

DRILL STEM TEST REPORT

Prepared For: **RJM Company**

Po Box 256 Claflin Kansas
67525

ATTN: Jim Musgrove

Boys Town Unit #2

32-17s-10w-Barton

Start Date: 2013.01.18 @ 07:20:00

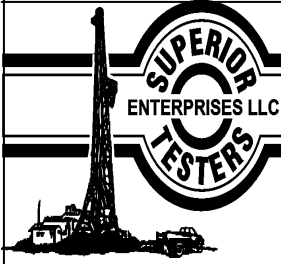
End Date: 2013.01.18 @ 13:29:23

Job Ticket #: 17409 DST #: 1

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

Printed: 2013.01.19 @ 01:58:17

RJM Company
32-17s-10w-Barton
Boys Town Unit #2
DST # 1
Lansing A-B-C
2013.01.18



DRILL STEM TEST REPORT

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

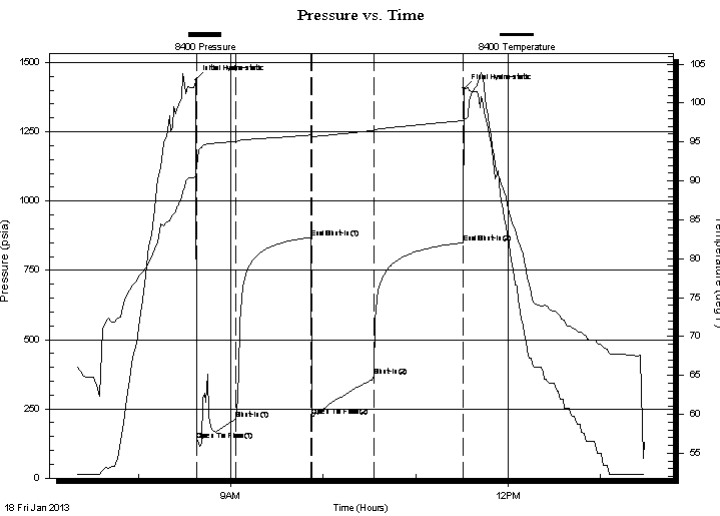
32-17s-10w-Barton
Boys Town Unit #2
 Job Ticket: 17409 **DST#: 1**
 Test Start: 2013.01.18 @ 07:20:00

GENERAL INFORMATION:

Formation: **Lansing A-B-C**
 Deviated: No Whipstock: ft (KB)
 Test Type: Conventional Bottom Hole (Initial)
 Time Tool Opened: 08:37:53 Tester: Dustin Ellis
 Time Test Ended: 13:29:23 Unit No: 3315-Great Bend-60
 Interval: **2938.00 ft (KB) To 2991.00 ft (KB) (TVD)** Reference Elevations: 1798.00 ft (KB)
 Total Depth: 2991.00 ft (KB) (TVD) 1790.00 ft (CF)
 Hole Diameter: 7.88 inches Hole Condition: Fair KB to GR/CF: 8.00 ft

Serial #: 8400 Outside
 Press@RunDepth: 366.99 psia @ 2988.20 ft (KB) Capacity: 5000.00 psia
 Start Date: 2013.01.18 End Date: 2013.01.18 Last Calib.: 2013.01.19
 Start Time: 07:20:00 End Time: 13:29:23 Time On Btm: 2013.01.18 @ 08:37:23
 Time Off Btm: 2013.01.18 @ 11:31:23

TEST COMMENT: 1st Open 30 minutes Strong building blow blew bottom bucket 1 minute.
 1st Shut in 45 minutes Yes blow back
 2nd Open 45 minutes Strong building blow blew bottom bucket 1 minute.
 2nd Shut in 60 minutes Yes blow back



PRESSURE SUMMARY

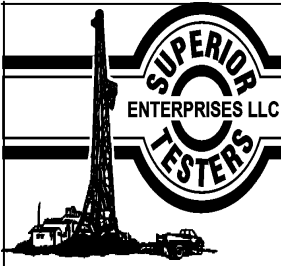
Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1437.26	90.95	Initial Hydro-static
1	138.47	91.95	Open To Flow (1)
26	213.31	95.04	Shut-In(1)
75	866.07	95.90	End Shut-In(1)
75	223.10	95.71	Open To Flow (2)
116	366.99	96.48	Shut-In(2)
174	849.71	97.74	End Shut-In(2)
174	1406.64	97.89	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
490.00	Oil cut mud 95% Oil 5%Mud	6.87
490.00	Clean oil 100%	6.87
244.00	Watery mud 5% mud 95%oil	3.42
0.00	Chlorides 33,000 .4ohms	0.00

Gas Rates

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



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 Po Box 256 Claflin Kansas
 67525
 ATTN: Jim Musgrove

32-17s-10w-Barton
Boys Town Unit #2
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 Tester: Dustin Ellis
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 Reference Elevations: 1798.00 ft (KB)
 Total Depth: 2991.00 ft (KB) (TVD) 1790.00 ft (CF)
 Hole Diameter: 7.88 inches Hole Condition: Fair KB to GR/CF: 8.00 ft

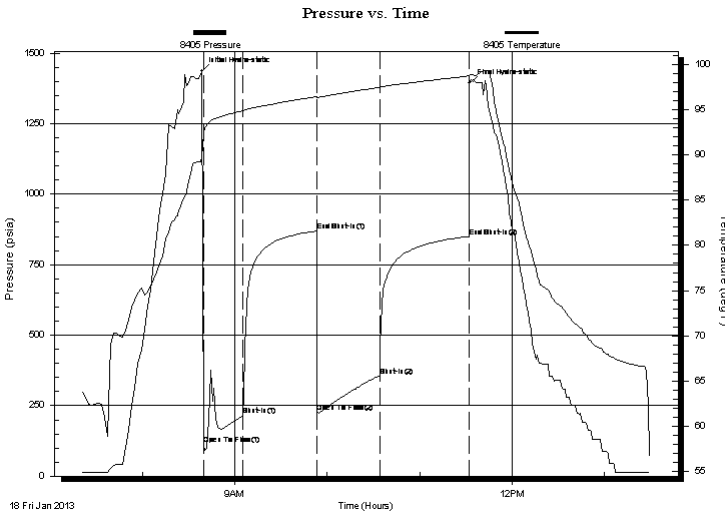
Serial #: 8405

Inside

Press@RunDepth: 849.81 psia @ 2987.20 ft (KB) Capacity: 5000.00 psia
 Start Date: 2013.01.18 End Date: 2013.01.18 Last Calib.: 2013.01.19
 Start Time: 07:20:00 End Time: 13:30:00 Time On Btm: 2013.01.18 @ 08:38:30
 Time Off Btm: 2013.01.18 @ 11:32:30

TEST COMMENT: 1st Open 30 minutes Strong building blow blew bottom bucket 1 minute.
 1st Shut in 45 minutes Yes blow back
 2nd Open 45 minutes Strong building blow blew bottom bucket 1 minute.
 2nd Shut in 60 minutes Yes blow back

PRESSURE SUMMARY



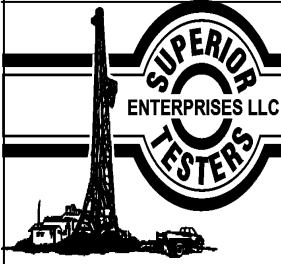
Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1436.24	89.79	Initial Hydro-static
1	111.71	92.35	Open To Flow (1)
27	215.59	94.86	Shut-In(1)
75	868.47	96.45	End Shut-In(1)
75	225.83	96.35	Open To Flow (2)
116	355.44	97.45	Shut-In(2)
174	849.81	98.72	End Shut-In(2)
174	1393.29	98.80	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
490.00	Oil cut mud 95% Oil 5%Mud	6.87
490.00	Clean oil 100%	6.87
244.00	Watery mud 5% mud 95%oil	3.42
0.00	Chlorides 33,000 .4ohms	0.00

Gas Rates

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



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TOOL DIAGRAM

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

32-17s-10w-Barton
Boys Town Unit #2
 Job Ticket: 17409 **DST#: 1**
 Test Start: 2013.01.18 @ 07:20:00

Tool Information

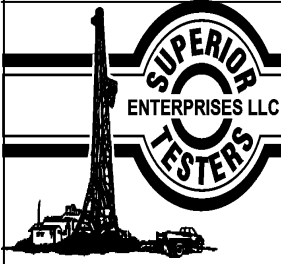
Drill Pipe:	Length: 2932.00 ft	Diameter: 3.80 inches	Volume: 41.13 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 32000.00 lb
			<u>Total Volume: 41.13 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	14.00 ft			String Weight: Initial 28000.00 lb
Depth to Top Packer:	2938.00 ft			Final lb
Depth to Bottom Packer:	ft			
Interval between Packers:	53.20 ft			
Tool Length:	73.20 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			2923.00	
Hydraulic Tool	5.00			2928.00	
Packer	5.00			2933.00	20.00 Bottom Of Top Packer
Packer	5.00			2938.00	
Anchor	5.00			2943.00	
Change Over Sub	0.75			2943.75	
Drill Pipe	31.70			2975.45	
Change Over Sub	0.75			2976.20	
Anchor	10.00			2986.20	
Recorder	1.00	8405	Inside	2987.20	
Recorder	1.00	8400	Outside	2988.20	
Bullnose	3.00			2991.20	53.20 Bottom Packers & Anchor

