



DRILL STEM TEST REPORT

Prepared For: **Shelby Resources Incorporated**

2717 Canal Blvd.
Suite C
Hays, Kansas 67601

ATTN: Keith Reavis

Buster #1-3

3/22S/16/Pawnee

Start Date: 2012.12.20 @ 03:51:00

End Date: 2012.12.20 @ 12:04:00

Job Ticket #: 16931 DST #: 2

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

Printed: 2012.12.20 @ 18:43:42



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Job Ticket: 16931

DST#: 2

Test Start: 2012.12.20 @ 03:51:00

GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 06:59:30

Time Test Ended: 12:04:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Ken Swinney

Unit No: 3325 Great Bend/52

Interval: 3885.00 ft (KB) To 3907.00 ft (KB) (TVD)

Reference Elevations: 1999.00 ft (KB)

Total Depth: 3907.00 ft (KB) (TVD)

1989.00 ft (CF)

Hole Diameter: 7.80 inches Hole Condition: Fair

KB to GR/CF: 10.00 ft

Serial #: 6749

Inside

Press @ Run Depth: 1308.15 psia @ 3789.00 ft (KB)

Capacity: 5000.00 psia

Start Date: 2012.12.20

End Date: 2012.12.20

Last Calib.: 2012.12.20

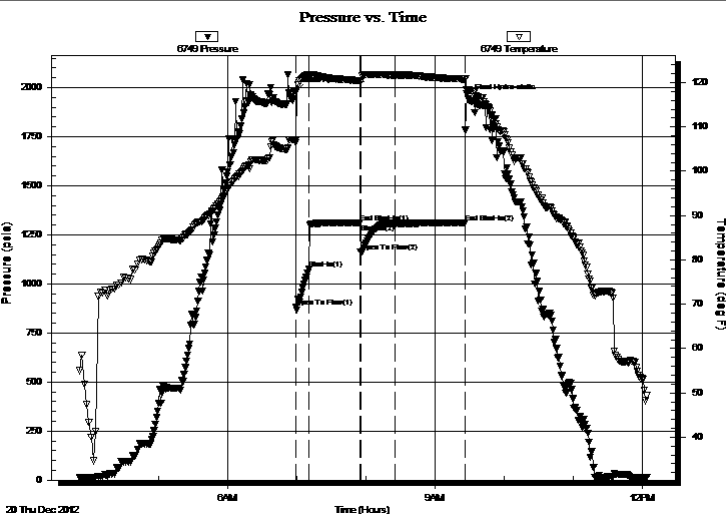
Start Time: 03:52:00

End Time: 12:04:00

Time On Btm: 2012.12.20 @ 06:59:00

Time Off Btm: 2012.12.20 @ 09:28:30

TEST COMMENT: 1ST Open 10 Minutes/Strong blow/Blow built to bottom of bucket in 40 seconds
1ST Shut In 45 Minutes/Blow back built to 3/4 inch
2ND Open 30 Minutes/Strong blow/Blow built to bottom of bucket in 30 seconds
2ND Shut In 60 Minutes/No blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1978.45	106.96	Initial Hydro-static
1	879.68	106.48	Open To Flow (1)
12	1074.11	121.71	Shut-In(1)
56	1311.00	120.43	End Shut-In(1)
57	1163.01	120.35	Open To Flow (2)
86	1308.15	121.67	Shut-In(2)
147	1310.31	120.77	End Shut-In(2)
150	1941.42	118.38	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
189.00	Muddy Water	0.93
0.00	Mud 50% Water 50%	0.00
2614.00	Slightly Mud and Gas cut Water	36.48
0.00	Mud 2% Gas 3% Water 95%	0.00
0.00	Recov. Chlorides 30,000 ppm	0.00
0.00	Recov. Resist. .32 ohms @ 45 deg	0.00

Gas Rates

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



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Job Ticket: 16931

DST#: 2

Test Start: 2012.12.20 @ 03:51:00

GENERAL INFORMATION:

Formation: **Arbuckle**
 Deviated: No Whipstock: ft (KB)
 Test Type: Conventional Bottom Hole (Initial)
 Time Tool Opened: 06:59:30 Tester: Ken Swinney
 Time Test Ended: 12:04:00 Unit No: 3325 Great Bend/52
 Interval: **3885.00 ft (KB) To 3907.00 ft (KB) (TVD)** Reference Elevations: 1999.00 ft (KB)
 Total Depth: 3907.00 ft (KB) (TVD) 1989.00 ft (CF)
 Hole Diameter: 7.80 inches Hole Condition: Fair KB to GR/CF: 10.00 ft

Serial #: 6999

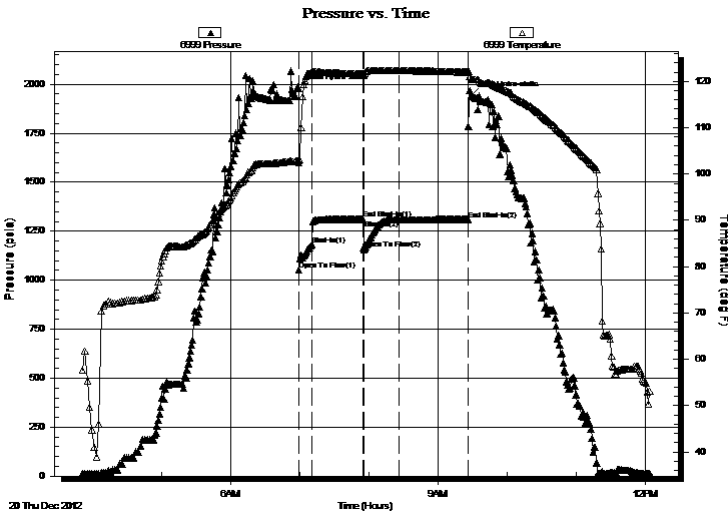
Outside

Press @ RunDepth: 1310.37 psia @ 3790.00 ft (KB) Capacity: 5000.00 psia
 Start Date: 2012.12.20 End Date: 2012.12.20 Last Calib.: 2012.12.20
 Start Time: 03:52:00 End Time: 12:04:00 Time On Btm: 2012.12.20 @ 06:59:00
 Time Off Btm: 2012.12.20 @ 09:28:30

TEST COMMENT: 1ST Open 10 Minutes/Strong blow/Blow built to bottom of bucket in 40 seconds
 1ST Shut In 45 Minutes/Blow back built to 3/4 inch
 2ND Open 30 Minutes/Strong blow/Blow built to bottom of bucket in 30 seconds
 2ND Shut In 60 Minutes/No blow back

PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1978.96	102.87	Initial Hydro-static
1	1050.72	102.48	Open To Flow (1)
12	1182.45	122.00	Shut-In(1)
56	1311.04	121.63	End Shut-In(1)
57	1157.69	121.58	Open To Flow (2)
88	1308.20	122.29	Shut-In(2)
147	1310.37	121.97	End Shut-In(2)
150	1941.78	120.32	Final Hydro-static



Recovery

Length (ft)	Description	Volume (bbl)
189.00	Muddy Water	0.93
0.00	Mud 50% Water 50%	0.00
2614.00	Slightly Mud and Gas cut Water	36.48
0.00	Mud 2% Gas 3% Water 95%	0.00
0.00	Recov. Chlorides 30,000 ppm	0.00
0.00	Recov. Resist. .32 ohms @ 45 deg	0.00

Gas Rates

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



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TOOL DIAGRAM

Shelby Resources Incorporated

3/22S/16/Pawnee

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Buster #1-3

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DST#: 2

Test Start: 2012.12.20 @ 03:51:00

Tool Information

Drill Pipe:	Length: 3668.00 ft	Diameter: 3.80 inches	Volume: 51.45 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: 85000.00 lb
			<u>Total Volume: 52.48 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	134.00 ft			String Weight: Initial 65000.00 lb
Depth to Top Packer:	3771.00 ft			Final 80000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	22.00 ft			
Tool Length:	49.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
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Shut In Tool	5.00			3749.00	
Hydraulic Tool	5.00			3754.00	
Jars	5.00			3759.00	
Safety Joint	2.00			3761.00	
Packer	5.00			3766.00	27.00 Bottom Of Top Packer
Packer	5.00			3771.00	
Anchor	17.00			3788.00	
Recorder	1.00	6749	Inside	3789.00	
Recorder	1.00	6999	Outside	3790.00	
Bullnose	3.00			3793.00	22.00 Bottom Packers & Anchor
Total Tool Length:	49.00				



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FLUID SUMMARY

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Mud and Cushion Information

Mud Type: Gel Chem
Mud Weight: 10.00 lb/gal
Viscosity: 62.00 sec/qt
Water Loss: 7.97 in³
Resistivity: ohm.m
Salinity: 7800.00 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
189.00	Muddy Water	0.929
0.00	Mud 50% Water 50%	0.000
2614.00	Slightly Mud and Gas cut Water	36.476
0.00	Mud 2% Gas 3% Water 95%	0.000
0.00	Recov. Chlorides 30,000 ppm	0.000
0.00	Recov. Resist. .32 ohms @ 45 deg	0.000

Total Length: 2803.00 ft Total Volume: 37.405 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

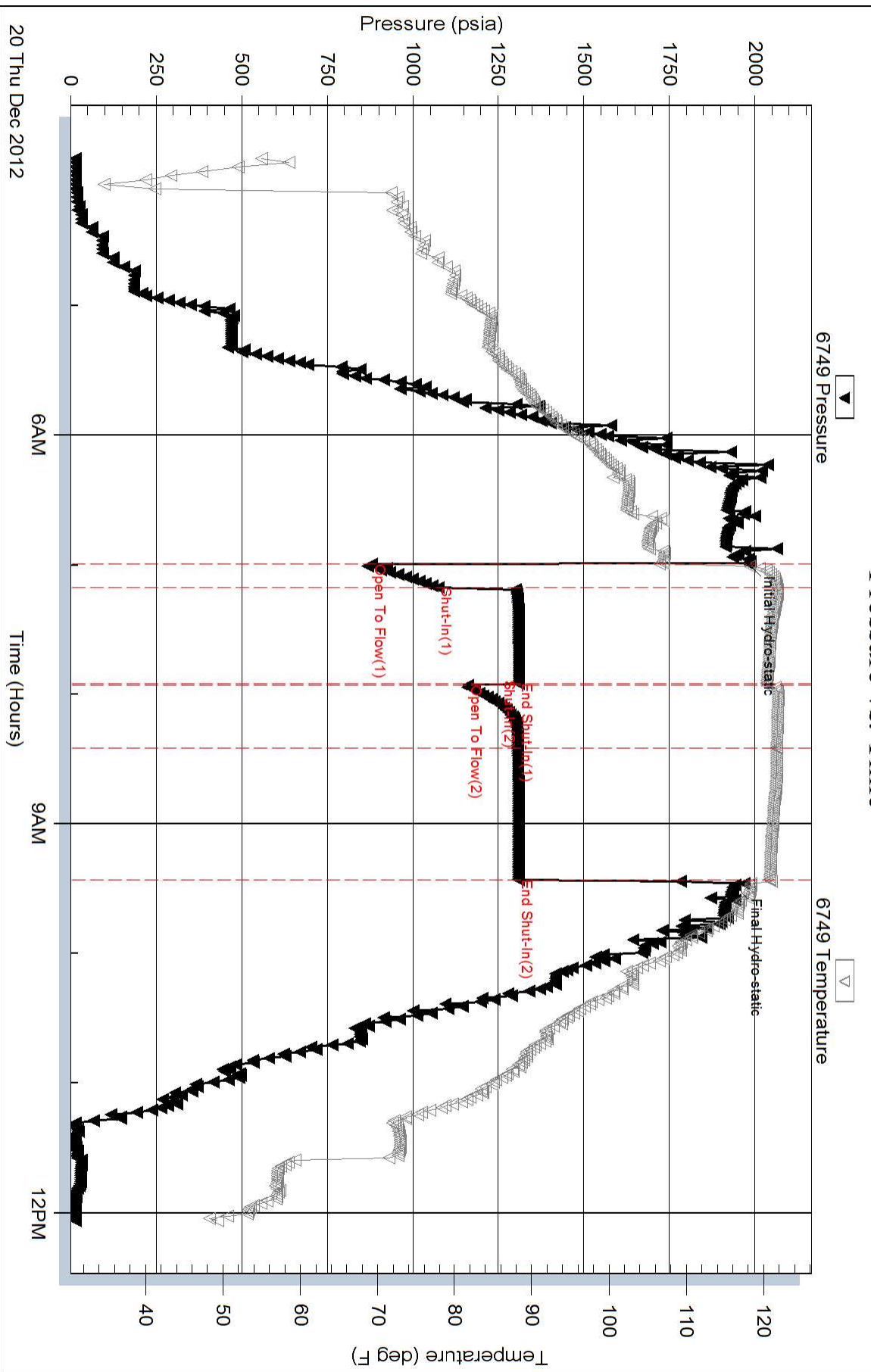
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time



Pressure vs. Time

