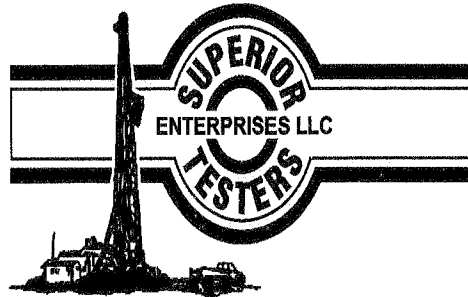


15-009-25332

4-19s-12w

IND



DRILL STEM TEST REPORT

Prepared For: **SHELBY RESOURCES LLC**

PO BOX 1213
HAYS KS 67601

RECEIVED
KANSAS CORPORATION COMMISSION

JAN 12 2010

CONSERVATION DIVISION
WICHITA, KS

ATTN: KEITH

4-19-12W

MILLER-DAVIS #4

Start Date: 2009.08.07 @ 16:30:00

End Date: 2009.08.07 @ 23:50:16

Job Ticket #: 16865

DST #: 1

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

Printed: 2009.08.08 @ 00:28:19

SHELBY RESOURCES LLC

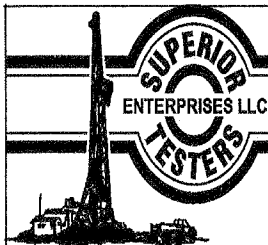
MILLER-DAVIS #4

4-19-12W

DST # 1

LANSING A&B

2009.08.07



DRILL STEM TEST REPORT

SHELBY RESOURCES LLC

PO BOX 1213
HAYS KS 67601

ATTN: KEITH

MILLER-DAVIS #4

4-19-12W

Job Ticket: 16865

DST#: 1

Test Start: 2009.08.07 @ 16:30:00

GENERAL INFORMATION:

Formation: **LANSING A&B**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 18:05:16

Time Test Ended: 23:50:16

Interval: **3079.00 ft (KB) To 3129.00 ft (KB) (TVD)**

Total Depth: 3129.00 ft (KB) (TVD)

Hole Diameter: 6.88 inches Hole Condition: Fair

Test Type: Conventional Bottom Hole (Initial)

Tester: JARED SCHECK

Unit No: 3320-20-GB

Reference Elevations: 1813.00 ft (KB)

1807.00 ft (CF)

KB to GR/CF: 6.00 ft

Serial #: 4143

Inside

Press@RunDepth: 489.38 psia @ 3124.00 ft (KB)

Start Date: 2009.08.07 End Date: 2009.08.07

Start Time: 16:30:01 End Time: 23:50:16

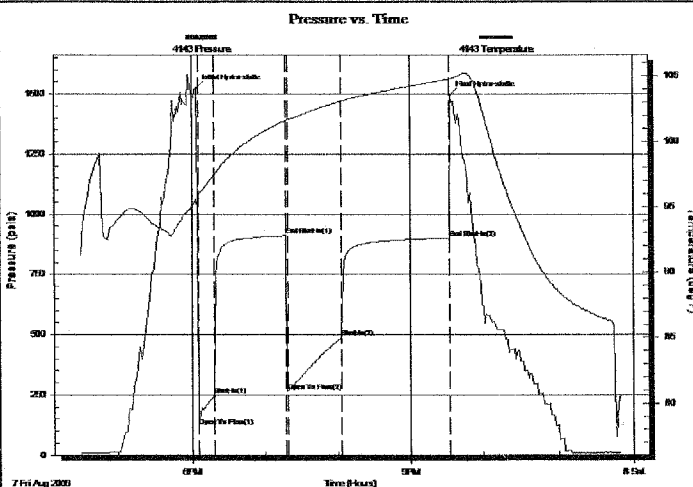
Capacity: 5000.00 psia

Last Calib.: 2009.08.08

Time On Btm: 2009.08.07 @ 18:04:16

Time Off Btm: 2009.08.07 @ 21:33:16

TEST COMMENT: 15/INITIAL OPEN:STRONG BLOW BUILT BOTTOM OF BUCKET IN 2 MINUTES
60/INITIAL SHUT IN:NO BLOW BACK
45/FINAL OPEN:STRONG BLOW BIULT BOTTOM OF BUCKET IN 3 MINUTES
90/FINAL SHUT IN:NO BLOW BACK



PRESSURE SUMMARY

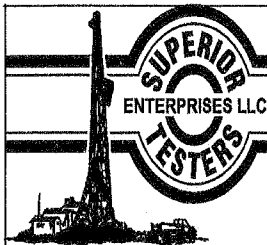
Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1522.71	95.23	Initial Hydro-static
1	119.89	95.88	Open To Flow (1)
14	249.83	97.45	Shut-In(1)
73	910.72	101.59	End Shut-In(1)
74	264.38	101.66	Open To Flow (2)
119	489.38	103.09	Shut-In(2)
208	901.52	104.76	End Shut-In(2)
209	1494.82	104.80	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
120.00	MW &O 5%M 10%O 85%W	0.59
120.00	MW &O 5%M 10%O 85%W	1.68
240.00	SGO &MW 5%M 10%G 30%W 55%O	3.37
240.00	GO &MW 5%M 10%W 25%G 60%O	3.37
330.00	GO&MW 5%M 10%W 30%O 55%G	4.63
870.00	GAS IN PIPE 100%	12.20

Gas Rates

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

SHELBY RESOURCES LLC

MILLER-DAVIS #4

PO BOX 1213
HAYS KS 67601

4-19-12W

Job Ticket: 16865

DST#: 1

ATTN: KEITH

Test Start: 2009.08.07 @ 16:30:00

GENERAL INFORMATION:

Formation: **LANSING A&B**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 18:05:16

Time Test Ended: 23:50:16

Test Type: Conventional Bottom Hole (Initial)

Tester: JARED SCHECK

Unit No: 3320-20-GB

Interval: **3079.00 ft (KB) To 3129.00 ft (KB) (TVD)**

Reference Elevations: 1813.00 ft (KB)

Total Depth: 3129.00 ft (KB) (TVD)

1807.00 ft (CF)

Hole Diameter: 6.88 inches Hole Condition: Fair

KB to GR/CF: 6.00 ft

Serial #: 8524

Outside

Press@RunDepth: 906.01 psia @ 3124.00 ft (KB)

Capacity: 5000.00 psia

Start Date: 2009.08.07

End Date: 2009.08.07

Last Calib.: 2009.08.08

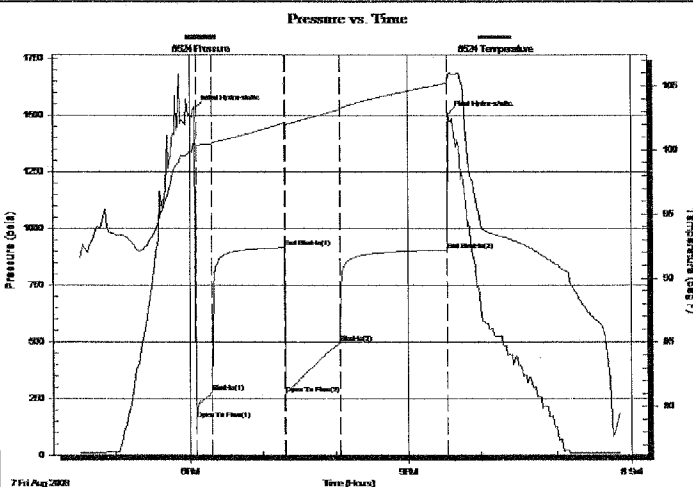
Start Time: 16:31:00

End Time: 23:52:00

Time On Btm: 2009.08.07 @ 18:04:30

Time Off Btm: 2009.08.07 @ 21:33:30

TEST COMMENT: 15/INITIAL OPEN:STRONG BLOW BUILT BOTTOM OF BUCKET IN 2 MINUTES
60/INITIAL SHUT IN :NO BLOW BACK
45/FINAL OPEN:STRONG BLOW BIULT BOTTOM OF BUCKET IN 3 MINUTES
90/FINAL SHUT IN:NO BLOW BACK



PRESSURE SUMMARY

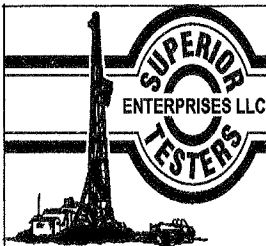
Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1529.87	100.57	Initial Hydro-static
1	156.98	100.33	Open To Flow (1)
14	277.13	100.48	Shut-In (1)
74	915.35	102.11	End Shut-In (1)
74	271.57	101.99	Open To Flow (2)
119	493.76	103.19	Shut-In (2)
208	906.01	105.25	End Shut-In (2)
209	1506.23	105.98	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
120.00	MW & O 5%M 10%O 85%W	0.59
120.00	MW & O 5%M 10%O 85%W	1.68
240.00	SGO & MW 5%M 10%G 30%W 55%O	3.37
240.00	GO & MW 5%M 10%W 25%G 60%O	3.37
330.00	GO & MW 5%M 10%W 30%O 55%G	4.63
870.00	GAS IN PIPE 100%	12.20

Gas Rates

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

TOOL DIAGRAM

SHELBY RESOURCES LLC

MILLER-DAVIS #4

PO BOX 1213
HAYS KS 67601

4-19-12W

Job Ticket: 16865

DST#: 1

ATTN: KEITH

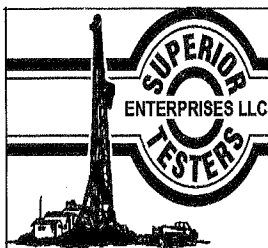
Test Start: 2009.08.07 @ 16:30:00

Tool Information

Drill Pipe:	Length: 2939.00 ft	Diameter: 3.80 inches	Volume: 41.23 bbl	Tool Weight: 10000.00 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: 120.00 ft	Diameter: 2.25 inches	Volume: 0.59 bbl	Weight to Pull Loose: 50000.00 lb
			Total Volume: 41.82 bbl	Tool Chased 0.00 ft
Drill Pipe Above KB:	9.00 ft			String Weight: Initial 45000.00 lb
Depth to Top Packer:	3079.00 ft			Final 47000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	50.00 ft			
Tool Length:	79.00 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			3051.00	
Shut-In Tool	5.00			3056.00	
Hydrolic Tool	5.00			3061.00	
Jars	6.00			3067.00	
Safety Joint	2.00			3069.00	
Packer	5.00			3074.00	29.00 Bottom Of Top Packer
Packer	5.00			3079.00	
Change Over Sub	0.75			3079.75	
Drill Pipe	31.50			3111.25	
Change Over Sub	0.75			3112.00	
Perforations	12.00			3124.00	
Recorder	0.00	4143	Inside	3124.00	
Recorder	0.00	8524	Outside	3124.00	
Bullnose	5.00			3129.00	50.00 Bottom Packers & Anchor

Total Tool Length: 79.00



DRILL STEM TEST REPORT

FLUID SUMMARY

SHELBY RESOURCES LLC

MILLER-DAVIS #4

PO BOX 1213
HAYS KS 67601

4-19-12W

Job Ticket: 16865

DST#: 1

ATTN: KEITH

Test Start: 2009.08.07 @ 16:30:00

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: 51.00 sec/qt

Cushion Volume:

bbl

Water Loss: 9.18 in³

Gas Cushion Type:

Resistivity: 0.10 ohm.m

Gas Cushion Pressure:

psia

Salinity: 5100.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
120.00	MW &O 5%M 10%O 85%W	0.590
120.00	MW &O 5%M 10%O 85%W	1.683
240.00	SGO &MW 5%M 10%G 30%W 55%O	3.367
240.00	GO &MW 5%M 10%W 25%G 60%O	3.367
330.00	GO&MW 5%M 10%W 30%O 55%G	4.629
870.00	GAS IN PIPE 100%	12.204

Total Length: 1920.00 ft Total Volume: 25.840 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: CHLORIDES 52,000

DST Test Number: 1

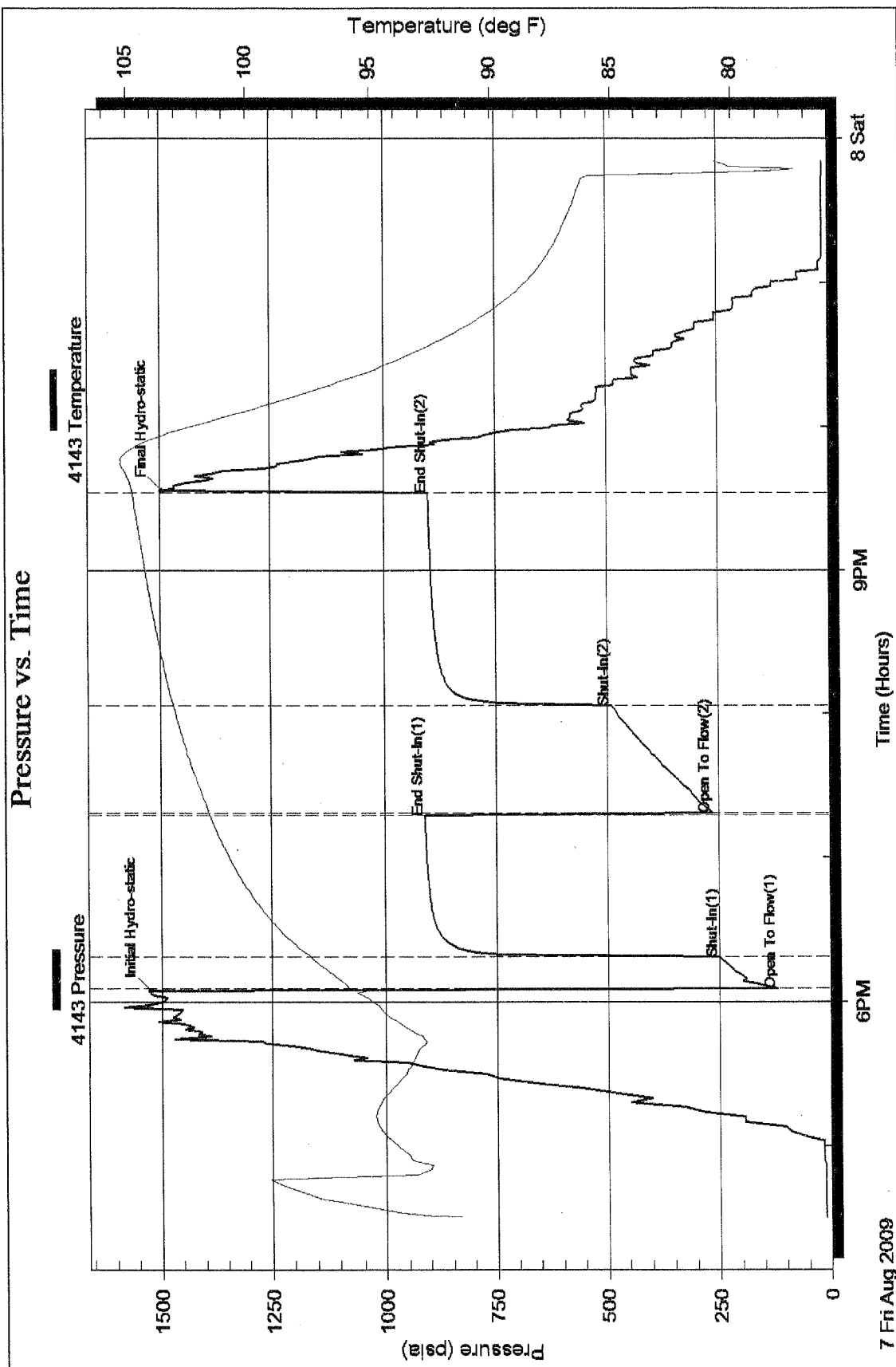
4-19-12W

SHELBY RESOURCES LLC

Inside

Serial #: 4143

Pressure vs. Time



Printed: 2009.08.08 @ 00:28:21

Ref. No: 16865

Superior Testers Enterprises LLC

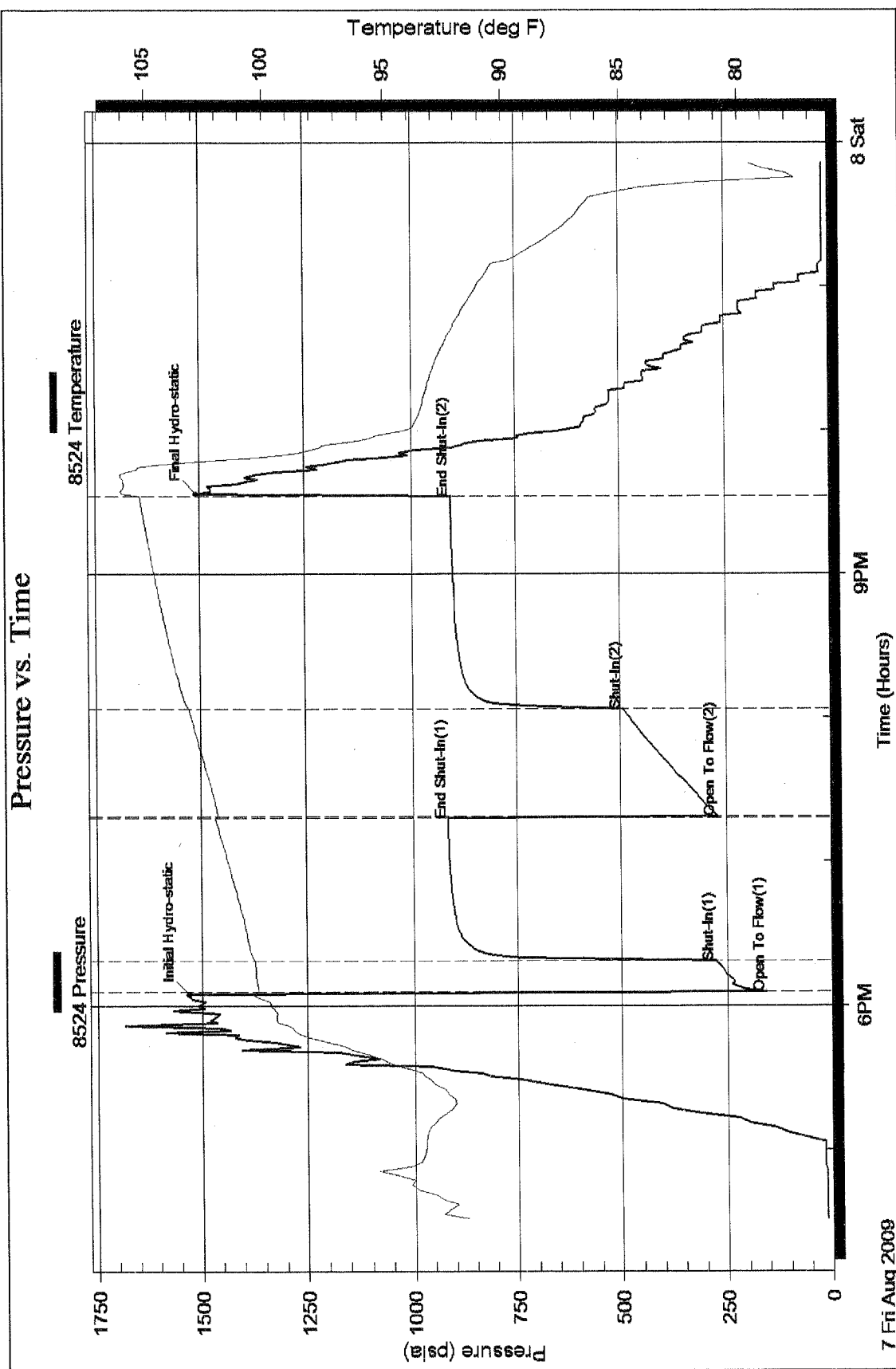
DST Test Number: 1

4-19-12W

Outside SHELBY RESOURCES LLC

Serial #: 8524

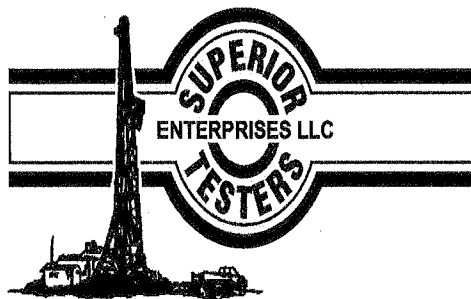
Pressure vs. Time



Printed: 2009.08.08 @ 00:28:21

Ref. No: 16855

Superior Testers Enterprises LLC



DRILL STEM TEST REPORT

Prepared For: **SHELBY RESOURCES LLC**

PO BOX 1213
HAYS KS 67601

ATTN: KEITH REAVIS

4-19-12W

MILLER-DAVIS #4

Start Date: 2009.08.08 @ 07:20:00

End Date: 2009.08.08 @ 15:13:00

Job Ticket #: 16866 DST #: 2

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

Printed: 2009.08.09 @ 10:24:04

SHELBY RESOURCES LLC

MILLER-DAVIS #4

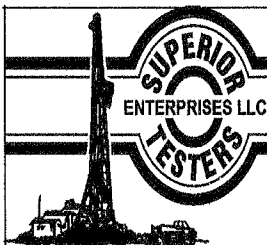
4-19-12W

DST # 2

LANSING D&F

2009.08.08

IND



DRILL STEM TEST REPORT

SHELBY RESOURCES LLC

MILLER-DAVIS #4

PO BOX 1213
HAYS KS 67601

4-19-12W

Job Ticket: 16866

DST#: 2

ATTN: KEITH REAVIS

Test Start: 2009.08.08 @ 07:20:00

GENERAL INFORMATION:

Formation: **LANSING D&F**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 08:41:30

Time Test Ended: 15:13:00

Test Type: Conventional Bottom Hole (Initial)

Tester: JARED SCHECK

Unit No: 3320-20-GB

Interval: 3134.00 ft (KB) To 3170.00 ft (KB) (TVD)

Reference Elevations: 1806.00 ft (KB)

Total Depth: 3170.00 ft (KB) (TVD)

1801.00 ft (CF)

Hole Diameter: 6.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

Serial #: 8524

Outside

Press@RunDepth: 548.04 psia @ 3165.00 ft (KB)

Capacity: 5000.00 psia

Start Date: 2009.08.08

End Date: 2009.08.08

Last Calib.: 2009.08.08

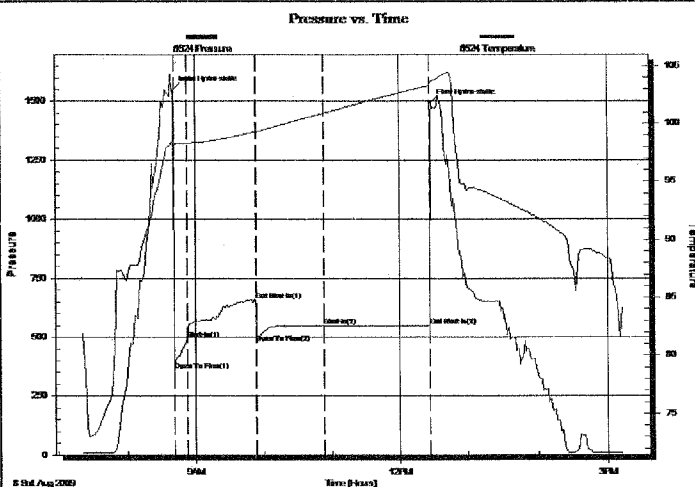
Start Time: 07:21:00

End Time: 15:13:00

Time On Btm: 2009.08.08 @ 08:40:30

Time Off Btm: 2009.08.08 @ 12:28:30

TEST COMMENT: 15/INITIAL OPEN:STRONG BLOW BUILT BOTTOM OF BUCKET IN 1 MINUTE
60/INITIAL SHUT IN :BLOW BACK BOTTOM OF BUCKET
60/FINAL OPEN:STRONG BLOW BUILT BOTTOM OF BUCKET IN 1 MINTE GAS TO SURFACE RIGHT AWAY
90/FINAL SHUT IN :BLOW BACK BUILT 8 INCHES INTO BUCKET IN 90 MINUTES



PRESSURE SUMMARY

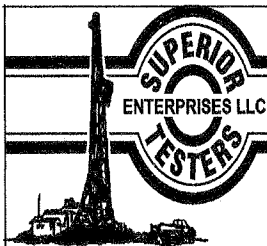
Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1549.52	98.46	Initial Hydro-static
1	360.03	97.96	Open To Flow (1)
12	492.10	98.31	Shut-In(1)
73	656.26	99.31	End Shut-In(1)
73	475.19	99.30	Open To Flow (2)
133	548.04	100.91	Shut-In(2)
227	550.25	103.28	End Shut-In(2)
228	1495.39	103.66	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
120.00	O CUT MW 5%O 5%M 90%W	0.59
120.00	SG&O CUT MW 5%M 25%O 30%W 40%G	1.68
1120.00	SG&WCO 5%M 10%W 30%G 55%O	15.71

Gas Rates

	Choke (inches)	Pressure (psia)	Gas Rate (Mcf/d)
First Gas Rate	0.25	3.30	5.23
Last Gas Rate	0.25	4.90	7.77
Max. Gas Rate	0.25	4.90	7.77



DRILL STEM TEST REPORT

TOOL DIAGRAM

SHELBY RESOURCES LLC

MILLER-DAVIS #4

PO BOX 1213
HAYS KS 67601

4-19-12W

Job Ticket: 16866

DST#: 2

ATTN: KEITH REAVIS

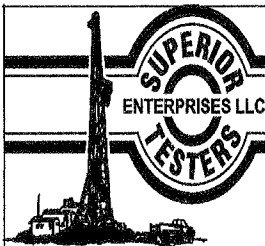
Test Start: 2009.08.08 @ 07:20:00

Tool Information

Drill Pipe:	Length: 3000.00 ft	Diameter: 3.80 inches	Volume: 42.08 bbl	Tool Weight: 10000.00 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: 120.00 ft	Diameter: 2.25 inches	Volume: 0.59 bbl	Weight to Pull Loose: 52000.00 lb
		Total Volume:	42.67 bbl	Tool Chased: 0.00 ft
Drill Pipe Above KB:	15.00 ft			String Weight: Initial 44000.00 lb
Depth to Top Packer:	3134.00 ft			Final 48000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	36.00 ft			
Tool Length:	65.00 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			3106.00	
Shut-In Tool	5.00			3111.00	
Hydrolic Tool	5.00			3116.00	
Jars	6.00			3122.00	
Safety Joint	2.00			3124.00	
Packer	5.00			3129.00	29.00 Bottom Of Top Packer
Packer	5.00			3134.00	
Perforations	31.00			3165.00	
Recorder	0.00	4143	Inside	3165.00	
Recorder	0.00	8524	Outside	3165.00	
Bullnose	5.00			3170.00	36.00 Bottom Packers & Anchor

Total Tool Length: 65.00



DRILL STEM TEST REPORT

FLUID SUMMARY

SHELBY RESOURCES LLC

MILLER-DAVIS #4

PO BOX 1213
HAYS KS 67601

4-19-12W

Job Ticket: 16866

DST#: 2

ATTN: KEITH REAVIS

Test Start: 2009.08.08 @ 07:20:00

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: 56.00 sec/qt

Cushion Volume:

bbl

Water Loss: 9.57 in³

Gas Cushion Type:

Resistivity: 0.10 ohm.m

Gas Cushion Pressure:

psia

Salinity: 8100.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
120.00	O CUT MW 5%O 5%M 90%W	0.590
120.00	SG&O CUT MW 5%M 25%O 30%W 40%G	1.683
1120.00	SG&WCO 5%M 10%W 30%G 55%O	15.711

Total Length: 1360.00 ft

Total Volume: 17.984 bbl

Num Fluid Samples: 0

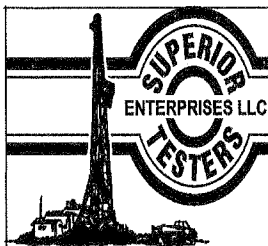
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



DRILL STEM TEST REPORT

GAS RATES

SHELBY RESOURCES LLC

MILLER-DAVIS #4

PO BOX 1213
HAYS KS 67601

4-19-12W

Job Ticket: 16866

DST#: 2

ATTN: KETH REAVIS

Test Start: 2009.08.08 @ 07:20:00

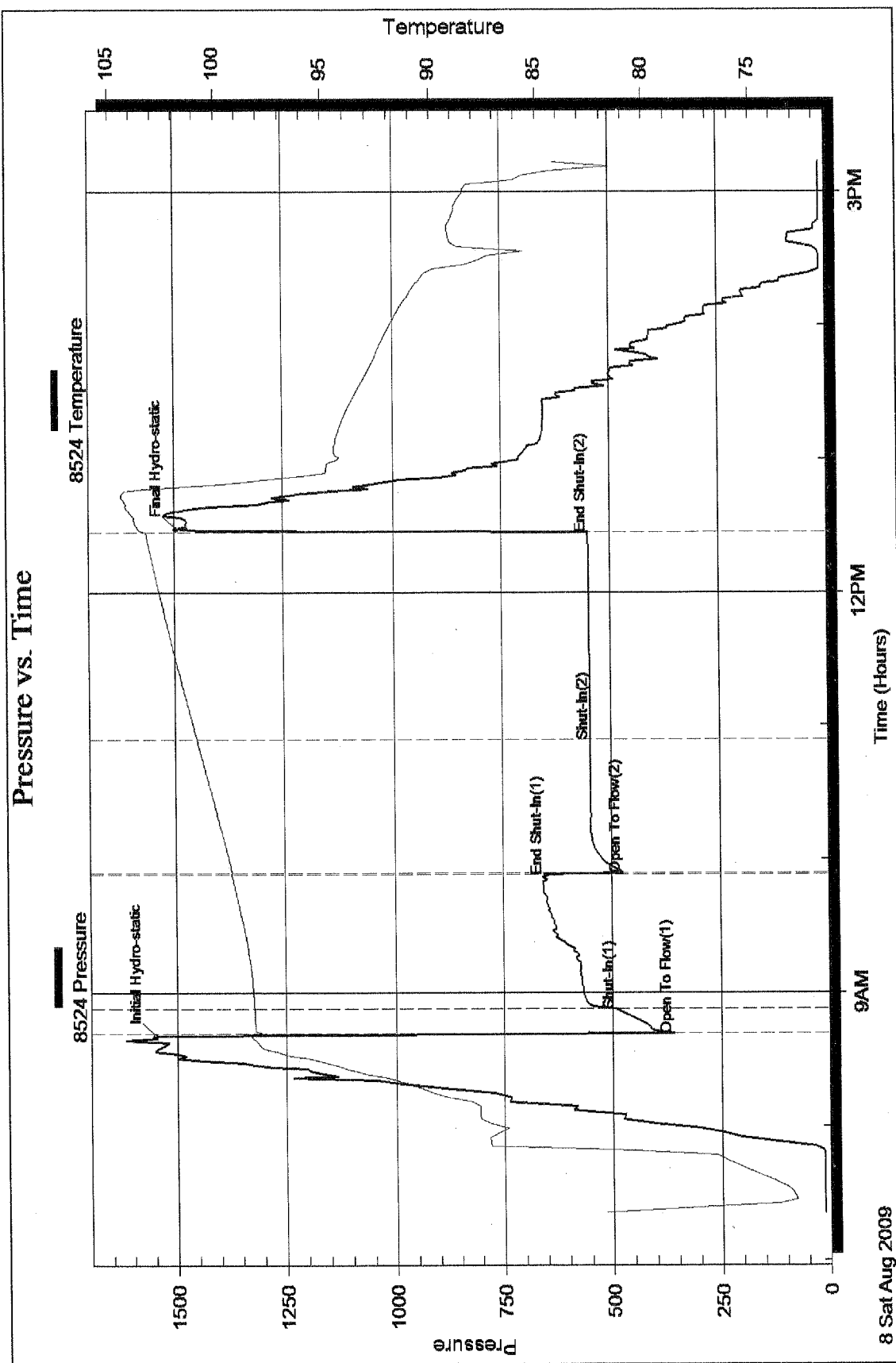
Gas Rates Information

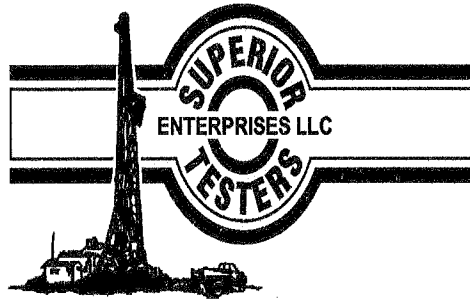
Temperature: 59 (deg F)
Relative Density: 0.65
Z Factor: 0.8

Gas Rates Table

Flow Period	Elapsed Time	Choke (inches)	Pressure (psia)	Gas Rate (Mcf/d)
2	0	0.25	3.30	5.23
2	0	0.25	3.30	5.23
2	10	0.25	3.30	5.23
2	20	0.25	3.40	5.39
2	30	0.25	4.90	7.77
2	40	0.25	3.40	5.39
2	50	0.25	4.90	7.77

Pressure vs. Time





DRILL STEM TEST REPORT

Prepared For: **SHELBY RESOURCES LLC**

PO BOX 1213
HAYS KS 67601

RECEIVED
KANSAS CORPORATION COMMISSION

JAN 12 2010

CONSERVATION DIVISION
WICHITA, KS

ATTN: KEITH REAVIS

4-19-12W

MILLER-DAVIS #4

Start Date: 2009.09.09 @ 02:20:00

End Date: 2009.09.09 @ 09:44:15

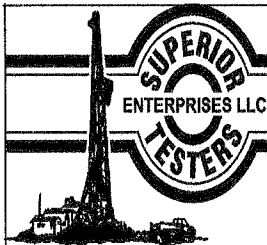
Job Ticket #: 16867 DST #: 3

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

Printed: 2009.08.09 @ 10:04:15

SHELBY RESOURCES LLC
MILLER-DAVIS #4
4-19-12W
DST # 3
LANSING H-1
2009.09.09

ND



DRILL STEM TEST REPORT

SHELBY RESOURCES LLC

MILLER-DAVIS #4

PO BOX 1213
HAYS KS 67601

4-19-12W

Job Ticket: 16867

DST#: 3

ATTN: KEITH REAVIS

Test Start: 2009.09.09 @ 02:20:00

GENERAL INFORMATION:

Formation: **LANSING H-I**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 03:50:46

Time Test Ended: 09:44:15

Test Type: Conventional Bottom Hole (Initial)

Tester: JARED SCHECK

Unit No: 3320-20-GB

Interval: 3222.00 ft (KB) To 3262.00 ft (KB) (TVD)

Reference Elevations: 1806.00 ft (KB)

Total Depth: 3262.00 ft (KB) (TVD)

Hole Diameter: 6.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

Serial #: 4005

Inside

Press@RunDepth: 287.80 psia @ 3257.00 ft (KB)

Capacity: 5000.00 psia

Start Date: 2009.09.09

End Date: 2009.09.09

Last Calib.: 2009.08.09

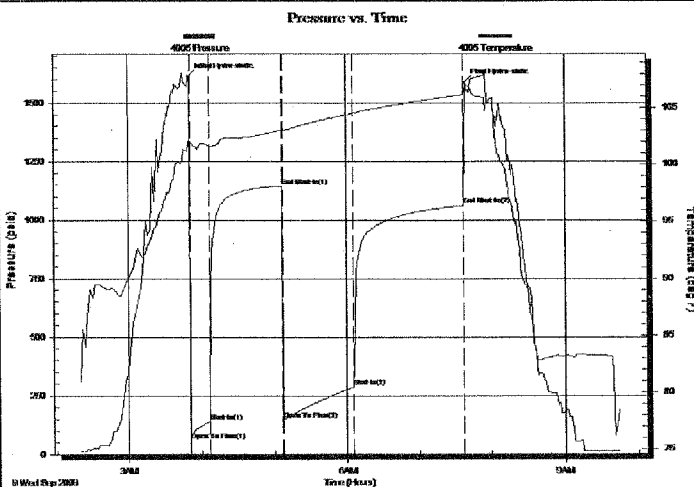
Start Time: 02:20:00

End Time: 09:44:15

Time On Btm: 2009.09.09 @ 03:49:46

Time Off Btm: 2009.09.09 @ 07:38:16

TEST COMMENT: 15/INITIAL OPEN:FAIR BLOW BUILT 8 INCHES INTO BUCKET IN 15 MINUTES
60/INITIAL SHUT IN:NO BLOW BACK
60/FINAL OPEN:FAIR BLOW BUILT BOTTOM OF BUCKET IN 46 MINUTES
90/FINAL SHUT IN:NO BLOW BACK



PRESSURE SUMMARY

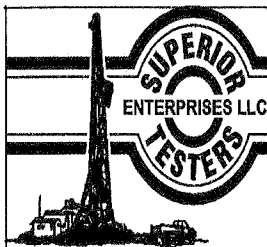
Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1611.70	102.00	Initial Hydro-static
1	59.73	101.99	Open To Flow (1)
17	140.55	101.60	Shut-In (1)
77	1145.26	103.05	End Shut-In (1)
78	149.48	103.05	Open To Flow (2)
136	287.80	104.51	Shut-In (2)
228	1061.30	106.15	End Shut-In (2)
229	1586.37	106.98	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
120.00	GAS IN PIPE	0.59
10.00	CLEAN OIL	0.14
580.00	M CUT W 10%M 90%W	8.14

Gas Rates

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

SHELBY RESOURCES LLC

MILLER-DAVIS #4

PO BOX 1213
HAYS KS 67601

4-19-12W

Job Ticket: 16867

DST#: 3

ATTN: KEITH REAVIS

Test Start: 2009.09.09 @ 02:20:00

GENERAL INFORMATION:

Formation: **LANSING H-I**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 03:50:46

Time Test Ended: 09:44:15

Test Type: Conventional Bottom Hole (Initial)

Tester: JARED SCHECK

Unit No: 3320-20-GB

Interval: **3222.00 ft (KB) To 3262.00 ft (KB) (TVD)**

Reference Elevations: 1806.00 ft (KB)

Total Depth: 3262.00 ft (KB) (TVD)

1801.00 ft (CF)

Hole Diameter: 6.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

Serial #: 8524

Outside

Press@RunDepth: 1063.61 psia @ 3257.00 ft (KB)

Capacity: 5000.00 psia

Start Date: 2009.09.09

End Date: 2009.09.09

Last Calib.: 2009.08.09

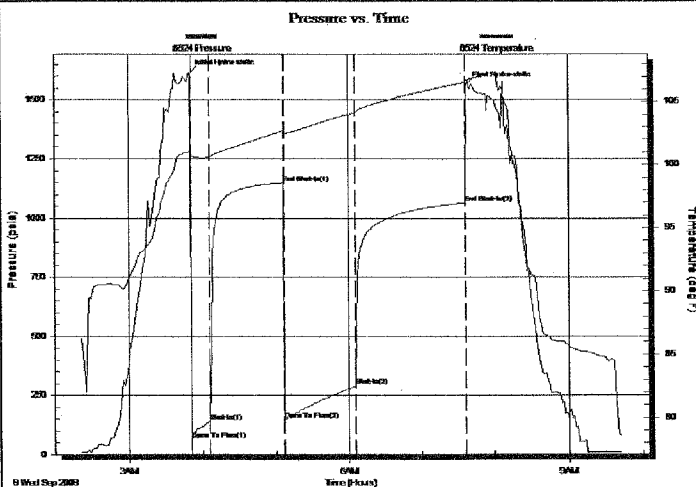
Start Time: 02:20:00

End Time: 09:42:00

Time On Btm: 2009.09.09 @ 03:49:30

Time Off Btm: 2009.09.09 @ 07:37:30

TEST COMMENT: 15/INITIAL OPEN:FAIR BLOW BUILT 8 INCHES INTO BUCKET IN 15 MINUTES
60/INITIAL SHUT IN:NO BLOW BACK
60/FINAL OPEN:FAIR BLOW BUILT BOTTOM OF BUCKET IN 46 MINUTES
90/FINAL SHUT IN:NO BLOW BACK



PRESSURE SUMMARY

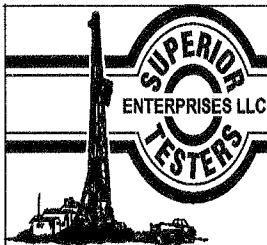
Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1612.08	101.03	Initial Hydro-static
1	61.45	100.73	Open To Flow (1)
16	139.75	100.60	Shut-In(1)
77	1148.09	102.69	End Shut-In(1)
77	147.15	102.46	Open To Flow (2)
136	289.58	104.15	Shut-In(2)
227	1063.61	106.54	End Shut-In(2)
228	1562.54	106.72	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
120.00	GAS IN PIPE	0.59
10.00	CLEAN OIL	0.14
580.00	M CUT W 10%M 90%W	8.14

Gas Rates

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

TOOL DIAGRAM

SHELBY RESOURCES LLC

MILLER-DAVIS #4

PO BOX 1213
HAYS KS 67601

4-19-12W

Job Ticket: 16867

DST#: 3

ATTN: KEITH REAVIS

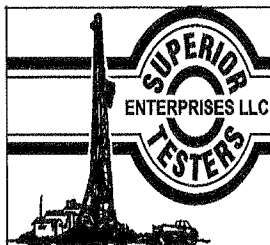
Test Start: 2009.09.09 @ 02:20:00

Tool Information

Drill Pipe:	Length: 3095.00 ft	Diameter: 3.80 inches	Volume: 43.41 bbl	Tool Weight:	10000.00 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: 120.00 ft	Diameter: 2.25 inches	Volume: 0.59 bbl	Weight to Pull Loose:	50000.00 lb	
			Total Volume:	44.00 bbl	Tool Chased	0.00 ft
Drill Pipe Above KB:	22.00 ft			String Weight: Initial	43000.00 lb	
Depth to Top Packer:	3222.00 ft			Final	43000.00 lb	
Depth to Bottom Packer:	ft					
Interval between Packers:	40.00 ft					
Tool Length:	69.00 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			3194.00	
Shut-In Tool	5.00			3199.00	
Hydrolic Tool	5.00			3204.00	
Jars	6.00			3210.00	
Safety Joint	2.00			3212.00	
Packer	5.00			3217.00	29.00 Bottom Of Top Packer
Packer	5.00			3222.00	
Perforations	35.00			3257.00	
Recorder	0.00	4005	Inside	3257.00	
Recorder	0.00	8524	Outside	3257.00	
Bullnose	5.00			3262.00	40.00 Bottom Packers & Anchor

Total Tool Length: 69.00



DRILL STEM TEST REPORT

FLUID SUMMARY

SHELBY RESOURCES LLC

MILLER-DAVIS #4

PO BOX 1213
HAYS KS 67601

4-19-12W

Job Ticket: 16867

DST#: 3

ATTN: KEITH REAVIS

Test Start: 2009.09.09 @ 02:20:00

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 63.00 sec/qt

Water Loss: 9.60 in³

Resistivity: 0.15 ohm.m

Salinity: 9100.00 ppm

Filter Cake: 1.00 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	0.590
10.00	CLEAN OIL	0.140
580.00	M CUT W 10%M 90%W	8.136

Total Length: 710.00 ft Total Volume: 8.866 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

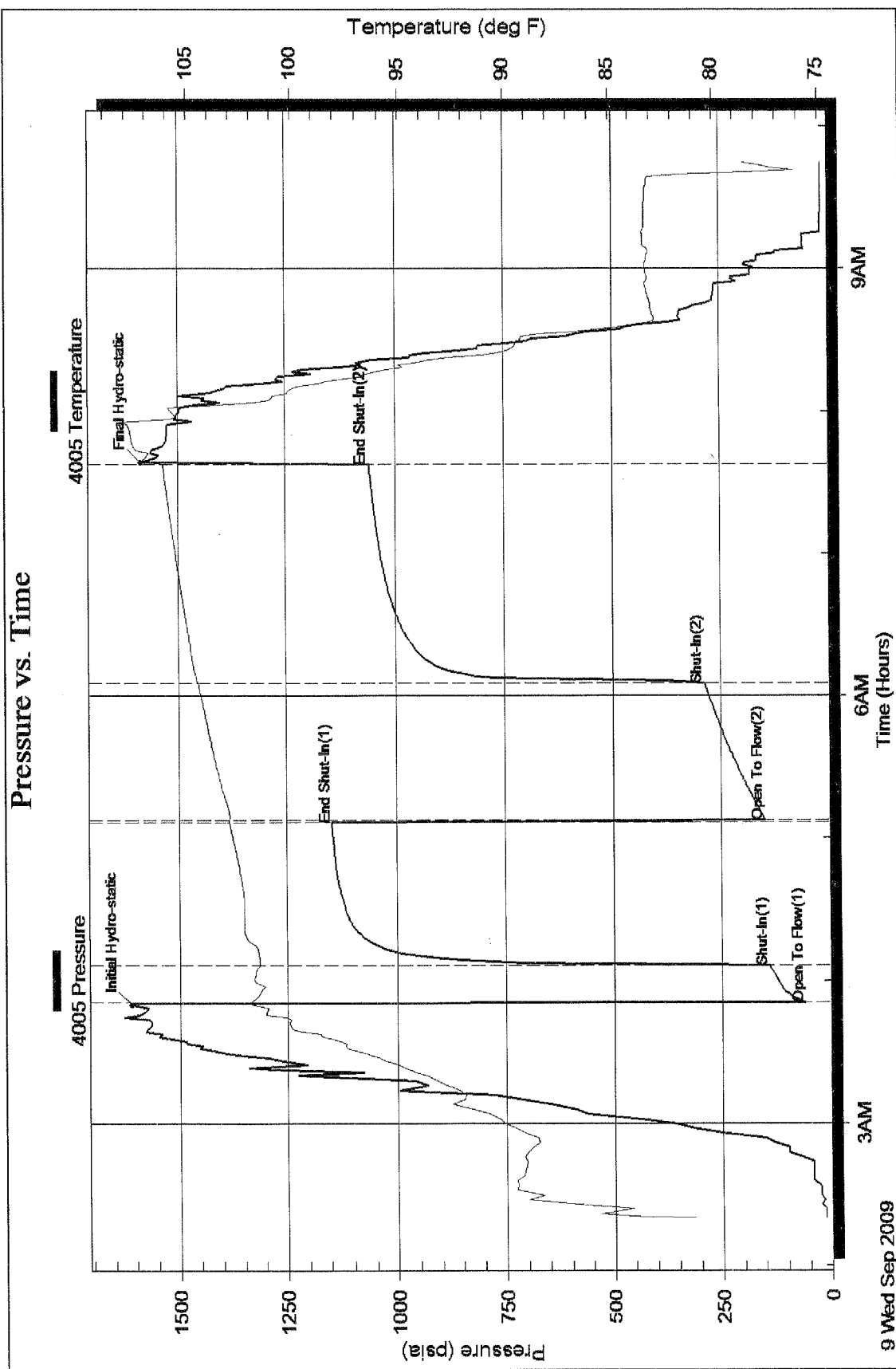
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: CHLORIDES 35,000

Pressure vs. Time

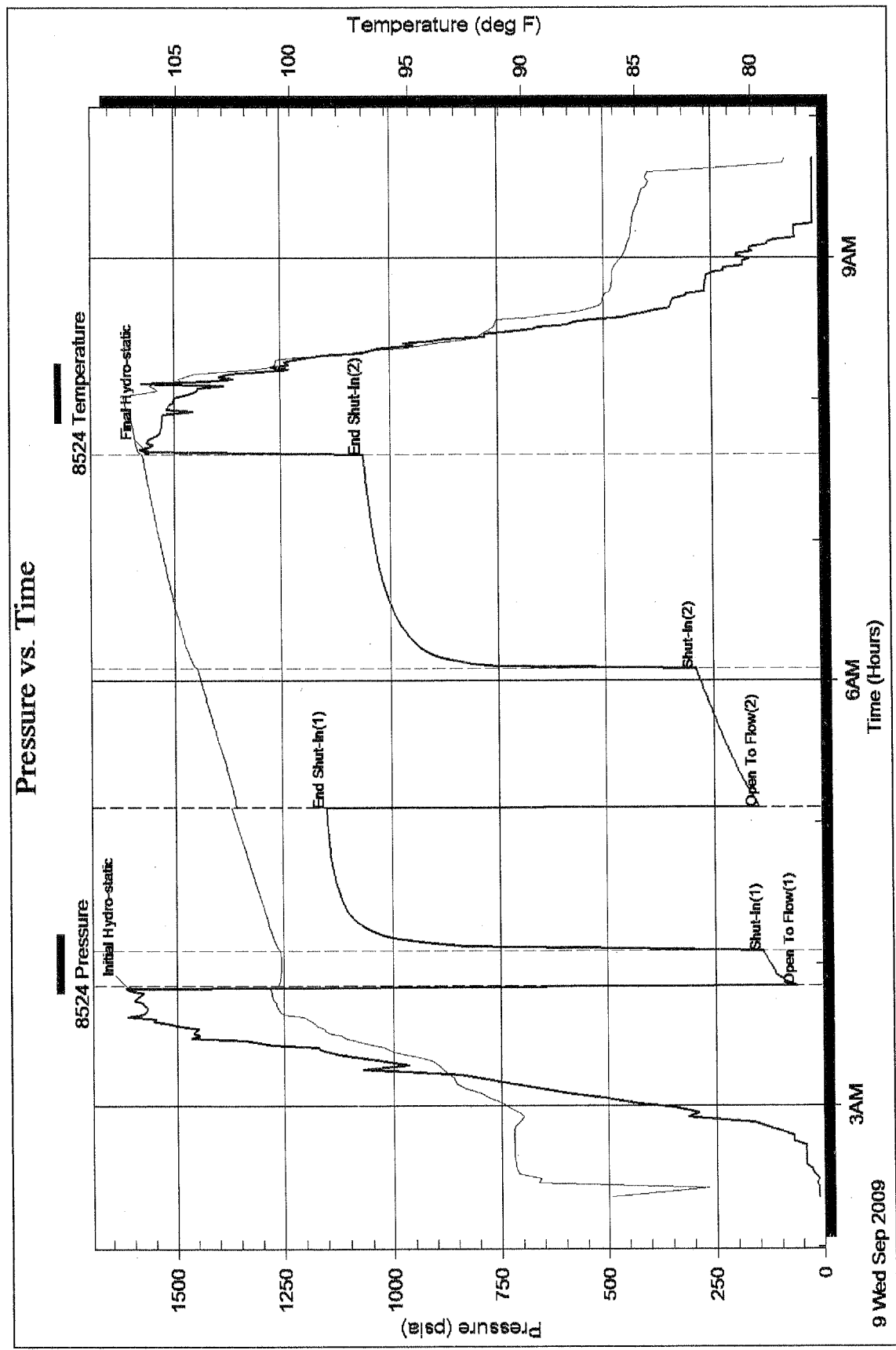


DST Test Number: 3

4-19-12W

Outside SHELBY RESOURCES LLC

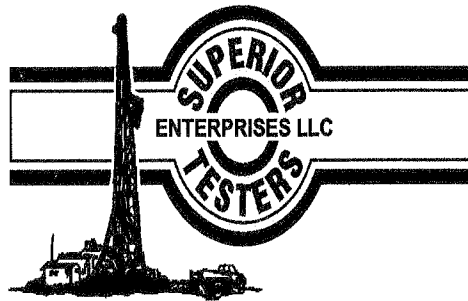
Serial #: 8524



Printed: 2009.08.09 @ 10:04:17

Ref. No: 16867

Superior Testers Enterprises LLC



DRILL STEM TEST REPORT

Prepared For: **SHELBY RESOURCES LLC**

PO BOX 1213
HAYS KS 67601

ATTN: KEITH REAVIS

4-19-12W

MILLER-DAVIS #4

Start Date: 2009.08.09 @ 15:10:00

End Date: 2009.08.09 @ 18:59:30

Job Ticket #: 16868 DST #: 4

RECEIVED
KANSAS CORPORATION COMMISSION

JAN 12 2010

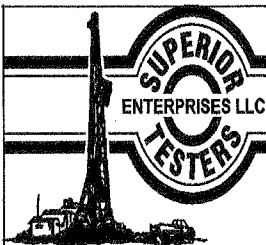
CONSERVATION DIVISION
WICHITA, KS

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

Printed: 2009.08.09 @ 19:08:36

SHELBY RESOURCES LLC
MILLER-DAVIS #4
4-19-12W
DST # 4
LANSING J ZONE
2009.08.09

IND



DRILL STEM TEST REPORT

SHELBY RESOURCES LLC

MILLER-DAVIS #4

PO BOX 1213
HAYS KS 67601

4-19-12W

Job Ticket: 16868

DST#: 4

ATTN: KEITH REAVIS

Test Start: 2009.08.09 @ 15:10:00

GENERAL INFORMATION:

Formation: **LANSING J ZONE**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 16:27:00

Time Test Ended: 18:59:30

Test Type: Conventional Bottom Hole (Initial)

Tester: JARED SCHECK

Unit No: 3320-20-GB

Interval: **3263.00 ft (KB) To 3271.00 ft (KB) (TVD)**

Reference Elevations: 1806.00 ft (KB)

Total Depth: 3271.00 ft (KB) (TVD)

1801.00 ft (CF)

Hole Diameter: 6.88 inches Hole Condition:

KB to GR/CF: 5.00 ft

Serial #: 8524

Outside

Press@RunDepth: 33.08 psia @ 3266.00 ft (KB)

Capacity: 5000.00 psia

Start Date: 2009.08.09

End Date: 2009.08.09

Last Calib.: 2009.08.09

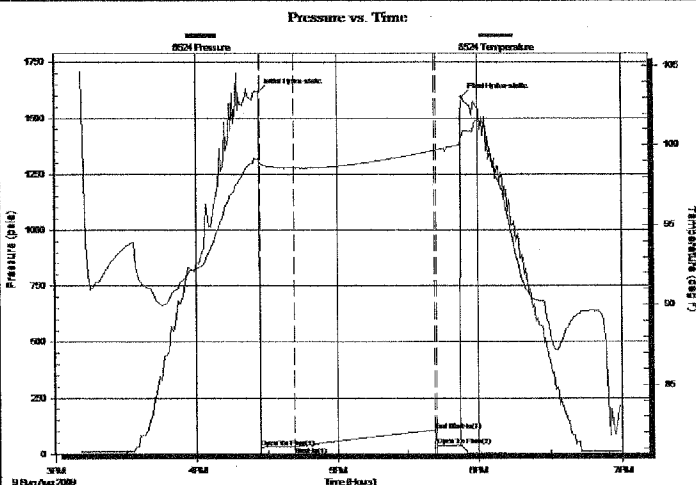
Start Time: 15:10:00

End Time: 18:59:30

Time On Btm: 2009.08.09 @ 16:26:30

Time Off Btm: 2009.08.09 @ 17:53:30

TEST COMMENT: 15/INITIAL OPEN:WEAK SURGE DID NOT BUILD FLUSHED TOOL 10 MINUTES INTO OPENGOOD SUGE DID NOT BUILD
60/INITIAL SHUT IN:NO BLOW BACK
10/FINAL OPEN:WEAK SRGE DID NOT BUILD FLSHED TOOL 5 MINUTES INTO OPEN GOOD SURGE DID NOT BUILD



