



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1124438
OIL & GAS CONSERVATION DIVISION

Form ACO-1
August 2013

Form must be Typed
Form must be Signed
All blanks must be Filled

WELL COMPLETION FORM
WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License # _____

Name: _____

Address 1: _____

Address 2: _____

City: _____ State: _____ Zip: _____ + _____

Contact Person: _____

Phone: (_____) _____

CONTRACTOR: License # _____

Name: _____

Wellsite Geologist: _____

Purchaser: _____

Designate Type of Completion:

- New Well Re-Entry Workover
- Oil WSW SWD SIOW
- Gas D&A ENHR SIGW
- OG GSW Temp. Abd.
- CM (Coal Bed Methane)
- Cathodic Other (Core, Expl., etc.): _____

If Workover/Re-entry: Old Well Info as follows:

Operator: _____

Well Name: _____

Original Comp. Date: _____ Original Total Depth: _____

- Deepening Re-perf. Conv. to ENHR Conv. to SWD
- Plug Back Conv. to GSW Conv. to Producer
- Commingled Permit #: _____
- Dual Completion Permit #: _____
- SWD Permit #: _____
- ENHR Permit #: _____
- GSW Permit #: _____

Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date
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API No. 15 - _____

Spot Description: _____

_____ - _____ - _____ Sec. _____ Twp. _____ S. R. _____ East West

_____ Feet from North / South Line of Section

_____ Feet from East / West Line of Section

Footages Calculated from Nearest Outside Section Corner:

- NE NW SE SW

GPS Location: Lat: _____, Long: _____
(e.g. xx.xxxxx) (e.g. -xxx.xxxxx)

Datum: NAD27 NAD83 WGS84

County: _____

Lease Name: _____ Well #: _____

Field Name: _____

Producing Formation: _____

Elevation: Ground: _____ Kelly Bushing: _____

Total Vertical Depth: _____ Plug Back Total Depth: _____

Amount of Surface Pipe Set and Cemented at: _____ Feet

Multiple Stage Cementing Collar Used? Yes No

If yes, show depth set: _____ Feet

If Alternate II completion, cement circulated from: _____

feet depth to: _____ w/ _____ sx cmt.

Drilling Fluid Management Plan

(Data must be collected from the Reserve Pit)

Chloride content: _____ ppm Fluid volume: _____ bbls

Dewatering method used: _____

Location of fluid disposal if hauled offsite: _____

Operator Name: _____

Lease Name: _____ License #: _____

Quarter _____ Sec. _____ Twp. _____ S. R. _____ East West

County: _____ Permit #: _____

AFFIDAVIT

I am the affiant and I hereby certify that all requirements of the statutes, rules and regulations promulgated to regulate the oil and gas industry have been fully complied with and the statements herein are complete and correct to the best of my knowledge.

Submitted Electronically

KCC Office Use ONLY

- Confidentiality Requested
Date: _____
- Confidential Release Date: _____
- Wireline Log Received
- Geologist Report Received
- UIC Distribution
- ALT I II III Approved by: _____ Date: _____



1124438

Operator Name: _____ Lease Name: _____ Well #: _____

Sec. _____ Twp. _____ S. R. _____ East West County: _____

INSTRUCTIONS: Show important tops of formations penetrated. Detail all cores. Report all final copies of drill stems tests giving interval tested, time tool open and closed, flowing and shut-in pressures, whether shut-in pressure reached static level, hydrostatic pressures, bottom hole temperature, fluid recovery, and flow rates if gas to surface test, along with final chart(s). Attach extra sheet if more space is needed.

Final Radioactivity Log, Final Logs run to obtain Geophysical Data and Final Electric Logs must be emailed to kcc-well-logs@kcc.ks.gov. Digital electronic log files must be submitted in LAS version 2.0 or newer AND an image file (TIFF or PDF).

Drill Stem Tests Taken <input type="checkbox"/> Yes <input type="checkbox"/> No <i>(Attach Additional Sheets)</i> Samples Sent to Geological Survey <input type="checkbox"/> Yes <input type="checkbox"/> No Cores Taken <input type="checkbox"/> Yes <input type="checkbox"/> No Electric Log Run <input type="checkbox"/> Yes <input type="checkbox"/> No List All E. Logs Run: _____	<input type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample Name Top Datum
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CASING RECORD <input type="checkbox"/> New <input type="checkbox"/> Used							
Report all strings set-conductor, surface, intermediate, production, etc.							
Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs. / Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives

ADDITIONAL CEMENTING / SQUEEZE RECORD				
Purpose:	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
<input type="checkbox"/> Perforate <input type="checkbox"/> Protect Casing <input type="checkbox"/> Plug Back TD <input type="checkbox"/> Plug Off Zone				

Did you perform a hydraulic fracturing treatment on this well? Yes No *(If No, skip questions 2 and 3)*

Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons? Yes No *(If No, skip question 3)*

Was the hydraulic fracturing treatment information submitted to the chemical disclosure registry? Yes No *(If No, fill out Page Three of the ACO-1)*

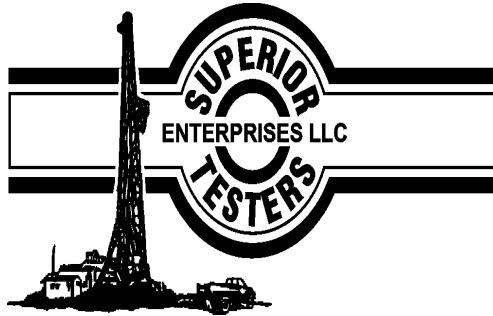
Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record <i>(Amount and Kind of Material Used)</i>	Depth

TUBING RECORD:	Size:	Set At:	Packer At:	Liner Run: <input type="checkbox"/> Yes <input type="checkbox"/> No
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Date of First, Resumed Production, SWD or ENHR.	Producing Method: <input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other <i>(Explain)</i> _____
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Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity

DISPOSITION OF GAS: <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	METHOD OF COMPLETION: <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</i> <input type="checkbox"/> Other <i>(Specify)</i> _____	PRODUCTION INTERVAL: _____ _____
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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



DRILL STEM TEST REPORT

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

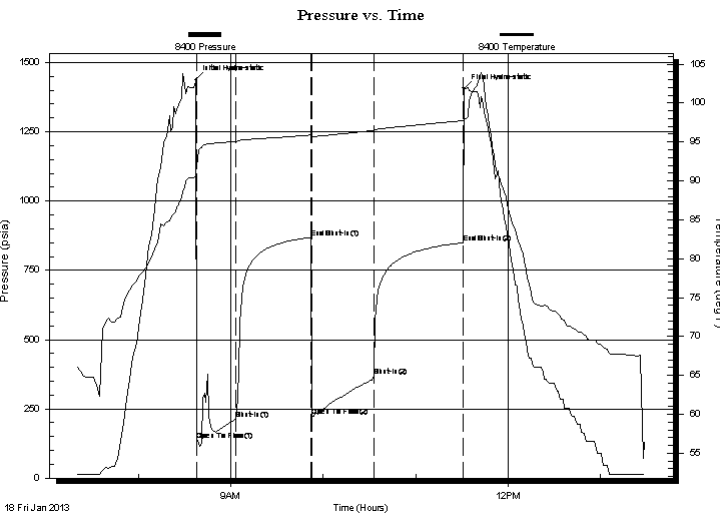
32-17s-10w-Barton
Boys Town Unit #2
 Job Ticket: 17409 **DST#: 1**
 Test Start: 2013.01.18 @ 07:20:00

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

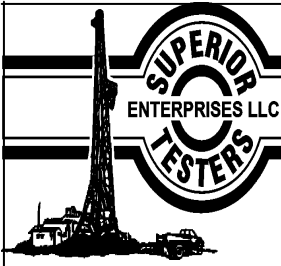
Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1437.26	90.95	Initial Hydro-static
1	138.47	91.95	Open To Flow (1)
26	213.31	95.04	Shut-In(1)
75	866.07	95.90	End Shut-In(1)
75	223.10	95.71	Open To Flow (2)
116	366.99	96.48	Shut-In(2)
174	849.71	97.74	End Shut-In(2)
174	1406.64	97.89	Final Hydro-static

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)



DRILL STEM TEST REPORT

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

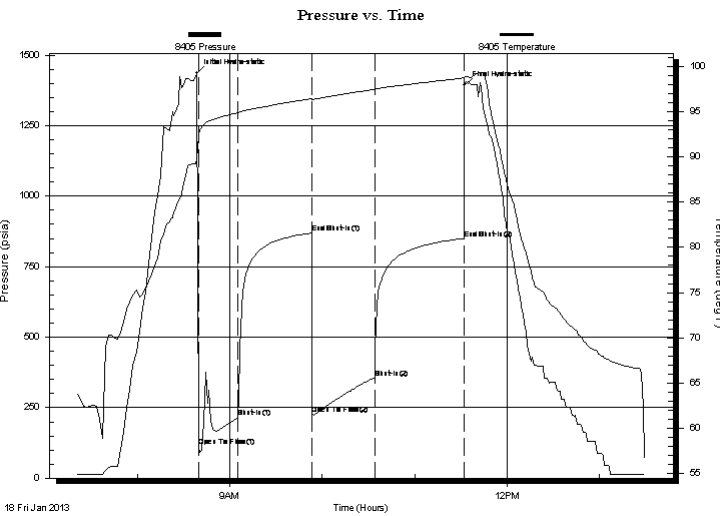
32-17s-10w-Barton
Boys Town Unit #2
 Job Ticket: 17409 **DST#: 1**
 Test Start: 2013.01.18 @ 07:20:00

GENERAL INFORMATION:

Formation: **Lansing A-B-C**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 08:37:53
 Time Test Ended: 13:29:23
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Dustin Ellis
 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 #: 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)



DRILL STEM TEST REPORT

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

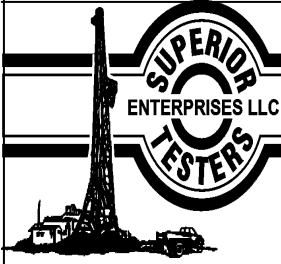
Drill Pipe:	Length: 2932.00 ft	Diameter: 3.80 inches	Volume: 41.13 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 32000.00 lb
			<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



DRILL STEM TEST REPORT

FLUID SUMMARY

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

32-17s-10w-Barton
Boys Town Unit #2
 Job Ticket: 17409 **DST#: 1**
 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: bbl		
Water Loss: 8.20 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psia		
Salinity: 5300.00 ppm			
Filter Cake: 1.00 inches			

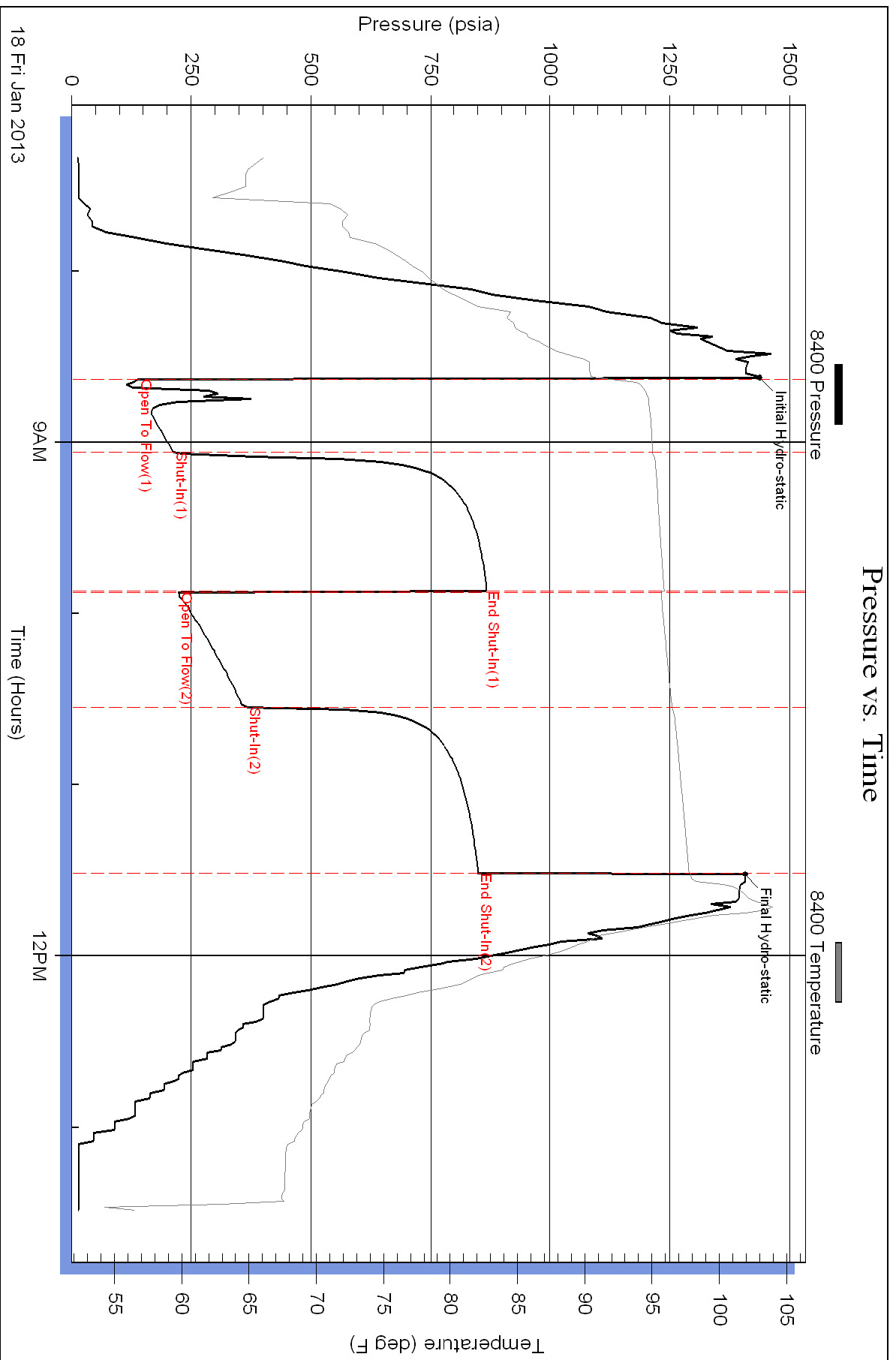
Recovery Information

Recovery Table

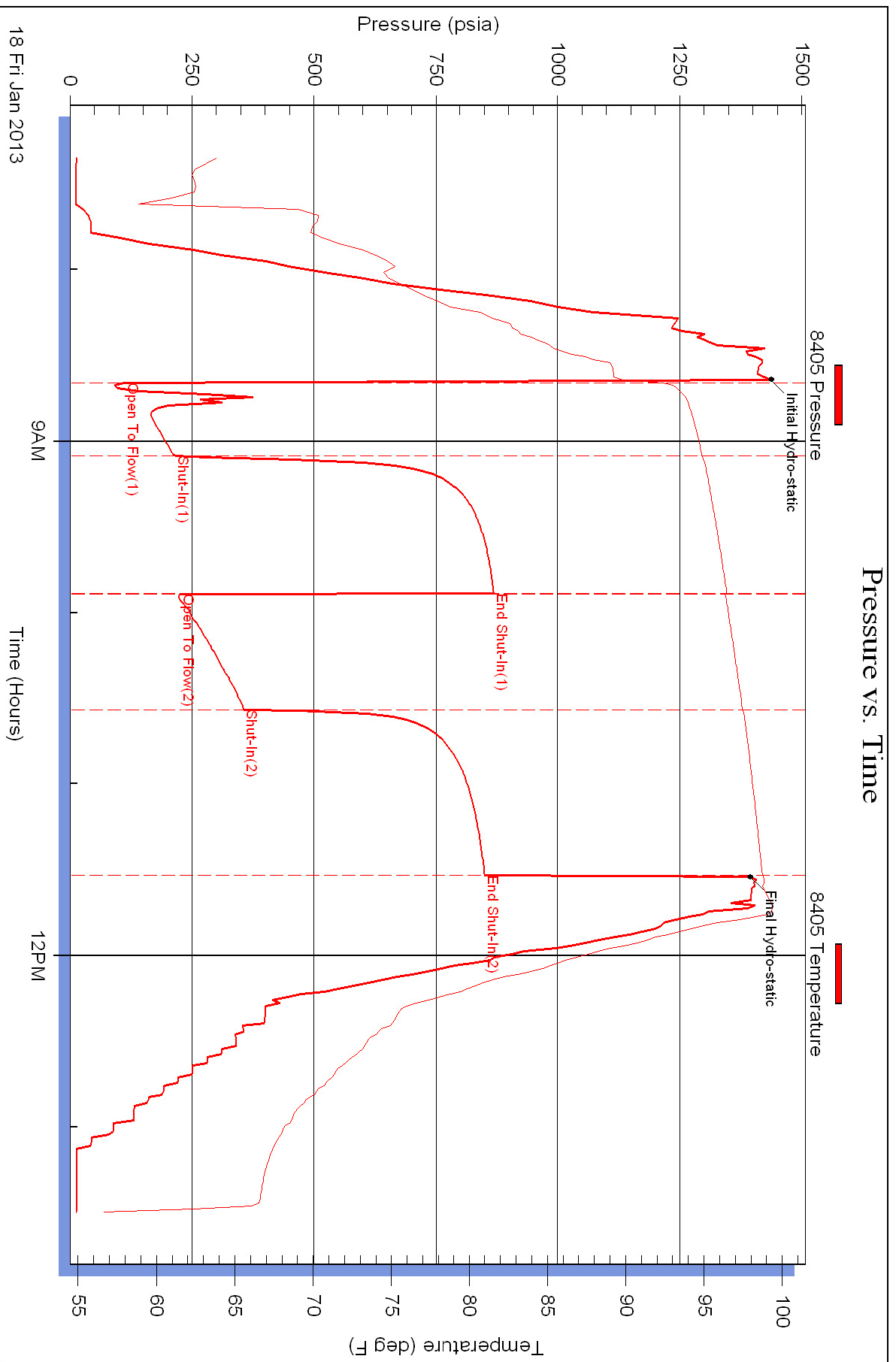
Length ft	Description	Volume bbl
490.00	Oil cut mud 95% Oil 5%Mud	6.873
490.00	Clean oil 100%	6.873
244.00	Watery mud 5% mud 95%oil	3.423
0.00	Chlorides 33,000 .4ohms	0.000

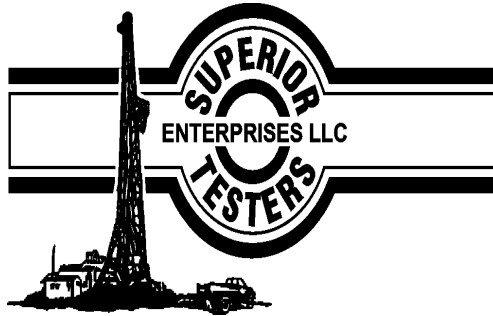
Total Length: 1224.00 ft Total Volume: 17.169 bbl
 Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
 Laboratory Name: Laboratory Location:
 Recovery Comments:

Pressure vs. Time



Pressure vs. Time





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: 2013.01.19 @ 09:50:00

End Date: 2013.01.19 @ 14:34:02

Job Ticket #: 17410 DST #: 2

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

Printed: 2013.01.19 @ 14:42:28

RJM Company
32-17s-10w-Barton
Boys Town Unit #2
DST # 2
Lansing D-E-F
2013.01.19



DRILL STEM TEST REPORT

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

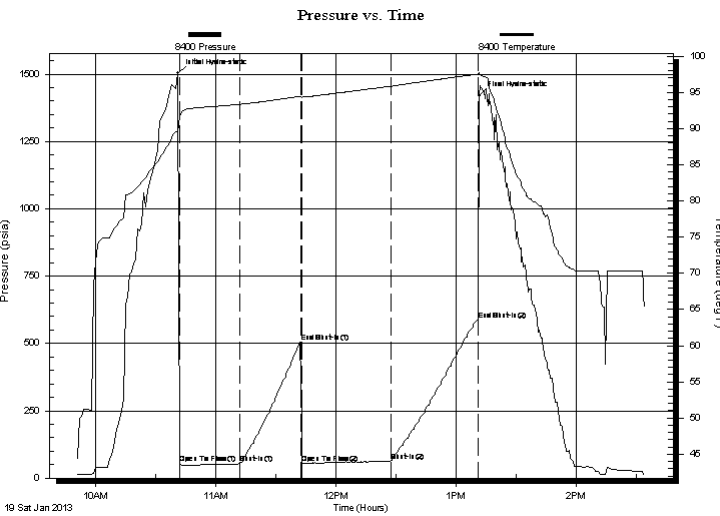
32-17s-10w-Barton
Boys Town Unit #2
 Job Ticket: 17410 **DST#: 2**
 Test Start: 2013.01.19 @ 09:50:00

GENERAL INFORMATION:

Formation: **Lansing D-E-F**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 10:42:09
 Time Test Ended: 14:34:02
 Interval: **2996.00 ft (KB) To 3044.00 ft (KB) (TVD)**
 Total Depth: 3044.00 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-60
 Reference Elevations: 1798.00 ft (KB)
 1790.00 ft (CF)
 KB to GR/CF: 8.00 ft

Serial #: 8400 Outside
 Press@RunDepth: 62.11 psia @ 3041.20 ft (KB) Capacity: 5000.00 psia
 Start Date: 2013.01.19 End Date: 2013.01.19 Last Calib.: 2013.01.19
 Start Time: 09:50:00 End Time: 14:34:02 Time On Btm: 2013.01.19 @ 10:41:09
 Time Off Btm: 2013.01.19 @ 13:11:39

TEST COMMENT: 1st Open 30 minutes Strong building blow blew bottom bucket 6 minutes.
 1st Shut in 30 minutes No blow back
 2nd Open 45 minutes Strong building blow blew off bottom instantly.
 2nd Shut in 45 minutes No blow back



