



## DRILL STEM TEST REPORT

Prepared For: **Shelby Resources L.L.C.**

Canal Blvd 2717 Suite C  
Hays ,Kansas 67601

ATTN: Charlie Sturdavant

### **21-21s-16w Pawnee**

#### **Airport #1-21**

Start Date: 2011.05.24 @ 10:25:00

End Date: 2011.05.24 @ 00:00:00

Job Ticket #: 16499                      DST #: 1

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

Printed: 2011.05.24 @ 06:36:08

Shelby Resources L.L.C.

Airport #1-21

21-21s-16w Pawnee

DST # 1

Simpson-Arbuckle

2011.05.24



# DRILL STEM TEST REPORT

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**21-21s-16w Pawnee**

Job Ticket: 16499

**DST#: 1**

ATTN: Charlie Sturdavant

Test Start: 2011.05.24 @ 10:25:00

## GENERAL INFORMATION:

Formation: **Simpson-Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 00:00:00

Time Test Ended: 00:00:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Gene Budig

Unit No: 3335-42

**Interval: 3782.00 ft (KB) To 3860.00 ft (KB) (TVD)**

Reference Elevations: 2021.00 ft (KB)

Total Depth: 3860.00 ft (KB) (TVD)

2010.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 11.00 ft

**Serial #: 8524**

**Inside**

Press @ Run Depth: 1281.23 psia @ 3855.53 ft (KB)

Capacity: 5000.00 psia

Start Date: 2011.05.24

End Date:

2011.05.24

Last Calib.:

2011.05.24

Start Time: 10:36:00

End Time:

17:24:00

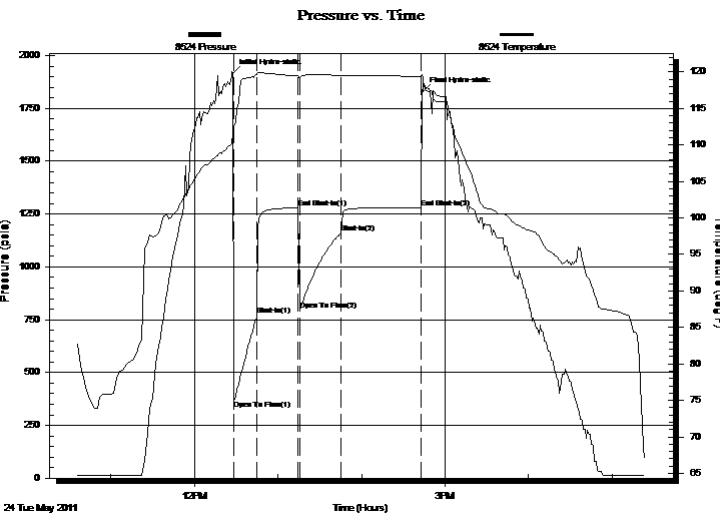
Time On Btm:

2011.05.24 @ 12:27:30

Time Off Btm:

2011.05.24 @ 14:44:00

**TEST COMMENT:** 1st Opening 15 Minutes-Good blow built to the bottom of a 5 gallon bucket in 1 minute and decreased  
1st Shut-In 30 Minutes-No blow back  
2nd Opening 30 Minutes-Good blow built to the bottom of a 5 gallon bucket in 1 minute and decreased  
2nd Shut-In 60 Minutes-No blow back



## PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1916.31	111.60	Initial Hydro-static
1	324.74	111.59	Open To Flow (1)
18	772.71	119.66	Shut-In(1)
47	1279.60	119.44	End Shut-In(1)
48	795.21	119.17	Open To Flow (2)
78	1161.34	119.51	Shut-In(2)
136	1281.23	119.39	End Shut-In(2)
137	1830.42	119.25	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
500.00	Muddy Water	5.10
2000.00	Water	28.05
0.00	Chlorides 32000	0.00
0.00	Resistivity 1.1 @ 66 Degrees	0.00

## Gas Rates

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



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Tester: Gene Budig

Unit No: 3335-42

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Reference Elevations: 2021.00 ft (KB)

Total Depth: 3860.00 ft (KB) (TVD)

2010.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 11.00 ft

**Serial #: 8525 Outside**

Press @ Run Depth: 1279.89 psia @ 3856.53 ft (KB)

Capacity: 5000.00 psia

Start Date: 2011.05.24

End Date:

2011.05.24

Last Calib.:

2011.05.24

Start Time: 10:36:00

End Time:

17:24:30

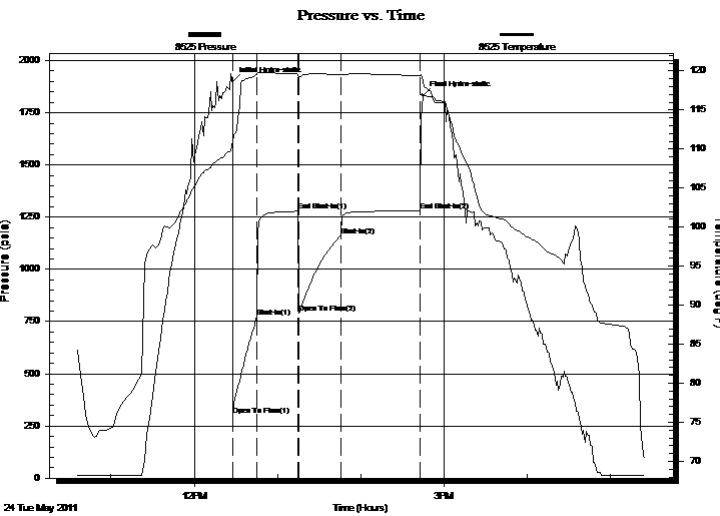
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 2nd Shut-In 60 Minutes-No blow back



## PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1900.88	111.07	Initial Hydro-static
1	302.82	110.85	Open To Flow (1)
18	769.85	119.59	Shut-In(1)
48	1278.35	119.61	End Shut-In(1)
48	792.75	119.21	Open To Flow (2)
78	1160.05	119.52	Shut-In(2)
136	1279.89	119.37	End Shut-In(2)
137	1832.45	118.72	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
500.00	Muddy Water	5.10
2000.00	Water	28.05
0.00	Chlorides 32000	0.00
0.00	Resistivity 1.1 @ 66 Degrees	0.00

## Gas Rates

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



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**TOOL DIAGRAM**

Shelby Resources L.L.C.

**Airport #1-21**

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Hays ,Ka nsas 67601

**21-21s-16w Pawnee**

Job Ticket: 16499

**DST#: 1**

ATTN: Charlie Sturdavant

Test Start: 2011.05.24 @ 10:25:00

## Tool Information

Drill Pipe:	Length: 3549.00 ft	Diameter: 3.80 inches	Volume: 49.78 bbl	Tool Weight:	2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.86 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:	95000.00 lb
			<u>Total Volume: 50.81 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	6.00 ft			String Weight: Initial	68000.00 lb
Depth to Top Packer:	3782.00 ft			Final	82000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	77.53 ft				
Tool Length:	106.53 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			3758.00	
Hydraulic Tool	5.00			3763.00	
Jars	7.00			3770.00	
Safety Joint	2.00		Fluid	3772.00	
Packer	5.00			3777.00	29.00 Bottom Of Top Packer
Packer	5.00			3782.00	
Anchor	2.00			3784.00	
Change Over Sub	0.75		Inside	3784.75	
Drill Pipe	64.03			3848.78	
Change Over Sub	0.75			3849.53	
Anchor	5.00			3854.53	
Recorder	1.00	8524	Inside	3855.53	
Recorder	1.00	8525	Outside	3856.53	
Bull Plug	3.00			3859.53	77.53 Bottom Packers & Anchor

**Total Tool Length: 106.53**



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## FLUID SUMMARY

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Test Start: 2011.05.24 @ 10:25:00

### Mud and Cushion Information

Mud Type: Gel Chem  
Mud Weight: 9.00 lb/gal  
Viscosity: 46.00 sec/qt  
Water Loss: 9.19 in<sup>3</sup>  
Resistivity: ohm.m  
Salinity: 9200.00 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
500.00	Muddy Water	5.101
2000.00	Water	28.055
0.00	Chlorides 32000	0.000
0.00	Resisitivity 1.1 @ 66 Degrees	0.000

Total Length: 2500.00 ft      Total Volume: 33.156 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