Total Tool Length: 73.20



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FLUID SUMMARY

RJM Company

32-17s-10w-Barton

Po Box 256 Claflin Kansas
67525

Boys Town Unit #2

Job Ticket: 17409

DST#: 1

ATTN: Jim Musgrove

Test Start: 2013.01.18 @ 07:20:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 8.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 52.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.20 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psia

Salinity: 5300.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
490.00	Oil cut mud 95% Oil 5%Mud	6.873
490.00	Clean oil 100%	6.873
244.00	Watery mud 5% mud 95%oil	3.423
0.00	Chlorides 33,000 .4ohms	0.000

Total Length: 1224.00 ft

Total Volume: 17.169 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

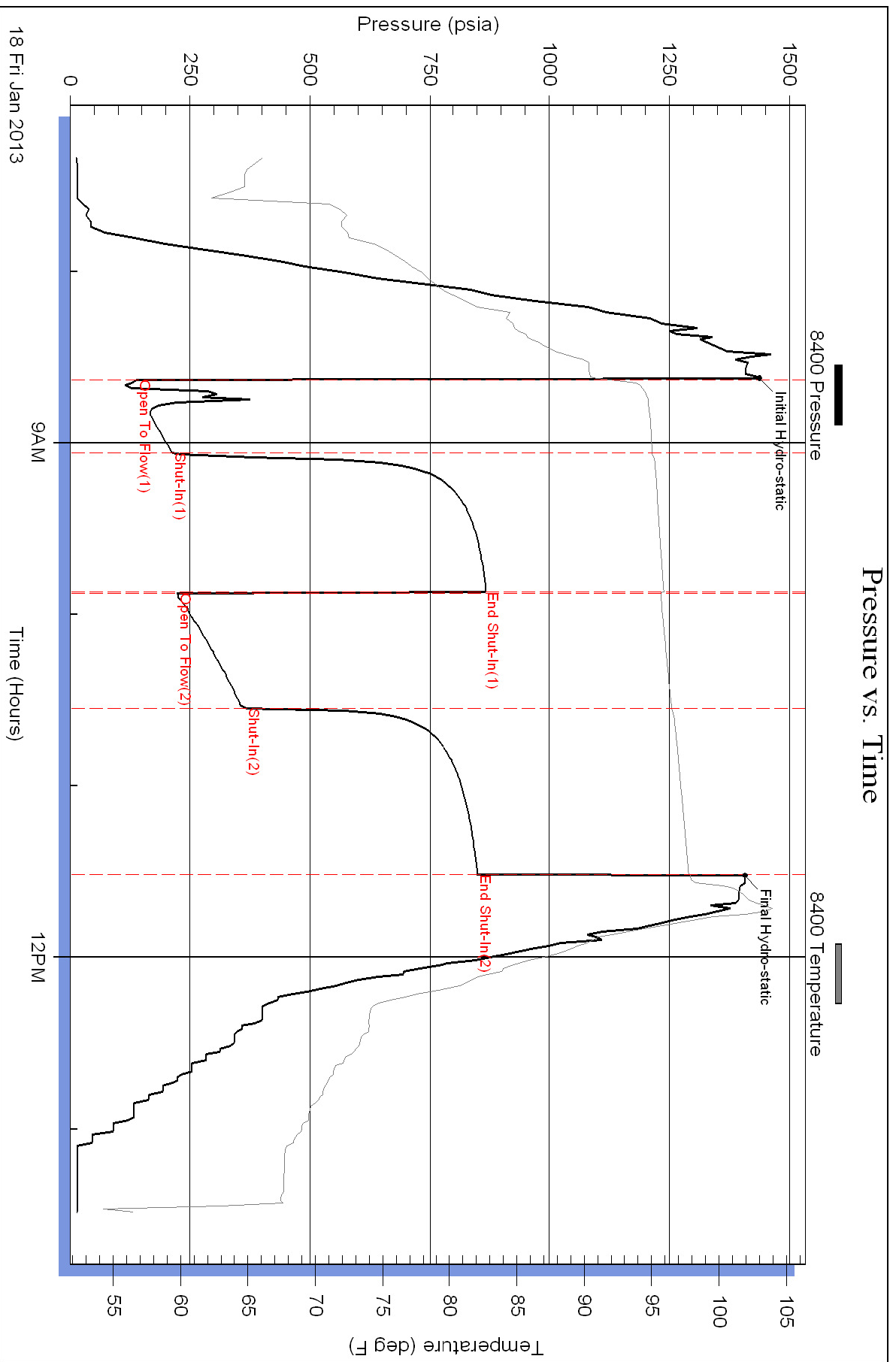
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time



Pressure vs. Time

