



Confidentiality Requested:

Yes  No

KANSAS CORPORATION COMMISSION 1180576  
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: \_\_\_\_\_

1180576

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 <i>(Attach Additional Sheets)</i>	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Log	Formation (Top), Depth and Datum	<input type="checkbox"/> Sample
Samples Sent to Geological Survey	<input type="checkbox"/> Yes <input type="checkbox"/> No	Name	Top	Datum
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:				

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:  Yes  No

Date of First, Resumed Production, SWD or ENHR. \_\_\_\_\_ Producing Method:  
 Flowing  Pumping  Gas Lift  Other *(Explain)* \_\_\_\_\_

Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity

<b>DISPOSITION OF GAS:</b> <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	<b>METHOD OF COMPLETION:</b> <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</i> <i>(Submit ACO-4)</i> <input type="checkbox"/> Other <i>(Specify)</i> _____	<b>PRODUCTION INTERVAL:</b> _____ _____
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# 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. 7581

Date	Sec.	Twp.	Range	County	State	On Location	Finish
12-18-13	17	17	14	Barton	Ks		10:00 AM

Lease Snyder farms Location Olmitz Ks + Hwy 4 - 3N to 150R

Well No. 1 Owner MUE, N/Into

Contractor Southwind #2 To Quality Oilwell Cementing, Inc.

Type Job Surface You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.

Hole Size 10 1/4" T.D. 935' Charge To RJM Company

Csg. 8 5/8" Depth 935' 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. 41' Shoe Joint 41' Cement Amount Ordered 375 5x Common 3 1/2"

Meas Line Displace 57 BLS 2% Gel

**EQUIPMENT**

Pumptrk 15 No. Cementer Nick Common

Bulktrk 9 No. Driver David Poz. Mix

Bulktrk pu No. Driver Rick Gel.

**JOB SERVICES & REMARKS**

Remarks: Cement did Circulate Hulls

Rat Hole Salt

Mouse Hole Flowseal

Centralizers Kol-Seal

Baskets Mud CLR 48

D/V or Port Collar CFL-117 or CD110 CAF 38

Schneiders Farms #1 Sand

Handling

Mileage

**FLOAT EQUIPMENT**

Guide Shoe Basket plate

Centralizer Rubber plug

Baskets

AFU Inserts

Float Shoe

Latch Down

Pumptrk Charge

Mileage

Tax

Discount

Total Charge

X Signature William Anderson



## 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 shall 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 construed 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

