



DRILL STEM TEST REPORT

Prepared For: **RJM Company**

Po box 256 Claflin Kansas
67525

ATTN: Jim Musgrove

Pam Wirth #1

24-18s-11w-Barton

Start Date: 2012.09.22 @ 01:25:00

End Date: 2012.09.22 @ 07:16:30

Job Ticket #: 17270 DST #: 1

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

Printed: 2012.09.22 @ 05:38:23

RJM Company

24-18s-11w-Barton

Pam Wirth #1

DST # 1

Lansing KC

2012.09.22



DRILL STEM TEST REPORT

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

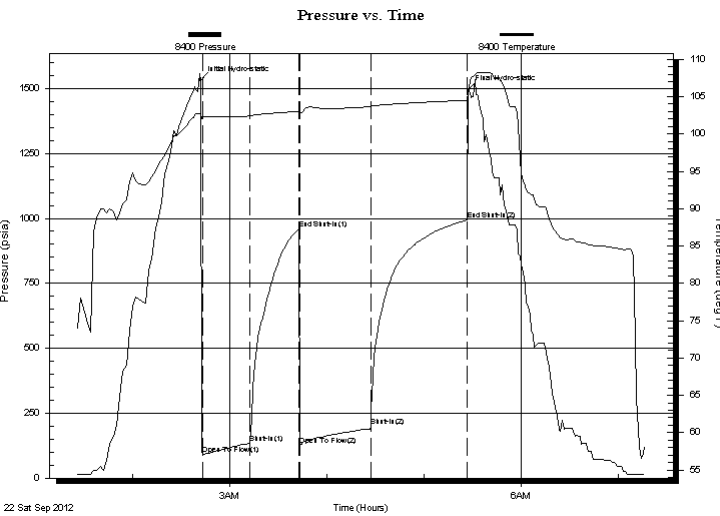
24-18s-11w-Barton
Pam Wirth #1
 Job Ticket: 17270 **DST#: 1**
 Test Start: 2012.09.22 @ 01:25:00

GENERAL INFORMATION:

Formation: **Lansing KC**
 Deviated: No Whipstock: ft (KB)
 Test Type: Conventional Bottom Hole (Initial)
 Time Tool Opened: 02:43:00 Tester: Dustin Ellis
 Time Test Ended: 07:16:30 Unit No: 3315-Great Bend-45
 Interval: **2969.00 ft (KB) To 3077.00 ft (KB) (TVD)** Reference Elevations: 1757.00 ft (KB)
 Total Depth: 3077.00 ft (KB) (TVD) 1750.00 ft (CF)
 Hole Diameter: 7.88 inches Hole Condition: Fair KB to GR/CF: 7.00 ft

Serial #: 8400 Outside
 Press @ Run Depth: 200.03 psia @ 3074.07 ft (KB) Capacity: 5000.00 psia
 Start Date: 2012.09.22 End Date: 2012.09.22 Last Calib.: 2012.09.22
 Start Time: 01:25:00 End Time: 07:16:30 Time On Btm: 2012.09.22 @ 02:42:00
 Time Off Btm: 2012.09.22 @ 05:27:30

TEST COMMENT: 1st Open 30 minutes Fair building blow blew bottom bucket 3 minutes
 1st Shut in 30 minutes No 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 (psia)	Temp (deg F)	Annotation
0	1532.61	102.66	Initial Hydro-static
1	93.07	102.31	Open To Flow (1)
31	134.22	102.39	Shut-In(1)
61	959.13	103.02	End Shut-In(1)
62	124.87	102.73	Open To Flow (2)
105	200.03	103.64	Shut-In(2)
165	993.84	104.53	End Shut-In(2)
166	1495.25	105.72	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
124.00	Very lightly oil spotted gassy mud 100%	1.74
124.00	Oil cut gassy mud 15%gas5%oil80% mud	1.74
124.00	Oil cut gassy mud 10%gas5%oil 85% mud	1.74
0.00	Gas to surface in 4 minutes into pipe	0.00

Gas Rates

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



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 1750.00 ft (CF)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 KB to GR/CF: 7.00 ft

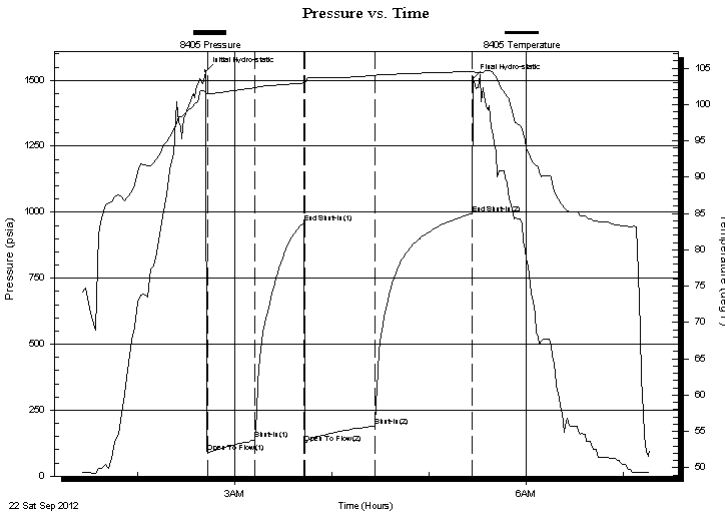
Serial #: 8405

Inside

Press @ Run Depth: 993.92 psia @ 3073.07 ft (KB) Capacity: 5000.00 psia
 Start Date: 2012.09.22 End Date: 2012.09.22 Last Calib.: 2012.09.22
 Start Time: 01:25:00 End Time: 07:16:30 Time On Btm: 2012.09.22 @ 02:42:00
 Time Off Btm: 2012.09.22 @ 05:27:30

TEST COMMENT: 1st Open 30 minutes Fair building blow blew bottom bucket 3 minutes
 1st Shut in 30 minutes No 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 (psia)	Temp (deg F)	Annotation
0	1534.30	101.76	Initial Hydro-static
1	91.23	101.52	Open To Flow (1)
31	137.95	102.29	Shut-In(1)
61	958.91	102.94	End Shut-In(1)
62	123.88	102.87	Open To Flow (2)
105	190.08	103.98	Shut-In(2)
165	993.92	104.54	End Shut-In(2)
166	1506.38	104.48	Final Hydro-static

Recovery

Gas Rates

Length (ft)	Description	Volume (bbl)
124.00	Very lightly oil spotted gassy mud 100%	1.74
124.00	Oil cut gassy mud 15%gas5%oil80% mud	1.74
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0.00	Gas to surface in 4 minutes into pipe	0.00

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



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TOOL DIAGRAM

RJM Company
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 67525
 A T T N : Jim Musgrove

24-18s-11w-Barton
Pam Wirth #1
 Job Ticket: 17270 **DST#: 1**
 Test Start: 2012.09.22 @ 01:25:00

Tool Information

Drill Pipe:	Length: 2969.00 ft	Diameter: 3.80 inches	Volume: 41.65 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: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 40000.00 lb
			<u>Total Volume: 41.65 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	20.00 ft			String Weight: Initial 36000.00 lb
Depth to Top Packer:	2969.00 ft			Final 36000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	108.07 ft			
Tool Length:	128.07 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut-In Tool	5.00			2954.00	
Hydraulic Tool	5.00			2959.00	
Packer	5.00			2964.00	20.00 Bottom Of Top Packer
Packer	5.00			2969.00	
Anchor	15.00			2984.00	
Change Over Sub	0.75			2984.75	
Drill Pipe	62.57			3047.32	
Change Over Sub	0.75			3048.07	
Anchor	24.00			3072.07	
Recorder	1.00	8405	Inside	3073.07	
Recorder	1.00	8400	Outside	3074.07	
Bull Plug	3.00			3077.07	108.07 Bottom Packers & Anchor

