



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: 2013.07.14 @ 23:15:00

End Date: 2013.07.15 @ 06:55:30

Job Ticket #: 17008 DST #: 1

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

Printed: 2013.07.15 @ 07:13:07



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 Test Start: 2013.07.14 @ 23:15:00

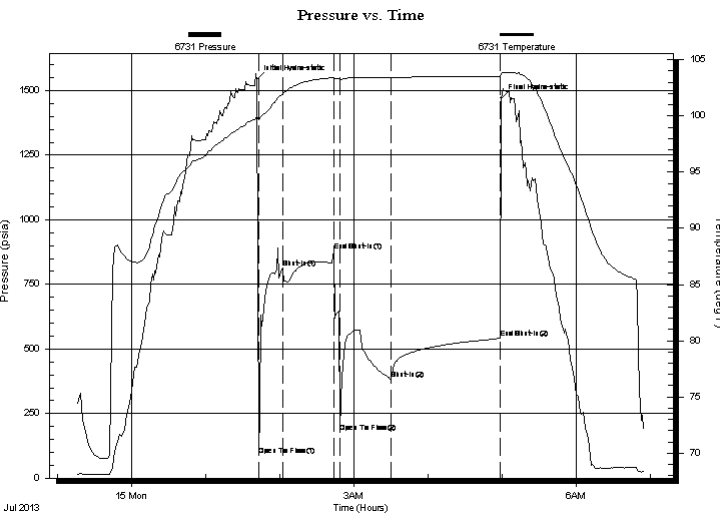
GENERAL INFORMATION:

Formation: **Lansing "A-B"**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 01:42:30
 Time Test Ended: 06:55:30
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Jared Scheck
 Unit No: 3320-Great Bend-
 Interval: **3202.00 ft (KB) To 3234.00 ft (KB) (TVD)**
 Reference Elevations: 1965.00 ft (KB)
 Total Depth: 3234.00 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: 383.95 psia @ ft (KB) Capacity: 5000.00 psia
 Start Date: 2013.07.14 End Date: 2013.07.15 Last Calib.: 2013.07.15
 Start Time: 23:15:00 End Time: 06:55:30 Time On Btm: 2013.07.15 @ 01:41:30
 Time Off Btm: 2013.07.15 @ 04:59:30

TEST COMMENT: 1st Opening 20 Minutes-Fair blow built 1 inch from bottom of bucket in 20 minutes tool chased 10 feet
 1st Shut-in 40 Minutes-No blow back
 2nd Opening 45 Minutes-Very weak surge flushed tool good surge built 5 inches into bucket water in 45 minutes
 2nd Shut-in 90 Minutes-No blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1543.85	99.93	Initial Hydro-static
1	88.88	99.64	Open To Flow (1)
21	812.00	101.96	Shut-In(1)
62	880.77	103.42	End Shut-In(1)
67	178.97	103.22	Open To Flow (2)
108	383.95	103.41	Shut-In(2)
197	541.04	103.53	End Shut-In(2)
198	1469.55	103.81	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
30.00	gas oil cut mud 10%g 10%o 80%m	0.42
60.00	oil cut mud 10%oil 90%mud	0.84
0.00	30 feet gad in pipe	0.00
0.00	ruined packer	0.00

Gas Rates

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



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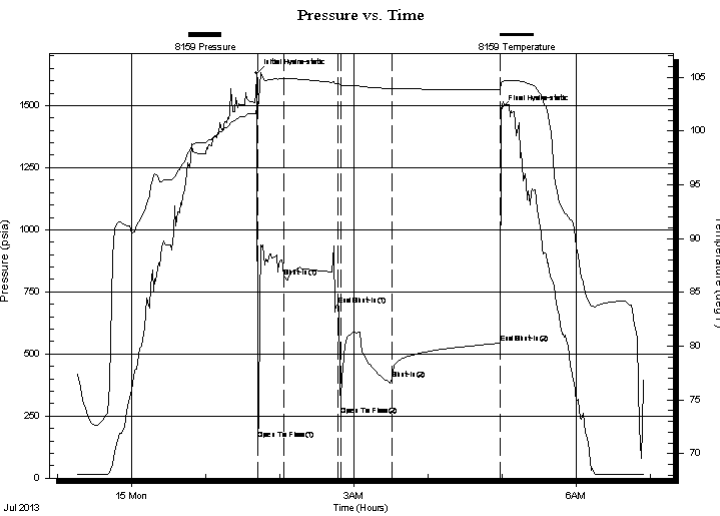
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 Total Depth: 3234.00 ft (KB) (TVD) 1955.00 ft (CF)
 Hole Diameter: 7.88 inches Hole Condition: Poor KB to GR/CF: 10.00 ft

Serial #: 8159

Press@RunDepth: 543.70 psia @ ft (KB) Capacity: 5000.00 psia
 Start Date: 2013.07.14 End Date: 2013.07.15 Last Calib.: 2013.07.15
 Start Time: 23:15:00 End Time: 06:56:00 Time On Btm: 2013.07.15 @ 01:41:00
 Time Off Btm: 2013.07.15 @ 04:59:30

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 2nd Opening 45 Minutes-Very weak surge flushed tool good surge built 5 inches into bucket water in 45 minutes
 2nd Shut-in 90 Minutes-No blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1630.50	102.25	Initial Hydro-static
1	156.00	102.19	Open To Flow (1)
22	811.40	104.88	Shut-In(1)
66	696.04	104.43	End Shut-In(1)
68	253.95	104.28	Open To Flow (2)
110	398.99	103.95	Shut-In(2)
198	543.70	103.86	End Shut-In(2)
199	1485.60	104.50	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
30.00	gas oil cut mud 10%g 10%o 80%m	0.42
60.00	oil cut mud 10%oil 90%mud	0.84
0.00	30 feet gad in pipe	0.00
0.00	ruined packer	0.00

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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Tool Information

Drill Pipe:	Length: 3190.00 ft	Diameter: 3.80 inches	Volume: 44.75 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:	75000.00 lb
			<u>Total Volume: 44.75 bbl</u>	Tool Chased	10.00 ft
Drill Pipe Above KB:	8.00 ft			String Weight: Initial	43000.00 lb
Depth to Top Packer:	3202.00 ft			Final	46000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	32.00 ft				
Tool Length:	52.00 ft				
Number of Packers:	2	Diameter: 6.75 inches			

Tool Comments: Tool chased 10 feet to bottom / Flushed tool on 2 nd open / Ruined packer

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut-In Tool	5.00			3187.00	
Hydraulic Tool	5.00			3192.00	
Packer	5.00			3197.00	20.00 Bottom Of Top Packer
Packer	5.00			3202.00	
Anchor	27.00			3229.00	
Recorder	1.00	6731	Inside	3230.00	
Recorder	1.00	8159	Outside	3231.00	
Bullnose	3.00			3234.00	32.00 Bottom Packers & Anchor

Total Tool Length: 52.00



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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: 54.00 sec/qt	Cushion Volume: bbl		
Water Loss: 8.80 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psia		
Salinity: 800.00 ppm			
Filter Cake: 1.00 inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
30.00	gas oil cut mud 10%g 10%o 80%m	0.421
60.00	oil cut mud 10%oil 90%mud	0.842
0.00	30 feet gad in pipe	0.000
0.00	ruined packer	0.000

Total Length: 90.00 ft Total Volume: 1.263 bbl
 Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
 Laboratory Name: Laboratory Location:
 Recovery Comments: Chased tool 10 feet to bottom / Flushed tool 2nd open/Ruined packer

