



## DRILL STEM TEST REPORT

Prepared For: **LB Exploration**

21352nd Rd Holyrood KS 67450+9021

ATTN: Steven Peterman

### **Spriggs B#1**

#### **26-33-13 Barber**

Start Date: 2013.04.24 @ 21:07:00

End Date: 2013.04.25 @ 07:38:00

Job Ticket #: 17455                      DST #: 4

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

Printed: 2013.04.26 @ 11:08:41

LB Exploration  
26-33-13 Barber  
Spriggs B#1  
DST # 4  
Penn  
2013.04.24



# DRILL STEM TEST REPORT

LB Exploration  
 21352nd Rd Holyrood KS 67450+9021  
 ATTN: Steven Peterman

**26-33-13 Barber**  
**Spriggs B#1**  
 Job Ticket: 17455 **DST#: 4**  
 Test Start: 2013.04.24 @ 21:07:00

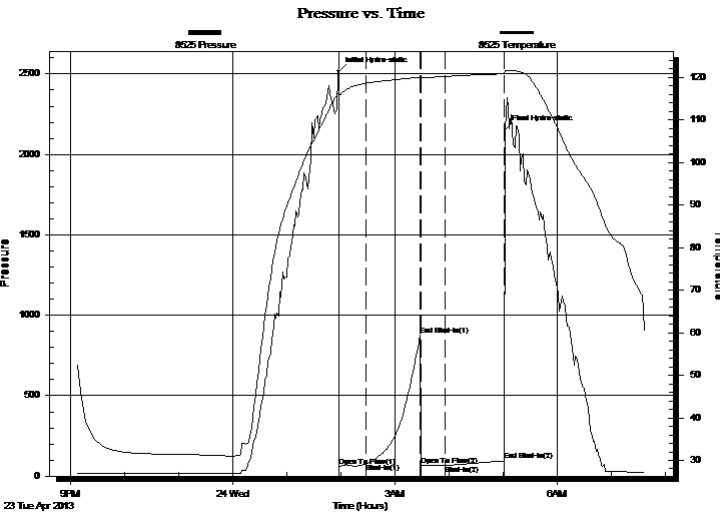
## GENERAL INFORMATION:

Formation: **Penn**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 01:58:30  
 Time Test Ended: 07:38:00  
 Interval: **4521.00 ft (KB) To 4570.00 ft (KB) (TVD)**  
 Total Depth: 5164.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Poor  
 Test Type: Conventional Straddle (Initial)  
 Tester: Jared Scheck  
 Unit No: 3320-Pratt-130  
 Reference Elevations: 1566.00 ft (KB)  
 1554.00 ft (CF)  
 KB to GR/CF: 12.00 ft

## Serial #: 8525

Press @ RunDepth: 69.15 psia @ ft (KB) Capacity: 5000.00 psia  
 Start Date: 2013.04.23 End Date: 2013.04.24 Last Calib.: 2013.04.24  
 Start Time: 21:08:00 End Time: 07:38:00 Time On Btm: 2013.04.24 @ 01:57:30  
 Time Off Btm: 2013.04.24 @ 05:03:00

**TEST COMMENT:** 1st Opening 30 Minutes-Weak blow built 2 1/2 inches into water in 30 minutes  
 1st Shut-in 60 Minutes-No blow back  
 2nd Opening 30 Minutes-Very weak blow died off  
 2nd Shut-in 60 Minutes-No blow back



## PRESSURE SUMMARY

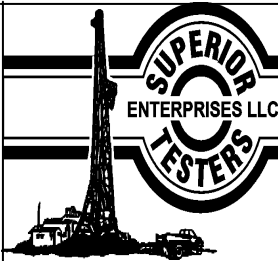
Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	2517.02	116.24	Initial Hydro-static
1	59.66	115.88	Open To Flow (1)
31	79.17	118.69	Shut-In(1)
91	879.11	120.14	End Shut-In(1)
92	67.12	119.95	Open To Flow (2)
118	69.15	120.26	Shut-In(2)
185	95.84	120.88	End Shut-In(2)
186	2156.45	121.55	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
30.00	mud	0.42

## Gas Rates

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



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 Job Ticket: 17455      **DST#: 4**  
 Test Start: 2013.04.24 @ 21:07:00

