

DRILL STEM TEST REPORT

Prepared For: **SHELBY RESOURCES L.L.C**

1217 CANAL BLVD SUITE C
HAYS KS 67601

ATTN: DEREK PATTERSON

25-21S-16W-PAWNEE

WFY UNIT #1

Start Date: 2010.02.12 @ 20:00:00

End Date: 2010.02.13 @ 03:21:30

Job Ticket #: 15889 DST #: 1

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

Printed: 2010.02.12 @ 03:19:31

SHELBY RESOURCES L.L.C WFY UNIT #1 25-21S-16W-PAWNEE DST # 1 LKC-G- 2010.02.12



DRILL STEM TEST REPORT

SHELBY RESOURCES L.L.C
 1217 CANAL BLVD SUITE C
 HAYS KS 67601
 ATTN: DEREK PATTERSON

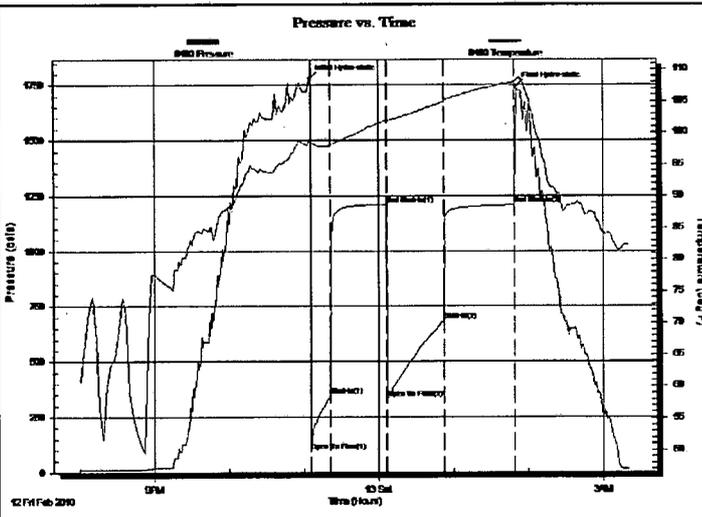
WFY UNIT #1
25-21S-16W-PAWNEE
 Job Ticket: 15889 DST#: 1
 Test Start: 2010.02.12 @ 20:00:00

GENERAL INFORMATION:

Formation: **LKC -G-**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 23:05:30
 Time Test Ended: 03:21:30
 Interval: **3536.00 ft (KB) To 3566.00 ft (KB) (TVD)**
 Total Depth: 3566.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Initial)
 Tester: DAVID NICHOLS
 Unit No: 3345 63 MGB
 Reference Elevations: 1979.00 ft (KB)
 1971.00 ft (CF)
 KB to GR/CF: 8.00 ft

Serial #: 8400 Inside
 Press@RunDepth: 685.53 psia @ 3561.00 ft (KB) Capacity: 5000.00 psia
 Start Date: 2010.02.12 End Date: 2010.02.13 Last Calib.: 2010.02.12
 Start Time: 20:00:00 End Time: 03:21:30 Time On Btm: 2010.02.12 @ 23:04:30
 Time Off Btm: 2010.02.13 @ 01:50:00

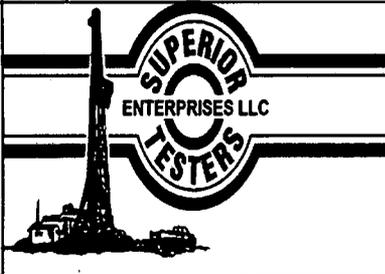
TEST COMMENT: 15-INITIAL OPENING GOOD BLOW BOTTOM OF THE BUCKET IN 3 MINS
 45-INITIAL SHUT IN WEAK BLOW BACK
 45-FINAL OPENING GOOD BLOW BOTTOM OF THE BUCKET IN 4 MINS
 60-FINAL SHUT IN SURFACE BLOW BACK



PRESSURE SUMMARY			
Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1780.05	99.02	Initial Hydro-static
1	97.90	98.11	Open To Flow (1)
17	348.21	97.95	Shut-In(1)
62	1211.78	101.91	End Shut-In(1)
62	333.31	101.69	Open To Flow (2)
108	685.53	104.83	Shut-In(2)
165	1208.85	107.97	End Shut-In(2)
166	1741.58	108.37	Final Hydro-static

Recovery		
Length (ft)	Description	Volume (bbl)
120.00	GAS IN PIPE 100%G	0.59
180.00	MUDDY WATER 30%M70#W	1.76
1160.00	WATER 100%W	16.96
60.00	WATERY MUD50%M50%W	0.88

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



DRILL STEM TEST REPORT

TOOL DIAGRAM

SHELBY RESOURCES L.L.C
 1217 CANAL BLVD SUITE C
 HAYS KS 67601
 ATTN: DEREK PATTERSON

WFY UNIT #1
25-21S-16W-PAWNEE
 Job Ticket: 15889 DST#: 1
 Test Start: 2010.02.12 @ 20:00:00

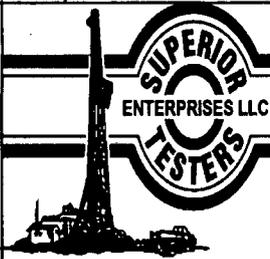
Tool Information

Drill Pipe:	Length: 3300.00 ft	Diameter: 3.88 inches	Volume: 48.26 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: 210.00 ft	Diameter: 2.25 inches	Volume: 1.03 bbl	Weight to Pull Loose: 80.00 lb
			Total Volume: 49.29 bbl	Tool Chased: 0.00 ft
Drill Pipe Above KB:	3.00 ft			String Weight: Initial 64000.00 lb
Depth to Top Packer:	3536.00 ft			Final 70000.00 lb
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	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3508.00	
Shut-In Tool	5.00			3513.00	
Hydroic Tool	5.00			3518.00	
Jars	6.00			3524.00	
Safety Joint	2.00			3526.00	
Packer	5.00			3531.00	29.00 Bottom Of Top Packer
Packer	5.00			3536.00	
Perforations	25.00			3561.00	
Recorder	0.00	8400	Inside	3561.00	
Recorder	0.00	4143	Outside	3561.00	
Bullnose	5.00			3566.00	30.00 Bottom Packers & Anchor

Total Tool Length: 59.00



DRILL STEM TEST REPORT

FLUID SUMMARY

SHELBY RESOURCES L.L.C

WFY UNIT #1

1217 CANAL BLVD SUITE C
HAYS KS 67601

25-21S-16W-PAWNEE

Job Ticket: 15889

DST#: 1

ATTN: DEREK PATTERSON

Test Start: 2010.02.12 @ 20:00:00

Mud and Cushion Information

Mud Type: Gel Chem
Mud Weight: 9.00 lb/gal
Viscosity: 48.00 sec/qt
Water Loss: 14.20 in³
Resistivity: ohm.m
Salinity: 12000.00 ppm
Filter Cake: inches

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

Oil API: deg API
Water Salinity: ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
120.00	GAS IN PIPE 100%G	0.590
180.00	MUDDY WATER 30%M70#W	1.759
1160.00	WATER 100%W	16.964
60.00	WATERY MUD50%M50%W	0.877

Total Length: 1520.00 ft Total Volume: 20.190 bbl

Num Fluid Samples: 0

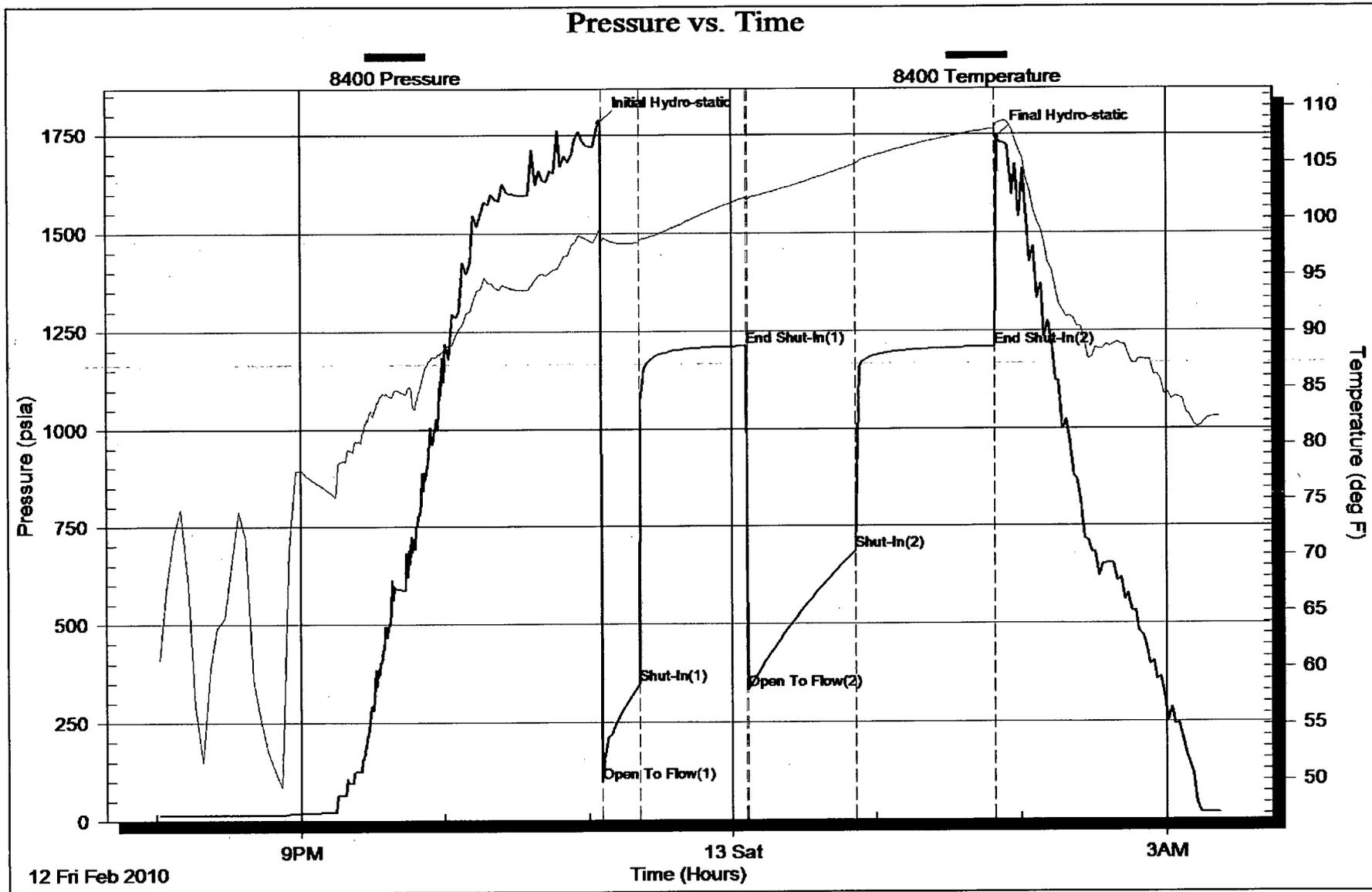
Num Gas Bombs: 0

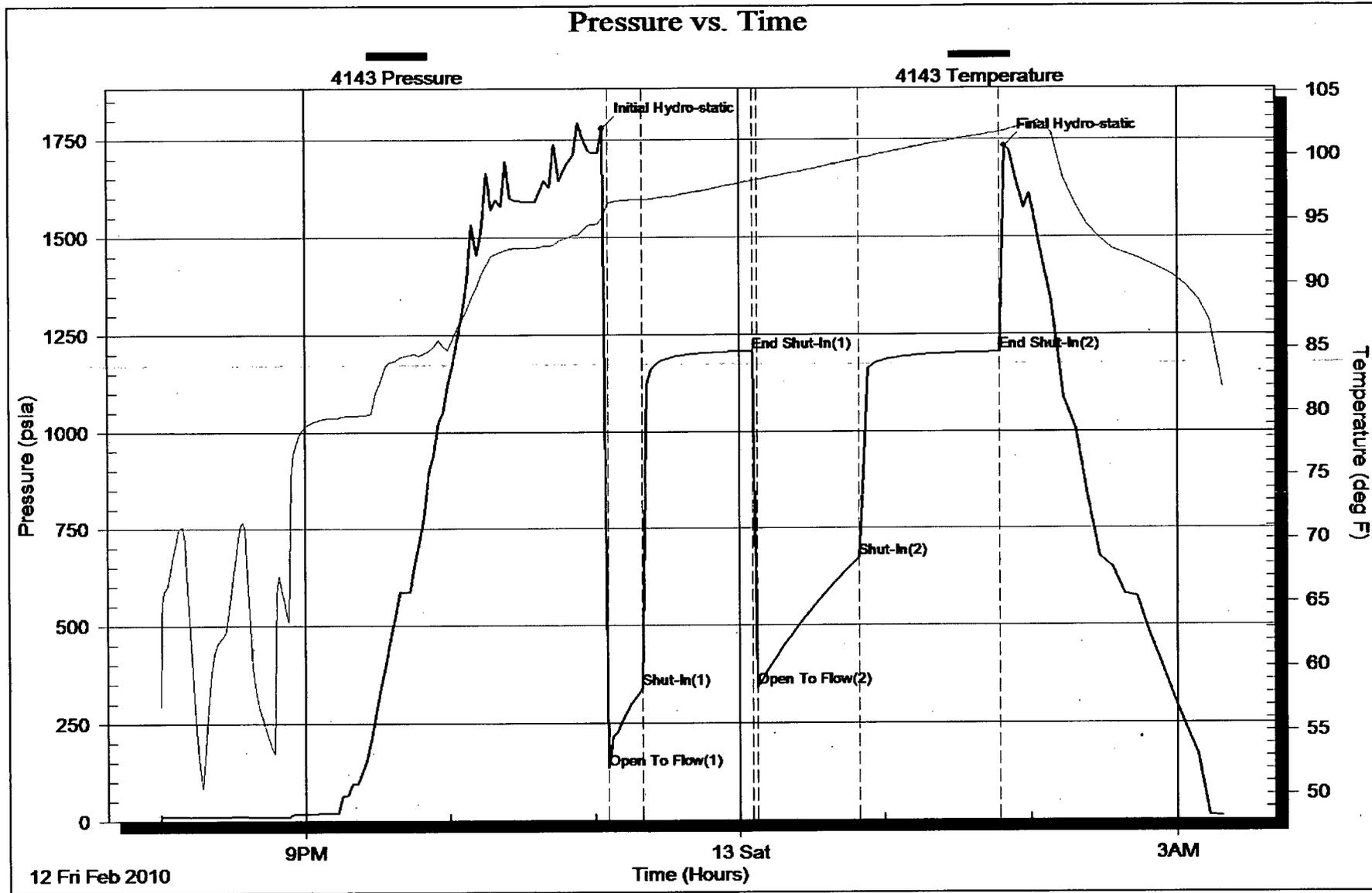
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:







DRILL STEM TEST REPORT

Prepared For: **SHELBY RESOURCES L.L.C**

1217 CANAL BLVD SUITE C
HAYS KS 67601

ATTN: DEREK PATTERSON

25-21S-16W-PAWNEE

WFY UNIT #1

Start Date: 2010.02.13 @ 11:00:00

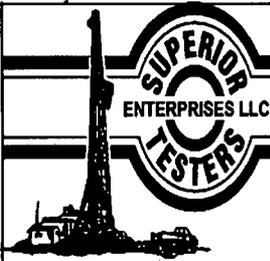
End Date: 2010.02.13 @ 18:13:00

Job Ticket #: 15890 DST #: 2

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

Printed: 2010.02.13 @ 17:57:52

SHELBY RESOURCES L.L.C WFY UNIT #1 25-21S-16W-PAWNEE DST # 2 ARBUCKLE 2010.02.13



DRILL STEM TEST REPORT

SHELBY RESOURCES L.L.C
 1217 CANAL BLVD SUITE C
 HAYS KS 67601
 ATTN: DEREK PATTERSON

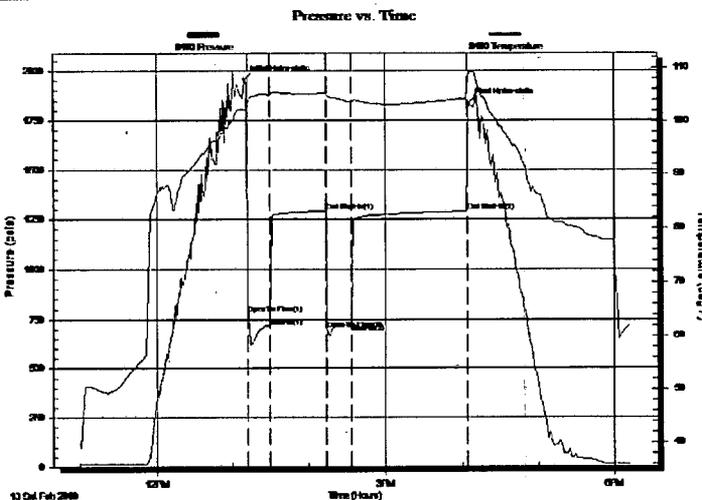
WFY UNIT #1
25-21S-16W-PAWNEE
 Job Ticket: 15890 **DST#: 2**
 Test Start: 2010.02.13 @ 11:00:00

GENERAL INFORMATION:

Formation: **ARBUCKLE**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 13:12:00
 Time Test Ended: 18:13:00
 Interval: **3782.00 ft (KB) To 3842.00 ft (KB) (TVD)**
 Total Depth: 3842.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Initial)
 Tester: DAVID NICHOLS
 Unit No: 3345 63 MGB
 Reference Elevations: 1979.00 ft (KB)
 1971.00 ft (CF)
 KB to GR/CF: 8.00 ft

Serial #: 8400 Inside
 Press@RunDepth: 727.90 psia @ 3837.00 ft (KB) Capacity: 5000.00 psia
 Start Date: 2010.02.13 End Date: 2010.02.13 Last Calib.: 2010.02.13
 Start Time: 11:00:00 End Time: 18:13:00 Time On Btm: 2010.02.13 @ 13:09:30
 Time Off Btm: 2010.02.13 @ 16:05:30

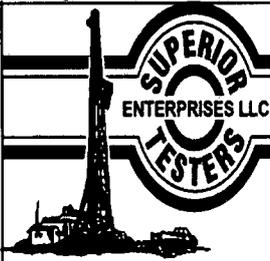
TEST COMMENT: 15-INITIAL OPENING STRONG BLOW BOTTOM OF THE BUCKET IN 10 SEC
 45-INITIAL SHUT IN SURFACE BLOW BACK
 20-FINAL OPENING STRONG BLOW BACK BOTTOM OF THE BUCKET IN 20 SEC
 90-FINAL SHUT IN LEFT 2 INCH OPEN TO BLEED OF GAS



PRESSURE SUMMARY			
Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1957.59	102.07	Initial Hydro-static
3	779.44	103.60	Open To Flow (1)
20	712.48	104.83	Shut-In(1)
64	1291.13	105.19	End Shut-In(1)
65	698.94	104.85	Open To Flow (2)
84	727.90	103.34	Shut-In(2)
174	1290.02	104.24	End Shut-In(2)
176	1836.07	109.19	Final Hydro-static

Recovery		
Length (ft)	Description	Volume (bbl)
240.00	MUD 100%M	1.47

Gas Rates			
	Choke (inches)	Pressure (psia)	Gas Rate (Mcf/d)
First Gas Rate	1.00	99.00	2846.13
Last Gas Rate	1.00	99.00	2846.13



DRILL STEM TEST REPORT

TOOL DIAGRAM

SHELBY RESOURCES L.L.C

WFY UNIT #1

1217 CANAL BLVD SUITE C
HAYS KS 67601

25-21S-16W-PAWNEE

Job Ticket: 15890

DST#: 2

ATTN: DEREK PATTERSON

Test Start: 2010.02.13 @ 11:00:00

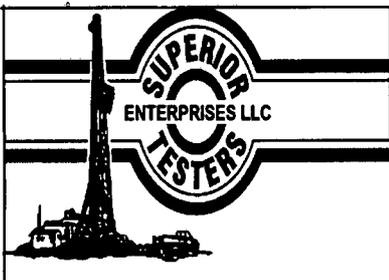
Tool Information

Drill Pipe:	Length: 3546.00 ft	Diameter: 3.88 inches	Volume: 51.86 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: 210.00 ft	Diameter: 2.25 inches	Volume: 1.03 bbl	Weight to Pull Loose:	90000.00 lb
			<u>Total Volume: 52.89 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	3.00 ft			String Weight: Initial	65000.00 lb
Depth to Top Packer:	3782.00 ft			Final	70000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	60.00 ft				
Tool Length:	89.00 ft				
Number of Packers:	2	Diameter: 6.75 inches			

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3754.00	
Shut-In Tool	5.00			3759.00	
Hydroic Tool	5.00			3764.00	
Jars	6.00			3770.00	
Safety Joint	2.00			3772.00	
Packer	5.00			3777.00	29.00 Bottom Of Top Packer
Packer	5.00			3782.00	
Change Over Sub	0.75			3782.75	
Drill Pipe	31.50			3814.25	
Change Over Sub	0.75			3815.00	
Perforations	22.00			3837.00	
Recorder	0.00	8400	Inside	3837.00	
Recorder	0.00	4143	Outside	3837.00	
Bullnose	5.00			3842.00	60.00 Bottom Packers & Anchor

Total Tool Length: 89.00



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 ATTN: DEREK PATTERSON

WFY UNIT #1
25-21S-16W-PAWNEE
 Job Ticket: 15890 **DST#: 2**
 Test Start: 2010.02.13 @ 11:00:00

Mud and Cushion Information

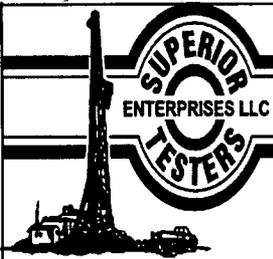
Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	ppm
Viscosity: 57.00 sec/qt	Cushion Volume: bbl		
Water Loss: 13.40 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psia		
Salinity: 16500.00 ppm			
Filter Cake: inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
240.00	MUD 100%M	1.471

Total Length: 240.00 ft Total Volume: 1.471 bbl
 Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
 Laboratory Name: Laboratory Location:
 Recovery Comments:



DRILL STEM TEST REPORT

GAS RATES

SHELBY RESOURCES L.L.C

WFY UNIT #1

1217 CANAL BLVD SUITE C
HAYS KS 67601

25-21S-16W-PAWNEE

Job Ticket: 15890

DST#: 2

ATTN: DEREK PATTERSON

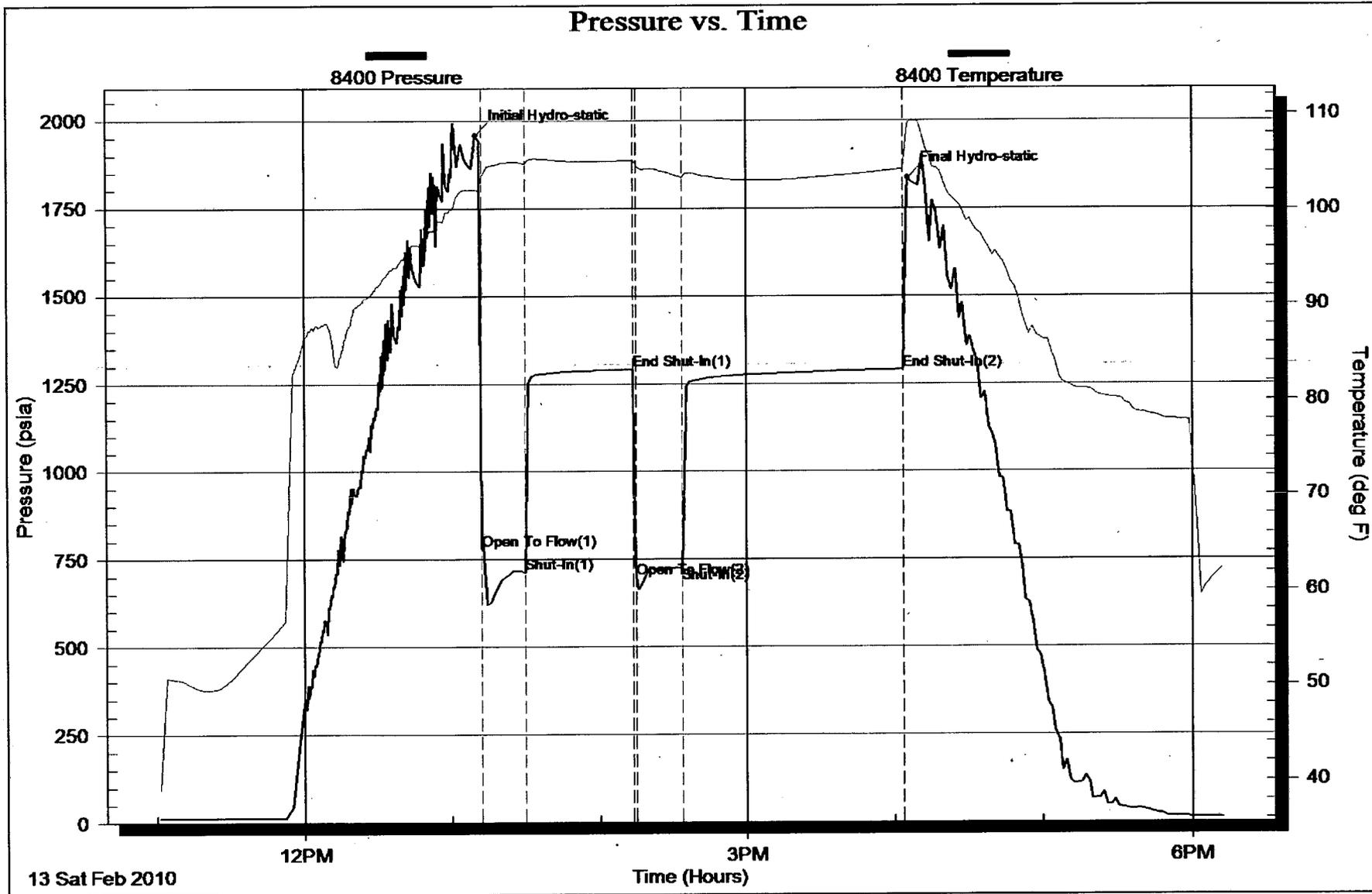
Test Start: 2010.02.13 @ 11:00:00

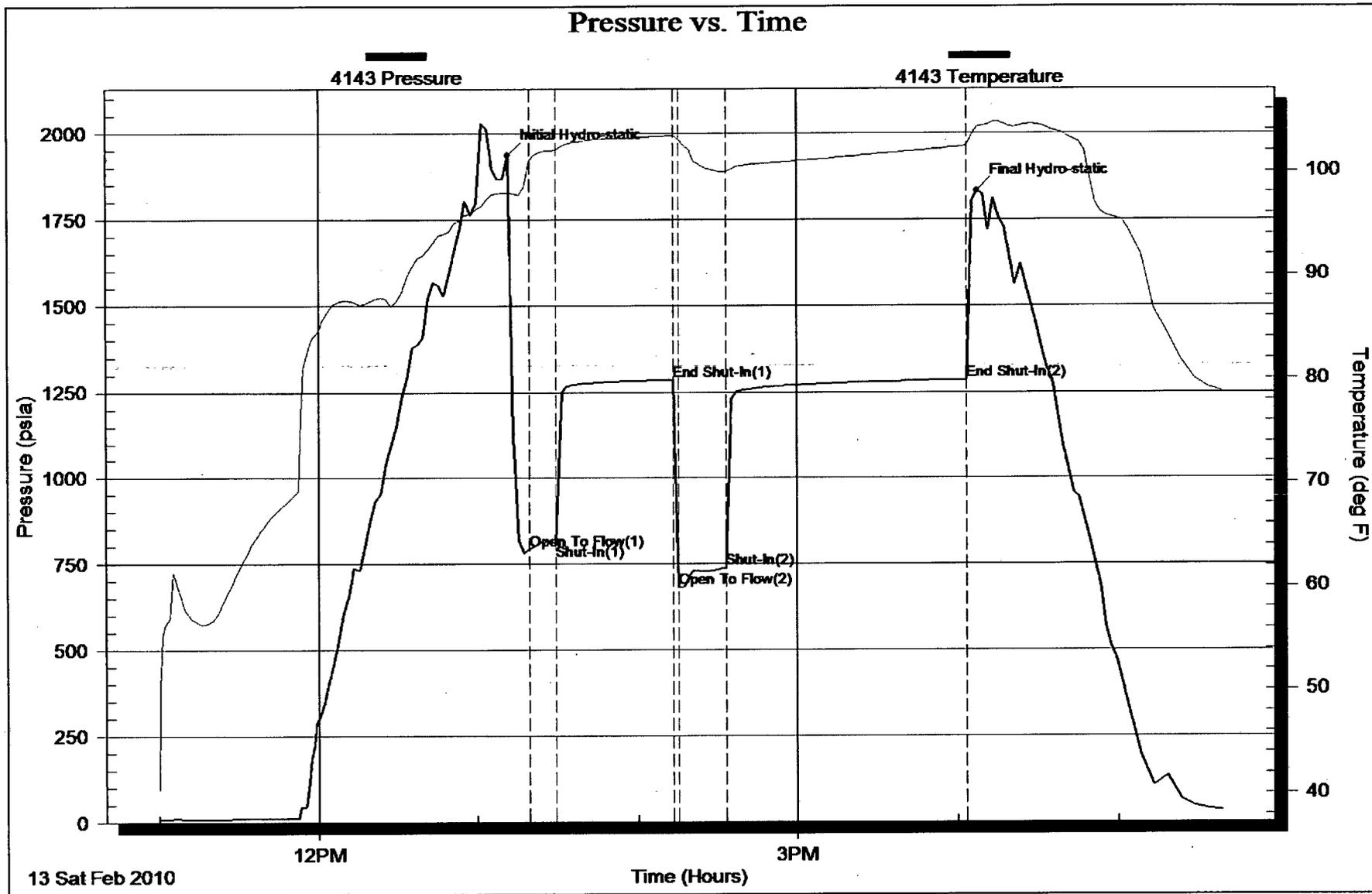
Gas Rates Information

Temperature: 59 (deg F)
Relative Density: 0.65
Z Factor: 0.8

Gas Rates Table

Flow Period	Elapsed Time	Choke (inches)	Pressure (psia)	Gas Rate (Mcf/d)
2	10	1.00	99.00	2846.13
2	10	1.00	99.00	2846.13







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1217 CANAL BLVD SUITE C
HAYS KS 67601

ATTN: DEREK PATTERSON

25-21S-16W-PAWNEE

WFY UNIT #1

Start Date: 2010.02.14 @ 01:00:00

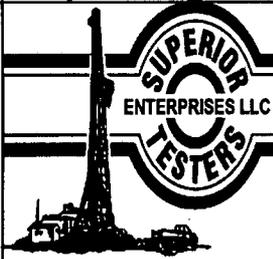
End Date: 2010.02.14 @ 06:05:00

Job Ticket #: 15891 DST #: 3

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

Printed: 2010.02.14 @ 06:11:20

SHELBY RESOURCES L.L.C WFY UNIT #1 25-21S-16W-PAWNEE DST # 3 ARBUCKLE 2010.02.14



DRILL STEM TEST REPORT

SHELBY RESOURCES L.L.C
 1217 CANAL BLVD SUITE C
 HAYS KS 67601
 ATTN: DEREK PATTERSON

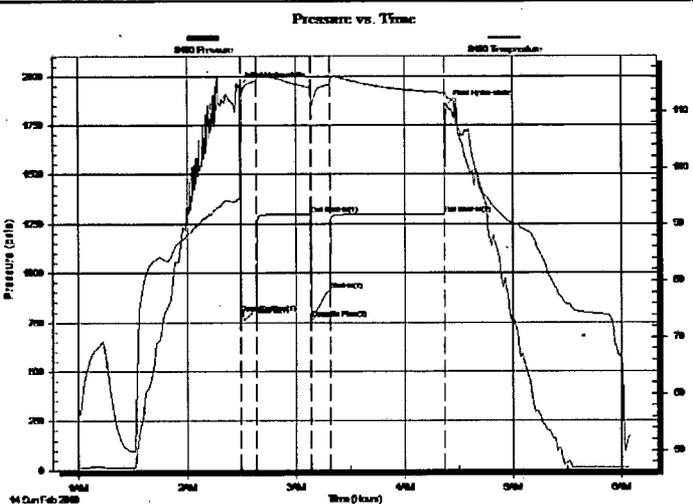
WFY UNIT #1
25-21S-16W-PAWNEE
 Job Ticket: 15891 **DST#: 3**
 Test Start: 2010.02.14 @ 01:00:00

GENERAL INFORMATION:

Formation: **ARBUCKLE**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 02:29:20
 Time Test Ended: 06:05:00
 Interval: **3845.00 ft (KB) To 3852.00 ft (KB) (TVD)**
 Total Depth: 3852.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Initial)
 Tester: DAVID NICHOLS
 Unit No: 3345 63 MGB
 Reference Elevations: 1979.00 ft (KB)
 1971.00 ft (CF)
 KB to GR/CF: 8.00 ft

Serial #: 8400 **Inside**
 Press@RunDepth: 910.80 psia @ 3847.00 ft (KB) Capacity: 5000.00 psia
 Start Date: 2010.02.14 End Date: 2010.02.14 Last Calib.: 2010.02.14
 Start Time: 01:00:00 End Time: 06:05:00 Time On Btm: 2010.02.14 @ 02:28:50
 Time Off Btm: 2010.02.14 @ 04:23:30

TEST COMMENT: 10-INITIAL OPENING STRONG BLOW BOTTOM OF THE BUCKET IN 10 SEC
 30-INITIAL SHUT IN WEAK BLOW BACK
 15-FINAL OPENING STRONG BLOW BOTTOM OF THE BUCKET IN 20 SEC
 60-FINAL SHUT IN LEFT OPEN TO BLEED OF H2S GAS



PRESSURE SUMMARY

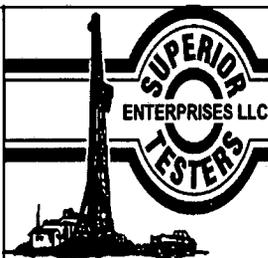
Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1948.55	94.63	Initial Hydro-static
1	799.39	96.87	Open To Flow (1)
10	830.74	115.43	Shut-In(1)
40	1298.50	114.11	End Shut-In(1)
40	769.69	110.87	Open To Flow (2)
50	910.80	114.72	Shut-In(2)
114	1298.51	113.25	End Shut-In(2)
115	1853.03	112.33	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
70.00	MUDDY WATER 40%M60%W	0.34
360.00	WATER 100	3.77

Gas Rates

	Choke (inches)	Pressure (psia)	Gas Rate (Mcf/d)
First Gas Rate	1.00	68.00	1954.92
Last Gas Rate	1.00	68.00	1954.92



DRILL STEM TEST REPORT

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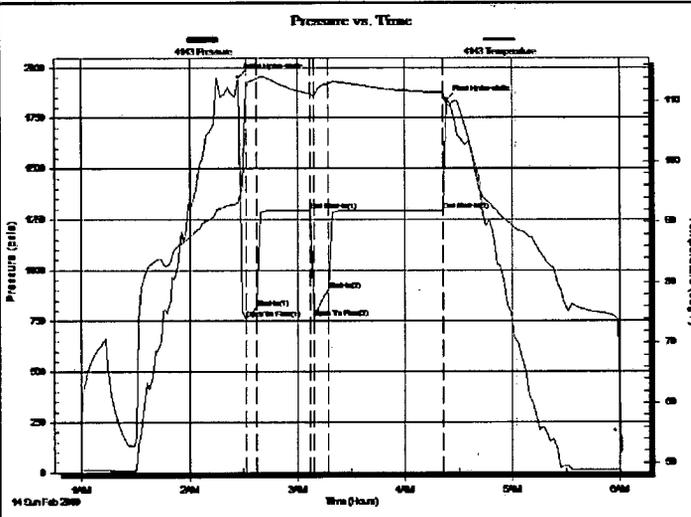
WFY UNIT #1
25-21S-16W-PAWNEE
 Job Ticket: 15891 DST#: 3
 Test Start: 2010.02.14 @ 01:00:00

GENERAL INFORMATION:

Formation: **ARBUCKLE**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 02:29:20
 Time Test Ended: 06:05:00
 Interval: **3845.00 ft (KB) To 3852.00 ft (KB) (TVD)**
 Total Depth: **3852.00 ft (KB) (TVD)**
 Hole Diameter: **7.88 inches** Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Initial)
 Tester: DAVID NICHOLS
 Unit No: 3345 63 M GB
 Reference Elevations: 1979.00 ft (KB)
 1971.00 ft (CF)
 KB to GR/CF: 8.00 ft

Serial #: 4143 Outside
 Press@RunDepth: 1294.11 psia @ 3847.00 ft (KB) Capacity: 5000.00 psia
 Start Date: 2010.02.14 End Date: 2010.02.14 Last Calib.: 2010.02.14
 Start Time: 01:00:00 End Time: 06:01:09 Time On Btm: 2010.02.14 @ 02:27:10
 Time Off Btm: 2010.02.14 @ 04:23:10

TEST COMMENT: 10-INITIAL OPENING STRONG BLOW BOTTOM OF THE BUCKET IN 10 SEC
 30-INITIAL SHUT IN WEAK BLOW BACK
 15-FINAL OPENING STRONG BLOW BOTTOM OF THE BUCKET IN 20 SEC
 60-FINAL SHUT IN LEFT OPEN TO BLEED OF H2S GAS



PRESSURE SUMMARY			
Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1951.87	93.38	Initial Hydro-static
4	759.75	112.53	Open To Flow (1)
10	817.75	113.71	Shut-In(1)
40	1294.39	111.28	End Shut-In(1)
42	768.69	110.62	Open To Flow (2)
50	901.76	112.88	Shut-In(2)
114	1294.11	111.45	End Shut-In(2)
116	1839.19	109.44	Final Hydro-static

Recovery		
Length (ft)	Description	Volume (bbl)
70.00	MUDDY WATER 40%M60%W	0.34
360.00	WATER 100	3.77

Gas Rates			
	Choke (inches)	Pressure (psia)	Gas Rate (Mcf/d)
First Gas Rate	1.00	68.00	1954.92
Last Gas Rate	1.00	68.00	1954.92