PRESSURE SUMMARY

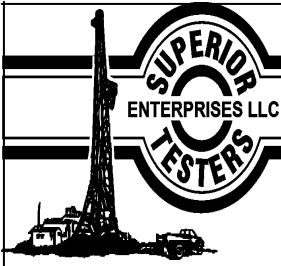
Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1503.42	89.62	Initial Hydro-static
1	53.98	91.65	Open To Flow (1)
31	53.32	93.34	Shut-In(1)
61	503.94	94.44	End Shut-In(1)
62	54.60	94.33	Open To Flow (2)
107	62.11	95.84	Shut-In(2)
150	588.02	97.53	End Shut-In(2)
151	1418.24	97.75	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
40.00	Oil cut mud 35% Oil 65% Mud	0.56

Gas Rates

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



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: 17410 **DST#: 2**
 Test Start: 2013.01.19 @ 09:50:00

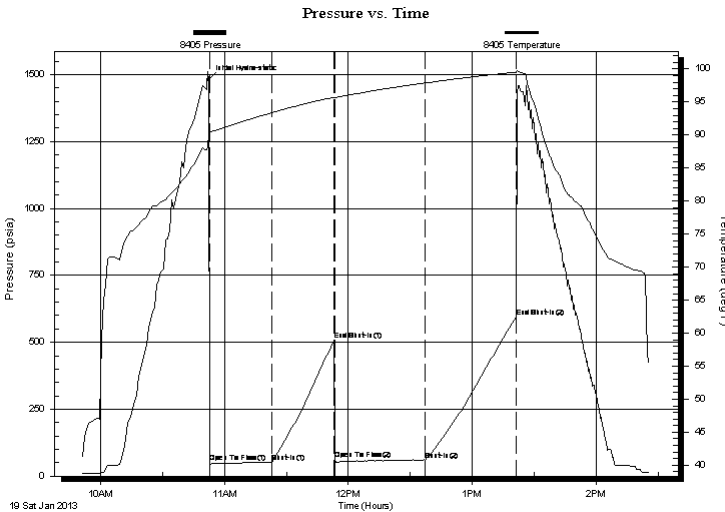
GENERAL INFORMATION:

Formation: **Lansing D-E-F**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 10:42:09
 Time Test Ended: 14:34:02
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Dustin Ellis
 Unit No: 3315-Great Bend-60
 Interval: **2996.00 ft (KB) To 3044.00 ft (KB) (TVD)**
 Reference Elevations: 1798.00 ft (KB)
 Total Depth: 3044.00 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: 592.98 psia @ 3040.20 ft (KB) Capacity: 5000.00 psia
 Start Date: 2013.01.19 End Date: 2013.01.19 Last Calib.: 2013.01.19
 Start Time: 09:50:22 End Time: 14:25:52 Time On Btm: 2013.01.19 @ 10:52:22
 Time Off Btm:

TEST COMMENT: 1st Open 30 minutes Strong building blow blew bottom bucket 6 minutes.
 1st Shut in 30 minutes No blow back
 2nd Open 45 minutes Strong building blow blew off bottom instantly.
 2nd Shut in 45 minutes No blow back

PRESSURE SUMMARY



Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1481.46	90.14	Initial Hydro-static
1	52.08	90.34	Open To Flow (1)
31	51.64	93.38	Shut-In(1)
61	506.70	95.72	End Shut-In(1)
61	61.27	95.64	Open To Flow (2)
105	60.22	97.89	Shut-In(2)
149	592.98	99.54	End Shut-In(2)

Recovery

Length (ft)	Description	Volume (bbl)
40.00	Oil cut mud 35% Oil 65% Mud	0.56

Gas Rates

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



DRILL STEM TEST REPORT

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: 17410 **DST#: 2**
 Test Start: 2013.01.19 @ 09:50:00

Tool Information

Drill Pipe:	Length: 2995.00 ft	Diameter: 3.80 inches	Volume: 42.01 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: 34000.00 lb
			<u>Total Volume: 42.01 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	19.00 ft			String Weight: Initial 30000.00 lb
Depth to Top Packer:	2996.00 ft			Final 32000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	48.20 ft			
Tool Length:	68.20 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			2981.00	
Hydraulic Tool	5.00			2986.00	
Packer	5.00			2991.00	20.00 Bottom Of Top Packer
Packer	5.00			2996.00	
Anchor	5.00			3001.00	
Change Over Sub	0.75			3001.75	
Drill Pipe	31.70			3033.45	
Change Over Sub	0.75			3034.20	
Anchor	5.00			3039.20	
Recorder	1.00	8405	Inside	3040.20	
Recorder	1.00	8400	Outside	3041.20	
Bullnose	3.00			3044.20	48.20 Bottom Packers & Anchor

Total Tool Length: 68.20



DRILL STEM TEST REPORT

FLUID SUMMARY

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

32-17s-10w-Barton
Boys Town Unit #2
Job Ticket: 17410 **DST#: 2**
Test Start: 2013.01.19 @ 09:50:00

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: bbl		
Water Loss: 7.90 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psia		
Salinity: 5200.00 ppm			
Filter Cake: 1.00 inches			

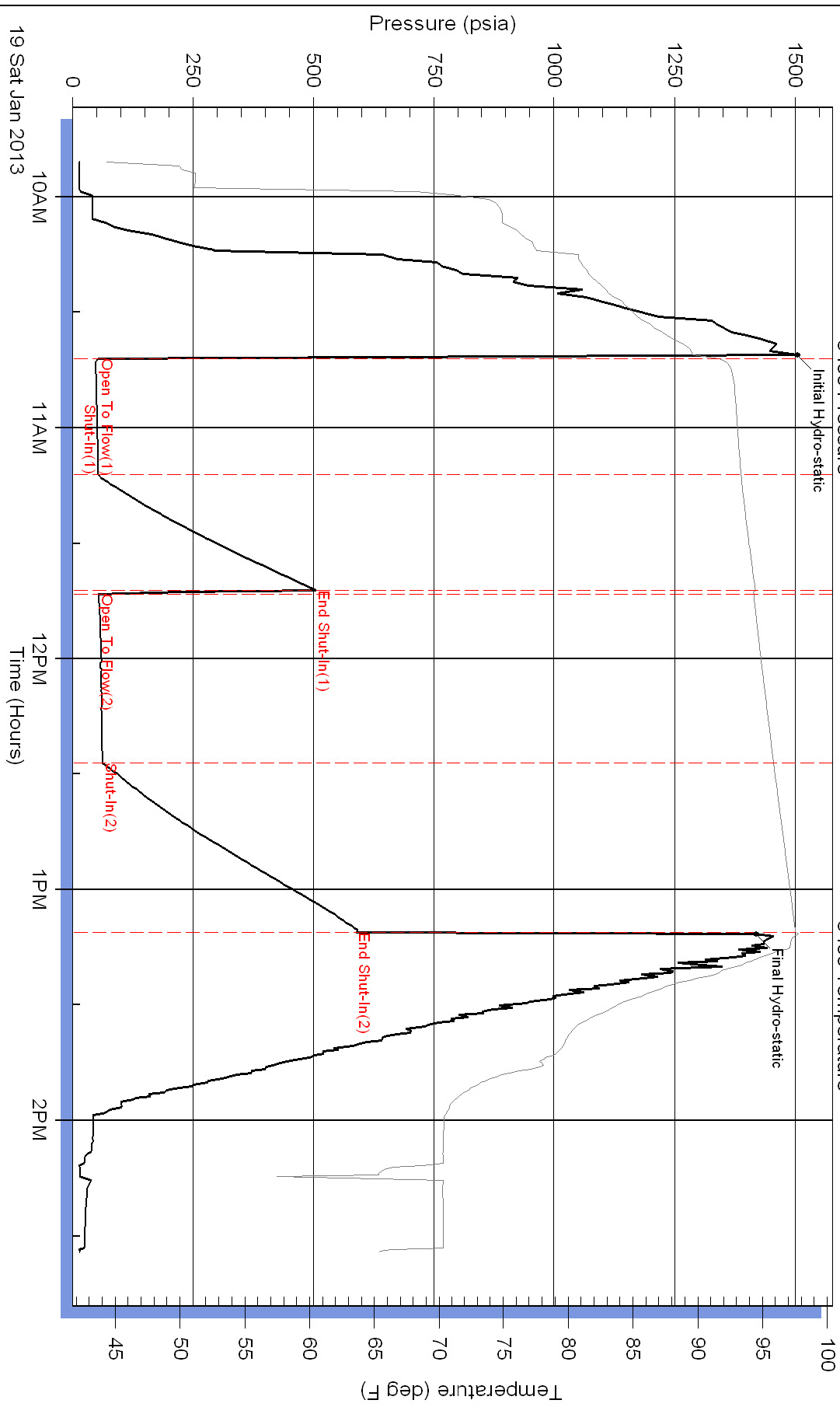
Recovery Information

Recovery Table

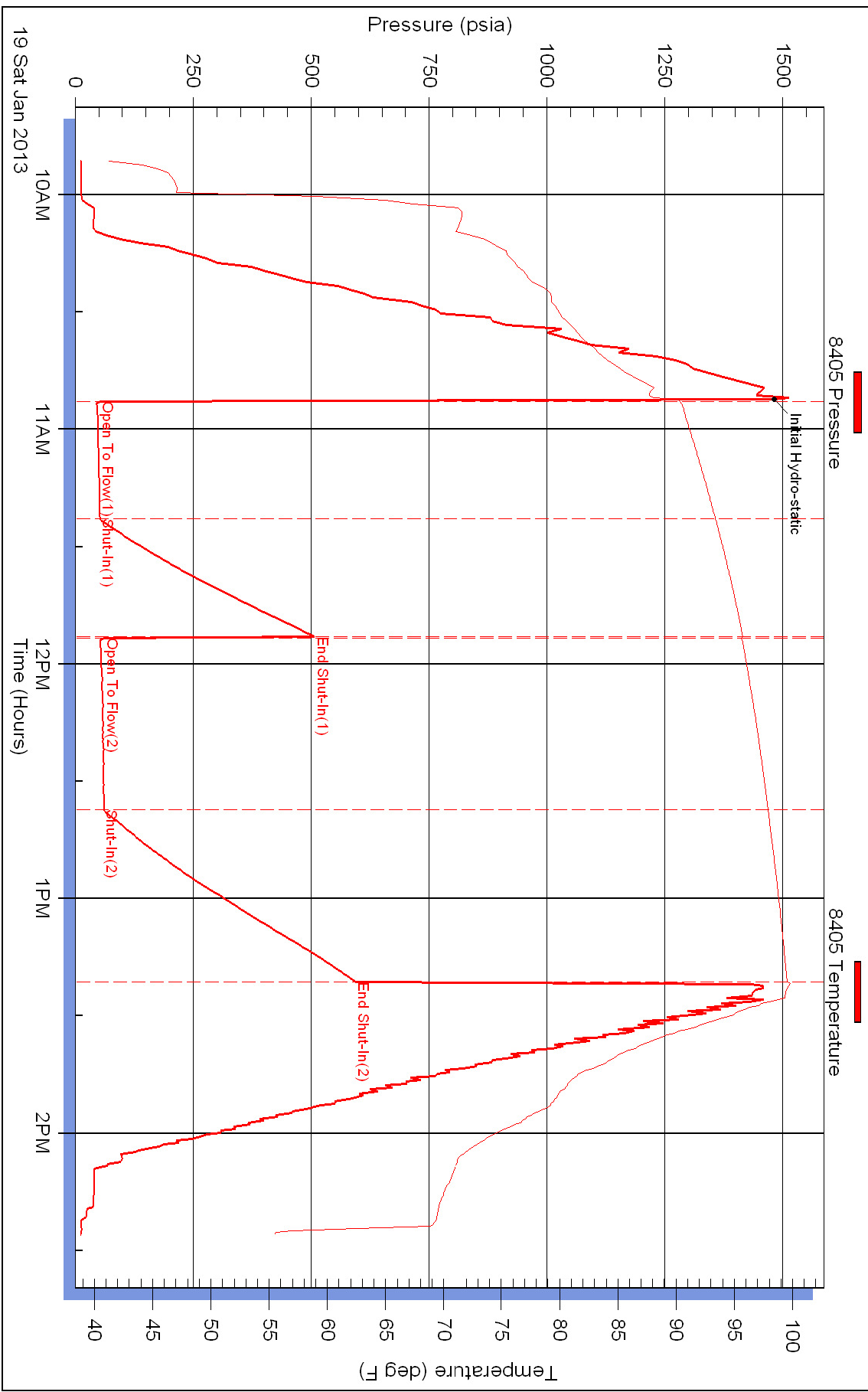
Length ft	Description	Volume bbl
40.00	Oil cut mud 35% Oil 65% Mud	0.561

Total Length: 40.00 ft Total Volume: 0.561 bbl
Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
Laboratory Name: Laboratory Location:
Recovery Comments:

Pressure vs. Time



Pressure vs. Time





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: 2013.01.20 @ 02:40:00

End Date: 2013.01.20 @ 08:06:23

Job Ticket #: 17411 DST #: 3

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

Printed: 2013.01.20 @ 08:35:00



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: 17411 **DST#: 3**
 Test Start: 2013.01.20 @ 02:40:00

GENERAL INFORMATION:

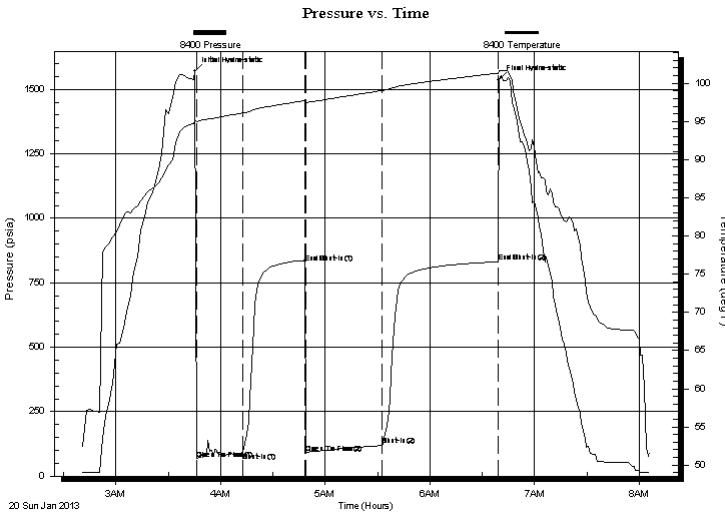
Formation: **Lansing I-J-K**
 Deviated: No Whipstock: ft (KB)
 Test Type: Conventional Bottom Hole (Initial)
 Time Tool Opened: 03:46:23 Tester: Dustin Ellis
 Time Test Ended: 08:06:23 Unit No: 3315-Great Bend-60
 Interval: **3111.00 ft (KB) To 3190.00 ft (KB) (TVD)** Reference Elevations: 1798.00 ft (KB)
 Total Depth: 3190.00 ft (KB) (TVD) 1790.00 ft (CF)
 Hole Diameter: 7.88 inches Hole Condition: Fair KB to GR/CF: 8.00 ft

Serial #: 8400

Press@RunDepth: 118.68 psia @ ft (KB) Capacity: 5000.00 psia
 Start Date: 2013.01.20 End Date: 2013.01.20 Last Calib.: 2013.01.20
 Start Time: 02:40:00 End Time: 08:06:23 Time On Btm: 2013.01.20 @ 03:45:23
 Time Off Btm: 2013.01.20 @ 06:39:23

TEST COMMENT: 1st Open 30 minutes Fair building blow blew 6 inches.
 1st Shut in 30 minutes No blow back
 2nd Open 45 minutes Blow blew bottom bucket 24 minutes.
 2nd Shut in 60 minutes No blow back

PRESSURE SUMMARY



Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1570.49	95.12	Initial Hydro-static
1	67.26	94.97	Open To Flow (1)
28	92.95	96.10	Shut-In(1)
63	826.82	97.74	End Shut-In(1)
64	88.14	97.51	Open To Flow (2)
107	118.68	99.02	Shut-In(2)
174	831.56	101.33	End Shut-In(2)
174	1537.48	101.60	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
90.00	Oil spotted mud Mud 99%Oil 1%	1.26

Gas Rates

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



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: 17411 **DST#: 3**
 Test Start: 2013.01.20 @ 02:40:00

GENERAL INFORMATION:

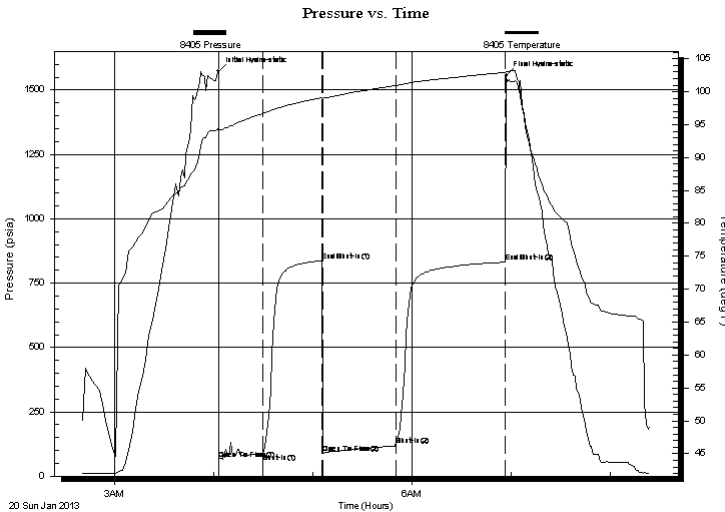
Formation: **Lansing I-J-K**
 Deviated: No Whipstock: ft (KB)
 Test Type: Conventional Bottom Hole (Initial)
 Time Tool Opened: 03:46:23 Tester: Dustin Ellis
 Time Test Ended: 08:06:23 Unit No: 3315-Great Bend-60
 Interval: **3111.00 ft (KB) To 3190.00 ft (KB) (TVD)** Reference Elevations: 1798.00 ft (KB)
 Total Depth: 3190.00 ft (KB) (TVD) 1790.00 ft (CF)
 Hole Diameter: 7.88 inches Hole Condition: Fair KB to GR/CF: 8.00 ft

Serial #: 8405

Press@RunDepth: 831.62 psia @ ft (KB) Capacity: 5000.00 psia
 Start Date: 2013.01.20 End Date: 2013.01.20 Last Calib.: 2013.01.20
 Start Time: 02:40:00 End Time: 08:23:30 Time On Btm: 2013.01.20 @ 04:03:00
 Time Off Btm: 2013.01.20 @ 06:57:00

TEST COMMENT: 1st Open 30 minutes Fair building blow blew 6 inches.
 1st Shut in 30 minutes No blow back
 2nd Open 45 minutes Blow blew bottom bucket 24 minutes.
 2nd Shut in 60 minutes No blow back

PRESSURE SUMMARY



Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1573.55	94.47	Initial Hydro-static
1	65.26	94.27	Open To Flow (1)
27	89.05	96.71	Shut-In(1)
63	837.09	99.12	End Shut-In(1)
63	90.93	98.98	Open To Flow (2)
107	120.29	100.93	Shut-In(2)
174	831.62	102.94	End Shut-In(2)
174	1556.33	103.06	Final Hydro-static

Recovery

Gas Rates

Length (ft)	Description	Volume (bbl)
90.00	Oil spotted mud Mud 99%Oil 1%	1.26

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



DRILL STEM TEST REPORT

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: 17411 **DST#: 3**
 Test Start: 2013.01.20 @ 02:40:00

Tool Information

Drill Pipe:	Length: 3124.00 ft	Diameter: 3.80 inches	Volume: 43.82 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: 34000.00 lb
			<u>Total Volume: 43.82 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	33.00 ft			String Weight: Initial 30000.00 lb
Depth to Top Packer:	3111.00 ft			Final 31000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	79.20 ft			
Tool Length:	99.20 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			3096.00	
Hydraulic Tool	5.00			3101.00	
Packer	5.00			3106.00	20.00 Bottom Of Top Packer
Packer	5.00			3111.00	
Anchor	5.00			3116.00	
Change Over Sub	0.75			3116.75	
Drill Pipe	31.70			3148.45	
Change Over Sub	0.75			3149.20	
Anchor	36.00			3185.20	
Recorder	1.00	8405	Inside	3186.20	
Recorder	1.00	8400	Outside	3187.20	
Bullnose	3.00			3190.20	79.20 Bottom Packers & Anchor

Total Tool Length: 99.20



DRILL STEM TEST REPORT

FLUID SUMMARY

RJM Company

32-17s-10w-Barton

Po Box 256 Claflin Kansas
67525

Boys Town Unit #2

Job Ticket: 17411

DST#: 3

ATTN: Jim Musgrove

Test Start: 2013.01.20 @ 02:40:00

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: 47.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 9.20 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psia

Salinity: 9000.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
90.00	Oil spotted mud Mud 99%Oil 1%	1.262

Total Length: 90.00 ft Total Volume: 1.262 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