Total Tool Length: 128.07



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FLUID SUMMARY

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Mud and Cushion Information

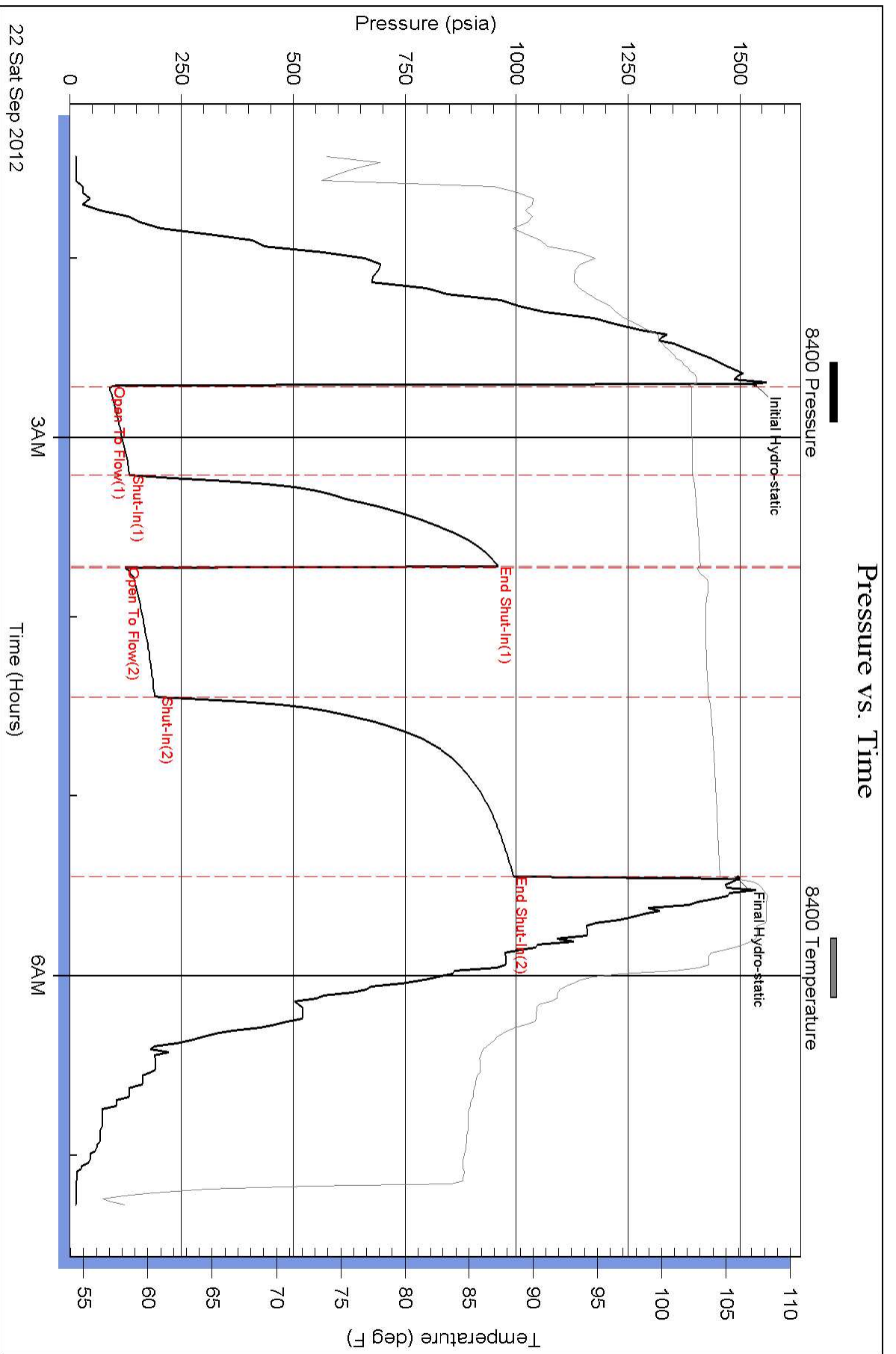
Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	ppm
Viscosity: 51.00 sec/qt	Cushion Volume: bbl		
Water Loss: 10.40 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psia		
Salinity: 3000.00 ppm			
Filter Cake: 1.00 inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
124.00	Very lightly oil spotted gassy mud 100%	1.739
124.00	Oil cut gassy mud 15%gas5%oil80%mud	1.739
124.00	Oil cut gassy mud 10%gas5%oil 85%mud	1.739
0.00	Gas to surface in 4 minutes into pipe	0.000

Total Length: 372.00 ft Total Volume: 5.217 bbl
 Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
 Laboratory Name: Laboratory Location:
 Recovery Comments:



Pressure vs. Time