DRILL STEM TEST REPORT

TOOL DIAGRAM

SHELBY RESOURCES L.L.C

WFY UNIT #1

1217 CANAL BLVD SUITE C
HAYS KS 67601

25-21S-16W-PAWNEE

Job Ticket: 15891

DST#: 3

ATTN: DEREK PATTERSON

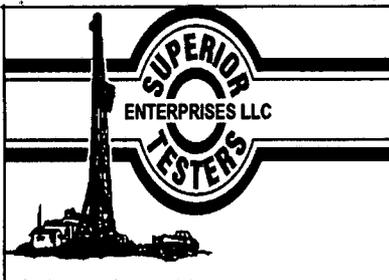
Test Start: 2010.02.14 @ 01:00:00

Tool Information

Drill Pipe:	Length: 3612.00 ft	Diameter: 3.80 inches	Volume: 50.67 bbl	Tool Weight:	2000.00 lb
Heavy Wt. Pipe:	Length: ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer:	20000.00 lb
Drill Collar:	Length: 210.00 ft	Diameter: 2.25 inches	Volume: 1.03 bbl	Weight to Pull Loose:	80000.00 lb
		Total Volume: 51.70 bbl		Tool Chased	0.00 ft
Drill Pipe Above KB:	1.00 ft			String Weight: Initial	67000.00 lb
Depth to Top Packer:	3845.00 ft			Final	68000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	7.00 ft				
Tool Length:	31.00 ft				
Number of Packers:	2	Diameter:	6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3822.00	
Shut-In Tool	5.00			3827.00	
Hydroic Tool	5.00			3832.00	
Jars	6.00			3838.00	
Safety Joint	2.00			3840.00	
Packer	5.00			3845.00	24.00 Bottom Of Top Packer
Perforations	2.00			3847.00	
Recorder	0.00	8400	Inside	3847.00	
Recorder	0.00	4143	Outside	3847.00	
Bullnose	5.00			3852.00	7.00 Anchor Tool
Total Tool Length:	31.00				



DRILL STEM TEST REPORT

FLUID SUMMARY

SHELBY RESOURCES L.L.C

WFY UNIT #1

1217 CANAL BLVD SUITE C
HAYS KS 67601

25-21S-16W-PAWNEE

Job Ticket: 15891

DST#: 3

ATTN: DEREK PATTERSON

Test Start: 2010.02.14 @ 01:00:00

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 57.00 sec/qt

Water Loss: 13.40 in³

Resistivity: ohm.m

Salinity: 16500.00 ppm

Filter Cake: inches

Cushion Type:

Cushion Length: ft

Cushion Volume: bbl

Gas Cushion Type:

Gas Cushion Pressure: psia

Oil API: deg API

Water Salinity: ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
70.00	MUDDY WATER 40%M60%W	0.344
360.00	WATER 100	3.775

Total Length: 430.00 ft Total Volume: 4.119 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



