



DRILL STEM TEST REPORT

Prepared For: **RJM Company**

Po Box 256 Claflin KS 67525+0256

ATTN: Jim Musgrove

Maurice Nordman #1

6-18s-14w Barton

Start Date: 2013.12.04 @ 20:45:00

End Date: 2013.12.05 @ 01:40:30

Job Ticket #: 18469 DST #: 2

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

Printed: 2013.12.05 @ 02:00:10

RJM Company
6-18s-14w Barton
Maurice Nordman #1
DST # 2
Lansing E-F zones
2013.12.04



DRILL STEM TEST REPORT

RJM Company
 Po Box 256 Claflin KS 67525+0256
 ATTN: Jim Musgrove

6-18s-14w Barton
Maurice Nordman #1
 Job Ticket: 18469 **DST#:2**
 Test Start: 2013.12.04 @ 20:45:00

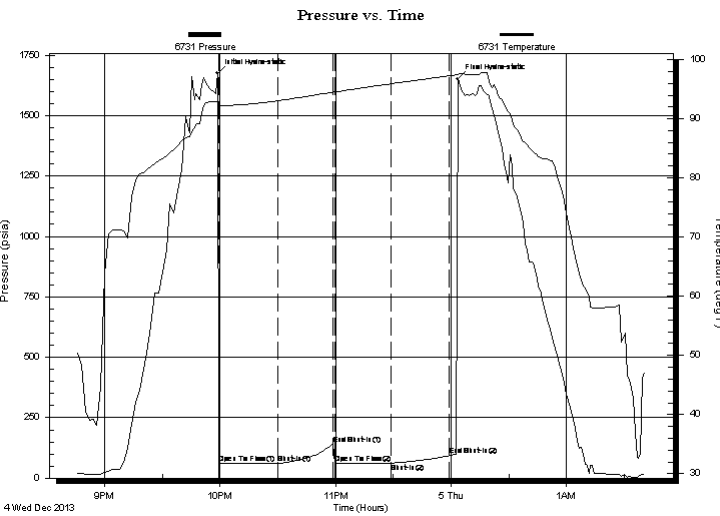
GENERAL INFORMATION:

Formation: **Lansing E-F zones**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 21:59:30
 Time Test Ended: 01:40:30
 Interval: **3306.00 ft (KB) To 3360.00 ft (KB) (TVD)**
 Total Depth: 3360.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Jared Scheck
 Unit No: 3320 -Great Bend-45
 Reference Elevations: 1991.00 ft (KB)
 1984.00 ft (CF)
 KB to GR/CF: 7.00 ft

Serial #: 6731

Press@RunDepth: 62.85 psia @ ft (KB) Capacity: 5000.00 psia
 Start Date: 2013.12.04 End Date: 2013.12.05 Last Calib.: 2013.12.05
 Start Time: 20:45:00 End Time: 01:40:30 Time On Btm: 2013.12.04 @ 21:58:30
 Time Off Btm: 2013.12.05 @ 00:03:30

TEST COMMENT: 1st Opening 30 Minutes-Weak blow built 3/4 inch into bucket w ater in 30 minutes
 1st Shut-in 30 Minutes-No blow back
 2nd Opening 30 Minutes-Weak blow built 1/2 inch into w ater in 30 minutes
 2nd Shut-in 30 Minutes-No blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1675.03	92.72	Initial Hydro-static
1	60.46	92.29	Open To Flow (1)
32	61.41	93.04	Shut-In(1)
60	141.95	94.47	End Shut-In(1)
61	62.25	94.50	Open To Flow (2)
90	62.85	95.90	Shut-In(2)
121	92.93	97.25	End Shut-In(2)
125	1652.75	97.46	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
15.00	mud	0.21

Gas Rates

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



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 Test Start: 2013.12.04 @ 20:45:00

GENERAL INFORMATION:

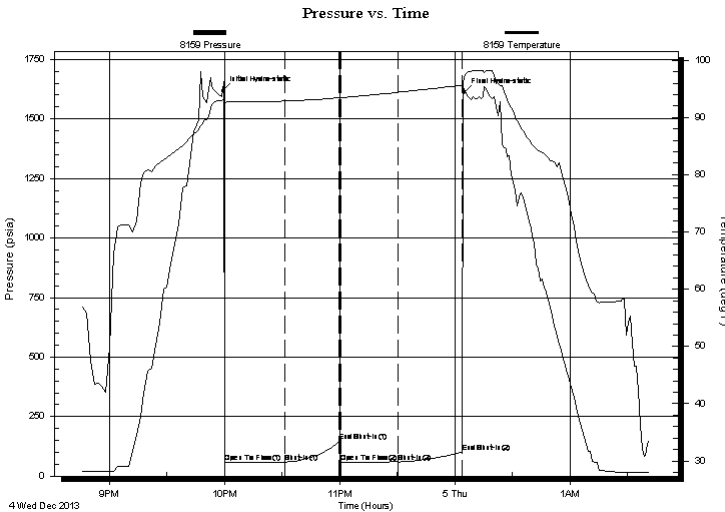
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 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Jared Scheck
 Unit No: 3320 -Great Bend-45
 Reference Elevations: 1991.00 ft (KB)
 1984.00 ft (CF)
 KB to GR/CF: 7.00 ft

Serial #: 8159

Press@RunDepth: 101.25 psia @ ft (KB) Capacity: 5000.00 psia
 Start Date: 2013.12.04 End Date: 2013.12.05 Last Calib.: 2013.12.05
 Start Time: 20:45:00 End Time: 01:42:00 Time On Btm: 2013.12.04 @ 21:59:00
 Time Off Btm: 2013.12.05 @ 00:05:00

TEST COMMENT: 1st Opening 30 Minutes-Weak blow built 3/4 inch into bucket w ater in 30 minutes
 1st Shut-in 30 Minutes-No blow back
 2nd Opening 30 Minutes-Weak blow built 1/2 inch into w ater in 30 minutes
 2nd Shut-in 30 Minutes-No blow back

PRESSURE SUMMARY



Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1617.33	93.06	Initial Hydro-static
1	57.11	92.43	Open To Flow (1)
33	59.38	92.87	Shut-In(1)
61	144.69	93.45	End Shut-In(1)
62	59.52	93.45	Open To Flow (2)
92	60.01	94.40	Shut-In(2)
125	101.25	95.60	End Shut-In(2)
126	1609.56	96.90	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
15.00	mud	0.21

Gas Rates

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



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TOOL DIAGRAM

RJM Company
 Po Box 256 Claflin KS 67525+0256
 A T T N : Jim Musgrove

6-18s-14w Barton
Maurice Nordman #1
 Job Ticket: 18469 **DST#:2**
 Test Start: 2013.12.04 @ 20:45:00

Tool Information

Drill Pipe:	Length: 3316.00 ft	Diameter: 3.80 inches	Volume: 46.51 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:	55000.00 lb
			<u>Total Volume: 46.51 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	30.00 ft			String Weight: Initial	50000.00 lb
Depth to Top Packer:	3306.00 ft			Final	50000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	54.00 ft				
Tool Length:	74.00 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			3291.00	
Hydraulic Tool	5.00			3296.00	
Packer	5.00			3301.00	20.00 Bottom Of Top Packer
Packer	5.00			3306.00	
Anchor	0.00			3306.00	
Change Over Sub	0.75			3306.75	
Drill Pipe	31.50			3338.25	
Change Over Sub	0.75			3339.00	
Anchor	16.00			3355.00	
Recorder	1.00	6731	Inside	3356.00	
Recorder	1.00	8400	Outside	3357.00	
Bullnose	3.00			3360.00	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: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	ppm
Viscosity: 51.00 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
15.00	mud	0.210

Total Length: 15.00 ft Total Volume: 0.210 bbl

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

Laboratory Name: Laboratory Location:

Recovery Comments:

