



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: 2013.04.18 @ 19:12:00

End Date: 2013.04.19 @ 02:30:00

Job Ticket #: 17452 DST #: 1

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

Printed: 2013.04.26 @ 11:05:06

LB Exploration
26-33-13 Barber
Spriggs B#1
DST # 1
Snyderville
2013.04.18



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Spriggs B#1
 Job Ticket: 17452 **DST#: 1**
 Test Start: 2013.04.18 @ 19:12:00

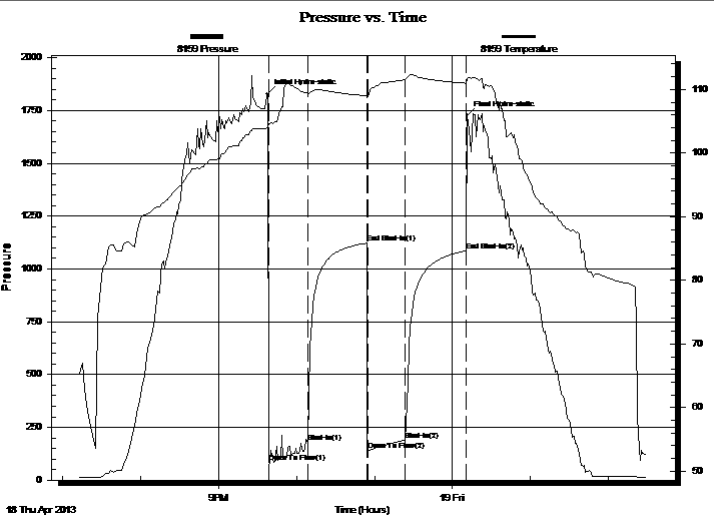
GENERAL INFORMATION:

Formation: **Snyderville**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 21:38:30
 Time Test Ended: 02:30:00
 Interval: **3759.00 ft (KB) To 3824.00 ft (KB) (TVD)**
 Total Depth: 3759.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Poor
 Test Type: Conventional Bottom Hole (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 @ Run Depth: 189.36 psia @ ft (KB) Capacity: 5000.00 psia
 Start Date: 2013.04.18 End Date: 2013.04.19 Last Calib.: 2013.04.18
 Start Time: 19:13:00 End Time: 02:30:00 Time On Btm: 2013.04.18 @ 21:37:30
 Time Off Btm: 2013.04.19 @ 00:11:30

TEST COMMENT: 1st Opening 30 Minutes-Fair blow built bottom of bucket in 20 minutes
 1st Shut-in 45 Minutes-No blow back
 2nd Opening 30 Minutes-Fair blow built bottom of bucket in 20 minutes
 2nd Shut-in 45 Minutes-No blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1828.94	104.17	Initial Hydro-static
1	84.85	104.70	Open To Flow (1)
31	178.01	109.36	Shut-In(1)
77	1121.93	109.06	End Shut-In(1)
78	140.43	108.96	Open To Flow (2)
106	189.36	111.53	Shut-In(2)
153	1085.09	110.99	End Shut-In(2)
154	1727.24	111.79	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
210.00	water	2.95
0.00	chlorides 60,000 resistivity.1 @55degrees	0.00

Gas Rates

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



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TOOL DIAGRAM

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Tool Information

Drill Pipe:	Length: 3769.00 ft	Diameter: 3.80 inches	Volume: 52.87 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: 80000.00 lb
			<u>Total Volume: 52.87 bbl</u>	Tool Chased 6.00 ft
Drill Pipe Above KB:	30.00 ft			String Weight: Initial 51000.00 lb
Depth to Top Packer:	3759.00 ft			Final 51000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	65.00 ft			
Tool Length:	85.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments: Shale packer ruined

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut-In Tool	5.00			3744.00	
Hydraulic Tool	5.00			3749.00	
Packer	5.00			3754.00	20.00 Bottom Of Top Packer
Packer	5.00			3759.00	
Anchor	5.00			3764.00	
Change Over Sub	0.75			3764.75	
Drill Pipe	31.50			3796.25	
Change Over Sub	0.75			3797.00	
Anchor	22.00			3819.00	
Recorder	1.00	6731	Inside	3820.00	
Recorder	1.00	8159	Outside	3821.00	
Bullnose	3.00			3824.00	65.00 Bottom Packers & Anchor

Total Tool Length: 85.00



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FLUID SUMMARY

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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: 56.00 sec/qt	Cushion Volume: bbl		
Water Loss: 7.98 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psia		
Salinity: 5000.00 ppm			
Filter Cake: 1.00 inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
210.00	water	2.946
0.00	chlorides 60,000 resistivity .1 @55degrees	0.000

Total Length: 210.00 ft Total Volume: 2.946 bbl

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

Laboratory Name: Laboratory Location:

Recovery Comments: ruined shale packer/chlorides 60,000 resistivity .1 @ 55 degrees

