



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: 2013.04.21 @ 20:33:00

End Date: 2013.04.22 @ 03:16:00

Job Ticket #: 17454 DST #: 3

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

Printed: 2013.04.26 @ 11:07:50

LB Exploration
26-33-13 Barber
Spriggs B#1
DST # 3
Viola
2013.04.21



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

26-33-13 Barber
Spriggs B#1
 Job Ticket: 17454 **DST#: 3**
 Test Start: 2013.04.21 @ 20:33:00

GENERAL INFORMATION:

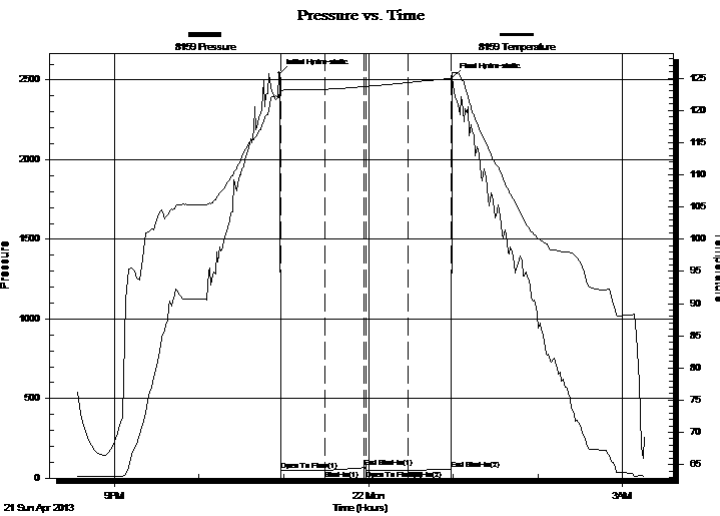
Formation: **Viola**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 22:58:30
 Time Test Ended: 03:16:00
Interval: 4842.00 ft (KB) To 4888.00 ft (KB) (TVD)
 Total Depth: 4888.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair

Test Type: Conventional Bottom Hole (Initial)
 Tester: Jared Scheck
 Unit No: 3320-Pratt-
 Reference Elevations: 1566.00 ft (KB)
 1554.00 ft (CF)
 KB to GR/CF: 12.00 ft

Serial #: 8159

Press @ RunDepth: 57.56 psia @ ft (KB) Capacity: 5000.00 psia
 Start Date: 2013.04.21 End Date: 2013.04.22 Last Calib.: 2013.04.22
 Start Time: 20:34:00 End Time: 03:16:00 Time On Btm: 2013.04.21 @ 22:57:00
 Time Off Btm: 2013.04.22 @ 00:59:30

TEST COMMENT: 1st Opening 30 Minutes-Very weak surface blow built 1/2 inch into bucket w ater in 30 minutes
 1st Shut-in 30 Minutes-No blow back
 2nd Opening 30 Minutes-Very weak surge did not build
 2nd Shut-in 30 Minutes-No blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	2542.81	123.09	Initial Hydro-static
1	48.21	123.15	Open To Flow (1)
32	49.40	123.29	Shut-In(1)
60	66.47	123.70	End Shut-In(1)
61	48.33	123.71	Open To Flow (2)
91	48.44	124.33	Shut-In(2)
122	57.56	124.97	End Shut-In(2)
123	2516.66	125.83	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
2.00	mud	0.03

Gas Rates

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



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TOOL DIAGRAM

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 Test Start: 2013.04.21 @ 20:33:00

Tool Information

Drill Pipe:	Length: 4838.00 ft	Diameter: 3.80 inches	Volume: 67.86 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:	70000.00 lb
			<u>Total Volume: 67.86 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	16.00 ft			String Weight: Initial	62000.00 lb
Depth to Top Packer:	4842.00 ft			Final	62000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	46.00 ft				
Tool Length:	66.00 ft				
Number of Packers:	2	Diameter: 6.75 inches			

Tool Comments: ruined shale packer

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut-In Tool	5.00			4827.00	
Hydraulic Tool	5.00			4832.00	
Packer	5.00			4837.00	20.00 Bottom Of Top Packer
Packer	5.00			4842.00	
Anchor	41.00			4883.00	
Recorder	1.00	6731	Inside	4884.00	
Recorder	1.00	8159	Outside	4885.00	
Bullnose	3.00			4888.00	46.00 Bottom Packers & Anchor

Total Tool Length: 66.00



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FLUID SUMMARY

LB Exploration

26-33-13 Barber

21352nd Rd Holyrood KS 67450+9021

Spriggs B#1

Job Ticket: 17454

DST#: 3

ATTN: Steven Peterman

Test Start: 2013.04.21 @ 20:33:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 60.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 11.19 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psia

Salinity: 6000.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
2.00	mud	0.028

Total Length: 2.00 ft Total Volume: 0.028 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: ruined shale packer