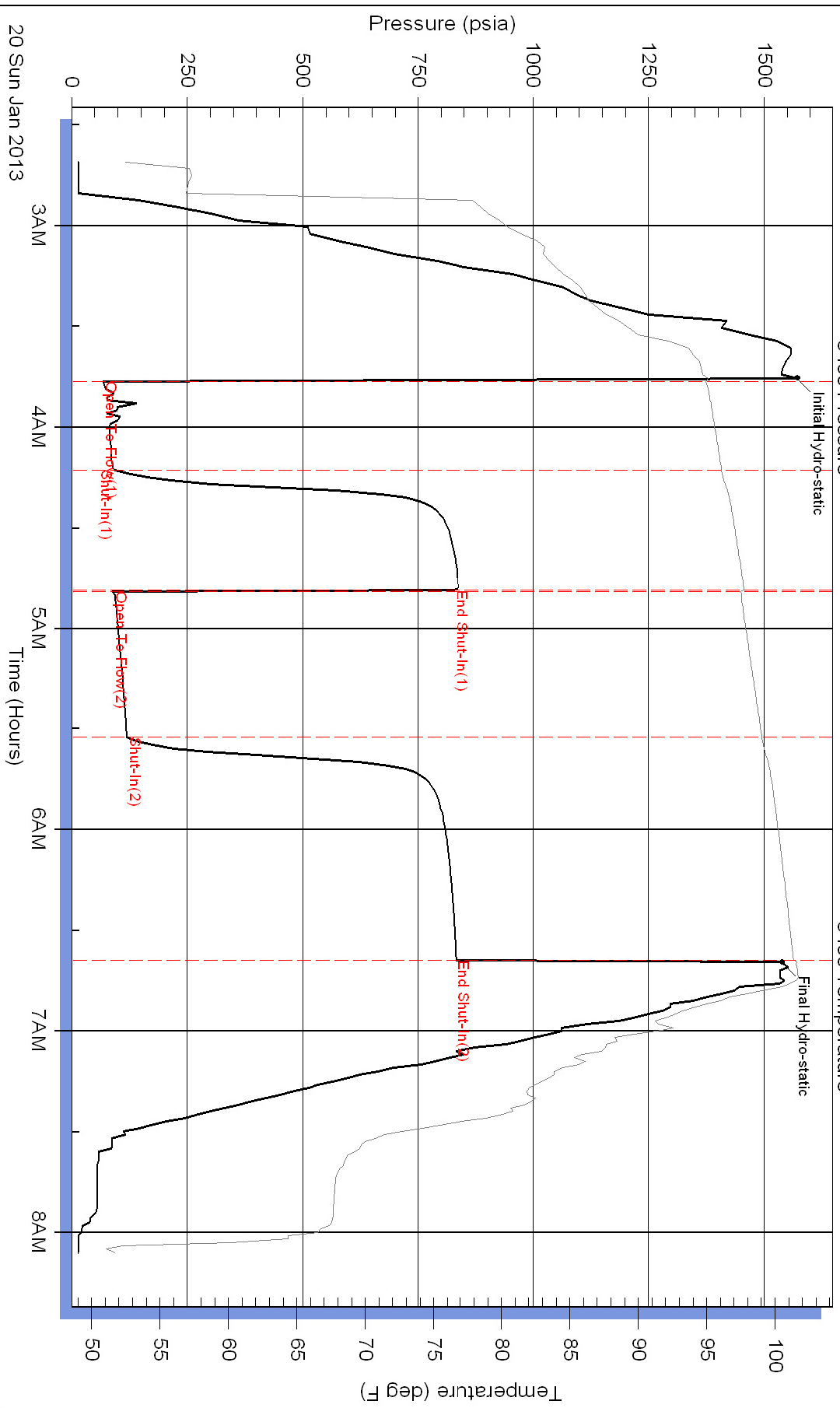
Serial #:

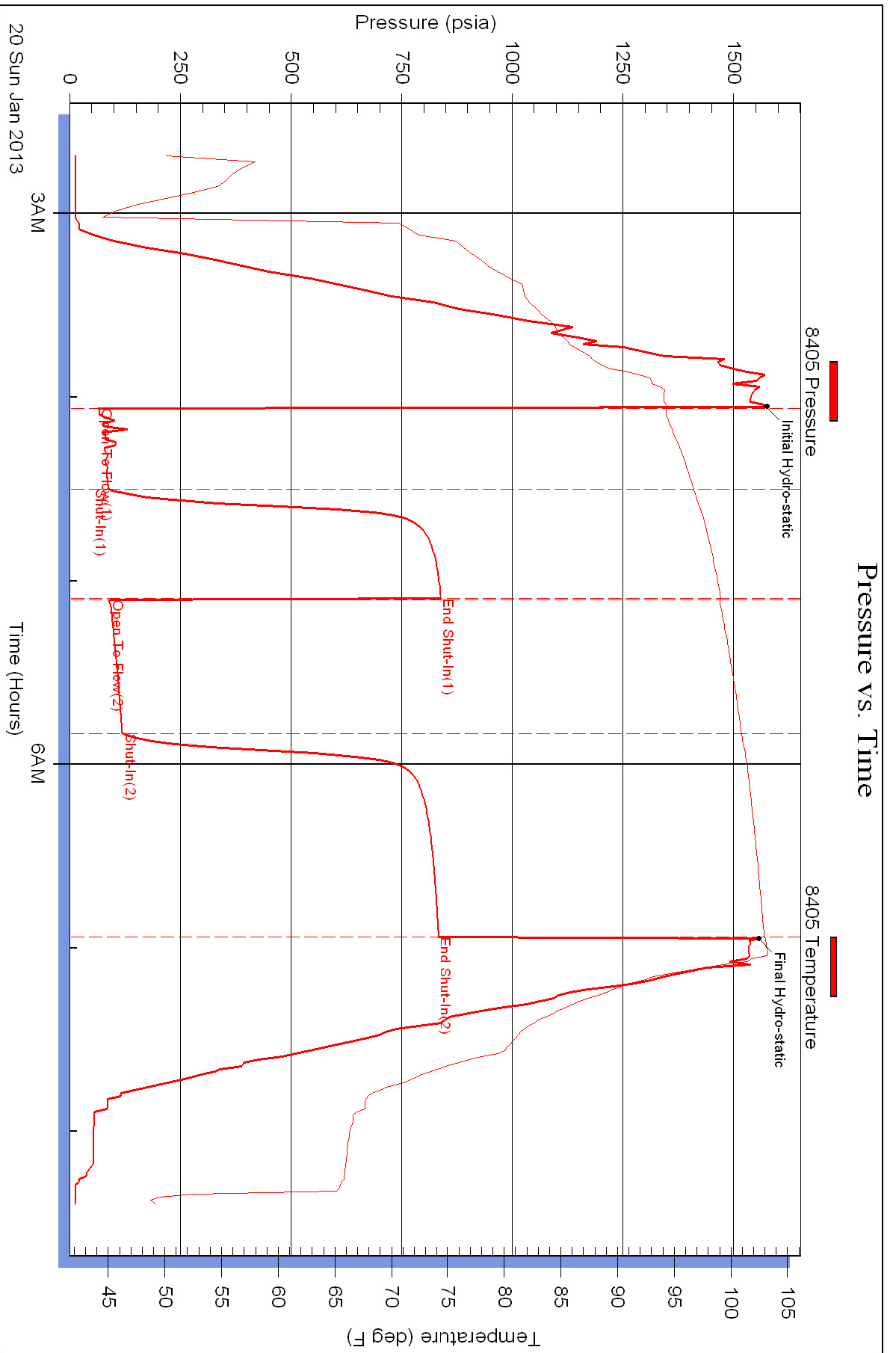
Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time







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: 2013.01.20 @ 05:30:00

End Date: 2013.01.20 @ 11:16:16

Job Ticket #: 17412 DST #: 4

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

Printed: 2013.01.20 @ 23:27:01

RJM Company
32-17s-10w-Barton
Boys Town Unit #2
DST # 4
Arbuckle
2013.01.20



DRILL STEM TEST REPORT

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: 17412 **DST#: 4**
 Test Start: 2013.01.20 @ 05:30:00

Tool Information

Drill Pipe:	Length: 3211.00 ft	Diameter: 3.80 inches	Volume: 45.04 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: 33000.00 lb
			<u>Total Volume: 45.04 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	20.00 ft			String Weight: Initial 31000.00 lb
Depth to Top Packer:	3211.00 ft			Final 32000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	37.00 ft			
Tool Length:	57.00 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			3196.00	
Hydraulic Tool	5.00			3201.00	
Packer	5.00			3206.00	20.00 Bottom Of Top Packer
Packer	5.00			3211.00	
Anchor	32.00			3243.00	
Recorder	1.00	8405	Inside	3244.00	
Recorder	1.00	8400	Outside	3245.00	
Bullnose	3.00			3248.00	37.00 Bottom Packers & Anchor

Total Tool Length: 57.00



DRILL STEM TEST REPORT

FLUID SUMMARY

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

32-17s-10w-Barton
Boys Town Unit #2
Job Ticket: 17412 **DST#: 4**
Test Start: 2013.01.20 @ 05:30:00

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: 44.00 sec/qt	Cushion Volume: bbl		
Water Loss: 9.60 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psia		
Salinity: 8000.00 ppm			
Filter Cake: 1.00 inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
55.00	Oil cut mud 60%Mud 40%Oil	0.772

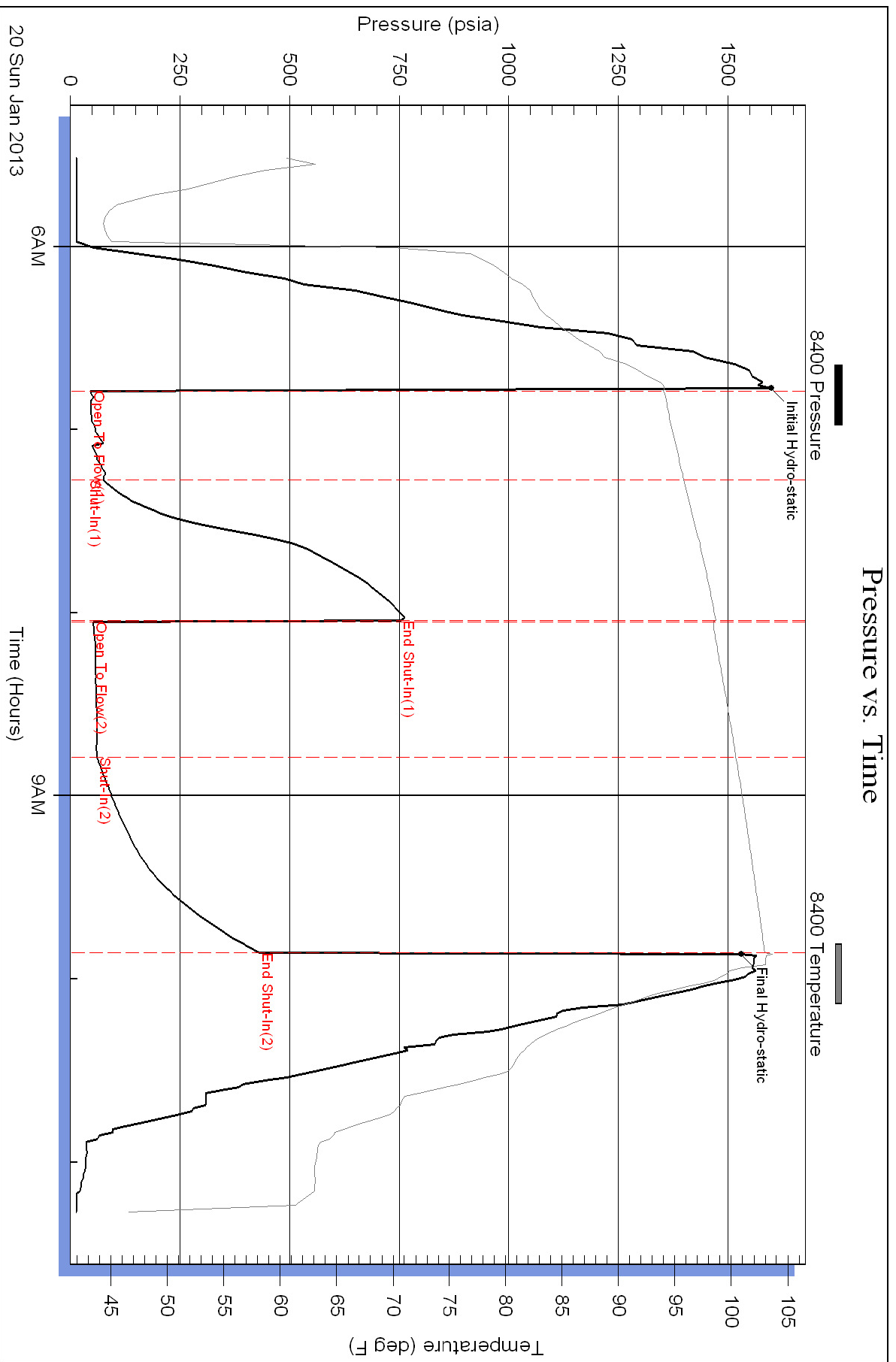
Total Length: 55.00 ft Total Volume: 0.772 bbl

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

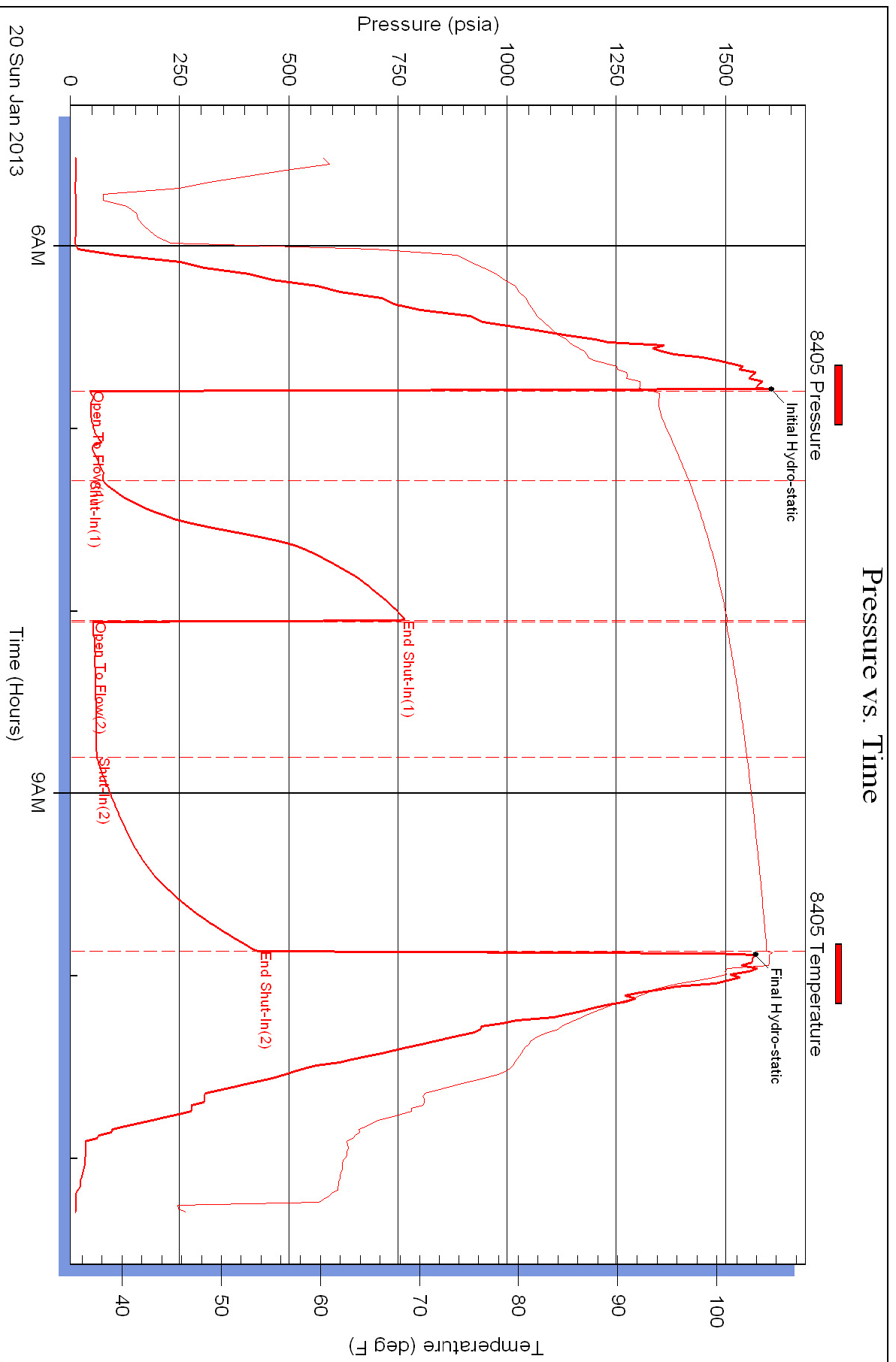
Laboratory Name: Laboratory Location:

Recovery Comments:

Pressure vs. Time



Pressure vs. Time





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

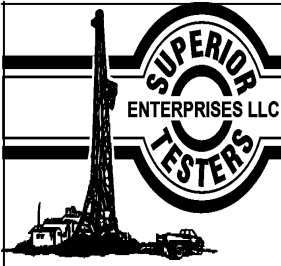
Start Date: 2013.01.21 @ 07:40:00

End Date: 2013.01.21 @ 13:10:30

Job Ticket #: 17413 DST #: 5

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

Printed: 2013.01.21 @ 13:38:19



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: 17413 **DST#: 5**
 Test Start: 2013.01.21 @ 07:40:00

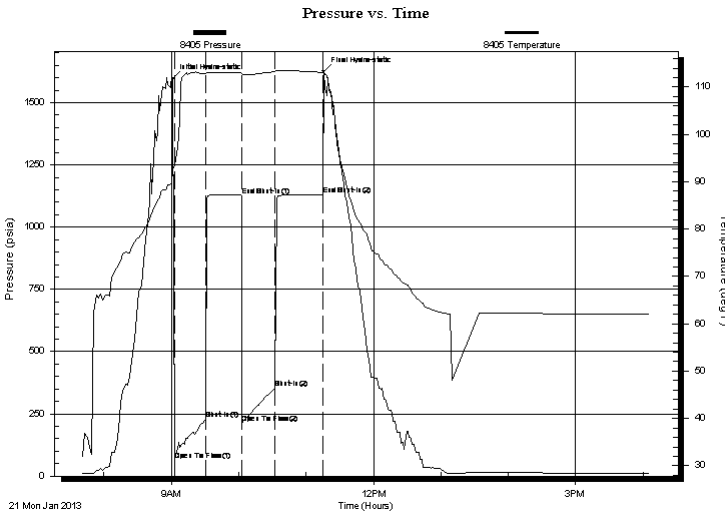
GENERAL INFORMATION:

Formation: **Arbuckle**
 Deviated: No Whipstock: ft (KB)
 Test Type: Conventional Bottom Hole (Initial)
 Time Tool Opened: 09:02:00 Tester: Dustin Ellis
 Time Test Ended: 13:10:30 Unit No: 3315-Great Bend-60
 Interval: **3211.00 ft (KB) To 3251.00 ft (KB) (TVD)** Reference Elevations: 1798.00 ft (KB)
 Total Depth: 3251.00 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: 1129.37 psia @ 3247.00 ft (KB) Capacity: 5000.00 psia
 Start Date: 2013.01.21 End Date: 2013.01.21 Last Calib.: 2013.01.21
 Start Time: 07:40:00 End Time: 16:24:53 Time On Btm: 2013.01.21 @ 09:01:30
 Time Off Btm: 2013.01.21 @ 11:15:30

TEST COMMENT: 1st Open 30 minutes Strong building blow blew bottom bucket 4 minutes.
 1st Shut in 30 minutes No blow back.
 2nd Open 30 minutes Strong building blow blew bottom bucket 8 minutes.
 2nd Shut in 45 minutes No blow back.

PRESSURE SUMMARY



Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1595.39	92.74	Initial Hydro-static
1	63.12	93.45	Open To Flow (1)
29	228.47	112.84	Shut-In(1)
61	1127.55	112.94	End Shut-In(1)
62	213.66	112.74	Open To Flow (2)
91	354.24	113.25	Shut-In(2)
133	1129.37	113.11	End Shut-In(2)
134	1626.54	113.25	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
340.00	Gassy oil cut mud	4.77
0.00	Gas 40% Oil 25% Mud 35%	0.00
170.00	Gassy oil cut muddy w ater	2.38
0.00	Gas 5% Oil 45% Mud 45% Water 5%	0.00
170.00	Gassy oil cut muddy w ater	2.38
0.00	Gas 10% Oil 40% Mud 20% Water 30%	0.00

Gas Rates

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



DRILL STEM TEST REPORT

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: 17413 **DST#: 5**
 Test Start: 2013.01.21 @ 07:40:00

Tool Information

Drill Pipe:	Length: 3213.00 ft	Diameter: 3.80 inches	Volume: 45.07 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:	34000.00 lb
			<u>Total Volume: 45.07 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	22.00 ft			String Weight: Initial	33000.00 lb
Depth to Top Packer:	3211.00 ft			Final	34000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	40.00 ft				
Tool Length:	60.00 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			3196.00	
Hydraulic Tool	5.00			3201.00	
Packer	5.00			3206.00	20.00 Bottom Of Top Packer
Packer	5.00			3211.00	
Anchor	35.00			3246.00	
Recorder	1.00	8405	Inside	3247.00	
Recorder	1.00	8400	Outside	3248.00	
Bullnose	3.00			3251.00	40.00 Bottom Packers & Anchor

Total Tool Length: 60.00



DRILL STEM TEST REPORT

FLUID SUMMARY

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

32-17s-10w-Barton
Boys Town Unit #2
 Job Ticket: 17413 **DST#: 5**
 Test Start: 2013.01.21 @ 07:40:00

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: 8.80 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psia		
Salinity: 6800.00 ppm			
Filter Cake: 1.00 inches			