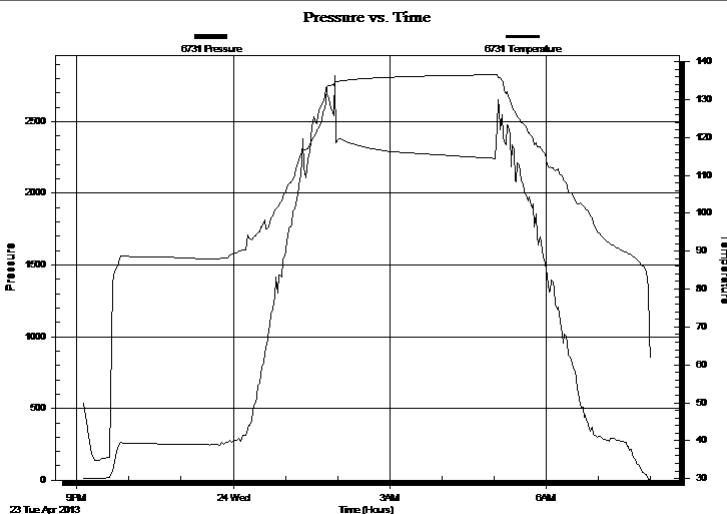
**GENERAL INFORMATION:**

Formation: <b>Penn</b>		Test Type: Conventional Straddle (Initial)
Deviated: No Whipstock:	ft (KB)	Tester: Jared Scheck
Time Tool Opened: 01:58:30		Unit No: 3320-Pratt-130
Time Test Ended: 07:38:00		
<b>Interval: 4521.00 ft (KB) To 4570.00 ft (KB) (TVD)</b>		Reference Elevations: 1566.00 ft (KB)
Total Depth: 5164.00 ft (KB) (TVD)		1554.00 ft (CF)
Hole Diameter: 7.88 inches	Hole Condition: Poor	KB to GR/CF: 12.00 ft

**Serial #: 6731**

Press @ Run Depth:	psia @	ft (KB)	Capacity:	5000.00 psia
Start Date:	2013.04.23	End Date:	2013.04.24	Last Calib.: 2013.04.24
Start Time:	21:08:00	End Time:	08:00:00	Time On Btm:
				Time Off Btm:

**TEST COMMENT:** 1st Opening 30 Minutes-Weak blow built 2 1/2 inches into water in 30 minutes  
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 2nd Opening 30 Minutes-Very weak blow died off  
 2nd Shut-in 60 Minutes-No blow back



**PRESSURE SUMMARY**

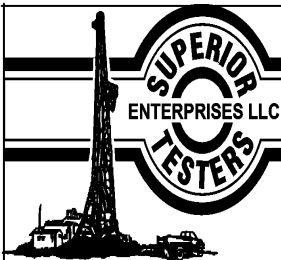
Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation

**Recovery**

Length (ft)	Description	Volume (bbl)
30.00	mud	0.42

**Gas Rates**

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



# DRILL STEM TEST REPORT

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 ATTN: Steven Peterman

**26-33-13 Barber**  
**Spriggs B#1**  
 Job Ticket: 17455 **DST#: 4**  
 Test Start: 2013.04.24 @ 21:07:00

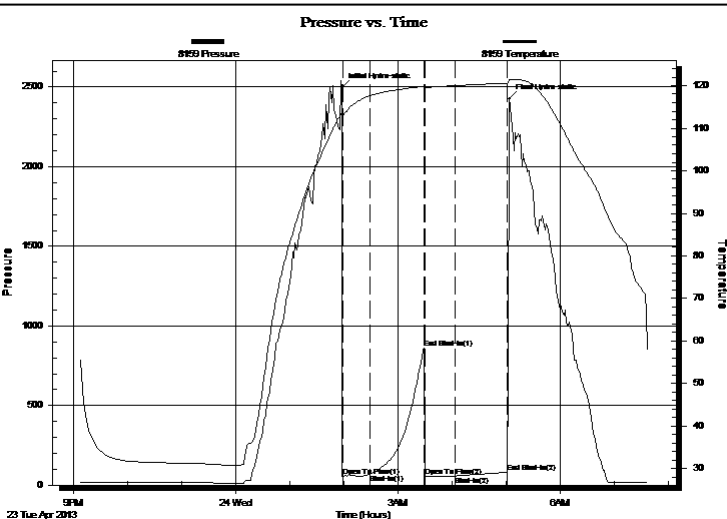
## GENERAL INFORMATION:

Formation: **Penn**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 01:58:30  
 Time Test Ended: 07:38:00  
**Interval: 4521.00 ft (KB) To 4570.00 ft (KB) (TVD)**  
 Total Depth: 5164.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Poor  
 Test Type: Conventional Straddle (Initial)  
 Tester: Jared Scheck  
 Unit No: 3320-Pratt-130  
 Reference Elevations: 1566.00 ft (KB)  
 1554.00 ft (CF)  
 KB to GR/CF: 12.00 ft

## Serial #: 8159

Press @ RunDepth: 82.64 psia @ ft (KB) Capacity: 5000.00 psia  
 Start Date: 2013.04.23 End Date: 2013.04.24 Last Calib.: 2013.04.24  
 Start Time: 21:08:00 End Time: 07:38:30 Time On Btm: 2013.04.24 @ 01:58:00  
 Time Off Btm: 2013.04.24 @ 05:04:00

**TEST COMMENT:** 1st Opening 30 Minutes-Weak blow built 2 1/2 inches into water in 30 minutes  
 1st Shut-in 60 Minutes-No blow back  
 2nd Opening 30 Minutes-Very weak blow died off  
 2nd Shut-in 60 Minutes-No blow back



## PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	2499.47	113.72	Initial Hydro-static
1	52.70	113.19	Open To Flow (1)
31	69.90	117.62	Shut-In(1)
91	861.68	119.83	End Shut-In(1)
93	56.17	119.58	Open To Flow (2)
126	57.77	120.00	Shut-In(2)
184	82.64	120.56	End Shut-In(2)
186	2424.73	121.33	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
30.00	mud	0.42

## Gas Rates

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



# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

LB Exploration  
 21352nd Rd Holyrood KS 67450+9021  
 ATTN: Steven Peterman

**26-33-13 Barber**  
**Spriggs B#1**  
 Job Ticket: 17455      **DST#: 4**  
 Test Start: 2013.04.24 @ 21:07:00

**Tool Information**

Drill Pipe:	Length: 4526.00 ft	Diameter: 3.80 inches	Volume: 63.49 bbl	Tool Weight: 1000.00 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: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 90000.00 lb
			<u>Total Volume: 63.49 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	15.00 ft			String Weight: Initial 65000.00 lb
Depth to Top Packer:	4526.00 ft			Final 65000.00 lb
Depth to Bottom Packer:	4560.00 ft			
Interval between Packers:	34.00 ft			
Tool Length:	664.00 ft			
Number of Packers:	4	Diameter: 6.75 inches		

Tool Comments: Ruined packer

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
shut in tool	5.00			4516.00	
HYD S.I. Tool	5.00			4521.00	
Packer	5.00			4526.00	15.00      Bottom Of Top Packer
packer	5.00			4531.00	
anchor	26.00			4557.00	
recorder	1.00			4558.00	
recorder	1.00			4559.00	
Blank Off Sub	1.00			4560.00	34.00      Tool Interval
Packer	5.00			4565.00	
handle sub	5.00			4570.00	
packer	5.00			4575.00	
Tail pipe	596.00			5171.00	
recorder	1.00			5172.00	
Bullnose	3.00			5175.00	615.00      Bottom Packers & Anchor

**Total Tool Length: 664.00**



# DRILL STEM TEST REPORT

## FLUID SUMMARY

LB Exploration

**26-33-13 Barber**

21352nd Rd Holyrood KS 67450+9021

**Spriggs B#1**

Job Ticket: 17455

**DST#: 4**

ATTN: Steven Peterman

Test Start: 2013.04.24 @ 21:07:00

### Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 10.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 61.00 sec/qt

Cushion Volume:

bbl

Water Loss: 11.19 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psia

Salinity: 7000.00 ppm

Filter Cake: 1.00 inches

### Recovery Information

Recovery Table

Length ft	Description	Volume bbl
30.00	mud	0.421

Total Length: 30.00 ft      Total Volume: 0.421 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: Ruined packer