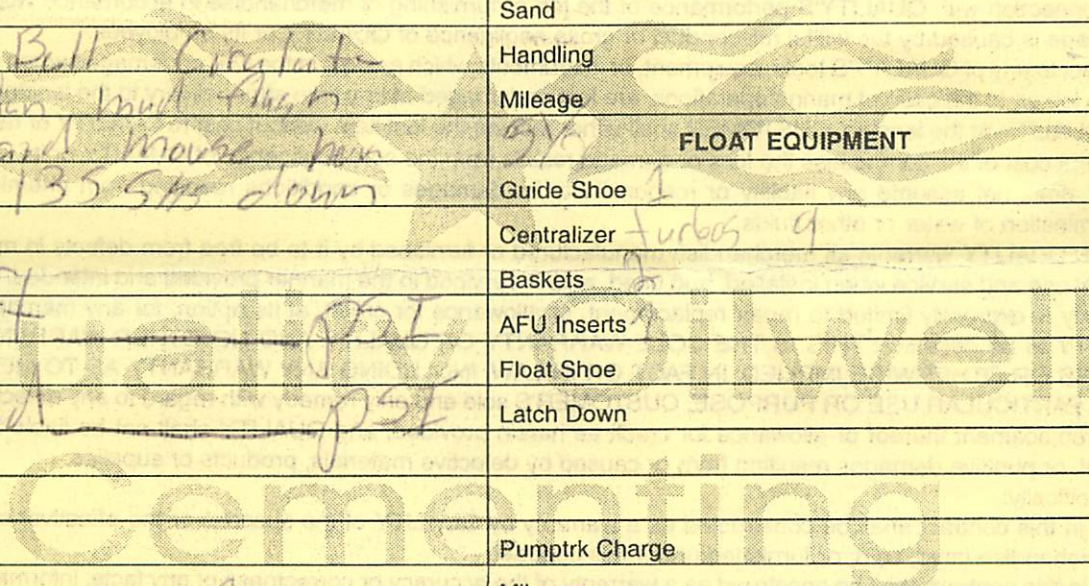
Phone 785-483-2025

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

No. 7632

Cell 785-324-1041

Date	1-6-14	Sec.	7	Twp.	17	Range	14	County	Barton	State	Ks	On Location	8:30 AM	Finish	1:45 PM
Lease								Well No.		Location					
Schneider Farms								# 1		Bull 570 150th R0 9 3/4					
Contractor								2		Owner					
Southwind										W Nunto					
Type Job										To Quality Oilwell Cementing, Inc.					
Lone Star										You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.					
Hole Size								T.D.		Charge					
7 7/8								3443		To					
Csg.								Depth		Street					
5 1/2								3434		R 5th					
Tbg. Size								Depth		City					
										State					
Tool								Depth		The above was done to satisfaction and supervision of owner agent or contractor.					
Cement Left in Csg.								Shoe Joint		Cement Amount Ordered					
20.5								20.9		180 Com 10/20/14					
Meas Line								Displace		5% oil sol. 16					
								81.441313							
<b>EQUIPMENT</b>															
Common															
Pumptrk	17	No.	Cementer												
			Helper	Matt											
Bulktrk	1	No.	Driver	Cody											
			Driver	Douglas											
Bulktrk	90	No.	Driver												
			Driver												
<b>JOB SERVICES &amp; REMARKS</b>															
Remarks:															
Salt															
Rat Hole 305Ks															
Flowseal															
Mouse Hole 155Ks															
Kol-Seal															
Centralizers															
Mud CLR 48 500g															
Baskets															
CFL-117 or CD110 CAF 38															
D/V or Port Collar															
Sand															
Dropped Bull Circuits															
Handling															
45 min Run mud flash															
Mileage															
9%															
<b>FLOAT EQUIPMENT</b>															
Guide Shoe 1															
Centralizer Turbos 9															
Baskets 2															
AFU Inserts															
Float Shoe															
Latch Down															
Pumptrk Charge															
Mileage															
Tax															
Discount															
Total Charge															
Signature <i>William Adams</i>															





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## DRILL STEM TEST REPORT

Prepared For: **RJM Company**

Po Box 256 Claflin Kansas  
67525

ATTN: Wyatt

**Schneider Farm**

**7-17s-14w- Barton**

Start Date: 2014.01.04 @ 09:30:00

End Date: 2014.01.04 @ 15:44:00

Job Ticket #: 19162                      DST #: 1

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

Printed: 2014.01.04 @ 01:59:37





# DRILL STEM TEST REPORT

RJM Company  
 Po Box 256 Claflin Kansas  
 67525  
 ATTN: Wyatt

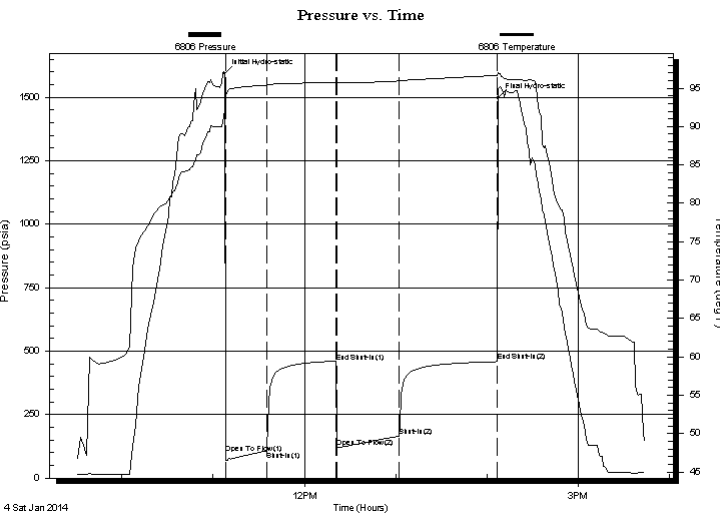
**7-17s-14w- Barton**  
**Schneider Farm**  
 Job Ticket: 19162 **DST#: 1**  
 Test Start: 2014.01.04 @ 09:30:00

## GENERAL INFORMATION:

Formation: **Lansing A-C**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 11:08:00  
 Time Test Ended: 15:44:00  
 Interval: **3196.00 ft (KB) To 3230.00 ft (KB) (TVD)**  
 Total Depth: 3230.00 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-45  
 Reference Elevations: 1947.00 ft (KB)  
 1938.00 ft (CF)  
 KB to GR/CF: 9.00 ft

**Serial #: 6806 Inside**  
 Press @ RunDepth: 165.14 psia @ 3226.00 ft (KB) Capacity: 5000.00 psia  
 Start Date: 2014.01.04 End Date: 2014.01.04 Last Calib.: 2014.01.04  
 Start Time: 09:30:00 End Time: 15:44:00 Time On Btm: 2014.01.04 @ 11:07:30  
 Time Off Btm: 2014.01.04 @ 14:07:00

**TEST COMMENT:** 1st Open 30 minutes Good building blow built to bottom bucket in 23 minutes.  
 1st Shut in 45 minutes No blow back  
 2nd Open 45 minutes Good building blow built to bottom bucket in 23 minutes.  
 2nd Shut in 60 minutes No blow back



## PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1594.82	92.13	Initial Hydro-static
1	98.86	92.06	Open To Flow (1)
28	107.44	95.40	Shut-In(1)
74	458.73	95.73	End Shut-In(1)
74	120.44	95.67	Open To Flow (2)
115	165.14	95.93	Shut-In(2)
179	458.88	96.67	End Shut-In(2)
180	1496.78	97.05	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
225.00	Water 100%	3.16
0.00	Chlorides 23,000	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: Wyatt

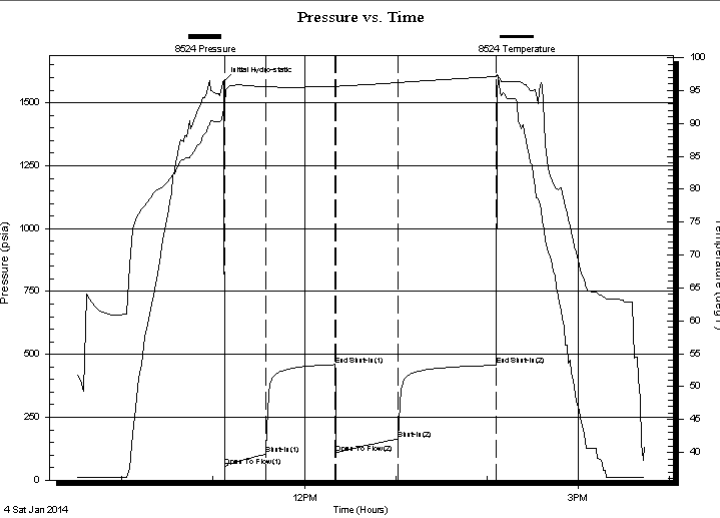
**7-17s-14w- Barton**  
**Schneider Farm**  
 Job Ticket: 19162 **DST#: 1**  
 Test Start: 2014.01.04 @ 09:30:00

