time: 00:22:00

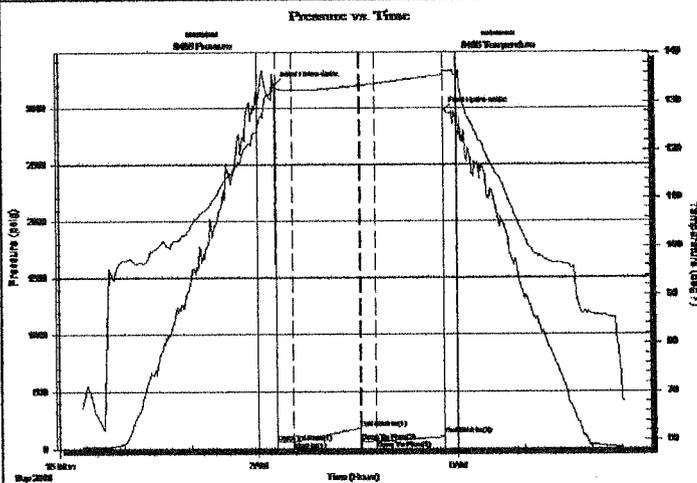
End Time:

08:27:30

Time On Btm: 2008.09.15 @ 03:16:00

Time Off Btm: 2008.09.15 @ 05:48:00

TEST COMMENT: 15/INITIAL OPEN:WEAK BLOW BUILT 1/2 INTO BUCKET IN 15 MINUTES
60/INITIAL SHUT IN:NO BLOW BACK
15/FIANL OPEN:WEAK SURFACE BLOW DID NOT BUILD
60/FIANL SHUT IN:NO BLOW BACK



PRESSURE SUMMARY

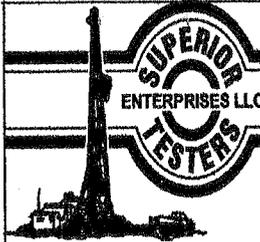
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	3198.47	133.84	Initial Hydro-static
1	58.29	132.78	Open To Flow (1)
16	67.73	132.47	Shut-In(1)
76	181.09	133.42	End Shut-In(1)
77	67.33	133.38	Open To Flow (2)
90	69.66	133.75	Open To Flow (3)
152	120.05	135.55	End Shut-In(2)
152	2969.80	136.47	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
60.00	MUDDY WATER 50%M 50%W	0.84

Gas Rates

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



DRILL STEM TEST REPORT

F.G. HOLL COMPANY LLC
 9431 E. CENTRAL SUITE 100
 WICHITA KS. 67206-2563
 ATTN: BILL REE

WOOLFOLK #1-32
32-34S-19W COMANCHE
 Job Ticket: 16139 **DST#: 6**
 Test Start: 2008.09.15 @ 00:20:00

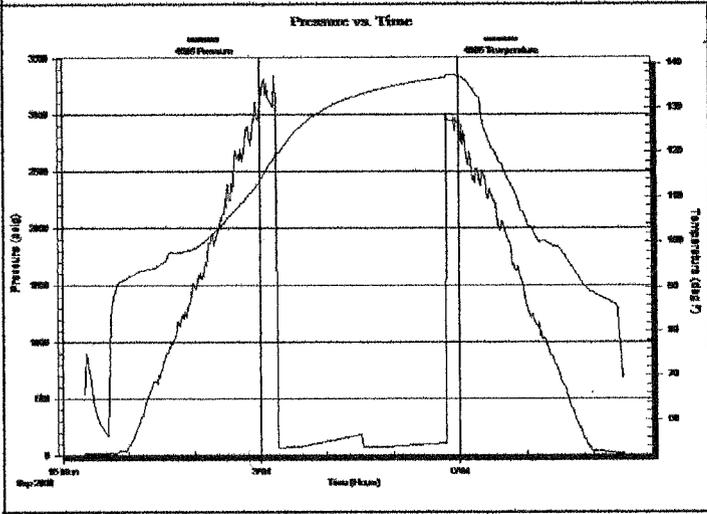
GENERAL INFORMATION:

Formation: **VIOLA**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 03:16:30
 Time Test Ended: 08:27:30
 Interval: **6355.00 ft (KB) To 6388.00 ft (KB) (TVD)**
 Total Depth: 6388.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Initial)
 Tester: JARED SCHECK
 Unit No: 3335-225-GB
 Reference Elevations: 1789.00 ft (KB)
 1776.00 ft (CF)
 KB to GR/CF: 13.00 ft

Serial #: 4005

Press@RunDepth: psig @ ft (KB) Capacity: psig
 Start Date: 2008.09.15 End Date: 2008.09.15 Last Calib.: 1899.12.30
 Start Time: 00:20:01 End Time: 08:28:16 Time On Btm:
 Time Off Btm:

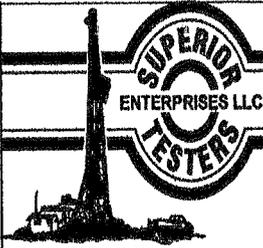
TEST COMMENT: 15/INITIAL OPEN:WEAK BLOW BUILT 1/2 INTO BUCKET IN 15 MINUTES
 60/INITIAL SHUT IN:NO BLOW BACK
 15/FIANL OPEN:WEAK SURFACE BLOW DID NOT BUILD
 60/FIANL SHUT IN:NO BLOW BACK



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

Recovery		
Length (ft)	Description	Volume (bbl)
60.00	MUDDY WATER 50%M 50%W	0.84

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



DRILL STEM TEST REPORT

TOOL DIAGRAM

F.G. HOLL COMPANY LLC

WOOLFOLK #1-32

9431 E CENTRAL SUITE 100
WICHITA KS. 67206-2563

32-34S-19W COMANCHE

Job Ticket: 16139

DST#: 6

ATTN: BILL REE

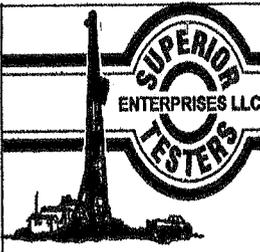
Test Start: 2008.09.15 @ 00:20:00

Tool Information

Drill Pipe:	Length: 6338.00 ft	Diameter: 3.80 inches	Volume: 88.91 bbl	Tool Weight: 10000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 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: 95000.00 lb
			<u>Total Volume: 88.91 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	12.00 ft			String Weight: Initial 71000.00 lb
Depth to Top Packer:	6355.00 ft			Final 71000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	45.00 ft			
Tool Length:	74.00 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			6328.00	
S.I. Tool	5.00			6333.00	
HYD S.I. Tool	5.00			6338.00	
Jars	5.00			6343.00	
Safety Joint	2.00			6345.00	
Packer	5.00			6350.00	29.00 Bottom Of Top Packer
Packer	5.00			6355.00	
Perforations	40.00			6395.00	
Bullnose	5.00			6400.00	45.00 Bottom Packers & Anchor
Total Tool Length:	74.00				



DRILL STEM TEST REPORT

FLUID SUMMARY

F.G. HOLL COMPANY LLC

WOOLFOLK #1-32

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

32-34S-19W COMANCHE

Job Ticket: 16139

DST#: 6

ATTN: BILL REE

Test Start: 2008.09.15 @ 00:20:00

Mud and Cushion Information

Mud Type: Gel Chem
Mud Weight: 9.00 lb/gal
Viscosity: 55.00 sec/qt
Water Loss: 9.59 in³
Resistivity: 0.20 ohm.m
Salinity: 6500.00 ppm
Filter Cake: 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
60.00	MUDDY WATER 50%M 50%W	0.842

Total Length: 60.00 ft Total Volume: 0.842 bbl

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

Laboratory Name: Laboratory Location:

Recovery Comments: 51,000 CHLORIDES RESISTIVITY .2

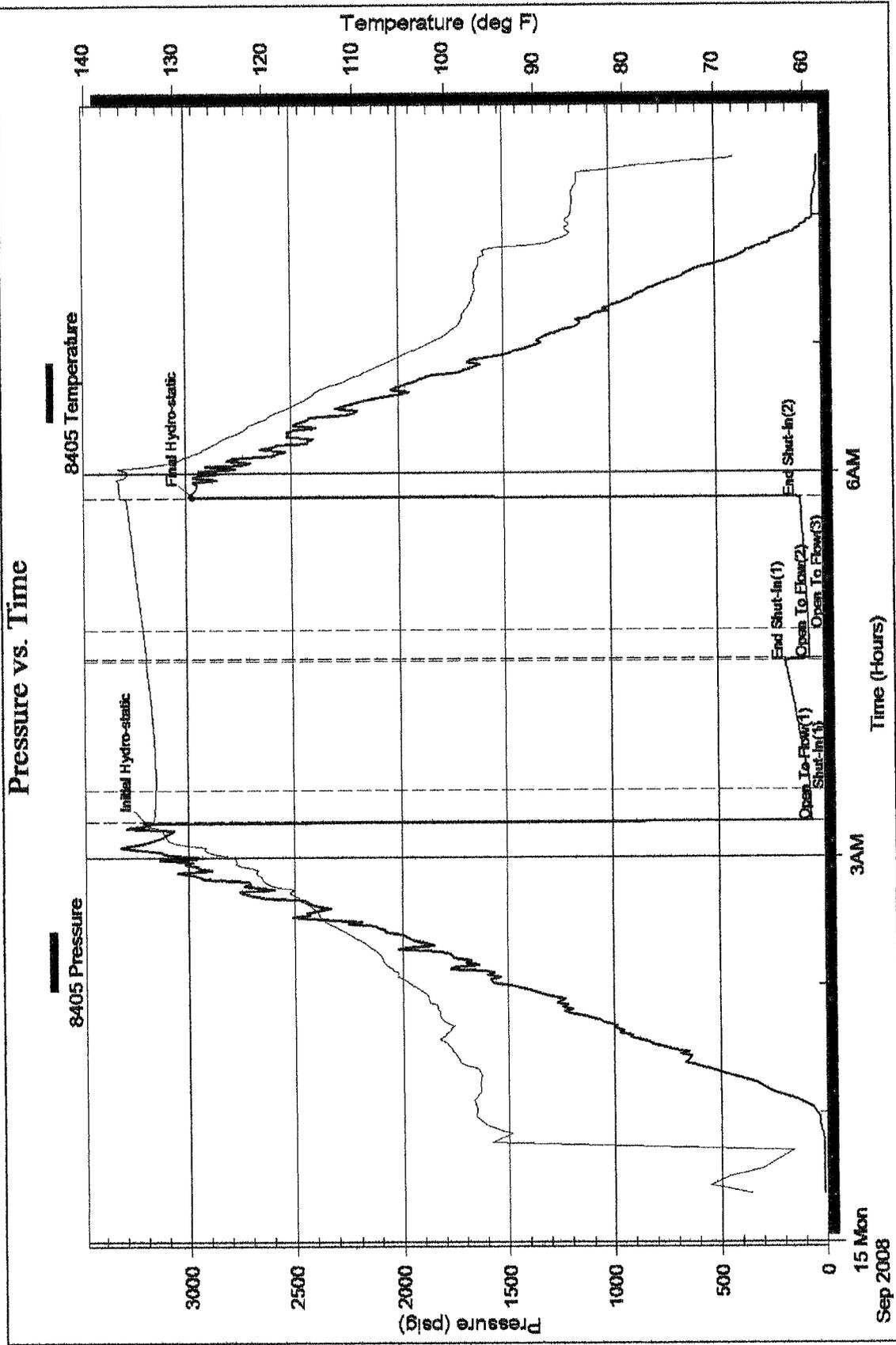
Serial #: 8405

F.G. HOLL COMPANY LLC

32-34S-19W COMANCHE