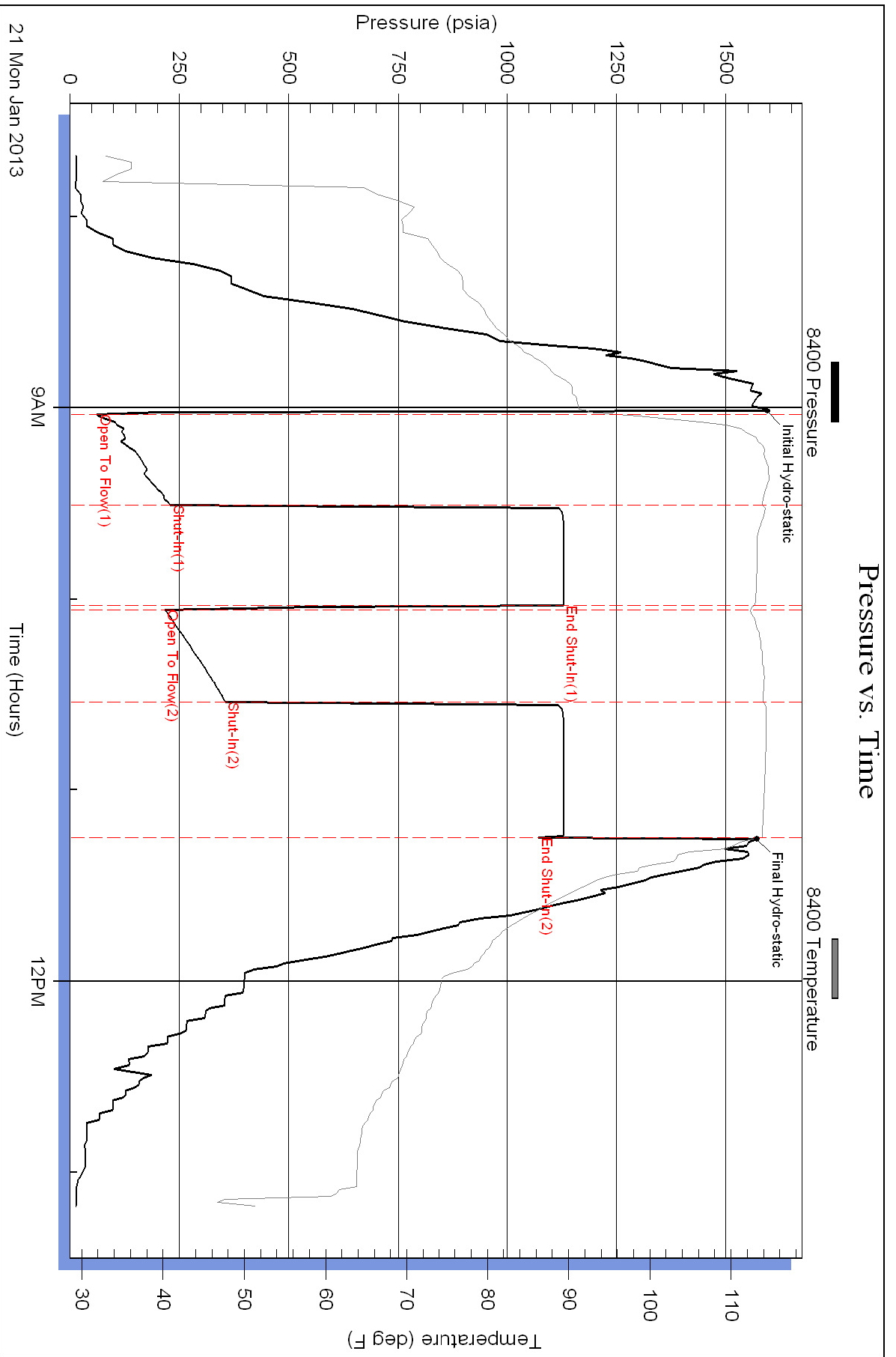
Recovery Information

Recovery Table

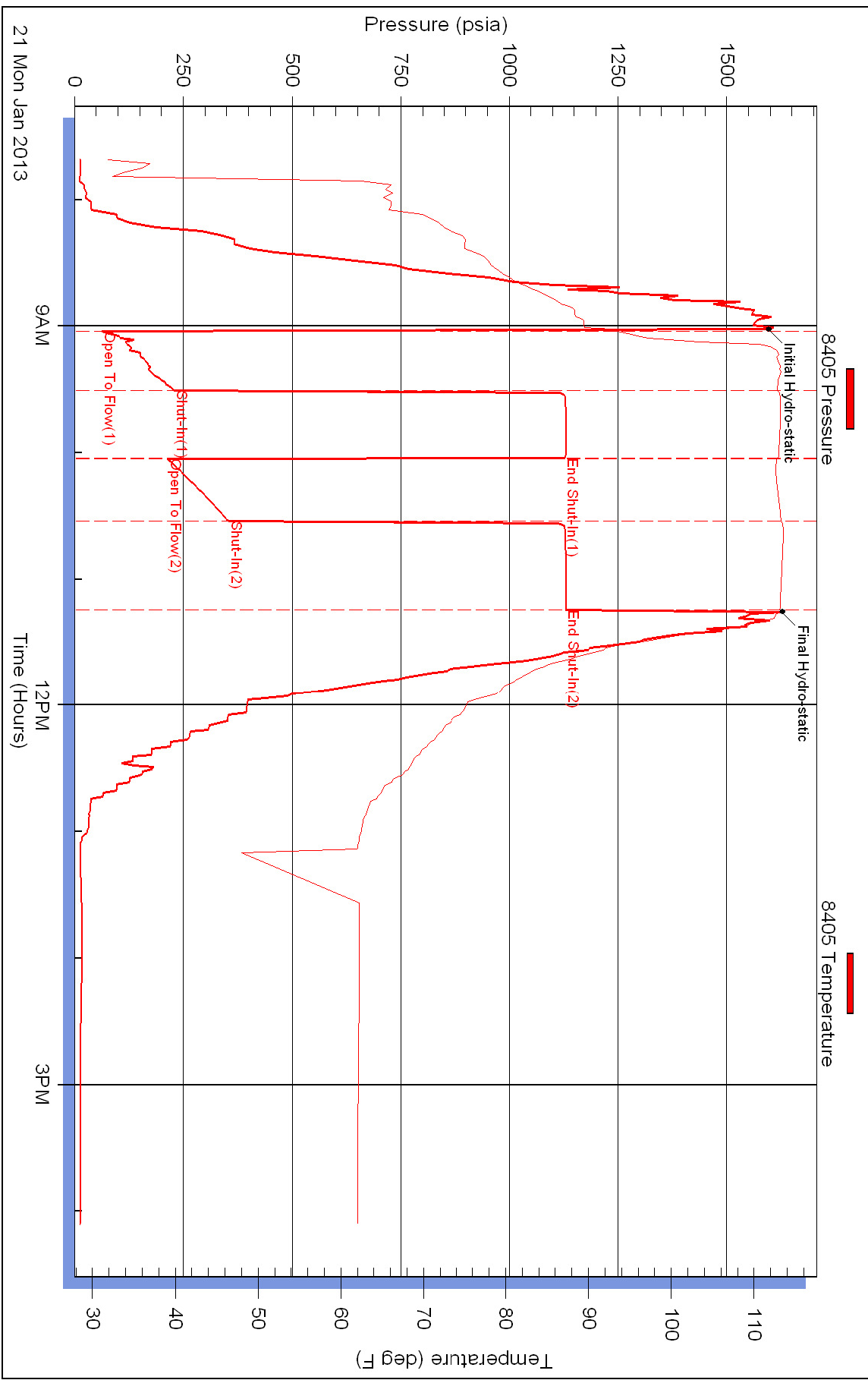
Length ft	Description	Volume bbl
340.00	Gassy oil cut mud	4.769
0.00	Gas 40% Oil 25% Mud 35%	0.000
170.00	Gassy oil cut muddy w ater	2.385
0.00	Gas 5% Oil 45% Mud 45% Water 5%	0.000
170.00	Gassy oil cut muddy w ater	2.385
0.00	Gas 10% Oil 40% Mud 20% Water 30%	0.000

Total Length: 680.00 ft Total Volume: 9.539 bbl
 Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
 Laboratory Name: Laboratory Location:
 Recovery Comments:

Pressure vs. Time



Pressure vs. Time



QUALITY OILWELL CEMENTING, INC.

Federal Tax I.D.# 20-2886107

Phone 785-483-2025
Cell 785-324-1041

Home Office P.O. Box 32 Russell, KS 67665

No. 6363

Date	1-15-13	Sec.	32	Twp.	17	Range	10	County	E. 115 North	State	KS	On Location		Finish	11.45 PM
------	---------	------	----	------	----	-------	----	--------	--------------	-------	----	-------------	--	--------	----------

Location Calvin E to RD 2 34N E into

Lease	<u>Boys town unit</u>		Well No.	<u>2</u>	Owner	To Quality Oilwell Cementing, Inc. You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.	
Contractor	<u>Southwind 2</u>						
Type Job	<u>Set Face</u>				Charge To	<u>RJM</u>	
Hole Size	<u>12 1/2</u>	T.D.	<u>390</u>				
Csg.	<u>8 5/8</u>	Depth			Street		
Tbg. Size		Depth			City	State	
Tool		Depth			The above was done to satisfaction and supervision of owner agent or contractor.		
Cement Left in Csg.	<u>20 ft</u>	Shoe Joint	<u>20 ft</u>	Cement Amount Ordered	<u>250 com 3% cc 2% ogel</u>		
Meas Line		Displace	<u>23.5 BBL</u>	<u>X4 flow used 200</u>			

EQUIPMENT

Pumptrk	<u>15</u>	No.	Cementer	<u>mtt</u>	Common	<u>200</u>
			Helper		Poz. Mix	
Bulktrk	<u>12</u>	No.	Driver	<u>Boett</u>	Gel.	<u>4</u>
			Driver		Calcium	<u>7</u>
Bulktrk	<u>pu</u>	No.	Driver	<u>Doug</u>		
			Driver			

JOB SERVICES & REMARKS

Remarks:		Hulls	
Rat Hole		Salt	
Mouse Hole		Flowseal	<u>125#</u>
Centralizers		Kol-Seal	
Baskets		Mud CLR 48	
D/V or Port Collar		CFL-117 or CD110 CAF 38	
		Sand	
		Handling	<u>250</u>
<u>Cement did circulate</u>		Mileage	

FLOAT EQUIPMENT

	Guide Shoe	
	Centralizer	
	Baskets	
	AFU Inserts	
	Float Shoe	
	Latch Down	

Pumptrk Charge	<u>Surface</u>
Mileage	<u>31</u>

Signature <u>William [Signature]</u>	Tax
	Discount
	Total Charge

GENERAL TERMS AND CONDITIONS

DEFINITIONS: In these terms and conditions, "Quality" shall mean Quality Oilwell Cementing, Inc., and "Customer" shall refer to the party identified by that term on the front of this contract. As applicable, "Job" relates to the services described on the front side of this contract, "merchandise" refers to the material described on the front of this contract and to any other materials, products, or supplies used, sold, or furnished under the requirements of this contract.

– **TERMS:** Unless satisfactory credit has been established, "CUSTOMER" must tender full cash payment to "QUALITY" before the job is undertaken or merchandise is delivered. If satisfactory credit has been established, the terms of payment for the job and/or merchandise, including bulk cement, are net cash, payable in 30 days from the completion of the job and/or delivery of the merchandise. For all past due invoices, "CUSTOMER" agrees to pay interest on amounts invoiced at a rate of 18 percent per annum until paid. Notwithstanding the foregoing in no event shall this Contract provide for interest exceeding the maximum rate of interest that "CUSTOMER" may agree to pay under applicable law. If any such interest should be provided for, it shall be and hereby is deemed to be a mistake, and this contract shall be automatically reformed to lower the rate of interest to the maximum legal contract rate, any amounts previously paid as excess interest shall be deducted from the amounts owing from the "CUSTOMER" or at the option of "QUALITY," refunded directly to "CUSTOMER." For purposes of this paragraph, QUALITY and CUSTOMER agree that KANSAS law shall apply. Any discounts granted with this contract are null and void if the charges are not paid when due.

– **ATTORNEY FEES:** In any legal action or proceeding between the parties to enforce any of the terms of this Service Contract, or in any way pertaining to the term of this Contract, the prevailing party shall be entitled to recover all expenses, including, but not limit to, a reasonable sum as and attorney's fees.

– **PRICES AND TAXES:** All merchandise listed in "QUALITY'S" current price schedule are F.O.B. QUALITY'S local station and are subject to change without notice. All prices are exclusive of any federal, state, local, or special taxes for the sale or use of the merchandise or services listed. The amount of taxes required to be paid by QUALITY shall be added to the quoted prices charged to CUSTOMER.