PRESSURE SUMMARY

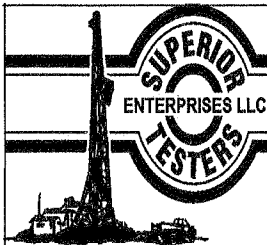
Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1617.10	99.10	Initial Hydro-static
1	29.69	98.81	Open To Flow (1)
15	33.08	98.57	Shut-In(1)
75	106.74	99.68	End Shut-In(1)
76	35.49	99.72	Open To Flow (2)
86	39.22	100.03	PULL TOOL
87	1593.69	100.66	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
5.00	MUD	0.02

Gas Rates

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

TOOL DIAGRAM

SHELBY RESOURCES LLC

MILLER-DAVIS #4

PO BOX 1213
HAYS KS 67601

4-19-12W

Job Ticket: 16868

DST#: 4

ATTN: KEITH REAVIS

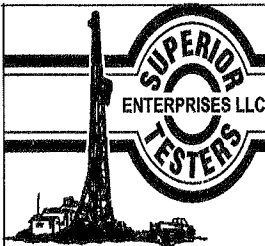
Test Start: 2009.08.09 @ 15:10:00

Tool Information

Drill Pipe:	Length: 3129.00 ft	Diameter: 3.80 inches	Volume: 43.89 bbl	Tool Weight: 10000.00 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: 120.00 ft	Diameter: 2.25 inches	Volume: 0.59 bbl	Weight to Pull Loose: 48000.00 lb
			Total Volume: 44.48 bbl	Tool Chased 0.00 ft
Drill Pipe Above KB:	15.00 ft			String Weight: Initial 43000.00 lb
Depth to Top Packer:	3263.00 ft			Final 43000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	8.00 ft			
Tool Length:	37.00 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			3235.00	
Shut-In Tool	5.00			3240.00	
Hydraulic Tool	5.00			3245.00	
Jars	6.00			3251.00	
Safety Joint	2.00			3253.00	
Packer	5.00			3258.00	29.00 Bottom Of Top Packer
Packer	5.00			3263.00	
Perforations	3.00			3266.00	
Recorder	0.00	4005	Inside	3266.00	
Recorder	0.00	8524	Outside	3266.00	
Bullnose	5.00			3271.00	8.00 Bottom Packers & Anchor

Total Tool Length: 37.00



DRILL STEM TEST REPORT

FLUID SUMMARY

SHELBY RESOURCES LLC

MILLER-DAVIS #4

PO BOX 1213
HAYS KS 67601

4-19-12W

Job Ticket: 16868

DST#: 4

ATTN: KEITH REAVIS

Test Start: 2009.08.09 @ 15:10:00

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: 63.00 sec/qt

Cushion Volume:

bbl

Water Loss: 9.60 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psia

Salinity: 9100.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5.00	MUD	0.025

Total Length: 5.00 ft

Total Volume: 0.025 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

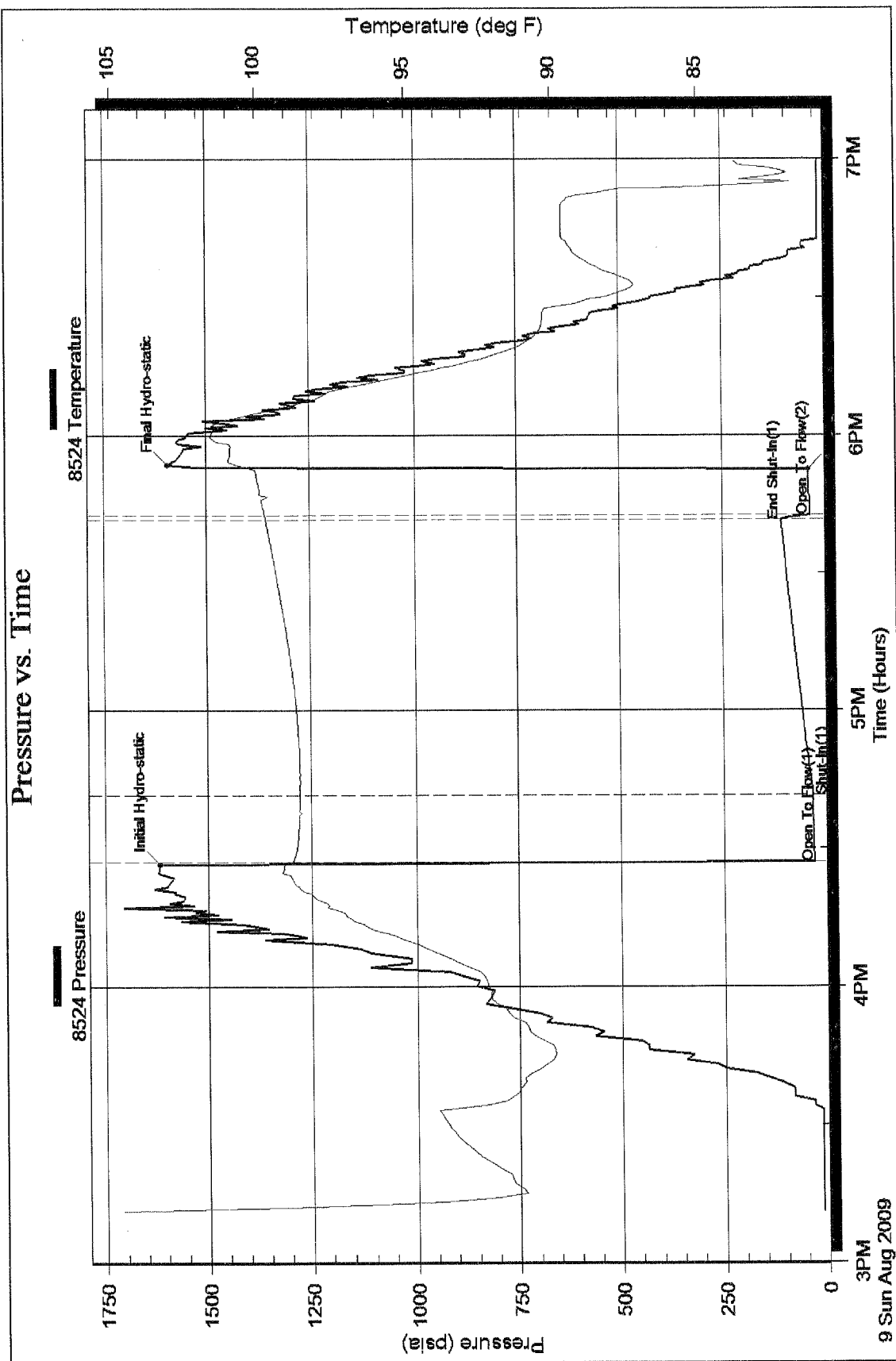
Recovery Comments:

DST Test Number: 4

4-19-12W

Serial #: 8524 Outside SHELBY RESOURCES LLC

Pressure vs. Time



Printed: 2009.08.09 @ 19:08:38

Ref. No: 16868

Superior Testers Enterprises LLC