## GENERAL INFORMATION:

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 Total Depth: 3230.00 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-45  
 Reference Elevations: 1947.00 ft (KB)  
 1938.00 ft (CF)  
 KB to GR/CF: 9.00 ft

**Serial #: 8524 Outside**  
 Press @ RunDepth: 456.37 psia @ 3227.00 ft (KB) Capacity: 5000.00 psia  
 Start Date: 2014.01.04 End Date: 2014.01.04 Last Calib.: 2014.01.04  
 Start Time: 09:30:00 End Time: 15:43:30 Time On Btm: 2014.01.04 @ 11:07:00  
 Time Off Btm:

**TEST COMMENT:** 1st Open 30 minutes Good building blow built to bottom bucket in 23 minutes.  
 1st Shut in 45 minutes No blow back  
 2nd Open 45 minutes Good building blow built to bottom bucket in 23 minutes.  
 2nd Shut in 60 minutes No blow back



## PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1582.93	92.25	Initial Hydro-static
1	54.25	92.68	Open To Flow (1)
28	103.11	95.57	Shut-In(1)
73	459.22	95.67	End Shut-In(1)
74	108.43	95.69	Open To Flow (2)
115	162.74	96.20	Shut-In(2)
179	456.37	97.13	End Shut-In(2)

## Recovery

Length (ft)	Description	Volume (bbl)
225.00	Water 100%	3.16
0.00	Chlorides 23,000	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  
 ATTN: Wyatt

**7-17s-14w- Barton**  
**Schneider Farm**  
 Job Ticket: 19162      **DST#: 1**  
 Test Start: 2014.01.04 @ 09:30:00

## Tool Information

Drill Pipe:	Length: 3174.00 ft	Diameter: 3.80 inches	Volume: 44.52 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: 65000.00 lb
			<u>Total Volume: 44.52 bbl</u>	Tool Chased 4.00 ft
Drill Pipe Above KB:	6.00 ft			String Weight: Initial 48000.00 lb
Depth to Top Packer:	3196.00 ft			Final 50000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	34.00 ft			
Tool Length:	62.00 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			3173.00	
Hydraulic Tool	5.00			3178.00	
Jars	6.00			3184.00	
Safety Joint	2.00			3186.00	
Packer	5.00			3191.00	28.00      Bottom Of Top Packer
Packer	5.00			3196.00	
Anchor	29.00			3225.00	
Recorder	1.00	6806	Inside	3226.00	
Recorder	1.00	8524	Outside	3227.00	
Bull Plug	3.00			3230.00	34.00      Bottom Packers & Anchor
<b>Total Tool Length:</b>	<b>62.00</b>				





# DRILL STEM TEST REPORT

## FLUID SUMMARY

RJM Company  
 Po Box 256 Claflin Kansas  
 67525  
 ATTN: Wyatt

**7-17s-14w- Barton**  
**Schneider Farm**  
 Job Ticket: 19162      **DST#: 1**  
 Test Start: 2014.01.04 @ 09:30:00

### 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: 46.00 sec/qt	Cushion Volume: bbl		
Water Loss: 8.00 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

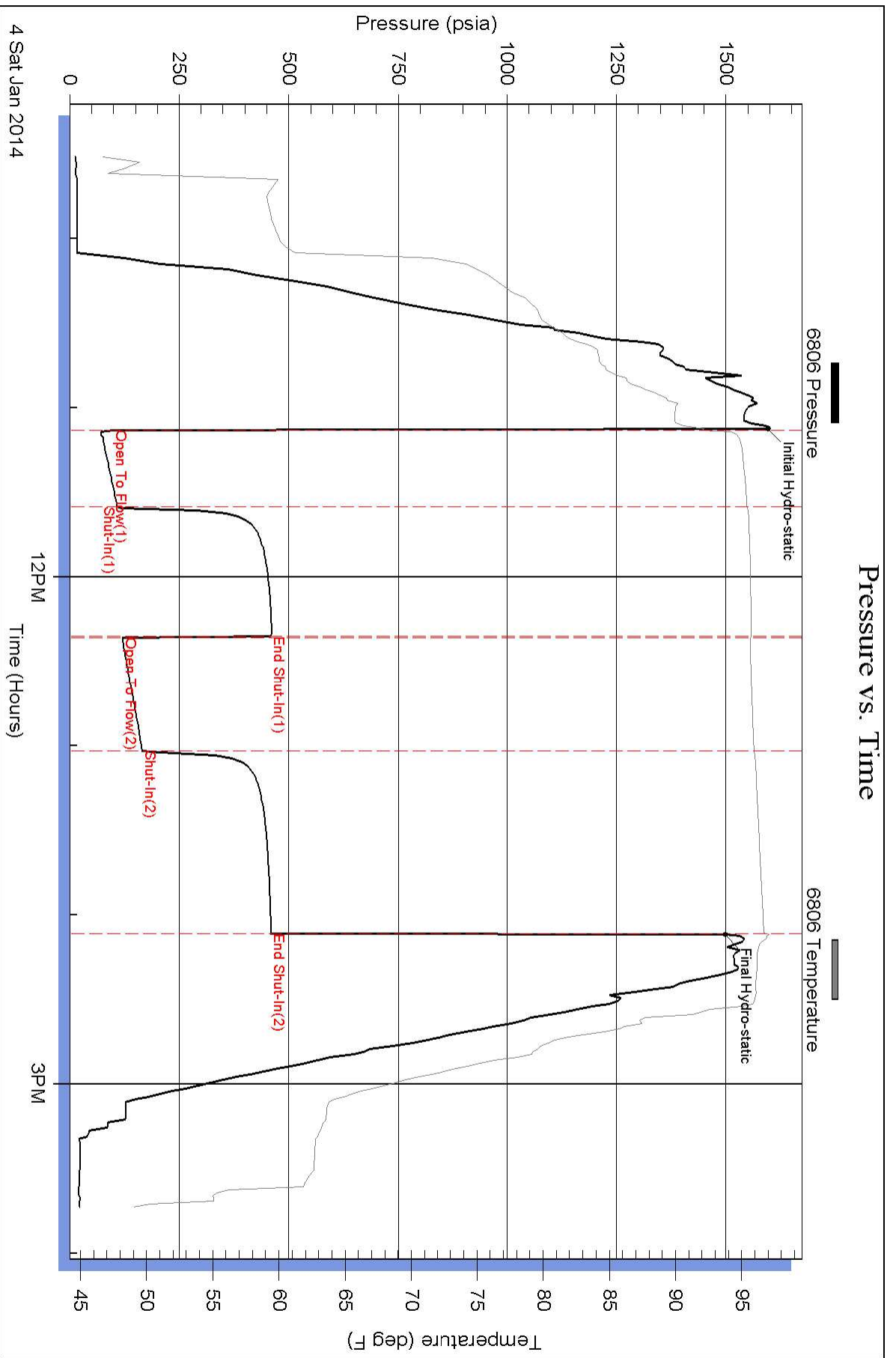
Recovery Table

Length ft	Description	Volume bbl
225.00	Water 100%	3.156
0.00	Chlorides 23,000	0.000

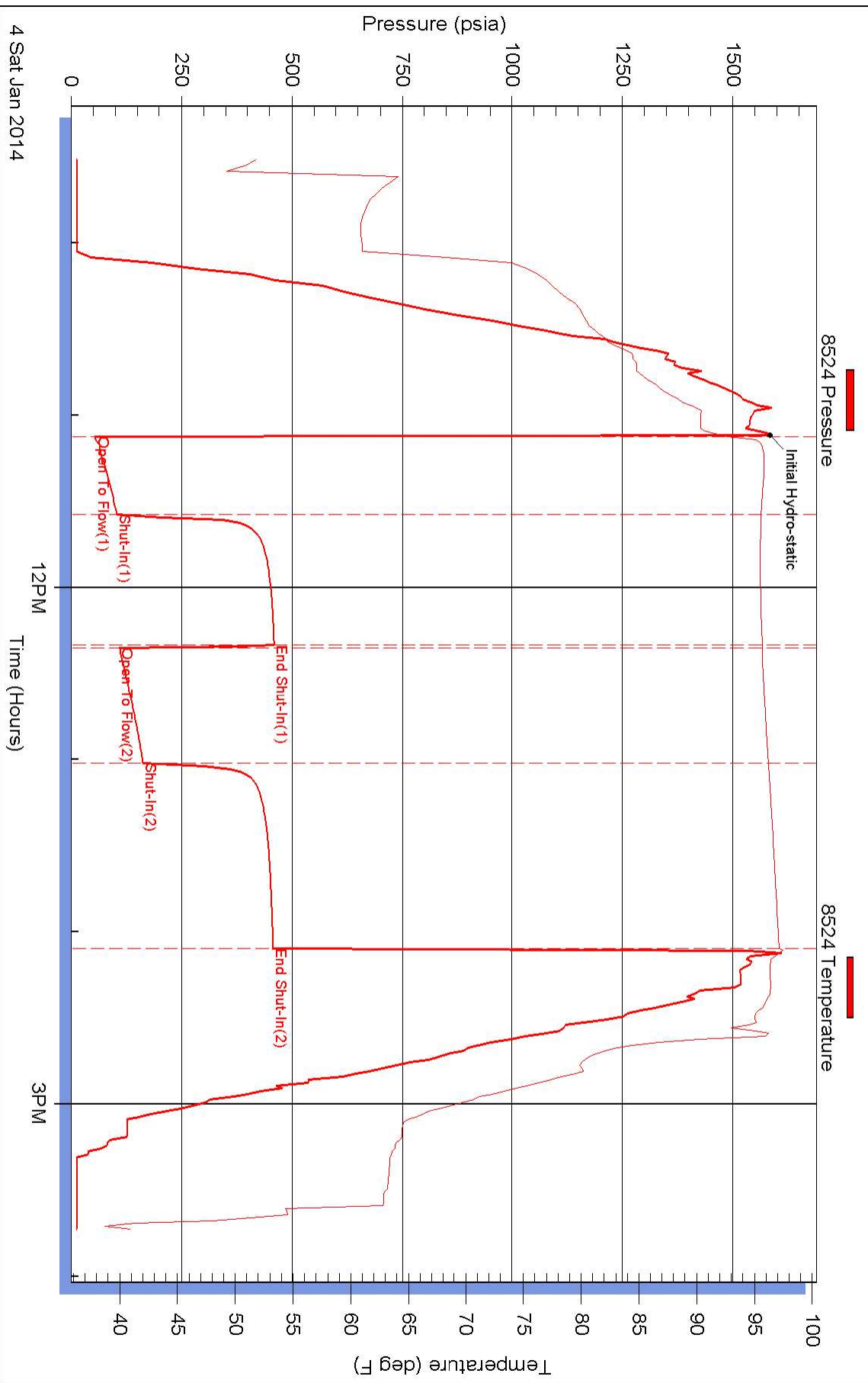
Total Length: 225.00 ft      Total Volume: 3.156 bbl  
 Num Fluid Samples: 0      Num Gas Bombs: 0      Serial #:  
 Laboratory Name:      Laboratory Location:  
 Recovery Comments:



# Pressure vs. Time



### Pressure vs. Time







## DRILL STEM TEST REPORT

Prepared For: **RJM Company**

Po Box 256 Claflin Kansas  
67525

ATTN: Wyatt

**Schneider Farm**

**7-17s-14w- Barton**

Start Date: 2014.01.04 @ 05:56:00

End Date: 2014.01.04 @ 12:19:30

Job Ticket #: 19163                      DST #: 2

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

Printed: 2014.01.04 @ 23:32:45



# DRILL STEM TEST REPORT

RJM Company  
 Po Box 256 Claflin Kansas  
 67525  
 ATTN: Wyatt

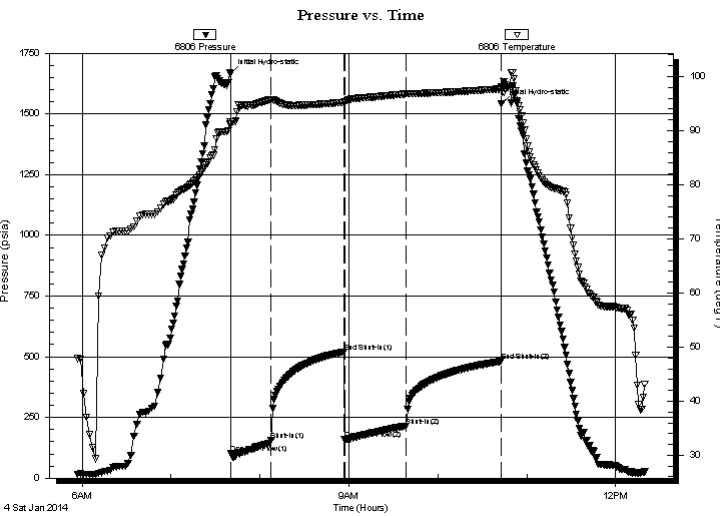
**7-17s-14w- Barton**  
**Schneider Farm**  
 Job Ticket: 19163 **DST#: 2**  
 Test Start: 2014.01.04 @ 05:56:00

## GENERAL INFORMATION:

Formation: **Lansing H,I,J**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 07:40:30  
 Time Test Ended: 12:19:30  
 Interval: **3304.00 ft (KB) To 3368.00 ft (KB) (TVD)**  
 Total Depth: 3368.00 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-45  
 Reference Elevations: 1947.00 ft (KB)  
 1938.00 ft (CF)  
 KB to GR/CF: 9.00 ft

**Serial #: 6806 Inside**  
 Press @ RunDepth: 214.82 psia @ 3364.12 ft (KB) Capacity: 5000.00 psia  
 Start Date: 2014.01.04 End Date: 2014.01.04 Last Calib.: 2014.01.04  
 Start Time: 05:57:00 End Time: 12:19:30 Time On Btm: 2014.01.04 @ 07:40:00  
 Time Off Btm: 2014.01.04 @ 10:43:00

**TEST COMMENT:** 1st Open 30 minutes Strong building blow built to the bottom of a 5 gallon bucket of water in 12 minutes.  
 1st Shut in 45 minutes No blow back.  
 2nd Open 45 minutes Good building blow built to bottom bucket 24 minutes.  
 2nd Shut in 60 minutes No blow back.



## PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1666.03	91.61	Initial Hydro-static
1	102.97	91.34	Open To Flow (1)
28	155.53	95.80	Shut-In(1)
77	520.49	95.26	End Shut-In(1)
77	159.98	95.28	Open To Flow (2)
119	214.82	96.81	Shut-In(2)
183	480.85	97.73	End Shut-In(2)
183	1542.40	98.19	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
180.00	Water ,very lightly oil spotted	2.52
0.00	100%Water	0.00
180.00	Watery mud Mud 40% Water 60%	2.52
0.00	Chlorides 19,000	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  
 ATTN: Wyatt

**7-17s-14w- Barton**  
**Schneider Farm**  
 Job Ticket: 19163      **DST#: 2**  
 Test Start: 2014.01.04 @ 05:56:00

**Tool Information**

Drill Pipe:	Length: 3308.00 ft	Diameter: 3.80 inches	Volume: 46.40 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: 67000.00 lb
			<u>Total Volume: 46.40 bbl</u>	Tool Chased 3.00 ft
Drill Pipe Above KB:	24.00 ft			String Weight: Initial 50000.00 lb
Depth to Top Packer:	3304.00 ft			Final 50000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	64.12 ft			
Tool Length:	84.12 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			3289.00	
Hydraulic Tool	5.00			3294.00	
Packer	5.00			3299.00	20.00      Bottom Of Top Packer
Packer	5.00			3304.00	
Anchor	5.00			3309.00	
Change Over Sub	0.75			3309.75	
Drill Pipe	31.62			3341.37	
Change Over Sub	0.75			3342.12	
Anchor	21.00			3363.12	
Recorder	1.00	6806	Inside	3364.12	
Recorder	1.00	8524	Outside	3365.12	
Bull Plug	3.00			3368.12	64.12      Bottom Packers & Anchor

