



DRILL STEM TEST REPORT

Prepared For: **L B Exploration Inc**

2135 2nd Rd Holyrood KS 67450+9021

ATTN: Steven Petermann

Kingston #5

3-17-14w Barton

Start Date: 2013.07.17 @ 01:15:00

End Date: 2013.07.17 @ 07:32:00

Job Ticket #: 17011 DST #: 4

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

Printed: 2013.07.17 @ 08:13:15



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 Test Start: 2013.07.17 @ 01:15:00

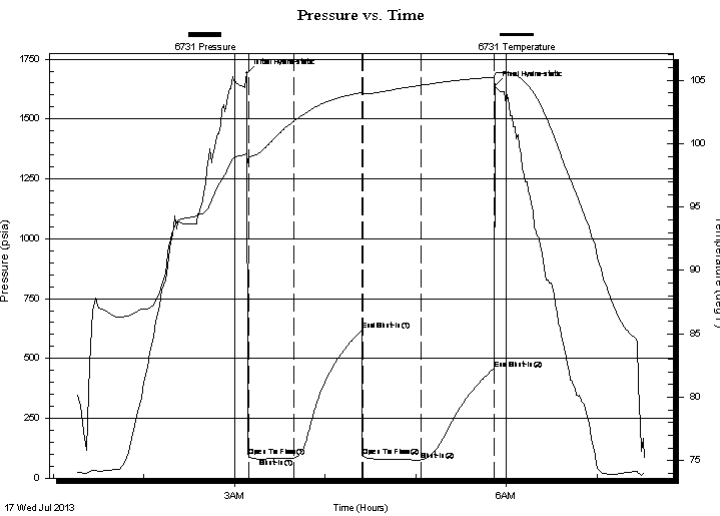
GENERAL INFORMATION:

Formation: **Arbuckle**
 Deviated: No Whipstock: ft (KB)
 Test Type: Conventional Bottom Hole (Initial)
 Time Tool Opened: 03:09:00 Tester: Jared Scheck
 Time Test Ended: 07:32:00 Unit No: 3320-Great Bend
 Interval: **3389.00 ft (KB) To 3462.00 ft (KB) (TVD)** Reference Elevations: 1965.00 ft (KB)
 Total Depth: 3462.00 ft (KB) (TVD) 1955.00 ft (CF)
 Hole Diameter: 7.88 inches Hole Condition: Poor KB to GR/CF: 10.00 ft

Serial #: 6731

Press@RunDepth: 76.51 psia @ ft (KB) Capacity: 5000.00 psia
 Start Date: 2013.07.17 End Date: 2013.07.17 Last Calib.: 2013.07.17
 Start Time: 01:15:00 End Time: 07:32:00 Time On Btm: 2013.07.17 @ 03:08:00
 Time Off Btm: 2013.07.17 @ 05:52:30

TEST COMMENT: 1st Opening 30 Minutes-Weak blow built 1 1/2 inches into bucket w ater in 30 minutes
 1st Shut-in 45 Minutes-No blow back
 2nd Opening 45 Minutes-Very weak blow built 1/4 inch into bucket w ater in 45 minutes
 2nd Shut-in 45 Minutes-No blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1691.46	99.22	Initial Hydro-static
1	89.97	98.98	Open To Flow (1)
31	81.61	101.75	Shut-In(1)
76	616.61	104.02	End Shut-In(1)
77	90.71	103.91	Open To Flow (2)
116	76.51	104.61	Shut-In(2)
164	456.64	105.23	End Shut-In(2)
165	1640.43	105.56	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
25.00	oil cut mud 10%oil 90%mud	0.35
1.00	clean oil	0.01