DRILL STEM TEST REPORT

GAS RATES

SHELBY RESOURCES L.L.C

WFY UNIT #1

1217 CANAL BLVD SUITE C
HAYS KS 67601

25-21S-16W-PAWNEE

Job Ticket: 15891

DST#: 3

ATTN: DEREK PATTERSON

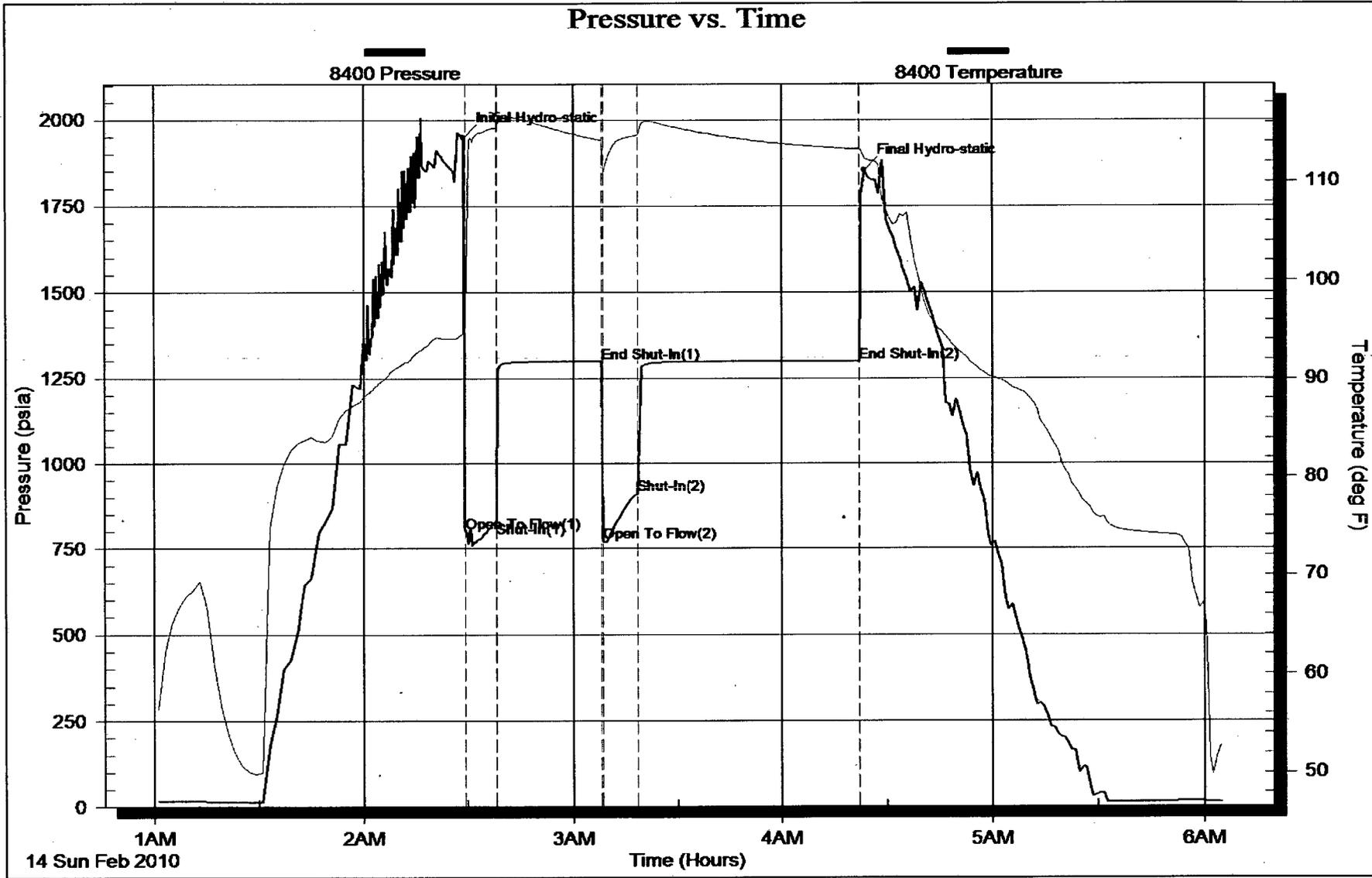
Test Start: 2010.02.14 @ 01:00:00

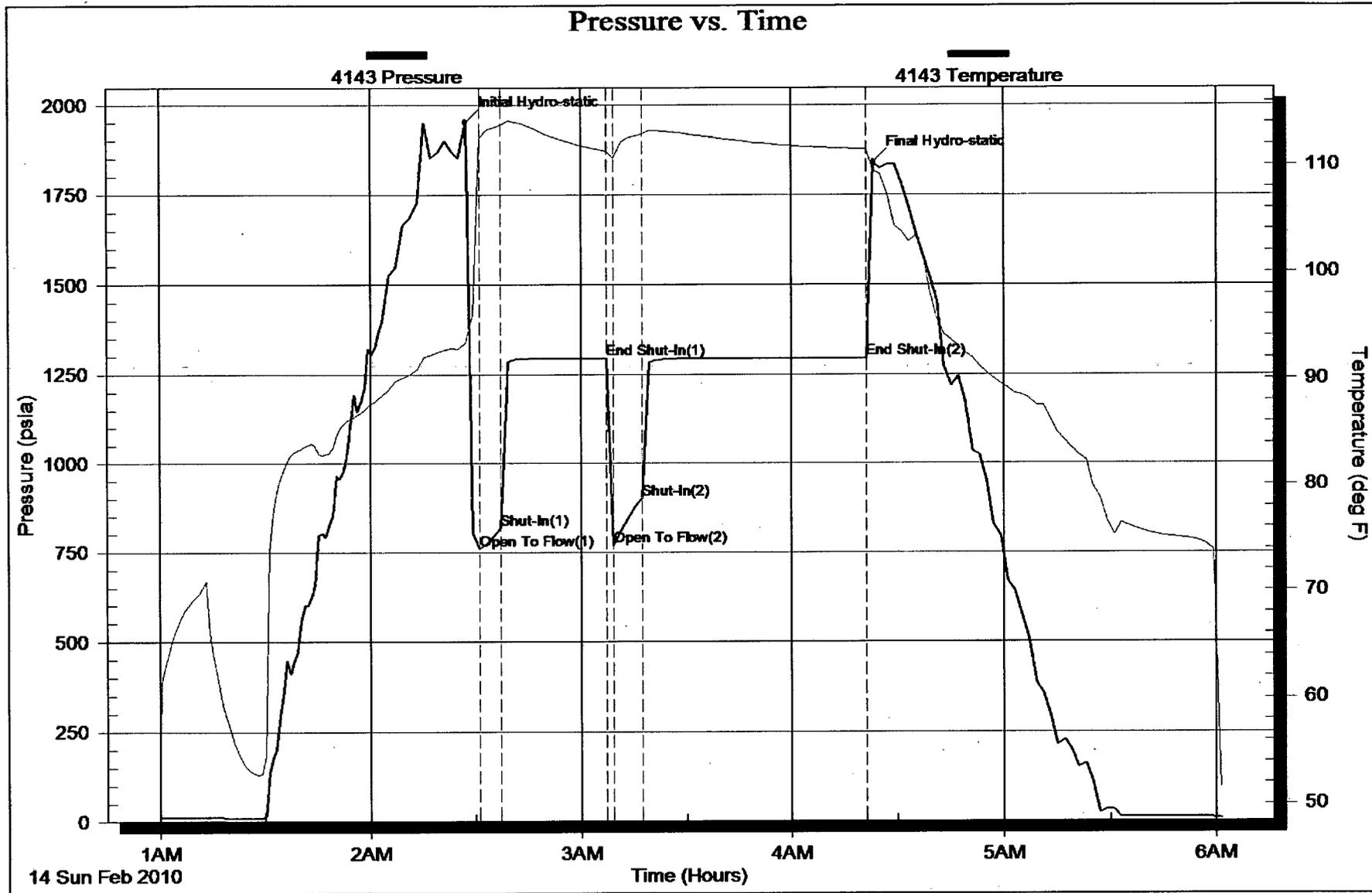
Gas Rates Information

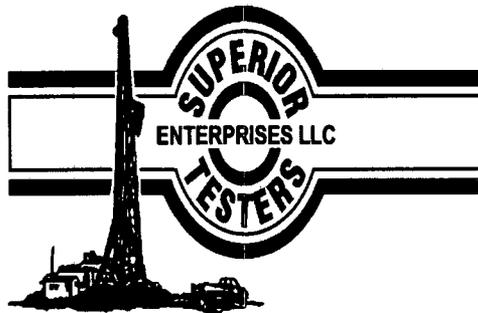
Temperature: 59 (deg F)
Relative Density: 0.65
Z Factor: 0.8

Gas Rates Table

Flow Period	Elapsed Time	Choke (inches)	Pressure (psia)	Gas Rate (Mcf/d)
1	10	1.00	68.00	1954.92
2	8	1.00	68.00	1954.92







DRILL STEM TEST REPORT

Prepared For: **SHELBY RESOURCES L.L.C**

1217 CANAL BLVD SUITE C
HAYS KS 67601

ATTN: DEREK PATTERSON

25-21S-16W-PAWNEE

WFY UNIT #1

Start Date: 2010.02.15 @ 15:00:00

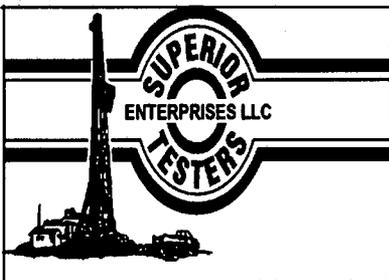
End Date: 2010.02.15 @ 21:51:30

Job Ticket #: 15892 DST #: 4

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

Printed: 2010.02.15 @ 10:38:06

SHELBY RESOURCES L.L.C WFY UNIT #1 25-21S-16W-PAWNEE DST # 4 ARBUCKLE 2010.02.15



DRILL STEM TEST REPORT

SHELBY RESOURCES L.L.C

WFY UNIT #1

1217 CANAL BLVD SUITE C
HAYS KS 67601

25-21S-16W-PAWNEE

Job Ticket: 15892

DST#: 4

ATTN: DEREK PATTERSON

Test Start: 2010.02.15 @ 15:00:00

GENERAL INFORMATION:

Formation: **ARBUCKLE**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 17:04:00

Time Test Ended: 21:51:30

Test Type: Conventional Bottom Hole (Initial)

Tester: DAVID NICHOLS

Unit No: 3345 63 M GB

Interval: **3853.00 ft (KB) To 3862.00 ft (KB) (TVD)**

Total Depth: 3862.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 1979.00 ft (KB)

1971.00 ft (CF)

KB to GR/CF: 8.00 ft

Serial #: 8400

Inside

Press@RunDepth: 644.37 psia @ 3857.00 ft (KB)

Capacity: 5000.00 psia

Start Date: 2010.02.15

End Date: 2010.02.15

Last Calib.: 2010.02.15

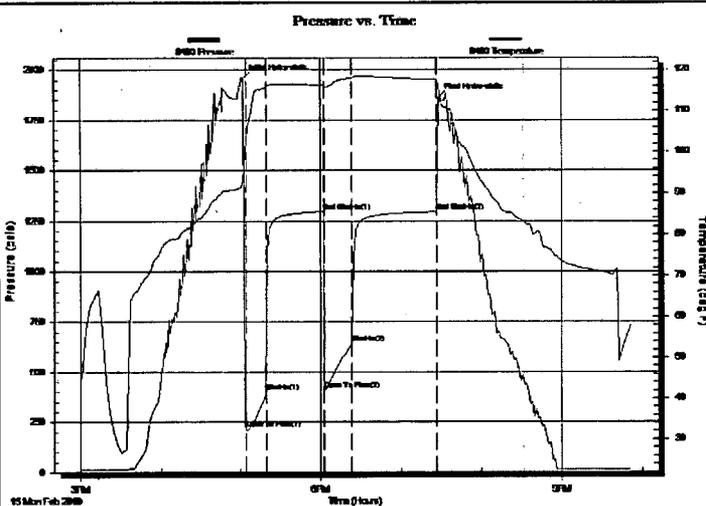
Start Time: 15:01:00

End Time: 21:51:30

Time On Btm: 2010.02.15 @ 17:02:00

Time Off Btm: 2010.02.15 @ 19:27:30

TEST COMMENT: 15-INITIAL OPENING FAIR BLOW BUILT TO BOTTOM BUCKET IN 3 MINS
45-INITIAL SHUT IN STRONG BLOW BACK
20-FINAL OPENING FAIR BLOW BUILT TO BOTTOM OF BUCKET IN 2 MINS
60-FINAL SHUT IN STRONG BLOW BACK



PRESSURE SUMMARY

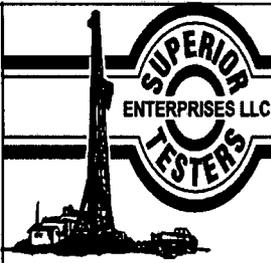
Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1958.34	92.77	Initial Hydro-static
2	216.93	102.82	Open To Flow (1)
17	403.18	115.74	Shut-In(1)
60	1295.62	116.23	End Shut-In(1)
61	413.69	115.84	Open To Flow (2)
82	644.37	118.03	Shut-In(2)
145	1295.32	117.58	End Shut-In(2)
146	1859.79	116.33	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
180.00	MUDDY WATER 30%M70%W	0.89
1080.00	WATER 100%W	15.50

Gas Rates

	Choke (inches)	Pressure (psia)	Gas Rate (Mcf/d)
First Gas Rate	0.13	5.00	1.87
Last Gas Rate	0.13	5.00	1.87



DRILL STEM TEST REPORT

SHELBY RESOURCES L.L.C

WFY UNIT #1

1217 CANAL BLVD SUITE C
HAYS KS 67601

25-21S-16W-PAWNEE

Job Ticket: 15892

DST#: 4

ATTN: DEREK PATTERSON

Test Start: 2010.02.15 @ 15:00:00

GENERAL INFORMATION:

Formation: **ARBUCKLE**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 17:04:00

Time Test Ended: 21:51:30

Test Type: Conventional Bottom Hole (Initial)

Tester: DAVID NICHOLS

Unit No: 3345 63 M GB

Interval: **3853.00 ft (KB) To 3862.00 ft (KB) (TVD)**

Reference Elevations: 1979.00 ft (KB)

Total Depth: 3862.00 ft (KB) (TVD)

1971.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

Serial #: 4143

Outside

Press@RunDepth: 1291.00 psia @ 3857.00 ft (KB)

Capacity: 5000.00 psia

Start Date: 2010.02.15

End Date: 2010.02.15

Last Calib.: 2010.02.15

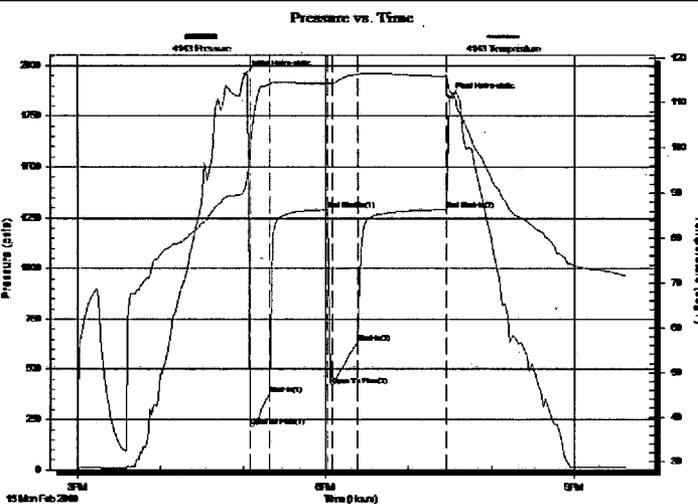
Start Time: 15:00:01

End Time: 21:38:10

Time On Btm: 2010.02.15 @ 17:01:10

Time Off Btm: 2010.02.15 @ 19:29:10

TEST COMMENT: 15-INITIAL OPENING FAIR BLOW BUILT TO BOTTOM BUCKET IN 3 MINS
45-INITIAL SHUT IN STRONG BLOW BACK
20-FINAL OPENING FAIR BLOW BUILT TO BOTTOM OF BUCKET IN 2 MINS
60-FINAL SHUT IN STRONG BLOW BACK



PRESSURE SUMMARY

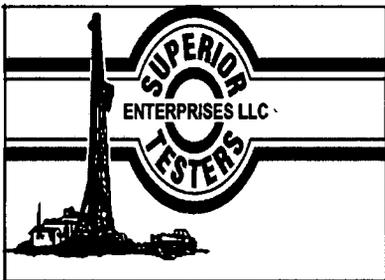
Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1957.28	90.82	Initial Hydro-static
4	214.76	100.86	Open To Flow (1)
18	377.59	114.09	Shut-In(1)
60	1291.22	114.21	End Shut-In(1)
64	420.03	114.20	Open To Flow (2)
82	632.47	116.21	Shut-In(2)
147	1291.00	115.92	End Shut-In(2)
148	1846.00	112.61	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
180.00	MUDDY WATER 30%M70%W	0.89
1080.00	WATER 100%W	15.50

Gas Rates

	Choke (inches)	Pressure (psia)	Gas Rate (Mcf/d)
First Gas Rate	0.13	5.00	1.87
Last Gas Rate	0.13	5.00	1.87



DRILL STEM TEST REPORT

TOOL DIAGRAM

SHELBY RESOURCES L.L.C

WFY UNIT #1

1217 CANAL BLVD SUITE C
HAYS KS 67601

25-21S-16W-PAWNEE

Job Ticket: 15892

DST#: 4

ATTN: DEREK PATTERSON

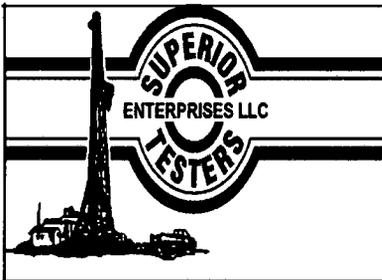
Test Start: 2010.02.15 @ 15:00:00

Tool Information

Drill Pipe:	Length: 3620.00 ft	Diameter: 3.88 inches	Volume: 52.94 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: 210.00 ft	Diameter: 2.25 inches	Volume: 1.03 bbl	Weight to Pull Loose: 80000.00 lb
			<u>Total Volume: 53.97 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	1.00 ft			String Weight: Initial 68000.00 lb
Depth to Top Packer:	3853.00 ft			Final 72000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	9.00 ft			
Tool Length:	33.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3830.00	
Shut-In Tool	5.00			3835.00	
Hydroic Tool	5.00			3840.00	
Jars	6.00			3846.00	
Safety Joint	2.00			3848.00	
Packer	5.00			3853.00	24.00 Bottom Of Top Packer
Perforations	4.00			3857.00	
Recorder	0.00	8400	Inside	3857.00	
Recorder	0.00	4143	Outside	3857.00	
Bullnose	5.00			3862.00	9.00 Anchor Tool
Total Tool Length:	33.00				



DRILL STEM TEST REPORT

FLUID SUMMARY

SHELBY RESOURCES L.L.C

WFY UNIT #1

1217 CANAL BLVD SUITE C
HAYS KS 67601

25-21S-16W-PAWNEE

Job Ticket: 15892

DST#: 4

ATTN: DEREK PATTERSON

Test Start: 2010.02.15 @ 15:00:00

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: 52.00 sec/qt

Cushion Volume:

bbl

Water Loss: 16.79 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psia

Salinity: 23000.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
180.00	MUDDY WATER 30%M70%W	0.885
1080.00	WATER 100%W	15.503

Total Length: 1260.00 ft Total Volume: 16.388 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



DRILL STEM TEST REPORT

GAS RATES

SHELBY RESOURCES L.L.C

WFY UNIT #1

1217 CANAL BLVD SUITE C
HAYS KS 67601

25-21S-16W-PAWNEE

Job Ticket: 15892

DST#: 4

ATTN: DEREK PATTERSON

Test Start: 2010.02.15 @ 15:00:00

Gas Rates Information

Temperature: 59 (deg F)
Relative Density: 0.65
Z Factor: 0.8

Gas Rates Table

Flow Period	Elapsed Time	Choke (inches)	Pressure (psia)	Gas Rate (Mcf/d)
2	10	0.13	5.00	1.87
2	10	0.13	5.00	1.87

