



DRILL STEM TEST REPORT

Prepared For: **Shelby Resources LLC**

2717 Canal Boulevard
Suite C
Hays, Kansas 67601

ATTN: Jeremy Schwartz

Nancy 3-17

17/17S/13W/Barton

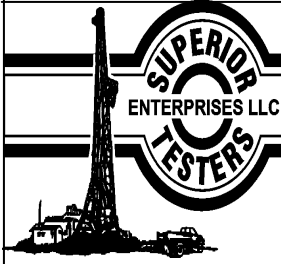
Start Date: 2014.05.08 @ 18:10:00

End Date: 2014.05.09 @ 00:37:00

Job Ticket #: 18256 DST #: 4

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

Printed: 2014.05.09 @ 00:59:34



DRILL STEM TEST REPORT

Shelby Resources LLC
 2717 Canal Boulevard
 Suite C
 Hays, Kansas 67601
 ATTN: Jeremy Schwartz

17/17S/13W/Barton

Nancy 3-17

Job Ticket: 18256

DST#: 4

Test Start: 2014.05.08 @ 18:10:00

GENERAL INFORMATION:

Formation: **Arbuckle**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 19:27:30
 Time Test Ended: 00:37:00
 Interval: **3450.00 ft (KB) To 3462.00 ft (KB) (TVD)**
 Total Depth: 3462.00 ft (KB) (TVD)
 Hole Diameter: 7.80 inches Hole Condition: Poor
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Ken Swinney
 Unit No: 3325 Great Bend/32
 Reference Elevations: 1978.00 ft (KB)
 1965.00 ft (CF)
 KB to GR/CF: 13.00 ft

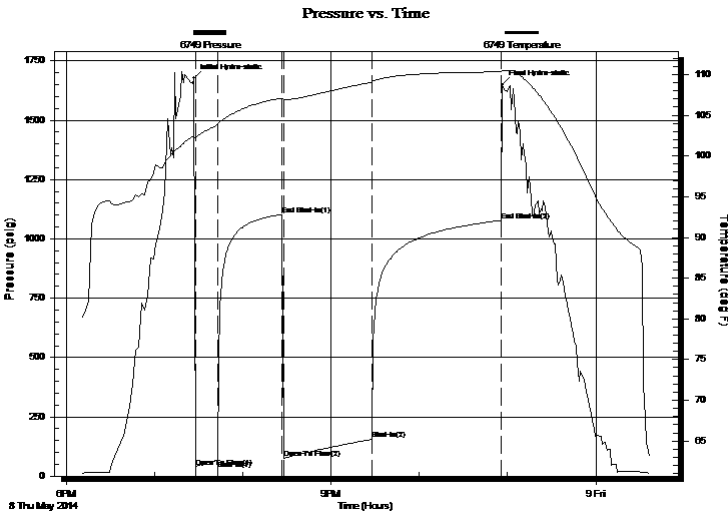
Serial #: 6749

Inside

Press@RunDepth: 155.71 psig @ 3458.00 ft (KB) Capacity: 5000.00 psig
 Start Date: 2014.05.08 End Date: 2014.05.09 Last Calib.: 2014.05.09
 Start Time: 18:10:00 End Time: 00:37:00 Time On Btm: 2014.05.08 @ 19:26:30
 Time Off Btm: 2014.05.08 @ 22:56:30

TEST COMMENT: 1ST Open 15 Minutes/Fair blow/Blow built to 6 inches
 1ST Shut In 45 Minutes/No blow back
 2ND Open 60 Minutes/Good blow/Blow built to 11 inches
 2ND Shut In 90 Minutes/No blow back

PRESSURE SUMMARY



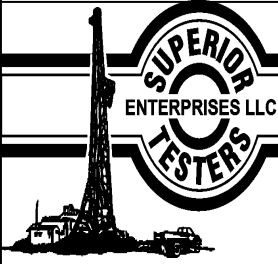
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1676.95	102.42	Initial Hydro-static
1	39.13	102.16	Open To Flow (1)
16	67.35	103.83	Shut-In(1)
61	1102.99	107.11	End Shut-In(1)
61	74.29	106.91	Open To Flow (2)
121	155.71	109.06	Shut-In(2)
210	1077.81	110.33	End Shut-In(2)
210	1648.86	110.47	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
60.00	Oily Mud/Oil 30% Mud 70%	0.30
60.00	Muddy Oil/Mud 40% Oil 60%	0.30
195.00	Clean Oil 100%	0.96
0.00	Corrected Grav. Oil 32	0.00

Gas Rates

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



DRILL STEM TEST REPORT

Shelby Resources LLC
 2717 Canal Boulevard
 Suite C
 Hays, Kansas 67601
 ATTN: Jeremy Schwartz

