



DRILL STEM TEST REPORT

Prepared For: **Shelby Resources, LLC**

2717 Canal BLVD.
Suite C
Hays, Ks 67601

ATTN: Jeremy Schwartz

P-W Unit #1-35

35/21s/16w/Pawnee

Start Date: 2013.12.31 @ 11:40:00

End Date: 2013.12.31 @ 16:45:30

Job Ticket #: 18617 DST #: 2

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

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Job Ticket: 18617

DST#: 2

Test Start: 2013.12.31 @ 11:40:00

GENERAL INFORMATION:

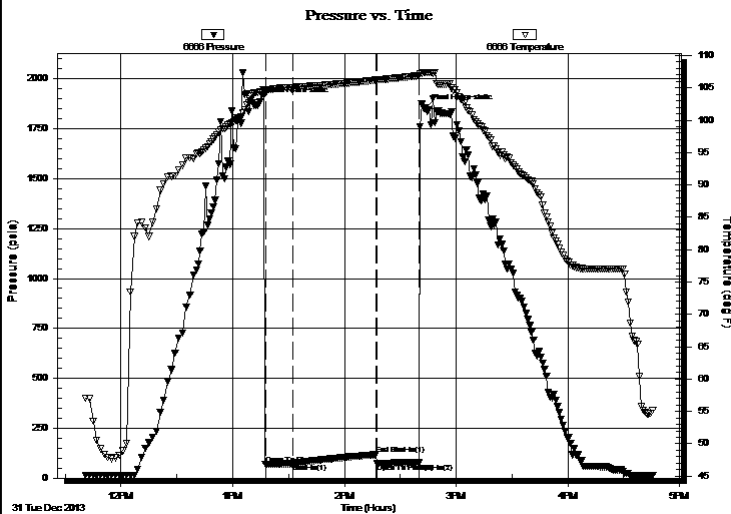
Formation: **Conglomerate**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 13:17:30
 Time Test Ended: 16:45:30
 Interval: **3785.00 ft (KB) To 3865.00 ft (KB) (TVD)**
 Total Depth: 3865.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Shane Konzem
 Unit No: 3330/60/Great Bend
 Reference Elevations: 1991.00 ft (KB)
 1978.00 ft (CF)
 KB to GR/CF: 13.00 ft

Serial #: 6666

Inside

Press @ Run Depth: 72.90 psia @ 3859.35 ft (KB) Capacity: 5000.00 psia
 Start Date: 2013.12.31 End Date: 2013.12.31 Last Calib.: 2013.12.31
 Start Time: 11:40:00 End Time: 16:45:30 Time On Btm: 2013.12.31 @ 13:14:30
 Time Off Btm: 2013.12.31 @ 14:43:00

TEST COMMENT: 1st Open/ 15 Minutes. Weak blow built to 3/4 inch in bucket of deisel.
 1st Shut In/ 45 Minutes. No blow back.
 2nd Open/ 20 Minutes. Weak surface blow that died after 20 minutes. Pulled test per geo.



PRESSURE SUMMARY

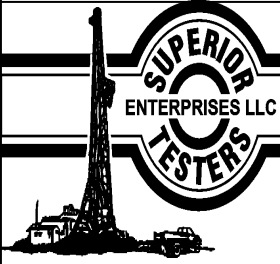
Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1883.26	104.39	Initial Hydro-static
3	68.81	104.53	Open To Flow (1)
18	72.90	105.06	Shut-In(1)
63	117.89	106.18	End Shut-In(1)
63	74.65	106.18	Open To Flow (2)
86	76.73	106.86	Shut-In(2)
89	1850.15	107.33	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
10.00	100% mud	0.05

Gas Rates

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



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P-W Unit #1-35

Job Ticket: 18617

DST#: 2

Test Start: 2013.12.31 @ 11:40:00

GENERAL INFORMATION:

Formation: **Conglomerate**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 13:17:30

Time Test Ended: 16:45:30

Test Type: Conventional Bottom Hole (Initial)

Tester: Shane Konzem

Unit No: 3330/60/Great Bend

Interval: 3785.00 ft (KB) To 3865.00 ft (KB) (TVD)

Total Depth: 3865.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 1991.00 ft (KB)

1978.00 ft (CF)

KB to GR/CF: 13.00 ft

Serial #: 6651 Outside

Press @ Run Depth: 120.82 psia @ 3860.35 ft (KB)

Start Date: 2013.12.31

Start Time: 11:50:00

Capacity: 5000.00 psia

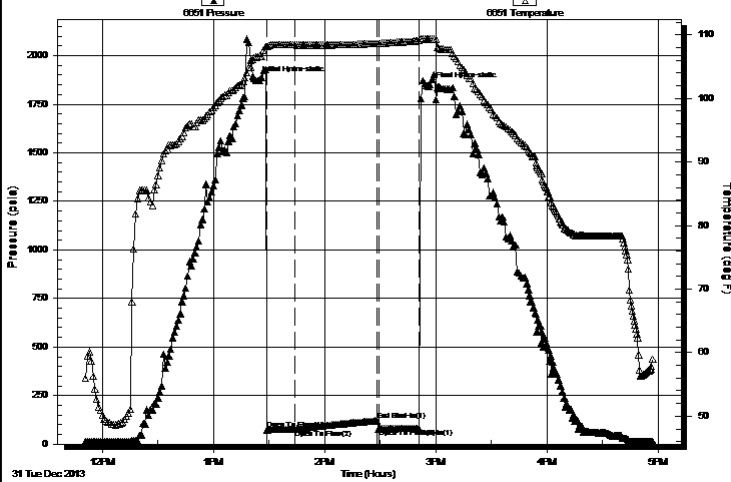
Last Calib.: 2013.12.31

Time On Btm: 2013.12.31 @ 13:23:00

Time Off Btm: 2013.12.31 @ 14:56:00

TEST COMMENT: 1st Open/ 15 Minutes. Weak blow built to 3/4 inch in bucket of deisel.
1st Shut In/ 45 Minutes. No blow back.
2nd Open/ 20 Minutes. Weak surface blow that died after 20 minutes. Pulled test per geo.

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1872.42	106.52	Initial Hydro-static
6	74.48	108.19	Open To Flow (1)
21	77.25	108.43	Open To Flow (2)
65	120.82	108.68	End Shut-In(1)
66	79.64	108.68	Open To Flow (3)
88	81.05	109.07	Shut-In(1)
93	1842.65	109.33	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
10.00	100% mud	0.05

Gas Rates

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



DRILL STEM TEST REPORT

TOOL DIAGRAM

Shelby Resources, LLC

35/21s/16w/Pawnee

2717 Canal BLVD.
Suite C
Hays, Ks 67601
ATTN: Jeremy Schwartz

P-W Unit #1-35

Job Ticket: 18617

DST#: 2

Test Start: 2013.12.31 @ 11:40:00

Tool Information

Drill Pipe:	Length: 3437.00 ft	Diameter: 3.80 inches	Volume: 48.21 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: 329.33 ft	Diameter: 2.25 inches	Volume: 1.62 bbl	Weight to Pull Loose:	84000.00 lb
			<u>Total Volume: 49.83 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	10.33 ft			String Weight: Initial	76000.00 lb
Depth to Top Packer:	3785.00 ft			Final	76000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	80.35 ft				
Tool Length:	109.35 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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Change Over Sub	1.00			3757.00	
Shut-In Tool	5.00			3762.00	
Hydroic Tool	5.00			3767.00	
Jars	6.00			3773.00	
Safety Joint	2.00			3775.00	
Packer	5.00			3780.00	29.00 Bottom Of Top Packer
Packer	5.00			3785.00	
Perforations	5.00			3790.00	
Change Over Sub	0.75			3790.75	
Drill Pipe	31.85			3822.60	
Change Over Sub	0.75			3823.35	
Perforations	35.00			3858.35	
Recorder	1.00	6666	Inside	3859.35	
Recorder	1.00	6651	Outside	3860.35	
Bullnose	5.00			3865.35	80.35 Bottom Packers & Anchor

Total Tool Length: 109.35



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FLUID SUMMARY

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DST#: 2

Test Start: 2013.12.31 @ 11:40:00

Mud and Cushion Information

Mud Type: Gel Chem
Mud Weight: 9.00 lb/gal
Viscosity: 65.00 sec/qt
Water Loss: 8.00 in³
Resistivity: ohm.m
Salinity: 3900.00 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
10.00	100% mud	0.049

Total Length: 10.00 ft Total Volume: 0.049 bbl

Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:

Laboratory Name: Laboratory Location:

Recovery Comments:

Pressure vs. Time

