



## DRILL STEM TEST REPORT

Prepared For: **RJM Company**

Po Box 256 Claflin Kansas 67525

ATTN: Jim Musgrove

### **Robl Farms #1**

#### **18-19s-11w**

Start Date: 2012.06.16 @ 04:07:00

End Date: 2012.06.16 @ 10:38:30

Job Ticket #: 17683                      DST #: 1

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

Printed: 2012.06.19 @ 22:50:08



# DRILL STEM TEST REPORT

RJM Company  
 Po Box 256 Claflin Kansas 67525  
 ATTN: Jim Musgrove

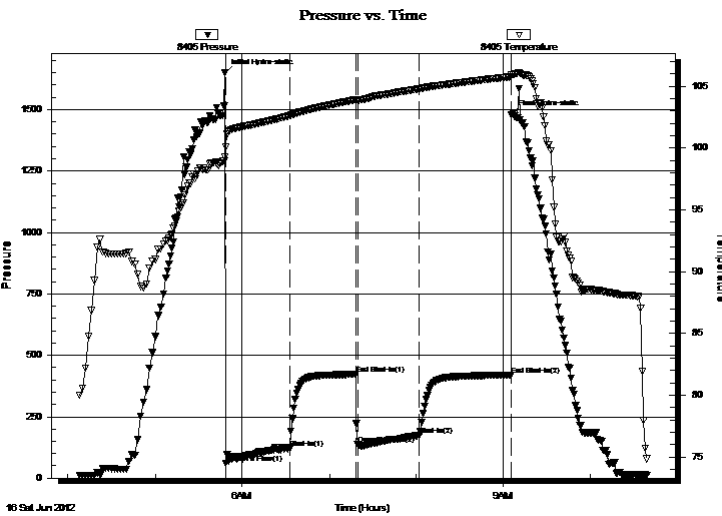
**18-19s-11w**  
**Robl Farms #1**  
 Job Ticket: 17683 **DST#: 1**  
 Test Start: 2012.06.16 @ 04:07:00

## GENERAL INFORMATION:

Formation: **Kansas City**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 05:48:30  
 Time Test Ended: 10:38:30  
 Interval: **3068.00 ft (KB) To 3120.00 ft (KB) (TVD)**  
 Total Depth: 3120.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Fair  
 Test Type: Conventional Bottom Hole (Initial)  
 Tester: Dustin Ellis  
 Unit No: 3315-Great Bend-30  
 Reference Elevations: 1799.00 ft (KB)  
 1792.00 ft (CF)  
 KB to GR/CF: 7.00 ft

**Serial #: 8405 Outside**  
 Press @ Run Depth: 173.72 psig @ 3117.22 ft (KB) Capacity: 5000.00 psig  
 Start Date: 2012.06.16 End Date: 2012.06.16 Last Calib.: 2012.06.16  
 Start Time: 04:08:00 End Time: 10:38:30 Time On Btm: 2012.06.16 @ 05:48:00  
 Time Off Btm: 2012.06.16 @ 09:05:30

**TEST COMMENT:** 1st Open 45 minutes Fair building blow built to bottom bucket 7 minutes  
 1st Shut in 45 minutes Yes blow back  
 2nd Open 45 minutes Strong blow blew bottom bucket instantly.  
 2nd Shut in 60 minutes Yes blow back



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1648.26	99.26	Initial Hydro-static
1	59.45	100.06	Open To Flow (1)
46	122.85	102.63	Shut-In(1)
90	422.15	103.91	End Shut-In(1)
92	136.99	103.88	Open To Flow (2)
134	173.72	104.79	Shut-In(2)
197	418.95	105.77	End Shut-In(2)
198	1478.70	105.97	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
72.00	Oil cut mud Oil 10% Mud 90%	0.35
72.00	Gassy oil cut mud	0.35
0.00	Gas 70% Oil 25% Mud 5%	0.00
72.00	Oil 75%gas Gas 75% Oil 25%	0.88
72.00	Oil cut mud 90%Oil 10%Mud	1.01
72.00	Oil Pluse gas Gas70% Oil30%	1.01

## Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (m³/d)
First Gas Rate	0.13		
Last Gas Rate	0.25		



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 Po Box 256 Claflin Kansas 67525  
 ATTN: Jim Musgrove

**18-19s-11w**  
**Robl Farms #1**  
 Job Ticket: 17683 **DST#: 1**  
 Test Start: 2012.06.16 @ 04:07:00

## GENERAL INFORMATION:

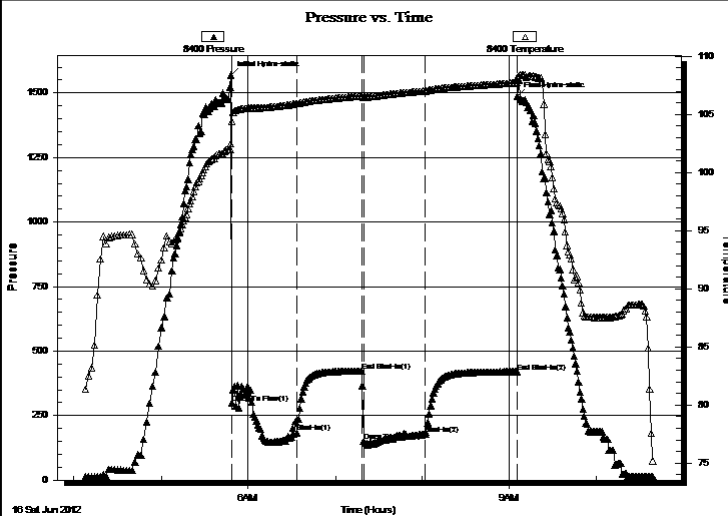
Formation: **Kansas City**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 05:48:30  
 Time Test Ended: 10:38:30  
 Interval: **3068.00 ft (KB) To 3120.00 ft (KB) (TVD)**  
 Total Depth: 3120.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Fair  
 Test Type: Conventional Bottom Hole (Initial)  
 Tester: Dustin Ellis  
 Unit No: 3315-Great Bend-30  
 Reference Elevations: 1799.00 ft (KB)  
 1792.00 ft (CF)  
 KB to GR/CF: 7.00 ft

## Serial #: 8400

Inside

Press @ Run Depth: 420.25 psig @ 3116.22 ft (KB) Capacity: 5000.00 psig  
 Start Date: 2012.06.16 End Date: 2012.06.16 Last Calib.: 2012.06.16  
 Start Time: 04:08:00 End Time: 10:39:00 Time On Btm: 2012.06.16 @ 05:48:00  
 Time Off Btm: 2012.06.16 @ 09:05:30

TEST COMMENT: 1st Open 45 minutes Fair building blow built to bottom bucket 7 minutes  
 1st Shut in 45 minutes Yes blow back  
 2nd Open 45 minutes Strong blow blew bottom bucket instantly.  
 2nd Shut in 60 minutes Yes blow back



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1568.76	102.48	Initial Hydro-static
1	299.33	104.42	Open To Flow (1)
46	183.80	105.91	Shut-In(1)
90	422.73	106.58	End Shut-In(1)
92	149.39	106.48	Open To Flow (2)
134	179.36	107.02	Shut-In(2)
197	420.25	107.72	End Shut-In(2)
198	1485.95	108.20	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
72.00	Oil cut mud Oil 10% Mud 90%	0.35
72.00	Gassy oil cut mud	0.35
0.00	Gas 70% Oil 25% Mud 5%	0.00
72.00	Oil 75%gas Gas 75% Oil 25%	0.88
72.00	Oil cut mud 90%Oil 10%Mud	1.01
72.00	Oil Pluse gas Gas70% Oil30%	1.01

## Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (m³/d)
First Gas Rate	0.13		
Last Gas Rate	0.25		



# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

RJM Company  
 Po Box 256 Claflin Kansas 67525  
 A T T N : Jim Musgrove

**18-19s-11w**  
**Robl Farms #1**  
 Job Ticket: 17683      **DST#: 1**  
 Test Start: 2012.06.16 @ 04:07:00

**Tool Information**

Drill Pipe:	Length: 2897.00 ft	Diameter: 3.80 inches	Volume: 40.64 bbl	Tool Weight:	2000.00 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: 158.79 ft	Diameter: 2.25 inches	Volume: 0.78 bbl	Weight to Pull Loose:	64000.00 lb
			<u>Total Volume: 41.42 bbl</u>	Tool Chased	6.00 ft
Drill Pipe Above KB:	7.79 ft			String Weight: Initial	40000.00 lb
Depth to Top Packer:	3068.00 ft			Final	40000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	52.22 ft				
Tool Length:	72.22 ft				
Number of Packers:	2	Diameter: 6.75 inches			
Tool Comments:					

<b>Tool Description</b>	<b>Length (ft)</b>	<b>Serial No.</b>	<b>Position</b>	<b>Depth (ft)</b>	<b>Accum. Lengths</b>
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Shut-In Tool	5.00			3053.00	
Hydraulic Tool	5.00			3058.00	
Packer	5.00			3063.00	20.00      Bottom Of Top Packer
Packer	5.00			3068.00	
Perforations	0.00			3068.00	
Change Over Sub	0.75			3068.75	
Drill Pipe	31.72			3100.47	
Change Over Sub	0.75			3101.22	
Perforations	14.00			3115.22	
Recorder	1.00	8400	Inside	3116.22	
Recorder	1.00	8405	Outside	3117.22	
Bull Plug	3.00			3120.22	52.22      Bottom Packers & Anchor

**Total Tool Length: 72.22**



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## FLUID SUMMARY

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**18-19s-11w**  
**Robl Farms #1**  
 Job Ticket: 17683      **DST#: 1**  
 Test Start: 2012.06.16 @ 04:07:00