**Total Tool Length: 84.12**





# DRILL STEM TEST REPORT

## FLUID SUMMARY

RJM Company  
 Po Box 256 Claflin Kansas  
 67525  
 ATTN: Wyatt

**7-17s-14w- Barton**  
**Schneider Farm**  
 Job Ticket: 19163      **DST#: 2**  
 Test Start: 2014.01.04 @ 05:56:00

### Mud and Cushion Information

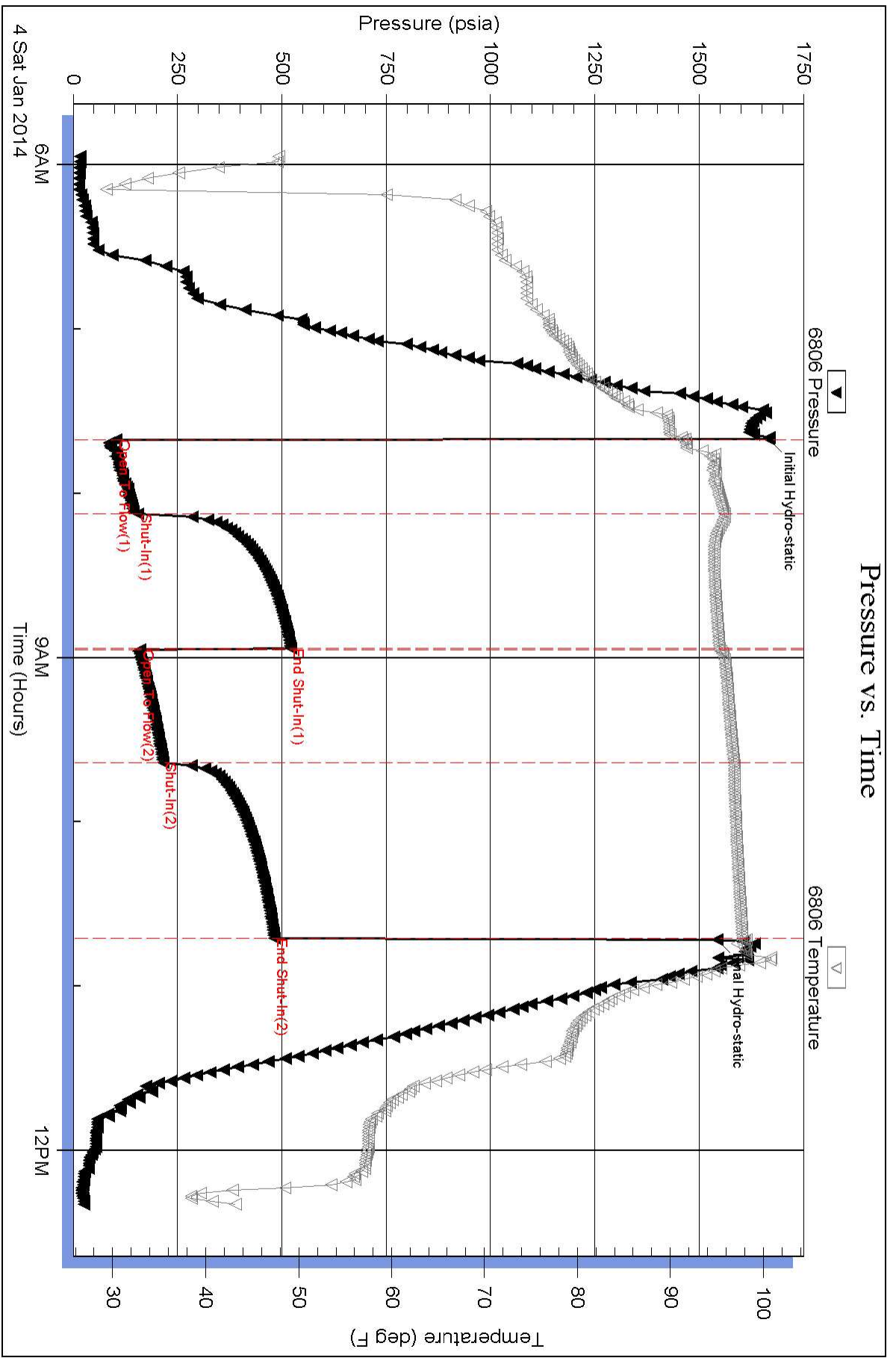
Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	ppm
Viscosity: 44.00 sec/qt	Cushion Volume: bbl		
Water Loss: 8.79 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psia		
Salinity: 5000.00 ppm			
Filter Cake: 1.00 inches			

### Recovery Information

Recovery Table

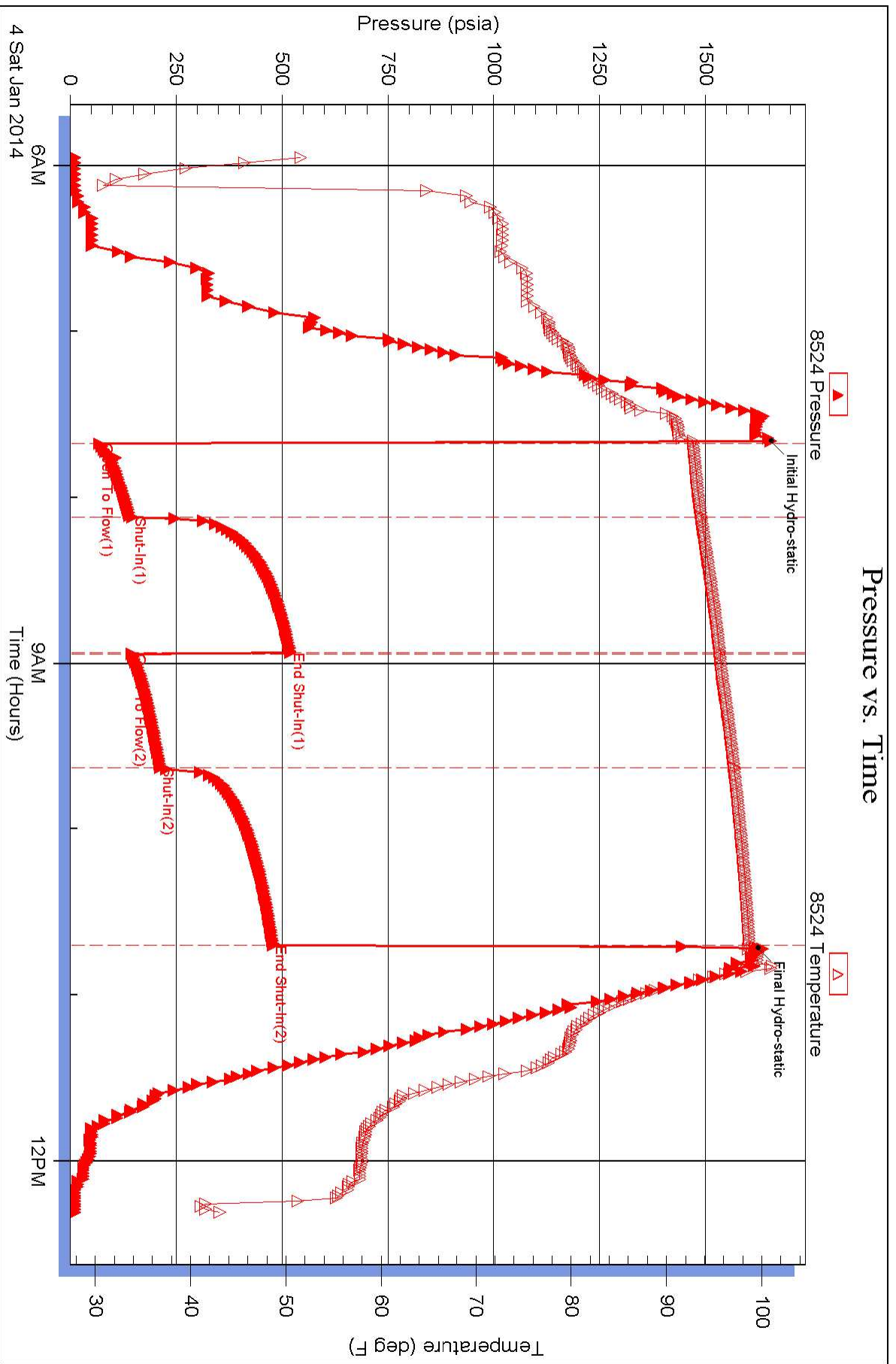
Length ft	Description	Volume bbl
180.00	Water ,very lightly oil spotted	2.525
0.00	100%Water	0.000
180.00	Watery mud Mud 40% Water 60%	2.525
0.00	Chlorides 19,000	0.000

Total Length: 360.00 ft      Total Volume: 5.050 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: Wyatt

**Schneider Farm**

**7-17s-14w- Barton**

Start Date: 2014.01.05 @ 11:31:00

End Date: 2014.01.06 @ 14:30:29

Job Ticket #: 19164                      DST #: 3

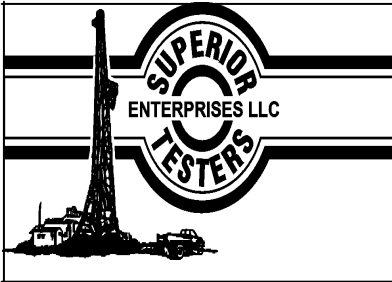
Superior Testers Enterprises LLC  
PO Box 138 Great Bend KS 67530  
1-800-792-6902

Printed: 2014.01.05 @ 16:25:17









# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

RJM Company  
 Po Box 256 Claflin Kansas  
 67525  
 ATTN: Wyatt

**7-17s-14w- Barton**  
**Schneider Farm**  
 Job Ticket: 19164      **DST#: 3**  
 Test Start: 2014.01.05 @ 11:31:00

**Tool Information**

Drill Pipe:	Length: 3372.00 ft	Diameter: 3.80 inches	Volume: 47.30 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: 62000.00 lb
			<u>Total Volume: 47.30 bbl</u>	Tool Chased 2.00 ft
Drill Pipe Above KB:	8.00 ft			String Weight: Initial 50000.00 lb
Depth to Top Packer:	3384.00 ft			Final 52000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	62.08 ft			
Tool Length:	82.08 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			3369.00	
Hydraulic Tool	5.00			3374.00	
Packer	5.00			3379.00	20.00      Bottom Of Top Packer
Packer	5.00			3384.00	
Anchor	5.00			3389.00	
Change Over Sub	0.75			3389.75	
Drill Pipe	30.58			3420.33	
Change Over Sub	0.75			3421.08	
Anchor	20.00			3441.08	
Recorder	1.00	6806	Inside	3442.08	
Recorder	1.00	8524	Outside	3443.08	
Bull Plug	3.00			3446.08	62.08      Bottom Packers & Anchor

**Total Tool Length: 82.08**



# DRILL STEM TEST REPORT

## FLUID SUMMARY

RJM Company

7-17s-14w- Barton

Po Box 256 Claflin Kansas  
67525

Schneider Farm

Job Ticket: 19164

DST#: 3

ATTN: Wyatt

Test Start: 2014.01.05 @ 11:31:00

### Mud and Cushion Information

Mud Type: Gel Chem  
Mud Weight: 9.00 lb/gal  
Viscosity: 49.00 sec/qt  
Water Loss: 8.20 in<sup>3</sup>  
Resistivity: ohm.m  
Salinity: 6000.00 ppm  
Filter Cake: 1.00 inches

Cushion Type:  
Cushion Length: ft  
Cushion Volume: bbl  
Gas Cushion Type:  
Gas Cushion Pressure: psia

Oil API: deg API  
Water Salinity: ppm

### Recovery Information

Recovery Table

Length ft	Description	Volume bbl
360.00	Clean gassy oil Oil 100%	5.050
370.00	Gassy oil cut mud	5.190
0.00	Oil50% Gas10% Mud40%	0.000
0.00	300Ft. gas in pipe.	0.000
0.00	Gravity of oil 39	0.000

Total Length: 730.00 ft      Total Volume: 10.240 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

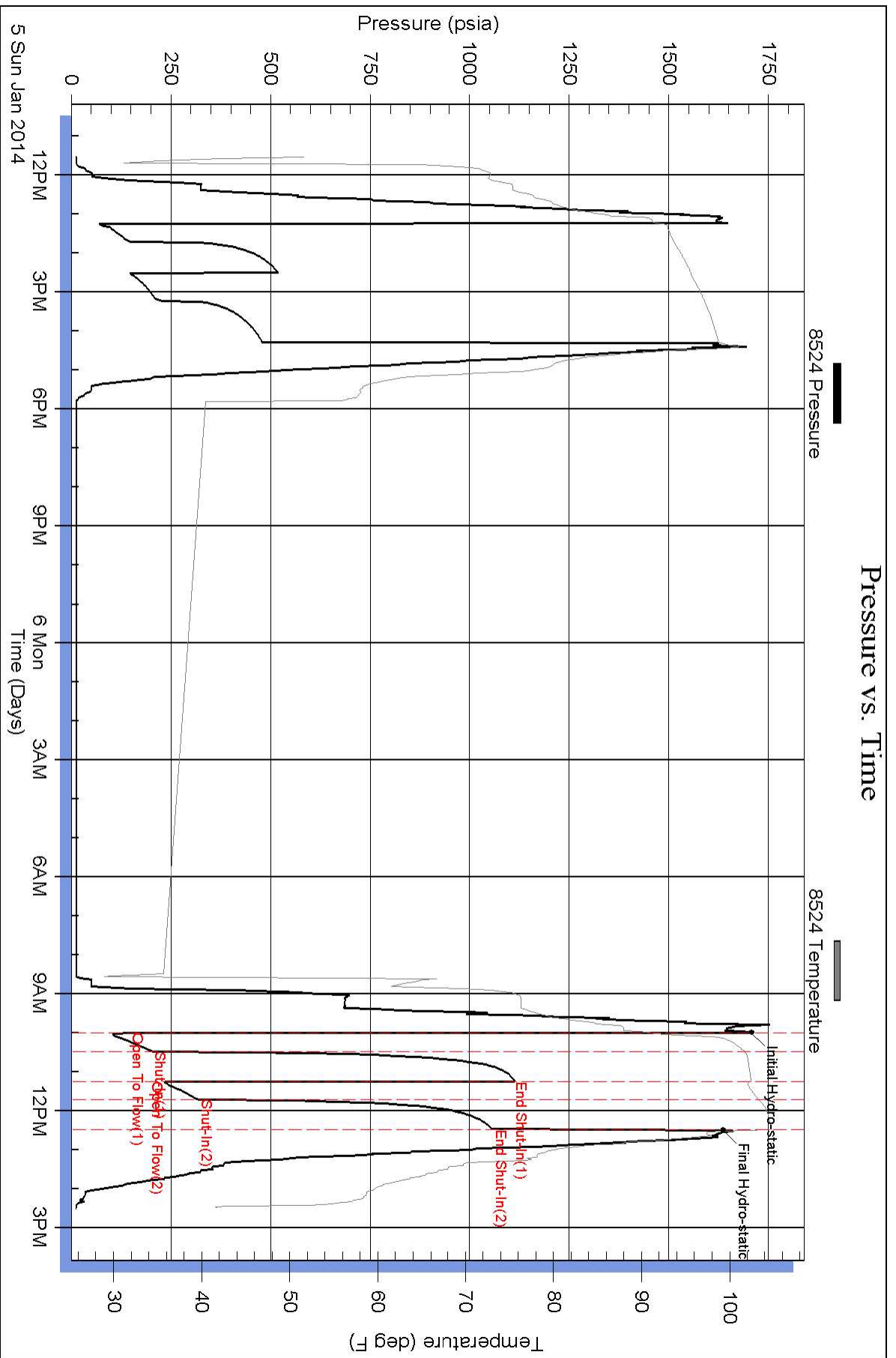
Laboratory Name:

Laboratory Location:

Recovery Comments:



### Pressure vs. Time



### Pressure vs. Time