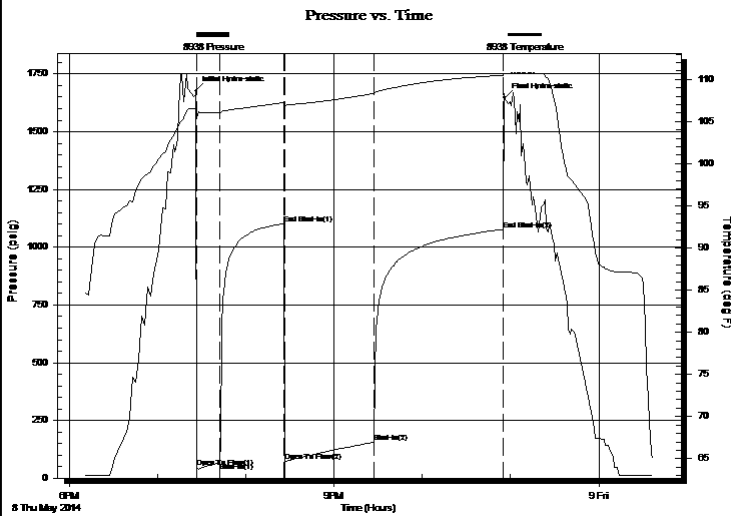
17/17S/13W/Barton
Nancy 3-17
 Job Ticket: 18256 **DST#: 4**
 Test Start: 2014.05.08 @ 18:10:00

GENERAL INFORMATION:

Formation: **Arbuckle**
 Deviated: No Whipstock: ft (KB)
 Test Type: Conventional Bottom Hole (Initial)
 Time Tool Opened: 19:27:30 Tester: Ken Swinney
 Time Test Ended: 00:37:00 Unit No: 3325 Great Bend/32
 Interval: **3450.00 ft (KB) To 3462.00 ft (KB) (TVD)** Reference Elevations: 1978.00 ft (KB)
 Total Depth: 3462.00 ft (KB) (TVD) 1965.00 ft (CF)
 Hole Diameter: 7.80 inches Hole Condition: Poor KB to GR/CF: 13.00 ft

Serial #: 8938 Outside
 Press@RunDepth: 1076.78 psig @ 3459.00 ft (KB) Capacity: 5000.00 psig
 Start Date: 2014.05.08 End Date: 2014.05.09 Last Calib.: 2014.05.09
 Start Time: 18:10:00 End Time: 00:37:00 Time On Btm: 2014.05.08 @ 19:26:00
 Time Off Btm: 2014.05.08 @ 22:56:00

TEST COMMENT: 1ST Open 15 Minutes/Fair blow/Blow built to 6 inches
 1ST Shut In 45 Minutes/No blow back
 2ND Open 60 Minutes/Good blow/Blow built to 11 inches
 2ND Shut In 90 Minutes/No blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1676.39	106.57	Initial Hydro-static
1	46.15	105.49	Open To Flow (1)
16	66.92	106.03	Shut-In(1)
60	1101.94	107.25	End Shut-In(1)
61	74.02	106.77	Open To Flow (2)
121	155.61	108.33	Shut-In(2)
209	1076.78	110.49	End Shut-In(2)
210	1647.76	110.65	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
60.00	Oily Mud/Oil 30% Mud 70%	0.30
60.00	Muddy Oil/Mud 40% Oil 60%	0.30
195.00	Clean Oil 100%	0.96
0.00	Corrected Grav. Oil 32	0.00

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
--	----------------	-----------------	------------------



DRILL STEM TEST REPORT

TOOL DIAGRAM

Shelby Resources LLC

17/17S/13W/Barton

2717 Canal Boulevard
Suite C
Hays, Kansas 67601
ATTN: Jeremy Schwartz

Nancy 3-17

Job Ticket: 18256

DST#: 4

Test Start: 2014.05.08 @ 18:10:00

Tool Information

Drill Pipe:	Length: 3121.00 ft	Diameter: 3.80 inches	Volume: 43.78 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: 328.07 ft	Diameter: 2.25 inches	Volume: 1.61 bbl	Weight to Pull Loose: 80000.00 lb
			Total Volume: 45.39 bbl	Tool Chased 0.00 ft
Drill Pipe Above KB:	26.07 ft			String Weight: Initial 73000.00 lb
Depth to Top Packer:	3450.00 ft			Final 74000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	12.00 ft			
Tool Length:	39.00 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			3428.00	
Hydraulic tool	5.00			3433.00	
Jars	5.00			3438.00	
Safety Joint	2.00			3440.00	
Top Packer	5.00			3445.00	
Packer	5.00			3450.00	27.00 Bottom Of Top Packer
Anchor	7.00			3457.00	
Recorder	1.00	6749	Inside	3458.00	
Recorder	1.00	8938	Outside	3459.00	
Bullnose	3.00			3462.00	12.00 Anchor Tool
Total Tool Length:	39.00				