### Mud and Cushion Information

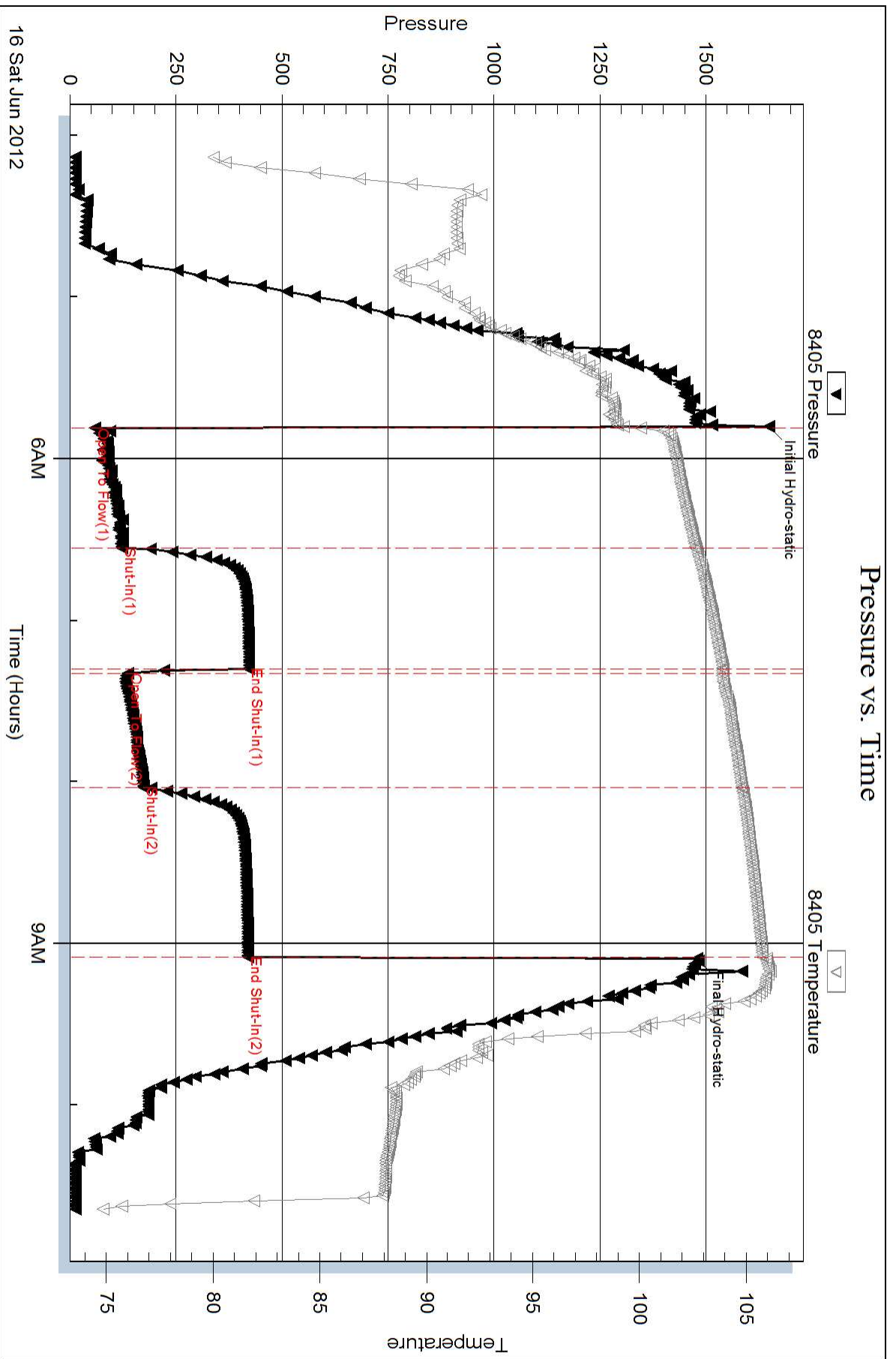
Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	ppm
Viscosity: 48.00 sec/qt	Cushion Volume: bbl		
Water Loss: 8.79 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 6000.00 ppm			
Filter Cake: 1.00 inches			

### Recovery Information

Recovery Table

Length ft	Description	Volume bbl
72.00	Oil cut mud Oil 10% Mud 90%	0.354
72.00	Gassy oil cut mud	0.354
0.00	Gas 70% Oil 25% Mud 5%	0.000
72.00	Oil 75%gas Gas 75% Oil 25%	0.875
72.00	Oil cut mud 90%Oil 10%Mud	1.010
72.00	Oil Pluse gas Gas70% Oil30%	1.010

Total Length: 360.00 ft      Total Volume: 3.603 bbl  
 Num Fluid Samples: 0      Num Gas Bombs: 0      Serial #:  
 Laboratory Name:      Laboratory Location:  
 Recovery Comments:



16 Sat Jun 2012

