



DRILL STEM TEST REPORT

Prepared For: **Shelby Resources LLC**

2717 Canal Blvd
Suite C
Hays, Kansas 67601

ATTN: Jeremy Schwartz

S-B Unit #1-21

21/18S/14W/Barton

Start Date: 2013.05.15 @ 04:59:00

End Date: 2013.05.15 @ 11:42:00

Job Ticket #: 17490 DST #: 2

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

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DST#: 2

Test Start: 2013.05.15 @ 04:59:00

GENERAL INFORMATION:

Formation: **Arbuckle**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 06:46:30
 Time Test Ended: 11:42:00
 Interval: **3402.00 ft (KB) To 3472.00 ft (KB) (TVD)**
 Total Depth: 3472.00 ft (KB) (TVD)
 Hole Diameter: 7.80 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Ken Swinney
 Unit No: 3325 Great Bend/20
 Reference Elevations: 1934.00 ft (KB)
 1925.00 ft (CF)
 KB to GR/CF: 9.00 ft

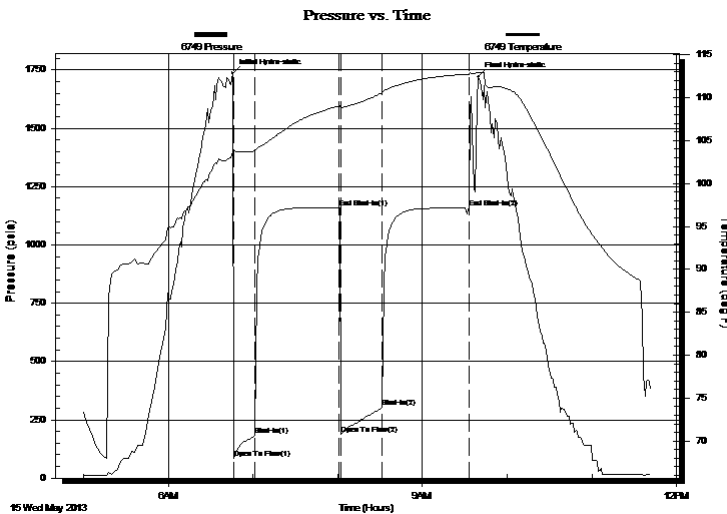
Serial #: 6749

Inside

Press @ Run Depth: 301.91 psia @ 3468.38 ft (KB) Capacity: 5000.00 psia
 Start Date: 2013.05.15 End Date: 2013.05.15 Last Calib.: 2013.05.15
 Start Time: 04:59:00 End Time: 11:42:00 Time On Btm: 2013.05.15 @ 06:45:30
 Time Off Btm: 2013.05.15 @ 09:39:30

TEST COMMENT: 1ST Open 15 Minutes/Good blow/Blow built to bottom of bucket in 8 minutes 45 seconds
 1ST Shut In 60 Minutes/Slight surface blow back
 2ND Open 30 Minutes/Good blow/Blow built to bottom of bucket in 11 minutes
 2ND Shut In 60 Minutes/No blow back

PRESSURE SUMMARY



Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1736.02	103.76	Initial Hydro-static
1	86.00	103.81	Open To Flow (1)
16	182.40	103.84	Shut-In(1)
76	1160.60	109.03	End Shut-In(1)
77	188.20	108.88	Open To Flow (2)
106	301.91	110.62	Shut-In(2)
168	1157.35	112.74	End Shut-In(2)
174	1719.37	112.95	Final Hydro-static

Recovery

Gas Rates

Length (ft)	Description	Volume (bbl)
270.00	Slightly gassy Muddy Water	2.15
0.00	Gas 1% Mud 49% Water 50%	0.00
240.00	Slightly gassy Muddy Water	3.37
0.00	Gas 1% Mud 14% Water 85%	0.00
0.00	Recovery Chlorides 25,000 ppm	0.00
0.00	Recov. Resist. .22 ohms @ 75 deg	0.00

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



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DST#: 2

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GENERAL INFORMATION:

Formation: **Arbuckle**
 Deviated: No Whipstock: ft (KB)
 Test Type: Conventional Bottom Hole (Initial)
 Time Tool Opened: 06:46:30
 Tester: Ken Swinney
 Time Test Ended: 11:42:00
 Unit No: 3325 Great Bend/20
 Interval: **3402.00 ft (KB) To 3472.00 ft (KB) (TVD)**
 Reference Elevations: 1934.00 ft (KB)
 Total Depth: 3472.00 ft (KB) (TVD)
 1925.00 ft (CF)
 Hole Diameter: 7.80 inches
 Hole Condition: Fair
 KB to GR/CF: 9.00 ft

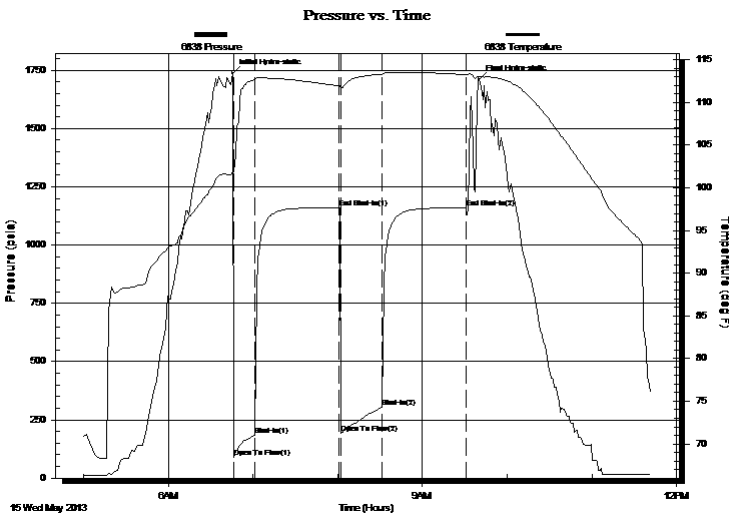
Serial #: 6838

Outside

Press @ RunDepth: 1159.67 psia @ 3469.38 ft (KB) Capacity: 5000.00 psia
 Start Date: 2013.05.15 End Date: 2013.05.15 Last Calib.: 2013.05.15
 Start Time: 04:59:00 End Time: 11:42:00 Time On Btm: 2013.05.15 @ 06:45:30
 Time Off Btm: 2013.05.15 @ 09:40:00

TEST COMMENT: 1ST Open 15 Minutes/Good blow/Blow built to bottom of bucket in 8 minutes 45 seconds
 1ST Shut In 60 Minutes/Slight surface blow back
 2ND Open 30 Minutes/Good blow/Blow built to bottom of bucket in 11 minutes
 2ND Shut In 60 Minutes/No blow back

PRESSURE SUMMARY



Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1737.11	101.83	Initial Hydro-static
1	87.53	101.84	Open To Flow (1)
16	184.82	112.69	Shut-In(1)
76	1160.16	111.93	End Shut-In(1)
77	192.52	111.64	Open To Flow (2)
106	305.77	113.30	Shut-In(2)
166	1159.67	113.25	End Shut-In(2)
175	1710.00	113.06	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
270.00	Slightly gassy Muddy Water	2.15
0.00	Gas 1% Mud 49% Water 50%	0.00
240.00	Slightly gassy Muddy Water	3.37
0.00	Gas 1% Mud 14% Water 85%	0.00
0.00	Recovery Chlorides 25,000 ppm	0.00
0.00	Recov. Resist. .22 ohms @ 75 deg	0.00

Gas Rates

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



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TOOL DIAGRAM

Shelby Resources LLC
 2717 Canal Blvd
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 Hays, Kansas 67601
 ATTN: Jeremy Schwartz

21/18S/14W/Barton
S-B Unit #1-21
 Job Ticket: 17490 **DST#: 2**
 Test Start: 2013.05.15 @ 04:59:00

Tool Information

Drill Pipe:	Length: 3213.00 ft	Diameter: 3.80 inches	Volume: 45.07 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: 180.00 ft	Diameter: 2.25 inches	Volume: 0.89 bbl	Weight to Pull Loose: 100000.0 lb
			<u>Total Volume: 45.96 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	18.00 ft			String Weight: Initial 70000.00 lb
Depth to Top Packer:	3402.00 ft			Final 71000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	70.38 ft			
Tool Length:	97.38 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut In Tool	5.00			3380.00	
Hydraulic Tool	5.00			3385.00	
Jars	5.00			3390.00	
Safety Joint	2.00			3392.00	
Packer	5.00			3397.00	27.00 Bottom Of Top Packer
Packer	5.00			3402.00	
Perforations	5.00			3407.00	
Change Over Sub	0.75			3407.75	
Drill Pipe	31.88			3439.63	
Change Over Sub	0.75			3440.38	
Anchor	27.00			3467.38	
Recorder	1.00	6749	Inside	3468.38	
Recorder	1.00	6838	Outside	3469.38	
Bullnose	3.00			3472.38	70.38 Bottom Packers & Anchor

Total Tool Length: 97.38



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FLUID SUMMARY

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Job Ticket: 17490

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Test Start: 2013.05.15 @ 04:59:00

Mud and Cushion Information

Mud Type: Gel Chem
Mud Weight: 9.00 lb/gal
Viscosity: 63.00 sec/qt
Water Loss: 8.40 in³
Resistivity: ohm.m
Salinity: 5100.00 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

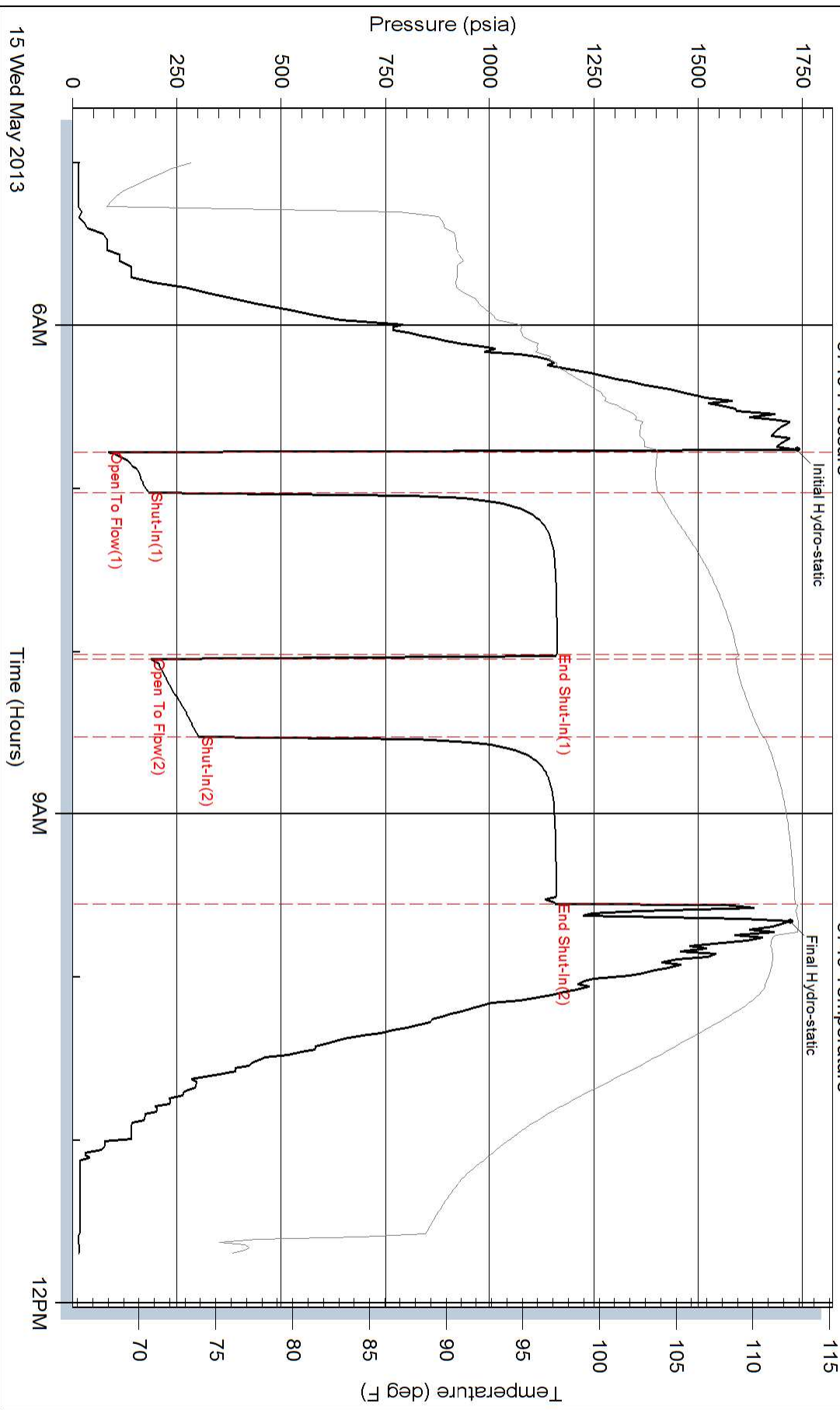
Recovery Table

Length ft	Description	Volume bbl
270.00	Slightly gassy Muddy Water	2.148
0.00	Gas 1% Mud 49% Water 50%	0.000
240.00	Slightly gassy Muddy Water	3.367
0.00	Gas 1% Mud 14% Water 85%	0.000
0.00	Recovery Chlorides 25,000 ppm	0.000
0.00	Recov. Resist. .22 ohms @ 75 deg	0.000

Total Length: 510.00 ft Total Volume: 5.515 bbl

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

Pressure vs. Time



Pressure vs. Time

