



DRILL STEM TEST REPORT

Prepared For: **Carrie Exploration & Development**

210 w 22nd Street Hays Ks 67601

ATTN: Jeff Lawler

Ricker #C-1

15-20s-10w Rice

Start Date: 2013.06.10 @ 22:28:00

End Date: 2013.06.11 @ 03:29:30

Job Ticket #: 17468 DST #: 2

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

Printed: 2013.06.11 @ 03:45:31



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15-20s-10w Rice
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 Test Start: 2013.06.10 @ 22:28:00

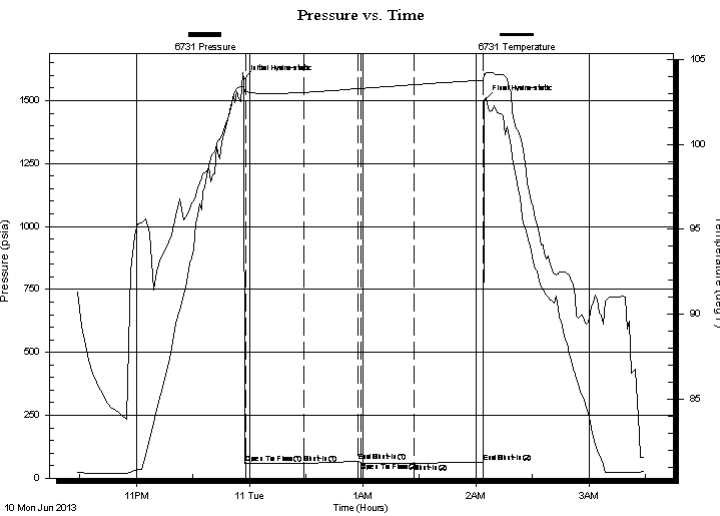
GENERAL INFORMATION:

Formation: **Lansing G**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 23:58:00
 Time Test Ended: 03:29:30
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Jared Scheck
 Unit No: 3320-Great Bend-50
 Interval: **3105.00 ft (KB) To 3159.00 ft (KB) (TVD)**
 Reference Elevations: 1837.00 ft (KB)
 Total Depth: 3159.00 ft (KB) (TVD)
 1829.00 ft (CF)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 KB to GR/CF: 8.00 ft

Serial #: 6731

Press@RunDepth: 59.96 psia @ ft (KB) Capacity: 5000.00 psia
 Start Date: 2013.06.10 End Date: 2013.06.11 Last Calib.: 2013.06.11
 Start Time: 22:28:00 End Time: 03:29:30 Time On Btm: 2013.06.10 @ 23:57:00
 Time Off Btm: 2013.06.11 @ 02:05:00

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



PRESSURE SUMMARY

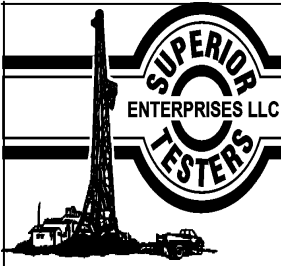
Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1585.56	103.45	Initial Hydro-static
1	59.49	103.11	Open To Flow (1)
32	58.91	103.07	Shut-In(1)
61	67.16	103.29	End Shut-In(1)
62	60.92	103.30	Open To Flow (2)
90	59.96	103.52	Shut-In(2)
127	63.89	103.79	End Shut-In(2)
128	1504.08	104.14	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
5.00	mud	0.07

Gas Rates

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



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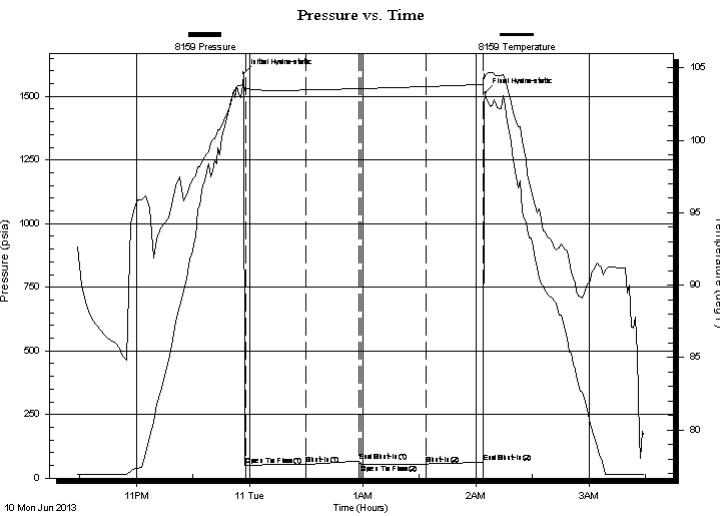
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 Reference Elevations: 1837.00 ft (KB)
 1829.00 ft (CF)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 KB to GR/CF: 8.00 ft

Serial #: 8159

Press@RunDepth: 62.49 psia @ ft (KB) Capacity: 5000.00 psia
 Start Date: 2013.06.10 End Date: 2013.06.11 Last Calib.: 2013.06.11
 Start Time: 22:28:00 End Time: 03:29:30 Time On Btm: 2013.06.10 @ 23:57:00
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 2nd Opening 30 Minutes-Weak surface blow built 1/4 inch into bucket w ater
 2nd Shut-in 30 Minutes-No blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1591.20	104.01	Initial Hydro-static
1	51.82	103.64	Open To Flow (1)
33	53.84	103.48	Shut-In(1)
61	66.90	103.57	End Shut-In(1)
62	54.80	103.57	Open To Flow (2)
97	55.98	103.71	Shut-In(2)
127	62.49	103.86	End Shut-In(2)
128	1513.30	104.43	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
5.00	mud	0.07

Gas Rates

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



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TOOL DIAGRAM

Carrie Exploration & Development
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Tool Information

Drill Pipe:	Length: 3112.00 ft	Diameter: 3.80 inches	Volume: 43.65 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:	50000.00 lb
			<u>Total Volume: 43.65 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	27.00 ft			String Weight: Initial	38000.00 lb
Depth to Top Packer:	3105.00 ft			Final	38000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	54.00 ft				
Tool Length:	74.00 ft				
Number of Packers:	2	Diameter: 675.00 inches			
Tool Comments:					

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
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Shut-In Tool	5.00			3090.00	
Hydraulic Tool	5.00			3095.00	
Packer	5.00			3100.00	20.00 Bottom Of Top Packer
Packer	5.00			3105.00	
Anchor	0.00			3105.00	
Change Over Sub	0.75			3105.75	
Drill Pipe	31.50			3137.25	
Change Over Sub	0.75			3138.00	
Anchor	16.00			3154.00	
Recorder	1.00		Inside	3155.00	
Recorder	1.00		Outside	3156.00	
Bullnose	3.00			3159.00	54.00 Bottom Packers & Anchor

Total Tool Length: 74.00



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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:	lb/gal	Cushion Length:	ft	Water Salinity:	ppm
Viscosity:	sec/qt	Cushion Volume:	bbl		
Water Loss:	in ³	Gas Cushion Type:			
Resistivity:	ohm.m	Gas Cushion Pressure:	psia		
Salinity:	ppm				
Filter Cake:	inches				

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5.00	mud	0.070

Total Length: 5.00 ft Total Volume: 0.070 bbl

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

Laboratory Name: Laboratory Location:

Recovery Comments:

