



DRILL STEM TEST REPORT

Prepared For: **L B Exploration**

2135 2nd Rd Holyrood KS 67450 + 9021

ATTN: Steven Peterman

Eveleigh 27#1

27-16-14 Barton

Start Date: 2013.07.24 @ 12:40:00

End Date: 2013.07.24 @ 19:09:30

Job Ticket #: 17013 DST #: 1

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

Printed: 2013.07.24 @ 19:24:55



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 Test Start: 2013.07.24 @ 12:40:00

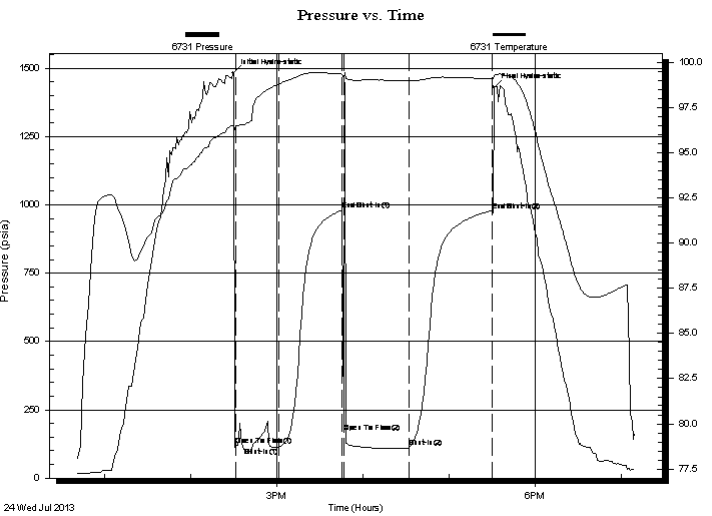
GENERAL INFORMATION:

Formation: **Toepka**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 14:31:30
 Time Test Ended: 19:09:30
 Interval: **3030.00 ft (KB) To 3070.00 ft (KB) (TVD)**
 Total Depth: 3070.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Poor
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Jared Scheck
 Unit No: 3320--Great Bend
 Reference Elevations: 1968.00 ft (KB)
 1958.00 ft (CF)
 KB to GR/CF: 10.00 ft

Serial #: 6731

Press@RunDepth: 111.48 psia @ ft (KB) Capacity: 5000.00 psia
 Start Date: 2013.07.24 End Date: 2013.07.24 Last Calib.: 2013.07.24
 Start Time: 12:40:00 End Time: 19:09:30 Time On Btm: 2013.07.24 @ 14:30:00
 Time Off Btm: 2013.07.24 @ 17:31:30

TEST COMMENT: 1st Opening 30 Minutes-Strong blow built bottom of bucket in 10 minutes tool chased 10 feet
 1st Shut-in 45 Minutes-Very weak
 2nd Opening 45 Minutes-Strong blow built bottom of bucket in 4 1/2 minutes
 2nd Shut-in 60 Minutes-5 inch blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1482.06	96.53	Initial Hydro-static
2	118.87	96.43	Open To Flow (1)
32	111.92	98.80	Shut-In(1)
76	980.90	99.34	End Shut-In(1)
77	168.56	99.14	Open To Flow (2)
122	111.48	98.99	Shut-In(2)
180	978.81	99.09	End Shut-In(2)
182	1429.57	99.27	Final Hydro-static

Recovery

Gas Rates

Length (ft)	Description	Volume (bbl)
130.00	gas oil cut mud 10% gas 30% oil 60% mud	1.82
0.00	710 feet gas in pipe	0.00

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



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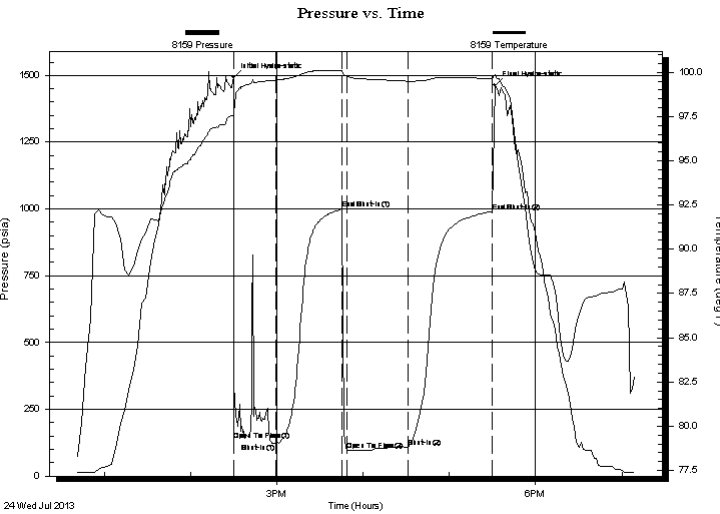
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 Reference Elevations: 1968.00 ft (KB)
 Total Depth: 3070.00 ft (KB) (TVD)
 1958.00 ft (CF)
 Hole Diameter: 7.88 inches
 Hole Condition: Poor
 KB to GR/CF: 10.00 ft

Serial #: 8159

Press@RunDepth: 991.02 psia @ ft (KB) Capacity: 5000.00 psia
 Start Date: 2013.07.24 End Date: 2013.07.24 Last Calib.: 2013.07.24
 Start Time: 12:40:00 End Time: 19:10:00 Time On Btm: 2013.07.24 @ 14:29:40
 Time Off Btm: 2013.07.24 @ 17:31:30

TEST COMMENT: 1st Opening 30 Minutes-Strong blow built bottom of bucket in 10 minutes tool chased 10 feet
 1st Shut-in 45 Minutes-Very weak
 2nd Opening 45 Minutes-Strong blow built bottom of bucket in 4 1/2 minutes
 2nd Shut-in 60 Minutes-5 inch blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1492.29	97.59	Initial Hydro-static
1	135.89	96.98	Open To Flow (1)
30	123.12	99.55	Shut-In(1)
76	999.80	100.07	End Shut-In(1)
80	96.50	99.76	Open To Flow (2)
122	107.89	99.50	Shut-In(2)
181	991.02	99.64	End Shut-In(2)
182	1463.68	99.86	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
130.00	gas oil cut mud10%gas 30%oil 60%mud	1.82
0.00	710 feet gas in pipe	0.00

Gas Rates

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



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TOOL DIAGRAM

L B Exploration
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Tool Information

Drill Pipe:	Length: 3038.00 ft	Diameter: 3.80 inches	Volume: 42.62 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:	60000.00 lb
			<u>Total Volume: 42.62 bbl</u>	Tool Chased	10.00 ft
Drill Pipe Above KB:	28.00 ft			String Weight: Initial	42000.00 lb
Depth to Top Packer:	3030.00 ft			Final	43000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	40.00 ft				
Tool Length:	60.00 ft				
Number of Packers:	2	Diameter: 675.00 inches			

Tool Comments: tool chsd 10 feet to bottom

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut-In Tool	5.00			3015.00	
Hydraulic Tool	5.00			3020.00	
Packer	5.00			3025.00	20.00 Bottom Of Top Packer
Packer	5.00			3030.00	
Anchor	35.00			3065.00	
Recorder	1.00	6731	Inside	3066.00	
Recorder	1.00	8159	Outside	3067.00	
Bullnose	3.00			3070.00	40.00 Bottom Packers & Anchor

Total Tool Length: 60.00



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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:	47.00 sec/qt	Cushion Volume:	bbl		
Water Loss:	8.20 in ³	Gas Cushion Type:			
Resistivity:	ohm.m	Gas Cushion Pressure:	psia		
Salinity:	2400.00 ppm				
Filter Cake:	1.00 inches				

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
130.00	gas oil cut mud10%gas 30%oil 60%mud	1.824
0.00	710 feet gas in pipe	0.000

Total Length: 130.00 ft Total Volume: 1.824 bbl

Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
Laboratory Name: Laboratory Location:
Recovery Comments:

