



DRILL STEM TEST REPORT

Prepared For: **LB Exploration Inc.**

2135 2nd RD.
Holyrod Ks, 67450-9021

ATTN: Steve Petermann

Spencer's Bluffs #6

16/32s/13w/Barber

Start Date: 2013.11.03 @ 21:55:00

End Date: 2013.11.04 @ 04:59:30

Job Ticket #: 18514 DST #: 3

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

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GENERAL INFORMATION:

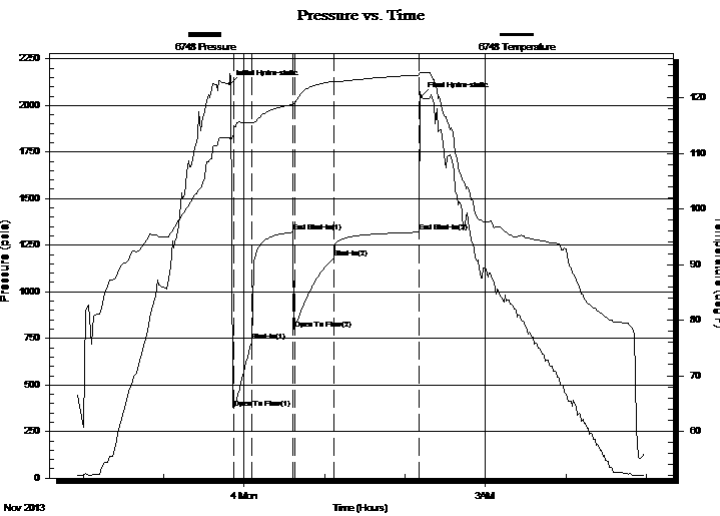
Formation: **Drum**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 23:51:30
 Time Test Ended: 04:59:30
 Interval: **4292.00 ft (KB) To 4308.00 ft (KB) (TVD)**
 Total Depth: 4308.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Poor
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Shane Konzem
 Unit No: 3330/196/Great Bend
 Reference Elevations: 1828.00 ft (KB)
 1815.00 ft (CF)
 KB to GR/CF: 13.00 ft

Serial #: 6748

Outside

Press @ Run Depth: 1320.12 psia @ 4305.00 ft (KB) Capacity: 5000.00 psia
 Start Date: 2013.11.03 End Date: 2013.11.04 Last Calib.: 2013.11.04
 Start Time: 21:55:00 End Time: 04:58:30 Time On Btm: 2013.11.03 @ 23:49:00
 Time Off Btm: 2013.11.04 @ 02:12:00

TEST COMMENT: 1st Open/ 15 Minutes. Strong blow built to bottom of 5 gallon bucket in 45 seconds.
 1st Shut In/ 30 Minutes. BLow back built to bottom of 5 gallon bucket.
 2nd Open/ 30 Minutes. Strong blow built to bottom of 5 gallon bucket in 1 minute.
 2nd Shut In/ 60 Minutes. G0od blow back built to 3 inches in bucket. Gas to surface in 55 minutes.



PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	2112.43	112.84	Initial Hydro-static
3	373.71	113.62	Open To Flow (1)
17	735.02	115.47	Shut-In(1)
48	1320.70	118.84	End Shut-In(1)
49	801.14	118.89	Open To Flow (2)
78	1179.35	122.97	Shut-In(2)
142	1320.12	124.11	End Shut-In(2)
143	2047.58	124.53	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
252.00	5% gas, 30% w ater, 65% mud.	3.53
126.00	5% gas, 45% w ater, 50% mud.	1.77
315.00	5% gas, 2.5% mud, 92.5% w ater	4.42
504.00	5% gas, 95% w ater.	7.07
378.00	5% gassy, 95% w ater	5.30
504.00	5% gas, 5% mud, 90% w ater.	7.07

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: 4296.00 ft	Diameter: 3.80 inches	Volume: 60.26 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:	25000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose:	74000.00 lb
			<u>Total Volume: 60.26 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	25.00 ft			String Weight: Initial	52000.00 lb
Depth to Top Packer:	4292.00 ft			Final	60000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	16.00 ft				
Tool Length:	37.00 ft				
Number of Packers:	2	Diameter: 6.75 inches			

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4272.00	
Shut-In Tool	5.00			4277.00	
Hydroic Tool	5.00			4282.00	
Packer	5.00			4287.00	21.00 Bottom Of Top Packer
Packer	5.00			4292.00	
Perforations	11.00			4303.00	
Recorder	1.00	6663	Inside	4304.00	
Recorder	1.00	6748	Outside	4305.00	
Bullnose	3.00			4308.00	16.00 Bottom Packers & Anchor
Total Tool Length:	37.00				



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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: 48.00 sec/qt	Cushion Volume: bbl		
Water Loss: 8.20 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psia		
Salinity: 5000.00 ppm			
Filter Cake: inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
252.00	5% gas, 30% w ater, 65% mud.	3.535
126.00	5% gas, 45% w ater, 50% mud.	1.767
315.00	5% gas, 2.5% mud, 92.5% w ater	4.419
504.00	5% gas, 95% w ater.	7.070
378.00	5% gassy, 95% w ater	5.302
504.00	5% gas, 5% mud, 90% w ater.	7.070
315.00	5% gas, 95% w ater	4.419
0.00	Chloride recov, 27000 ppm	0.000
0.00	resist recov, .21 at 40 degrees.	0.000

Total Length: 2394.00 ft Total Volume: 33.582 bbl
 Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
 Laboratory Name: Laboratory Location:
 Recovery Comments:

Pressure vs. Time