– **TOWING CHARGES:** QUALITY will make a reasonable attempt to get to and from each job site using its own equipment. Should QUALITY be unable to do so because of poor or inadequate road conditions, and should it become necessary to employ a tractor or other pulling equipment to get to or from the job site, the tractor or pulling equipment will be supplied by CUSTOMER or, if furnished by QUALITY, will be charged to and paid by CUSTOMER.

– **PREPARATION CHARGES:** If a job and/or merchandise is ordered and CUSTOMER cancels the order after preparation of a chemical solution or other material, CUSTOMER will pay QUALITY for the expenses incurred by QUALITY as a result of the cancellation.

– **DEADHAUL CHARGES:** Unless otherwise specified on the front of this Contract, a deadhaul charges as set forth in QUALITY'S current price book will be charged each way for each service unit which is ordered by CUSTOMER but not used.

– **SERVICE CONDITIONS AND LIABILITIES:** 1. QUALITY carries public liability and property damage insurance, but since there are so many uncertain and unknown conditions beyond QUALITY'S control, QUALITY shall not be liable for injuries to property or persons or for loss or damage arising from the performance of the job or delivery of the merchandise. Customer shall be responsible for and indemnify, defend, and hold harmless QUALITY, its officers, agents and employees, from and against any and all claims or suits for:

(A) Damage to property or for bodily injury, sickness, disease, or death, brought by any person, including CUSTOMER and/or the well owner; and:

(B) Oil spills, pollution, surface or sub-surface damage, injury to the well, reservoir loss, or damage arising from a well blowout arising out of or in connection with QUALITY'S performance of the job or furnishing of merchandise in accordance with this contract, unless such loss or damage is caused by the willful misconduct or gross negligence of QUALITY or its employees.

2. With respect to any of QUALITY'S tools, equipment, or instruments which are lost in the well or damaged when performing or attempting to perform the job or, in the case of marine operations, are lost or damaged at any time after delivery to the landing for CUSTOMER and before return to QUALITY at the landing, CUSTOMER shall either recover the lost item without cost to QUALITY or reimburse QUALITY the current replacement cost of the item unless the loss or damage results from the sole negligence of QUALITY or its employees.

3. QUALITY does not assume any liability or responsibility for damages or conditions resulting from chemical action in cements caused by contamination of water or other fluids.

WARRANTIES: 1. QUALITY warrants all merchandise manufactured or furnished by it to be free from defects in material and workmanship under normal use and service when installed, and used, and/or serviced in the manner provided and intended. QUALITY'S obligation under this warranty is expressly limited to repair replacement, or allowance for credit, at its option, for any merchandise which is determined by QUALITY to be defective. THIS IS THE SOLE WARRANTY OF QUALITY AND NO OTHER WARRANTY IS APPLICABLE, EITHER EXPRESS OR OTHERWISE IMPLIED, IN FACT OR IN LAW, INCLUDING ANY WARRANTY AS TO MERCHANTABILITY OR FITNESS FOR A PARTICULAR USE OR PURPOSE, CUSTOMER'S sole and only remedy with regard to any defective merchandise shall be the repair or replacement thereof or allowance for credit as herein provided, and QUALITY shall not be liable for any consequential, special, incidental, or punitive damages resulting from or caused by defective materials, products or supplies.

2. More specifically:

(A) Nothing in this contract shall be constructed as a warranty by QUALITY of the success or the effectiveness of the result of any work done or merchandise used, sold, or furnished under this contract.

(B) Nothing in this contract shall be construed as a warranty of the accuracy or correctness of any facts, information, or data furnished by QUALITY or any interpretation of test, meter readings, chart information, analysis or research, or recommendations made by QUALITY, unless the inaccuracy or incorrectness is caused by the willful misconduct or gross negligence of QUALITY or its employees in the preparation or furnishing of such facts, information or data. (C) Work done by QUALITY shall be under the direct supervision and control of the CUSTOMER or his agent and QUALITY will accomplish the job as an independent contractor and not as an employee or agent of the CUSTOMER.

QUALITY OILWELL CEMENTING, INC.

Federal Tax I.D.# 20-2886107

Phone 785-483-2025
Cell 785-324-1041

Home Office P.O. Box 32 Russell, KS 67665

No. 6064

Date	1-22-13	Sec.	32	Twp.	17	Range	10	County	Ellsworth	State	Ks	On Location		Finish	12:00 AM	
Lease	Boys Town unit							Well No.	2	Owner	E/S					
Contractor	Southwind #2							To Quality Oilwell Cementing, Inc. You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.								
Type Job	Production							Charge To RSM Company								
Hole Size	7 7/8"		T.D.	3251'		Street										
Csg.	5 1/2"		Depth	3253.47'		City										
Tbg. Size			Depth			State										
Tool			Depth			The above was done to satisfaction and supervision of owner agent or contractor.										
Cement Left in Csg.	21.66'		Shoe Joint	21.66'		Cement Amount Ordered 180 Common 10% Salt										
Meas Line			Displace	77 BLS		5% Gilsomite - 500 gal mud Clear 48										
EQUIPMENT													Common 180			
Pumptrk	16	No.	Cementor	Trao, S		Poz. Mix										
Bulktrk	8	No.	Driver	Heath		Gel.										
Bulktrk	P.U.	No.	Driver	Rick		Calcium										
JOB SERVICES & REMARKS													Hulls			
Remarks:													Salt 16			
Rat Hole													Flowseal			
Mouse Hole													Kol-Seal 900#			
Centralizers	1-9		Mud CLR 48 500 gal													
Baskets	2, 5		CFL-117 or CD110 CAF 38													
D/V or Port Collar	pipe on bottom, break												Sand			
Circulation	pump 500 gal Mud												Handling 205			
Clear 48,	plug Rathole w/ 30sx												Mileage			
plug mousehole	w/ 15sx. Hook to												FLOAT EQUIPMENT			
5 1/2" Casing + mix	135 sx Cement												Guide Shoe 1			
shut down	Released plug, wash pump												Centralizer 9 turbos			
+ lines. Hook to	5 1/2" Casing + Displaced												Baskets 2			
with 13LS of water.	Released Float held												AFU Inserts 1			
Lift pressure	600 #		Float Shoe													
Land plug to	1400 #		Latch Down													
	1- Rubber plug												1- Rotating head Assy			
	Pumptrk Charge												Prod. Long String			
	Mileage 31															
Signature <i>William Jordan</i>													Tax			
													Discount			
													Total Charge			

GENERAL TERMS AND CONDITIONS

DEFINITIONS: In these terms and conditions, "Quality" shall mean Quality Oilwell Cementing, Inc., and "Customer" shall refer to the party identified by that term on the front of this contract. As applicable, "Job" relates to the services described on the front side of this contract, "merchandise" refers to the material described on the front of this contract and to any other materials, products, or supplies used, sold, or furnished under the requirements of this contract.

– **TERMS:** Unless satisfactory credit has been established, "CUSTOMER" must tender full cash payment to "QUALITY" before the job is undertaken or merchandise is delivered. If satisfactory credit has been established, the terms of payment for the job and/or merchandise, including bulk cement, are net cash, payable in 30 days from the completion of the job and/or delivery of the merchandise. For all past due invoices, "CUSTOMER" agrees to pay interest on amounts due at a rate of 18 percent per annum until paid. Notwithstanding the foregoing in no event shall this Contract provide for interest exceeding the maximum rate of interest that "CUSTOMER" may agree to pay under applicable law. If any such interest should be provided for, it shall be and hereby is deemed to be a mistake, and this contract shall be automatically reformed to lower the rate of interest to the maximum legal contract rate, any amounts previously paid as excess interest shall be deducted from the amounts owing from the "CUSTOMER" or at the option of "QUALITY," refunded directly to "CUSTOMER." For purposes of this paragraph, QUALITY and CUSTOMER agree that KANSAS law shall apply. Any discounts granted with this contract are null and void if the charges are not paid when due.

– **ATTORNEY FEES:** In any legal action or proceeding between the parties to enforce any of the terms of this Service Contract, or in any way pertaining to the term of this Contract, the prevailing party shall be entitled to recover all expenses, including, but not limit to, a reasonable sum as and attorney's fees.

– **PRICES AND TAXES:** All merchandise listed in "QUALITY'S" current price schedule are F.O.B. QUALITY'S local station and are subject to change without notice. All prices are exclusive of any federal, state, local, or special taxes for the sale or use of the merchandise or services listed. The amount of taxes required to be paid by QUALITY shall be added to the quoted prices charged to CUSTOMER.

– **TOWING CHARGES:** QUALITY will make a reasonable attempt to get to and from each job site using its own equipment. Should QUALITY be unable to do so because of poor or inadequate road conditions, and should it become necessary to employ a tractor or other pulling equipment to get to or from the job site, the tractor or pulling equipment will be supplied by CUSTOMER or, if furnished by QUALITY, will be charged to and paid by CUSTOMER.

– **PREPARATION CHARGES:** If a job and/or merchandise is ordered and CUSTOMER cancels the order after preparation of a chemical solution or other material, CUSTOMER will pay QUALITY for the expenses incurred by QUALITY as a result of the cancellation.

– **DEADHAUL CHARGES:** Unless otherwise specified on the front of this Contract, a deadhaul charges as set forth in QUALITY'S current price book will be charged each way for each service unit which is ordered by CUSTOMER but not used.

– **SERVICE CONDITIONS AND LIABILITIES:** 1. QUALITY carries public liability and property damage insurance, but since there are so many uncertain and unknown conditions beyond QUALITY'S control, QUALITY shall not be liable for injuries to property or persons or for loss or damage arising from the performance of the job or delivery of the merchandise. Customer shall be responsible for and indemnify, defend, and hold harmless QUALITY, its officers, agents and employees, from and against any and all claims or suits for:

(A) Damage to property or for bodily injury, sickness, disease, or death, brought by any person, including CUSTOMER and/or the well owner; and:

(B) Oil spills, pollution, surface or sub-surface damage, injury to the well, reservoir loss, or damage arising from a well blowout arising out of or in connection with QUALITY'S performance of the job or furnishing of merchandise in accordance with this contract, unless such loss or damage is caused by the willful misconduct or gross negligence of QUALITY or its employees.

2. With respect to any of QUALITY'S tools, equipment, or instruments which are lost in the well or damaged when performing or attempting to perform the job or, in the case of marine operations, are lost or damaged at any time after delivery to the landing for CUSTOMER and before return to QUALITY at the landing, CUSTOMER shall either recover the lost item without cost to QUALITY or reimburse QUALITY the current replacement cost of the item unless the loss or damage results from the sole negligence of QUALITY or its employees.

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Conservation Division
Finney State Office Building
130 S. Market, Rm. 2078
Wichita, KS 67202-3802



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<http://kcc.ks.gov/>

Mark Sievers, Chairman
Thomas E. Wright, Commissioner
Shari Feist Albrecht, Commissioner

Sam Brownback, Governor

March 22, 2013

Brian Miller
RJM Company
PO BOX 256
CLAFLIN, KS 67525-0256

Re: ACO1
API 15-053-21280-00-00
Boys Town Unit 2
NW/4 Sec.32-17S-10W
Ellsworth County, Kansas

Dear Production Department:

We are herewith requesting that the Well Completion Form ACO-1 and attached information for the subject well be held confidential for a period of two years.

Should you have any questions or need additional information regarding subject well, please contact our office.

Respectfully,
Brian Miller