DST Test Number: 6

Pressure vs. Time



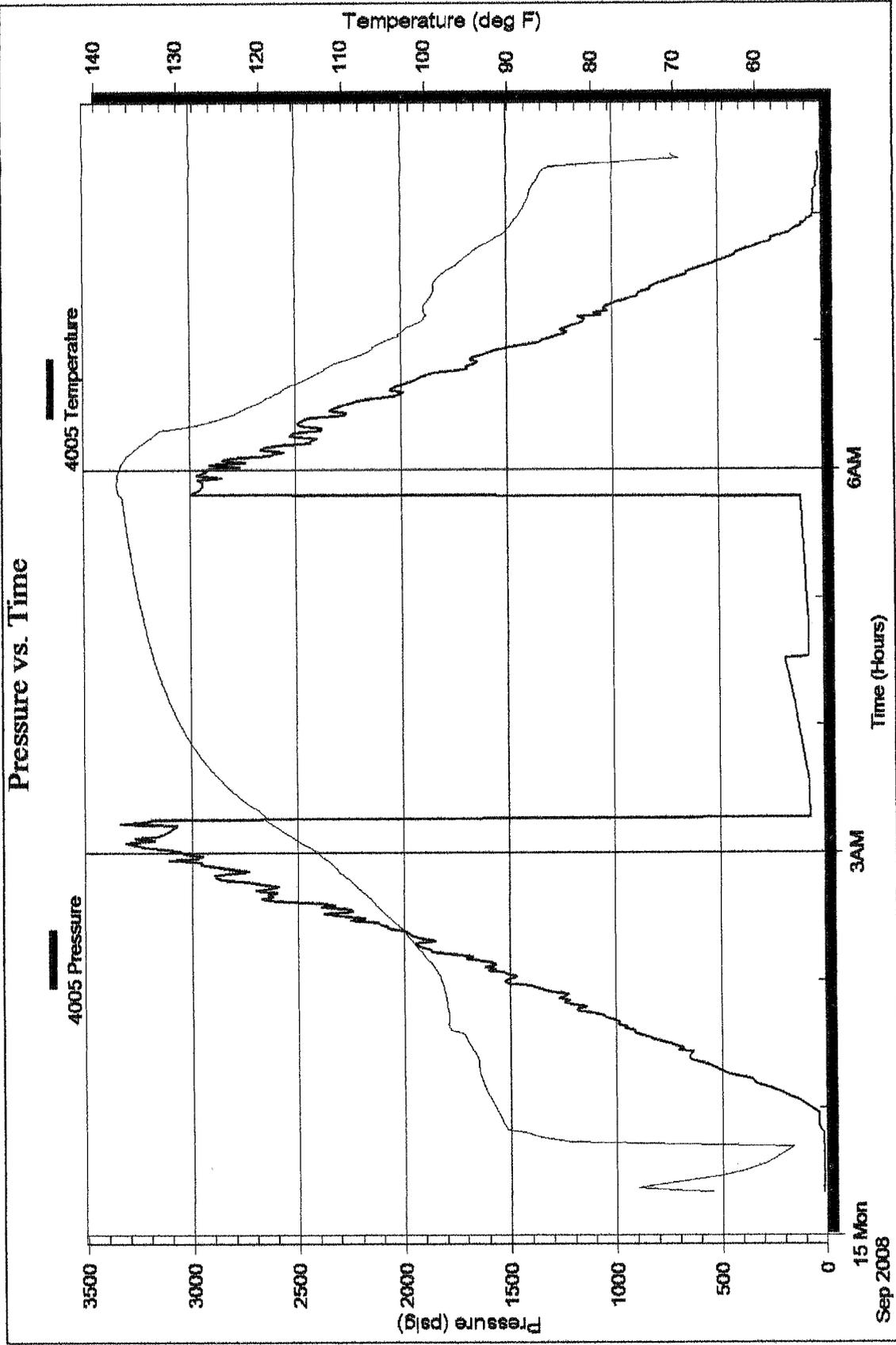
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F.G. HOLL COMPANY LLC

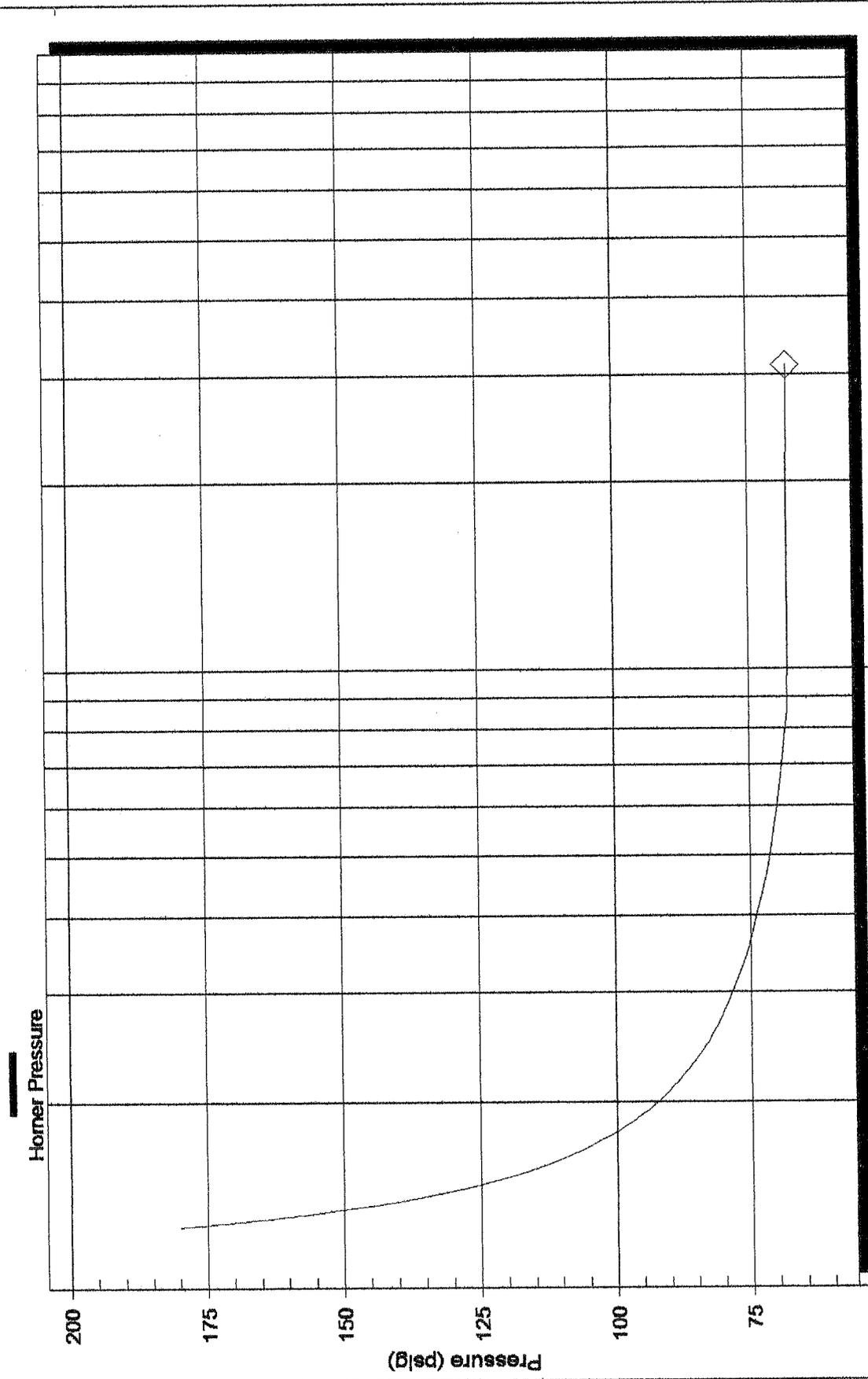
32-34S-19W COMANCHE

DST Test Number: 6

Pressure vs. Time



Horner Plot



Horner Time: (Twf + dt) / dt

Slope (m) : kpa/log cycle

P* :

Serial Number: 8405 0

Flow Cycle: 1

Log-Log and Pseudo-Derivative

Derivative Pressure

10³

10²

10¹

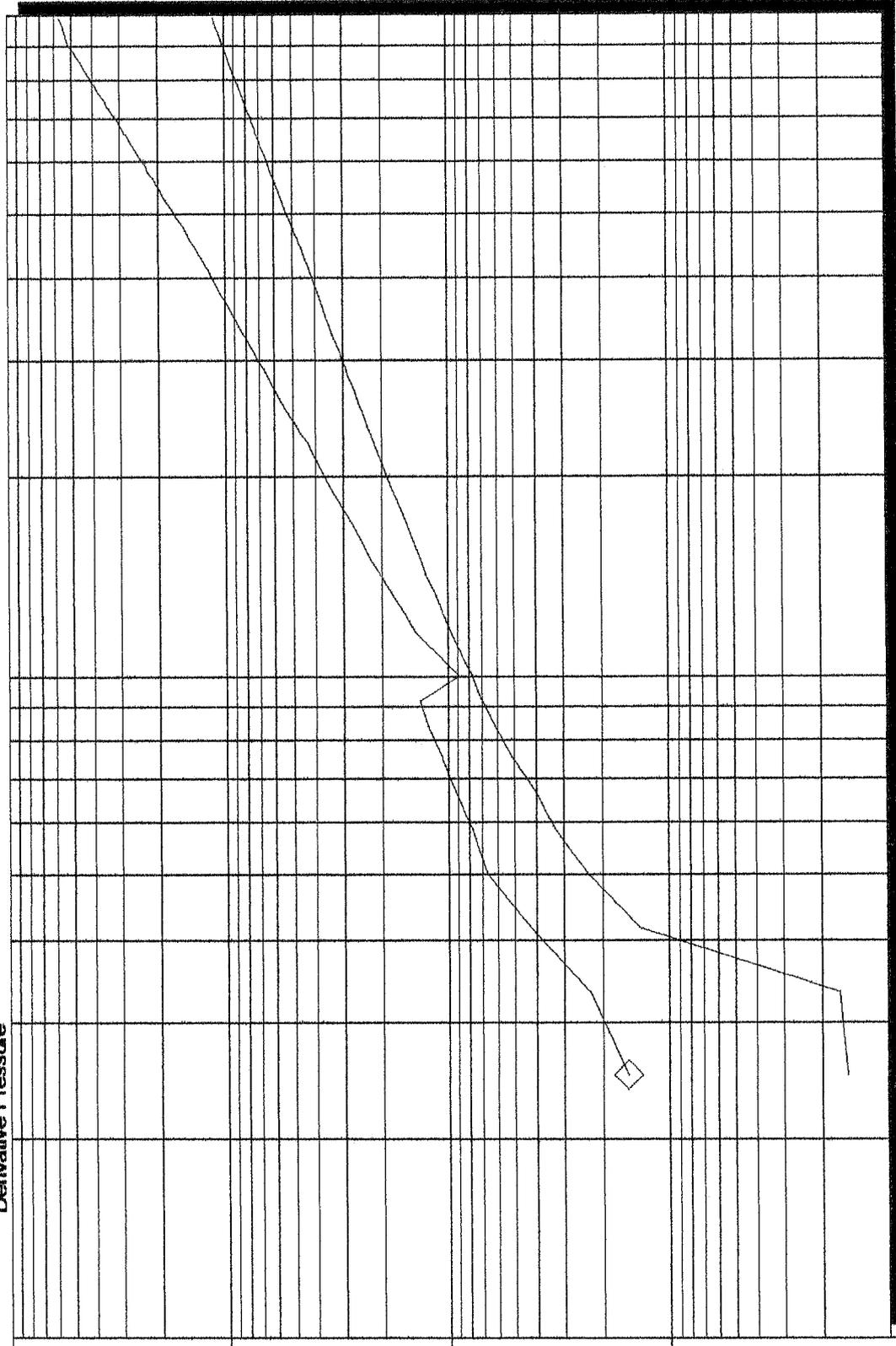
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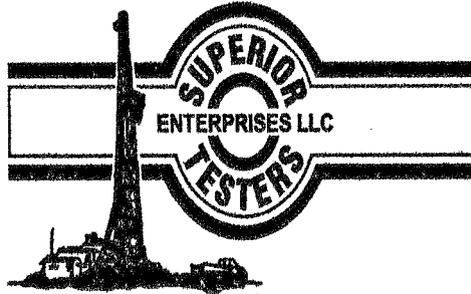
Pressure (psig)

10⁻²

10⁻¹

Elapsed Time (dt)





DRILL STEM TEST REPORT

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

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

ATTN: BILL REE

32-34S-19W COMANCHE

WOOLFOLK #1-32

Start Date: 2008.09.17 @ 18:15:00

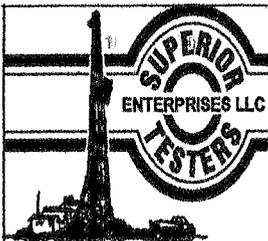
End Date: 2008.09.18 @ 03:36:30

Job Ticket #: 16140 DST #: 7

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

Printed: 2008.09.18 @ 04:18:53

F.G. HOLL COMPANY LLC
WOOLFOLK #1-32
32-34S-19W COMANCHE
DST # 7
ARBUCKLE
2008.09.17



DRILL STEM TEST REPORT

F.G. HOLL COMPANY LLC

WOOLFOLK #1-32

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

32-34S-19W COMANCHE

ATTN: BILL REE

Job Ticket: 16140

DST#: 7

Test Start: 2008.09.17 @ 18:15:00

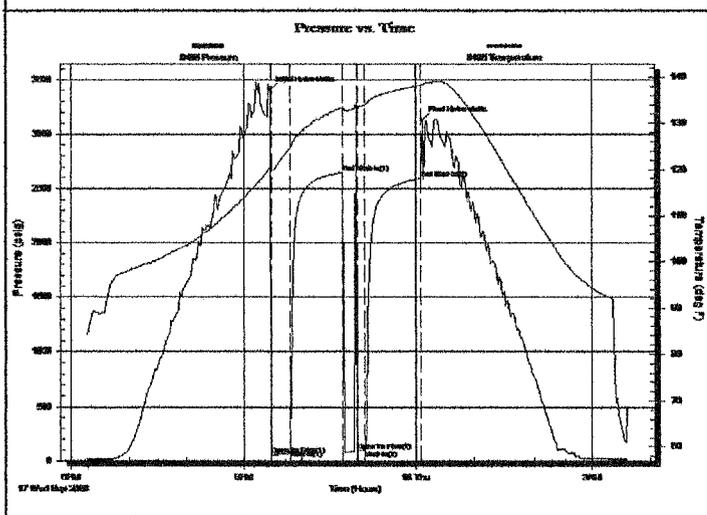
GENERAL INFORMATION:

Formation: **AREBUCKLE**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 21:29:00
 Time Test Ended: 03:36:30
 Interval: **6669.00 ft (KB) To 6681.00 ft (KB) (TVD)**
 Total Depth: 6690.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Straddle (Initial)
 Tester: FRANK ZAMARRIPA
 Unit No: 3335 268 GB
 Reference Elevations: 1789.00 ft (KB)
 1776.00 ft (CF)
 KB to GR/CF: 13.00 ft

Serial #: 8405

Press@RunDepth: 100.95 psig @ ft (KB) Capacity: 4000.00 psig
 Start Date: 2008.09.17 End Date: 2008.09.18 Last Calib.: 1899.12.30
 Start Time: 18:15:00 End Time: 03:36:30 Time On Btm: 2008.09.17 @ 21:27:30
 Time Off Btm: 2008.09.18 @ 00:06:30

TEST COMMENT: 15-INITIAL OPEN:WEAK BLOW DIED OF RIGHT AWAY
 60-INITIAL SHUT-IN:NO BLOW BACK
 15-FINAL OPEN:NO BLOW,FLUSHED TOOL GOOD SURGE,NO BLOW
 60-FINAL SHUT-IN:NO BLOW BACK



PRESSURE SUMMARY

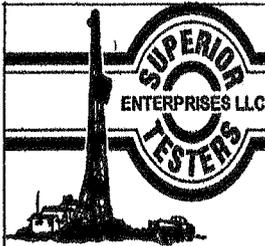
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	3405.71	120.43	Initial Hydro-static
2	59.64	119.69	Open To Flow (1)
22	105.75	124.68	Shut-In(1)
77	2648.25	133.45	End Shut-In(1)
92	96.31	133.47	Open To Flow (2)
99	100.95	133.91	Shut-In(2)
158	2594.72	138.21	End Shut-In(2)
159	3127.54	138.46	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
130.00	MUD 100%	0.64

Gas Rates

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



DRILL STEM TEST REPORT

TOOL DIAGRAM

F.G. HOLL COMPANY LLC

WOOLFOLK #1-32

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

32-34S-19W COMANCHE

Job Ticket: 16140

DST#: 7

ATTN: BILL REE

Test Start: 2008.09.17 @ 18:15:00

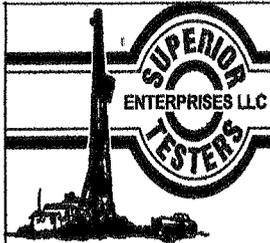
Tool Information

Drill Pipe:	Length: 6462.86 ft	Diameter: 3.80 inches	Volume: 90.66 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: 181.64 ft	Diameter: 2.25 inches	Volume: 0.89 bbl	Weight to Pull Loose: 110000.0 lb
			<u>Total Volume: 91.55 bbl</u>	Tool Chased ft
Drill Pipe Above KB:	4.50 ft			String Weight: Initial 90000.00 lb
Depth to Top Packer:	6669.00 ft			Final 90000.00 lb
Depth to Bottom Packer:	6675.00 ft			
Interval between Packers:	6.00 ft			
Tool Length:	49.00 ft			
Number of Packers:	3	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
C.O. Sub	1.00			6641.00	
S.I. Tool	5.00			6646.00	
HYD S.I. Tool	5.00			6651.00	
Jars	6.00			6657.00	
Safety Joint	2.00			6659.00	
Packer	5.00			6664.00	29.00 Bottom Of Top Packer
Packer	5.00			6669.00	
Perforations	5.00			6674.00	
Blank Spacing	1.00			6675.00	6.00 Tool Interval
Packer	5.00			6680.00	
Perforations	4.00			6684.00	
Bullnose	5.00			6689.00	14.00 Bottom Packers & Anchor

Total Tool Length: 49.00



DRILL STEM TEST REPORT

FLUID SUMMARY

F.G. HOLL COMPANY LLC

WOOLFOLK #1-32

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

32-34S-19W COMANCHE

Job Ticket: 16140

DST#: 7

ATTN: BILL REE

Test Start: 2008.09.17 @ 18:15:00

Mud and Cushion Information

Mud Type: Gel Chem
Mud Weight: 9.00 lb/gal
Viscosity: 50.00 sec/qt
Water Loss: 18.20 in³
Resistivity: ohm.m
Salinity: 12000.00 ppm
Filter Cake: 3.00 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
130.00	MUD 100%	0.639

Total Length: 130.00 ft Total Volume: 0.639 bbl

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

Laboratory Name: Laboratory Location:

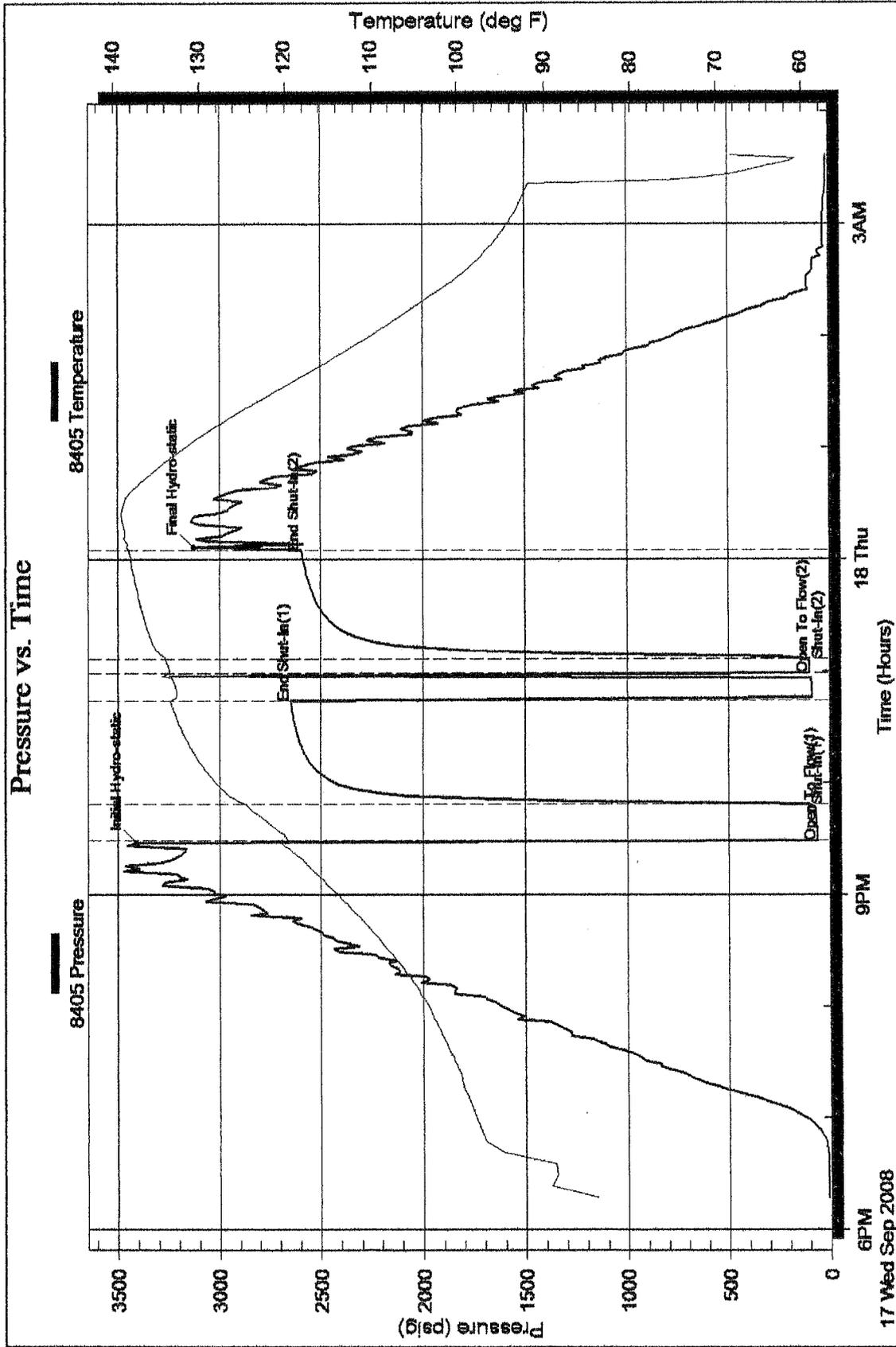
Recovery Comments:

Serial #: 8405

F.G. HOLL COMPANY LLC

32-34S-19W COMANCHE

DST Test Number: 7



Printed: 2008.09.18 @ 04:18:55

Ref. No: 16140

Superior Testers Enterprises LLC

17 Wed Sep 2008

18 Thu

9 PM

3 AM