Gas Rates

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



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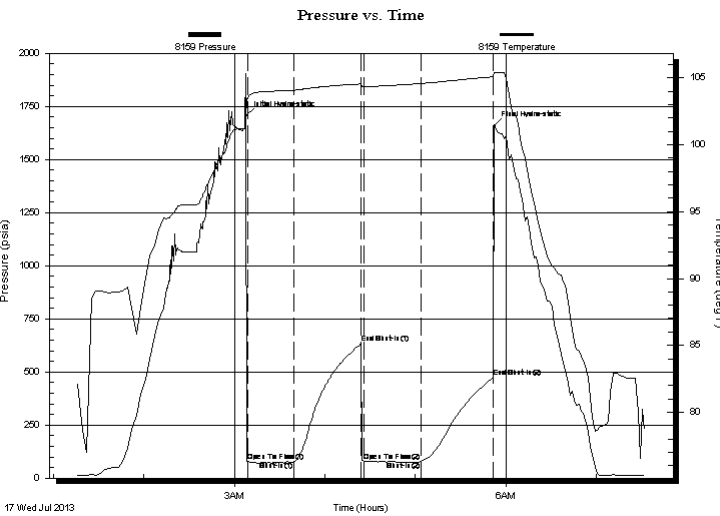
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 Total Depth: 3462.00 ft (KB) (TVD) 1955.00 ft (CF)
 Hole Diameter: 7.88 inches Hole Condition: Poor KB to GR/CF: 10.00 ft

Serial #: 8159

Press@RunDepth: 474.72 psia @ ft (KB) Capacity: 5000.00 psia
 Start Date: 2013.07.17 End Date: 2013.07.17 Last Calib.: 2013.07.17
 Start Time: 01:15:00 End Time: 07:32:00 Time On Btm: 2013.07.17 @ 03:07:50
 Time Off Btm: 2013.07.17 @ 05:52:30

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 2nd Opening 45 Minutes-Very weak blow built 1/4 inch into bucket w ater in 45 minutes
 2nd Shut-in 45 Minutes-No blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1704.34	102.61	Initial Hydro-static
1	81.14	103.41	Open To Flow (1)
32	77.53	104.08	Shut-In(1)
77	634.04	104.55	End Shut-In(1)
79	81.26	104.36	Open To Flow (2)
116	77.05	104.58	Shut-In(2)
164	474.72	105.08	End Shut-In(2)
165	1658.19	105.41	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
25.00	oil cut mud 10%oil 90%mud	0.35
1.00	clean oil	0.01

Gas Rates

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



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TOOL DIAGRAM

L B Exploration Inc
 2135 2nd Rd Holyrood KS 67450+9021
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Kingston #5
 Job Ticket: 17011 **DST#: 4**
 Test Start: 2013.07.17 @ 01:15:00

Tool Information

Drill Pipe:	Length: 3379.00 ft	Diameter: 3.80 inches	Volume: 47.40 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: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose: 60000.00 lb
			<u>Total Volume: 47.40 bbl</u>	Tool Chased 4.00 ft
Drill Pipe Above KB:	10.00 ft			String Weight: Initial 50000.00 lb
Depth to Top Packer:	3389.00 ft			Final 50000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	73.00 ft			
Tool Length:	93.00 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			3374.00	
Hydraulic Tool	5.00			3379.00	
Packer	5.00			3384.00	20.00 Bottom Of Top Packer
Packer	5.00			3389.00	
Anchor	0.00			3389.00	
Change Over Sub	0.75			3389.75	
Drill Pipe	31.50			3421.25	
Change Over Sub	0.75			3422.00	
Anchor	35.00			3457.00	
Recorder	1.00	6731	Inside	3458.00	
Recorder	1.00	8159	Outside	3459.00	
Bullnose	3.00			3462.00	73.00 Bottom Packers & Anchor

Total Tool Length: 93.00



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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: 49.00 sec/qt	Cushion Volume: bbl		
Water Loss: 8.00 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psia		
Salinity: 4000.00 ppm			
Filter Cake: 1.00 inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
25.00	oil cut mud 10%oil 90%mud	0.351
1.00	clean oil	0.014

Total Length: 26.00 ft Total Volume: 0.365 bbl
 Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
 Laboratory Name: Laboratory Location:
 Recovery Comments:

