



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

ATTN: DEREK PATTERSON

Job Ticket: 15892

DST#: 4

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 #: 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

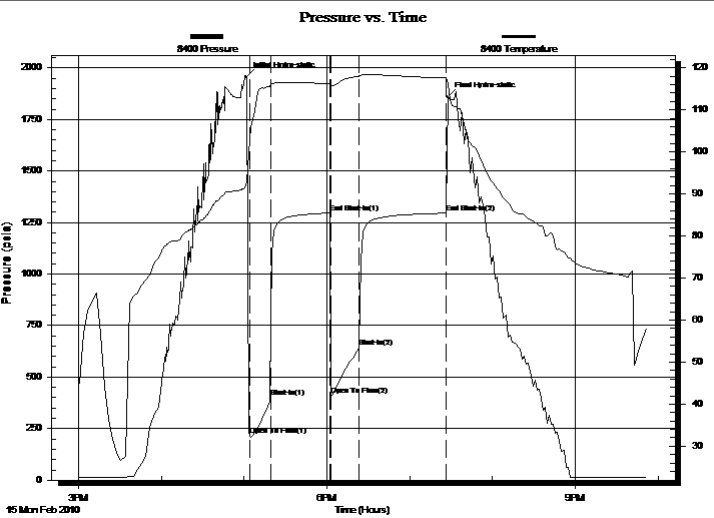
Start Time: 15:01:00

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



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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

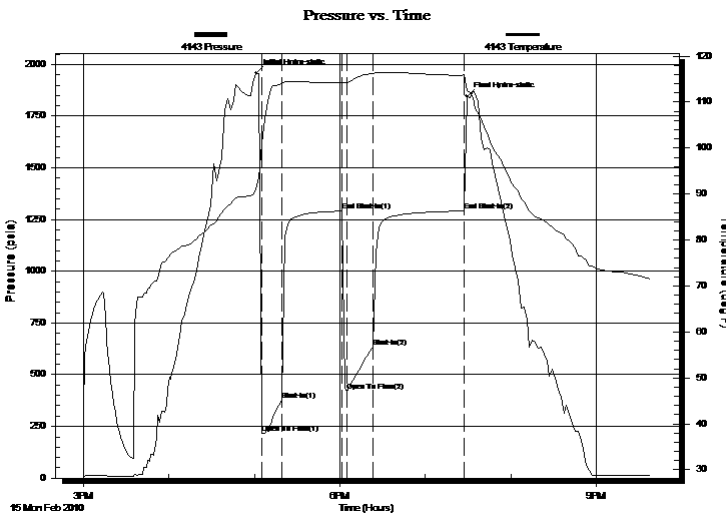
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Time On Btm: 2010.02.15 @ 17:01:10

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



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TOOL DIAGRAM

SHELBY RESOURCES L.L.C

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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				



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FLUID SUMMARY

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Job Ticket: 15892

DST#: 4

ATTN: DEREK PATTERSON

Test Start: 2010.02.15 @ 15:00:00

Mud and Cushion Information

Mud Type: Gel Chem
Mud Weight: 9.00 lb/gal
Viscosity: 52.00 sec/qt
Water Loss: 16.79 in³
Resistivity: ohm.m
Salinity: 23000.00 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
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

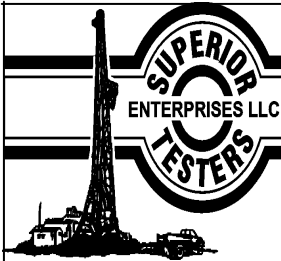
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



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GAS RATES

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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

Pressure vs. Time