DRILL STEM TEST REPORT

FLUID SUMMARY

Shelby Resources LLC

17/17S/13W/Barton

2717 Canal Boulevard
Suite C
Hays, Kansas 67601
ATTN: Jeremy Schwartz

Nancy 3-17

Job Ticket: 18256

DST#: 4

Test Start: 2014.05.08 @ 18:10:00

Mud and Cushion Information

Mud Type: Gel Chem
Mud Weight: 9.00 lb/gal
Viscosity: 61.00 sec/qt
Water Loss: 7.60 in³
Resistivity: ohm.m
Salinity: 4500.00 ppm
Filter Cake: 1.00 inches

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

Oil API: deg API
Water Salinity: ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
60.00	Oily Mud/Oil 30% Mud 70%	0.295
60.00	Muddy Oil/Mud 40% Oil 60%	0.295
195.00	Clean Oil 100%	0.959
0.00	Corrected Grav. Oil 32	0.000

Total Length: 315.00 ft Total Volume: 1.549 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

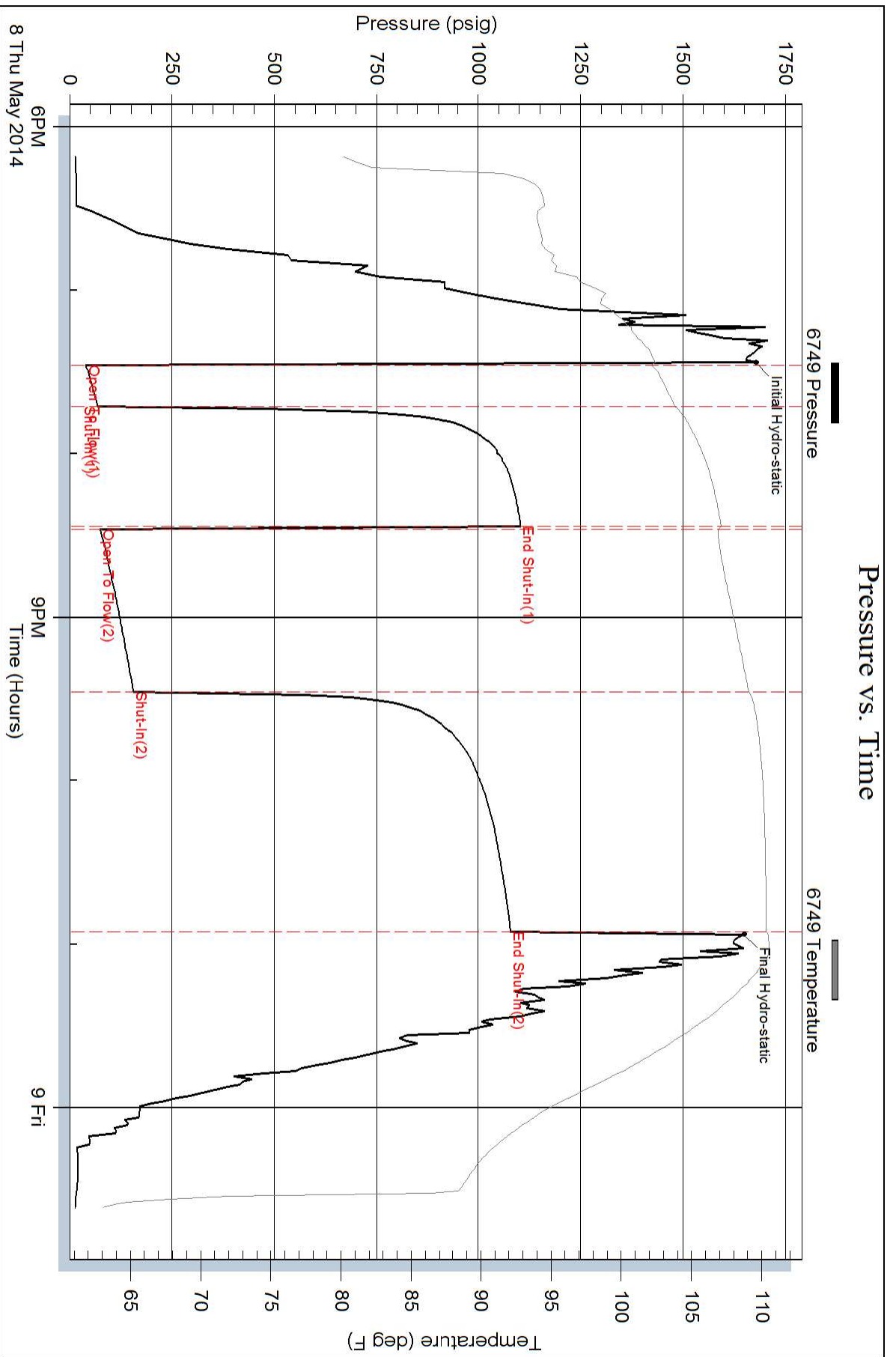
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time



Pressure vs. Time

