



## 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: 2013.12.05 @ 17:00:00

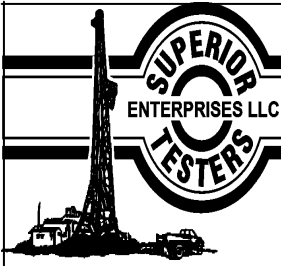
End Date: 2013.12.05 @ 23:49:30

Job Ticket #: 18470                      DST #: 3

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

Printed: 2013.12.06 @ 00:16:48

RJM Company  
6-18s-14w Barton  
Maurice Nordman #1  
DST # 3  
Lansing H I J zones  
2013.12.05



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

**6-18s-14w Barton**  
**Maurice Nordman #1**  
 Job Ticket: 18470 **DST#: 3**  
 Test Start: 2013.12.05 @ 17:00:00

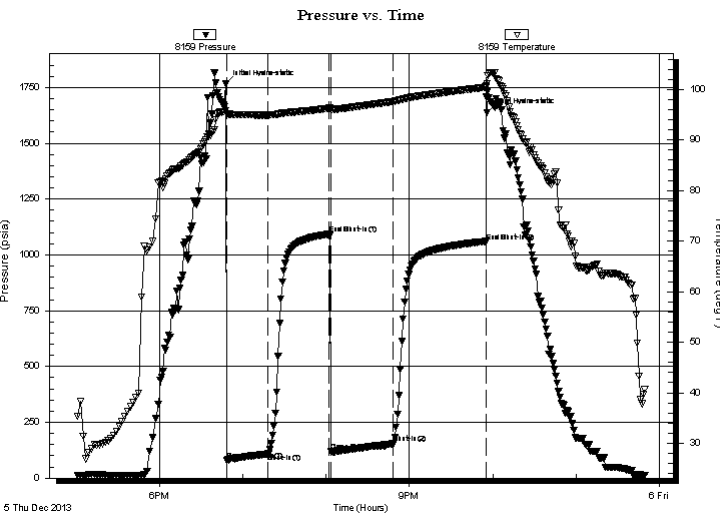
## GENERAL INFORMATION:

Formation: **Lansing HI J zones**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 18:48:30  
 Time Test Ended: 23:49:30  
 Interval: **3400.00 ft (KB) To 3490.00 ft (KB) (TVD)**  
 Total Depth: 3490.00 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 #: 8159

Press@RunDepth: 153.91 psia @ ft (KB) Capacity: 5000.00 psia  
 Start Date: 2013.12.05 End Date: 2013.12.05 Last Calib.: 2013.12.06  
 Start Time: 17:00:00 End Time: 23:49:30 Time On Btm: 2013.12.05 @ 18:47:30  
 Time Off Btm: 2013.12.05 @ 21:56:00

**TEST COMMENT:** 1st Opening 30 Minutes-Strong blow built bottom of bucket in 2 minutes  
 1st Shut-in 45 Minutes-1 inch blow back  
 2nd Opening 45 Minutes-Strong blow built bottom of bucket in 2 minutes  
 2nd Shut-in 60 Minutes-1inch blow back



## PRESSURE SUMMARY

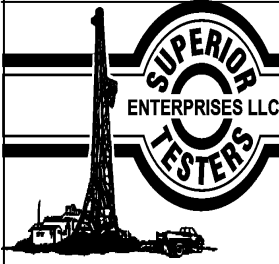
Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1765.12	95.73	Initial Hydro-static
1	80.94	95.17	Open To Flow (1)
31	109.15	94.92	Shut-In(1)
75	1092.87	96.26	End Shut-In(1)
76	118.28	96.02	Open To Flow (2)
121	153.91	97.63	Shut-In(2)
188	1060.61	100.44	End Shut-In(2)
189	1636.88	101.14	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
240.00	gas mud cut oil 10%g 60%o 30%m	3.37
10.00	10%gas 90%oil	0.14

## 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: 18470 **DST#: 3**  
 Test Start: 2013.12.05 @ 17:00:00

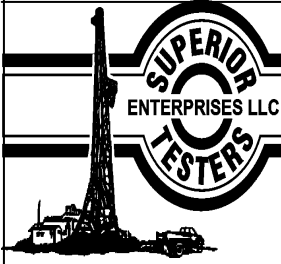
**Tool Information**

Drill Pipe:	Length: 3410.00 ft	Diameter: 3.80 inches	Volume: 47.83 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: 47.83 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	30.00 ft			String Weight: Initial	50000.00 lb
Depth to Top Packer:	3400.00 ft			Final	50000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	90.00 ft				
Tool Length:	110.00 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			3385.00	
Hydraulic Tool	5.00			3390.00	
Packer	5.00			3395.00	20.00 Bottom Of Top Packer
Packer	5.00			3400.00	
Anchor	0.00			3400.00	
Change Over Sub	0.75			3400.75	
Drill Pipe	63.50			3464.25	
Change Over Sub	0.75			3465.00	
Anchor	20.00			3485.00	
Recorder	1.00	6731	Inside	3486.00	
Recorder	1.00	8400	Outside	3487.00	
Bullnose	3.00			3490.00	90.00 Bottom Packers & Anchor

**Total Tool Length: 110.00**



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## FLUID SUMMARY

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 A TTN: Jim Musgrove

**6-18s-14w Barton**  
**Maurice Nordman #1**  
 Job Ticket: 18470      **DST#: 3**  
 Test Start: 2013.12.05 @ 17:00:00

### 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: 52.00 sec/qt	Cushion Volume: bbl		
Water Loss: 8.80 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psia		
Salinity: 5000.00 ppm			
Filter Cake: 1.00 inches			

### Recovery Information

Recovery Table

Length ft	Description	Volume bbl
240.00	gas mud cut oil 10%g 60%o 30%m	3.367
10.00	10%gas 90%oil	0.140

Total Length: 250.00 ft      Total Volume: 3.507 bbl  
 Num Fluid Samples: 0      Num Gas Bombs: 0      Serial #:  
 Laboratory Name:      Laboratory Location:  
 Recovery Comments:

