



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1104009
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: _____



1104009

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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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. 8195

Date	11-20-12	Sec.	9	Twp.	22	Range	14	County	Stafford	State	Ks	On Location		Finish	9:15 AM
Lease	Patty Rose			Well No.	1			Location	Radium, Ks - 1S, 1E, 1/2S, E1/4						
Contractor	Royal #2							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.						
Type Job	Surface							Charge To	RSM Company						
Hole Size	12 1/4"			T.D.	946'			Street							
Csg.	8 5/8"			Depth	937'			City	State						
Tbg. Size				Depth				The above was done to satisfaction and supervision of owner agent or contractor.							
Cement Left In Csg.	42.21'			Shoe Joint	42.21'			Cement Amount Ordered	450 Sx Common 30% CC						
Meas Line	Displace 57 BLS			2 1/2 Gel 1/2 # Flo-seal											
EQUIPMENT								Common							
Pumptrk	5	No.	Cementer	Bre #				Poz. Mix							
			Helper												
Bulktrk	4	No.	Driver	Doug				Gel.							
			Driver	Rick				Calcium							
JOB SERVICES & REMARKS								Hulls							
Remarks	Cement did Circulate.							Salt							
Rat Hole								Flowseal							
Mouse Hole								Kol-Seal							
Centralizers								Mud CLR 48							
Baskets								CFL-117 or CD110 CAF 38							
D/V or Port Collar								Sand							
								Handling							
								Mileage							
								FLOAT EQUIPMENT							
								Guide Shoe							
								Centralizer							
								Baskets							
								AFU Inserts							
								Float Shoe							
								Latch Down							
								1 - Baffle plate							
								1 - Rubber plug							
								Pumptrk Charge							
								Mileage							
								Tax							
								Discount							
								Total Charge							
Signature								Doug Buday							

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. 9100

Date	11-29-12	Sec.	9	Twp.	22	Range	14	County	Barton	State	Ks	On Location		Finish	
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Lease Patty Rose Well No. 1 Location Barton, Ks - 15 to K-19 Hwy, 1F, 3S

Contractor Royal #2 Owner EITto

Type Job Production 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.

Hole Size 7 7/8" T.D. 3871' Charge To RJM Company

Csg. 5 1/2" 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. Shoe Joint Cement Amount Ordered 180 sx Common 10% Salt

Meas Line Displace BLS 5% Gilsontite - 500 gal Mud Clear 48

EQUIPMENT

Pumptrk <u>16</u>	No.	Cement Helper <u>Trawis</u>	Common
Bulktrk <u>1</u>	No.	Driver	Poz. Mix
Bulktrk <u>P.M.</u>	No.	Driver <u>Rick</u>	Gel.
		Driver	Calcium

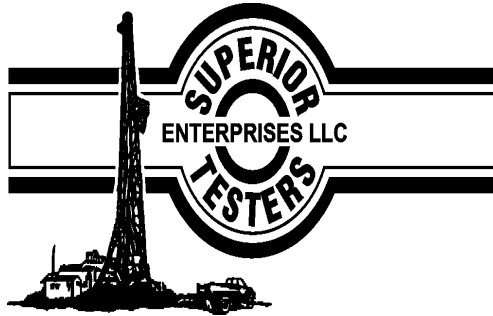
JOB SERVICES & REMARKS

Remarks:	Hulls
Rat Hole <u>30 sx</u>	Salt
Mouse Hole <u>15 sx</u>	Flowseal
Centralizers <u>1-9</u>	Kol-Seal
Baskets <u>2, 5</u>	Mud CLR 48
D/V or Port Collar <u>pipe on bottom, break C/c</u>	Sand
<u>pump 500 gal mud clear 48, pump 500</u>	Handling
<u>of water, plug Rathole w/ 30 sx, plug</u>	Mileage
<u>Mousehole w/ 15 sx, Hook to casing +</u>	
<u>mix 135 sx cement shut down</u>	
<u>wash pump + lines. Released plug +</u>	
<u>Displaced with BLS of water.</u>	
<u>Released + Float held.</u>	
<u>Lift pressure #</u>	
<u>Land plug to #</u>	

FLOAT EQUIPMENT

Guide Shoe	<u>1</u>
Centralizer	<u>9 turbos</u>
Baskets	<u>2</u>
AFU Inserts	<u>1</u>
Float Shoe	
Latch Down	
	<u>1 - Rotating head Assy</u>
	<u>1 - Rubber plug</u>
Pumptrk Charge	
Mileage	

Signature <u>Wong Budy</u>	Tax
	Discount
	Total Charge



DRILL STEM TEST REPORT

Prepared For: **RJM Company**

Po Box 256 Claflin KS 67525+0256

ATTN: Kurt

Patty Rose #1

9-22-14 Stafford

Start Date: 2012.11.26 @ 12:35:00

End Date: 2012.11.26 @ 18:45:00

Job Ticket #: 16977 DST #: 1

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

Printed: 2012.12.01 @ 16:15:40

RJM Company
9-22-14 Stafford
Patty Rose #1
DST # 1
Lansing H,I,J
2012.11.26



DRILL STEM TEST REPORT

RJM Company
 Po Box 256 Claflin KS 67525+0256
 ATTN: Kurt

9-22-14 Stafford
Patty Rose #1
 Job Ticket: 16977 **DST#: 1**
 Test Start: 2012.11.26 @ 12:35:00

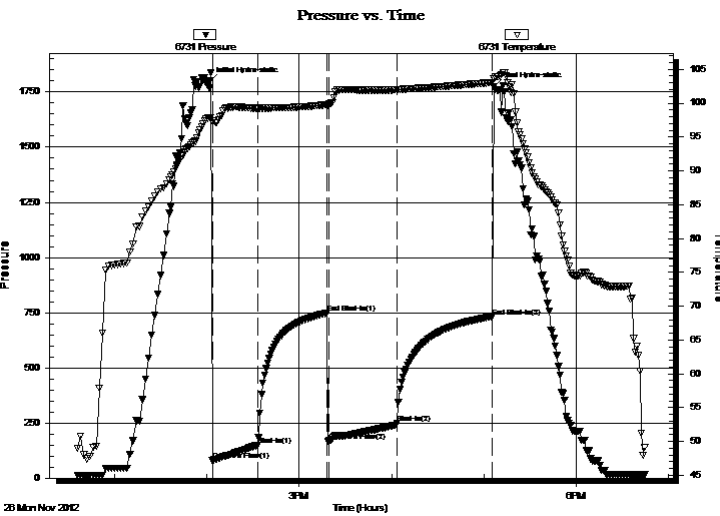
GENERAL INFORMATION:

Formation: **Lansing H,I,J**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 14:03:30
 Time Test Ended: 18:45:00
 Interval: **3588.00 ft (KB) To 3650.00 ft (KB) (TVD)**
 Total Depth: 3650.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Poor
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Jared Scheck
 Unit No: 3320-Great Bend-40
 Reference Elevations: 1951.00 ft (KB)
 1944.00 ft (CF)
 KB to GR/CF: 7.00 ft

Serial #: 6731

Press @ RunDepth: 248.40 psia @ ft (KB) Capacity: 5000.00 psia
 Start Date: 2012.11.26 End Date: 2012.11.26 Last Calib.: 2012.11.26
 Start Time: 12:36:00 End Time: 18:45:00 Time On Btm: 2012.11.26 @ 14:02:00
 Time Off Btm: 2012.11.26 @ 17:06:30

TEST COMMENT: 1st Opening 30 Minutes-Strong blow built bottom of bucket in 5 minutes
 1st Shut-in 45 Minutes-4 inch b low back
 2nd Opening 45 Minutes-Strong blow built bottom of bucket in 10 minutes
 2nd Shut-in 60 Minutes-4 inch blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1799.28	97.83	Initial Hydro-static
2	79.05	97.31	Open To Flow (1)
31	149.51	99.22	Shut-In(1)
76	748.84	99.77	End Shut-In(1)
77	167.06	99.69	Open To Flow (2)
122	248.40	101.97	Shut-In(2)
184	732.70	103.06	End Shut-In(2)
185	1776.18	103.62	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
180.00	10%gas 15%oil 35%w ater 40%mud	2.52
210.00	muddy w ater 50%w ater 50%mud	2.95
0.00	chlorides 70,000 rseistivity .2@65degree	0.00
300.00	gas in pipe	4.21

Gas Rates

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



DRILL STEM TEST REPORT

RJM Company
 Po Box 256 Claflin KS 67525+0256
 ATTN: Kurt

9-22-14 Stafford
Patty Rose #1
 Job Ticket: 16977 **DST#: 1**
 Test Start: 2012.11.26 @ 12:35:00

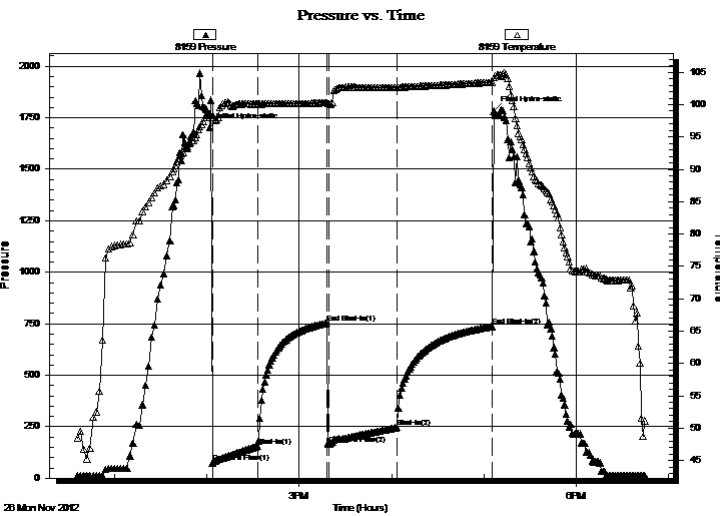
GENERAL INFORMATION:

Formation: **Lansing H,I,J**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 14:03:30
 Time Test Ended: 18:45:00
 Interval: **3588.00 ft (KB) To 3650.00 ft (KB) (TVD)**
 Total Depth: 3650.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Poor
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Jared Scheck
 Unit No: 3320-Great Bend-40
 Reference Elevations: 1951.00 ft (KB)
 1944.00 ft (CF)
 KB to GR/CF: 7.00 ft

Serial #: 8159

Press @ Run Depth: 736.98 psia @ ft (KB) Capacity: 5000.00 psia
 Start Date: 2012.11.26 End Date: 2012.11.26 Last Calib.: 2012.11.26
 Start Time: 12:36:00 End Time: 18:45:00 Time On Btm: 2012.11.26 @ 14:02:00
 Time Off Btm: 2012.11.26 @ 17:06:30

TEST COMMENT: 1st Opening 30 Minutes-Strong blow built bottom of bucket in 5 minutes
 1st Shut-in 45 Minutes-4 inch b low back
 2nd Opening 45 Minutes-Strong blow built bottom of bucket in 10 minutes
 2nd Shut-in 60 Minutes-4 inch blow back



PRESSURE SUMMARY

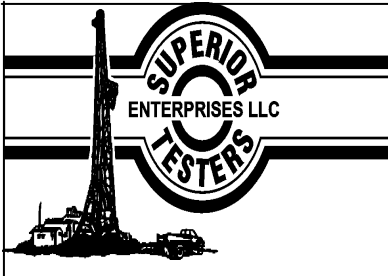
Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1702.58	98.41	Initial Hydro-static
2	74.81	98.08	Open To Flow (1)
31	155.56	100.05	Shut-In(1)
76	753.86	100.32	End Shut-In(1)
77	164.94	100.16	Open To Flow (2)
122	246.03	102.63	Shut-In(2)
184	736.98	103.48	End Shut-In(2)
185	1782.58	104.19	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
180.00	10%gas 15%oil 35%w ater 40%mud	2.52
210.00	muddy w ater 50%w ater 50%mud	2.95
0.00	chlorides 70,000 rseistivity .2@65degree	0.00
300.00	gas in pipe	4.21

Gas Rates

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



DRILL STEM TEST REPORT

TOOL DIAGRAM

RJM Company
 Po Box 256 Claflin KS 67525+0256
 ATTN: Kurt

9-22-14 Stafford
Patty Rose #1
 Job Ticket: 16977 **DST#: 1**
 Test Start: 2012.11.26 @ 12:35:00

Tool Information

Drill Pipe:	Length: 3599.00 ft	Diameter: 3.80 inches	Volume: 50.48 bbl	Tool Weight: 1000.00 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: 42000.00 lb
			<u>Total Volume: 50.48 bbl</u>	Tool Chased 2.00 ft
Drill Pipe Above KB:	31.00 ft			String Weight: Initial 38000.00 lb
Depth to Top Packer:	3588.00 ft			Final 39000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	62.00 ft			
Tool Length:	82.00 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			3573.00	
Hydraulic Tool	5.00			3578.00	
Packer	5.00			3583.00	20.00 Bottom Of Top Packer
Packer	5.00			3588.00	
Anchor	5.00			3593.00	
Change Over Sub	0.75			3593.75	
Drill Pipe	32.50			3626.25	
Change Over Sub	0.75			3627.00	
Anchor	18.00			3645.00	
Recorder	1.00	6731	Inside	3646.00	
Recorder	1.00	8159	Outside	3647.00	
Bullnose	3.00			3650.00	62.00 Bottom Packers & Anchor

Total Tool Length: 82.00



DRILL STEM TEST REPORT

FLUID SUMMARY

RJM Company
 Po Box 256 Claflin KS 67525+0256
 ATTN: Kurt

9-22-14 Stafford
Patty Rose #1
 Job Ticket: 16977 **DST#: 1**
 Test Start: 2012.11.26 @ 12:35:00

Mud and Cushion Information

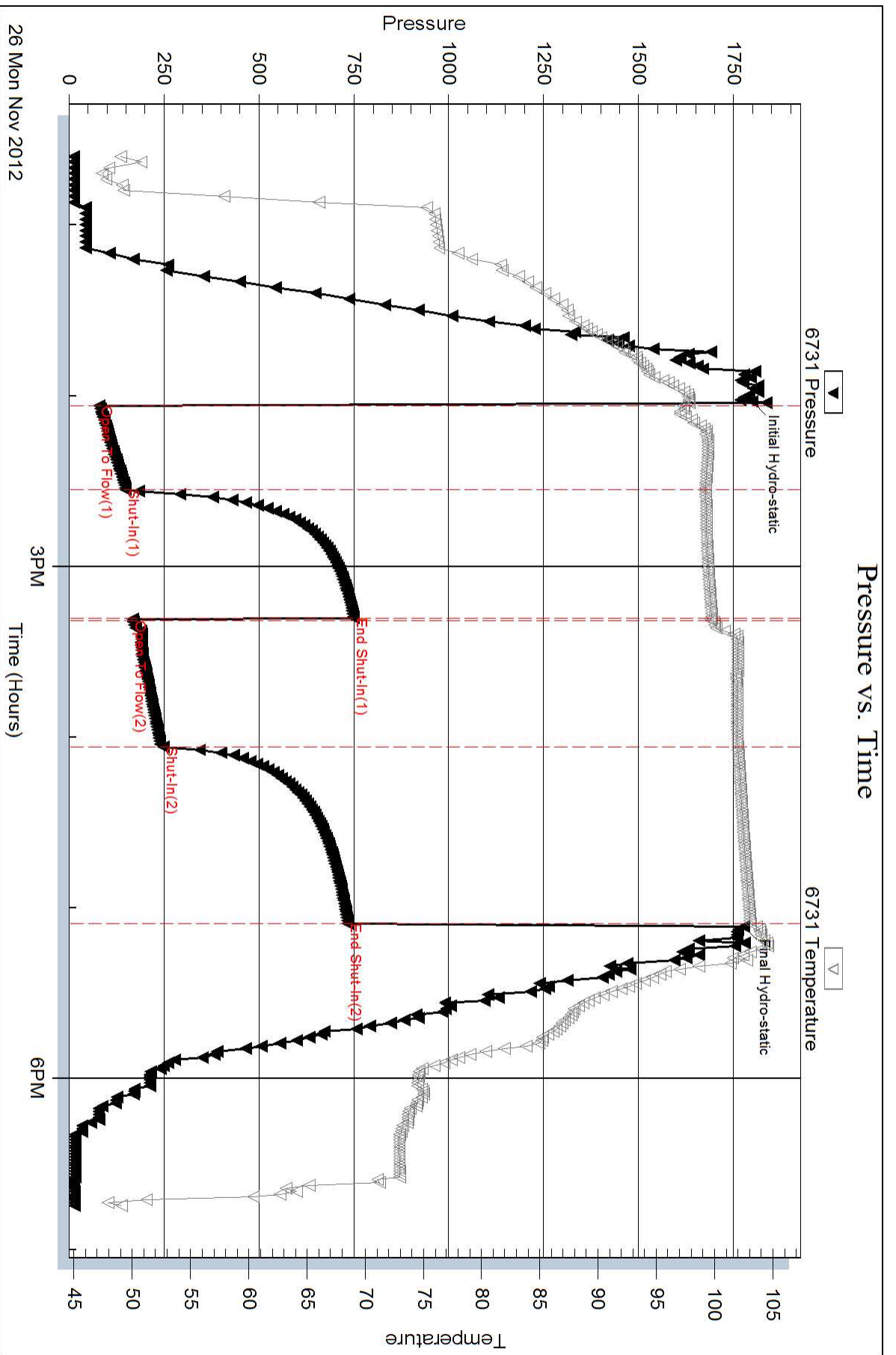
Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	ppm
Viscosity: 55.00 sec/qt	Cushion Volume: bbl		
Water Loss: 8.78 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psia		
Salinity: 2000.00 ppm			
Filter Cake: 1.00 inches			

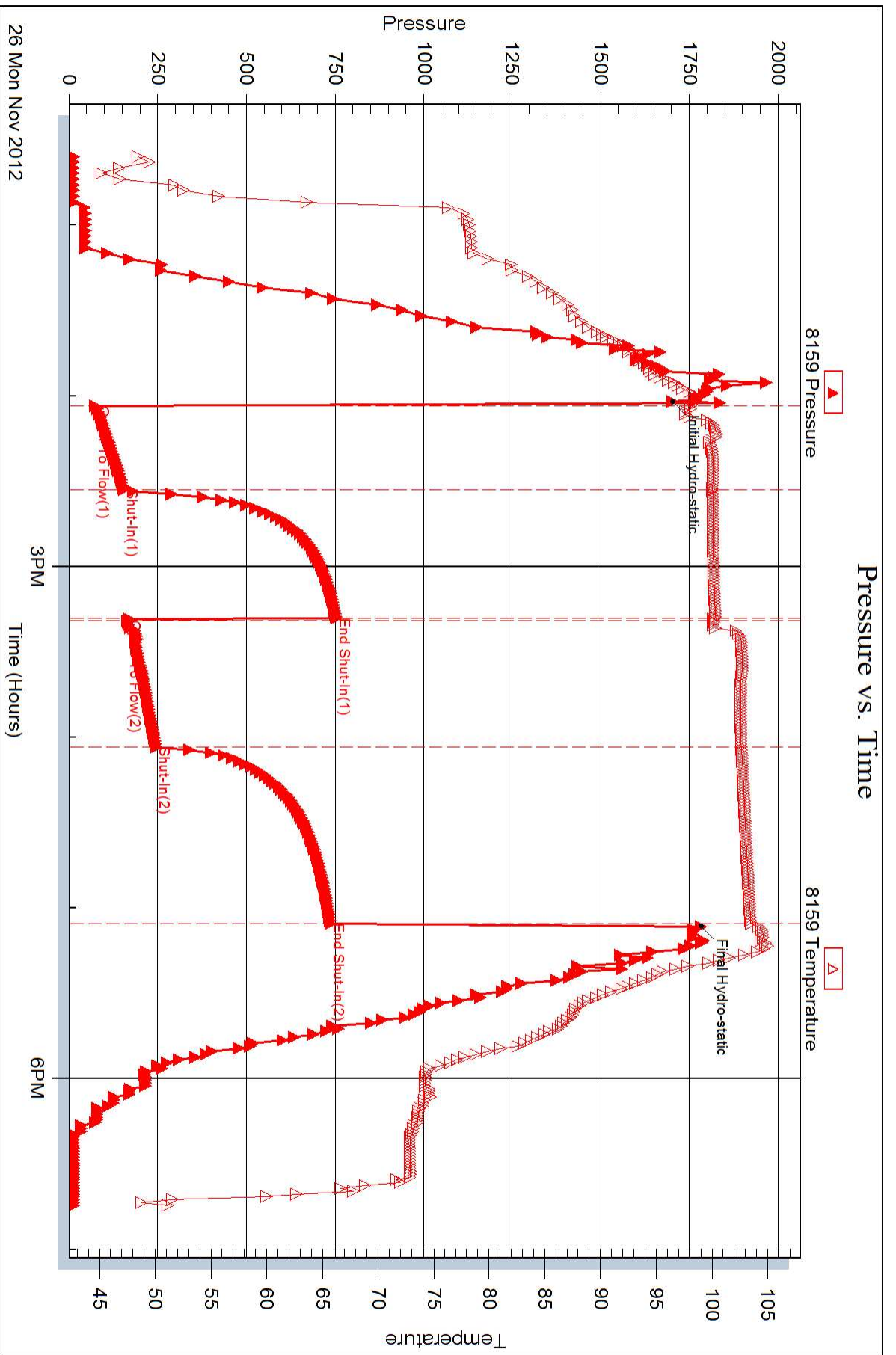
Recovery Information

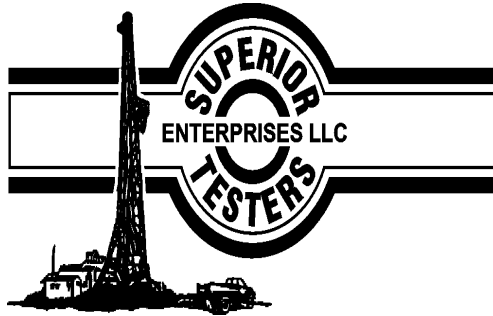
Recovery Table

Length ft	Description	Volume bbl
180.00	10%gas 15%oil 35%water 40%mud	2.525
210.00	muddy water 50%water 50%mud	2.946
0.00	chlorides 70,000 resistivity .2@65degree	0.000
300.00	gas in pipe	4.208

Total Length: 690.00 ft Total Volume: 9.679 bbl
 Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
 Laboratory Name: Laboratory Location:
 Recovery Comments:







DRILL STEM TEST REPORT

Prepared For: **RJM Company**

Po Box 256 Claflin KS 67525+0256

ATTN: Kurt

Patty Rose #1

9-22-14 Stafford

Start Date: 2012.11.27 @ 01:39:08

End Date: 2012.11.27 @ 08:10:38

Job Ticket #: 16978 DST #: 2

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

Printed: 2012.12.01 @ 16:16:54



DRILL STEM TEST REPORT

RJM Company
 Po Box 256 Claflin KS 67525+0256
 ATTN: Kurt

9-22-14 Stafford
Patty Rose #1
 Job Ticket: 16978 **DST#: 2**
 Test Start: 2012.11.27 @ 01:39:08

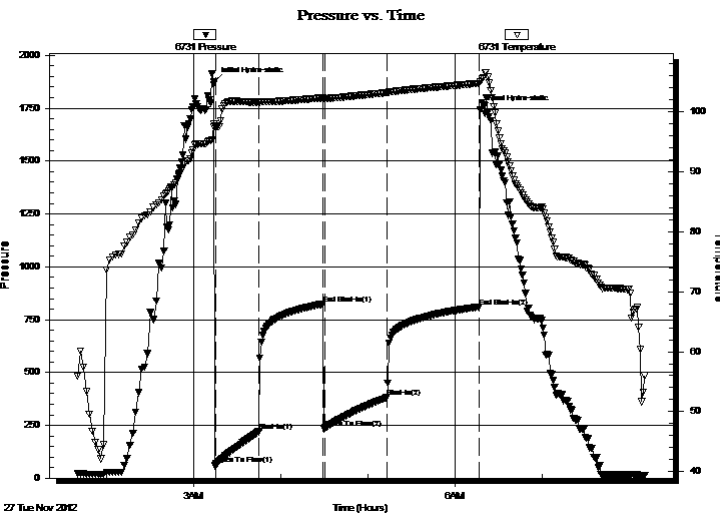
GENERAL INFORMATION:

Formation: **Lansing K**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 03:15:08
 Time Test Ended: 08:10:38
 Interval: **3648.00 ft (KB) To 3680.00 ft (KB) (TVD)**
 Total Depth: 3680.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Jared Scheck
 Unit No: 3320-Great Bend-40
 Reference Elevations: 1951.00 ft (KB)
 1944.00 ft (CF)
 KB to GR/CF: 7.00 ft

Serial #: 6731

Press @ Run Depth: 381.51 psia @ ft (KB) Capacity: 5000.00 psia
 Start Date: 2012.11.27 End Date: 2012.11.27 Last Calib.: 2012.11.27
 Start Time: 01:40:08 End Time: 08:10:38 Time On Btm: 2012.11.27 @ 03:14:08
 Time Off Btm: 2012.11.27 @ 06:17:38

TEST COMMENT: 1st Opening 30 Minutes-Strong blow built bottom of bucket in 7 minutes
 1st Shut-in 45 Minutes-Weak surface blow 1/2 inch
 2nd Opening 45 Minutes-Strong blow built bottom of bucket in 10 minutes
 2nd Shut-in 60 Minutes-Blow back 1 inch



PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1877.94	98.02	Initial Hydro-static
1	63.79	97.60	Open To Flow (1)
31	222.40	101.56	Shut-In(1)
75	824.24	102.34	End Shut-In(1)
76	235.74	102.21	Open To Flow (2)
119	381.51	103.20	Shut-In(2)
183	809.89	104.75	End Shut-In(2)
184	1743.50	105.01	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
4.00	oil	0.06
840.00	w ater 10% mud 90% w ater	11.78
0.00	Gravity oil 55	0.00
0.00	chlorides 75,000 resistivity .3 @ 55 deg	0.00

Gas Rates

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



DRILL STEM TEST REPORT

TOOL DIAGRAM

RJM Company
 Po Box 256 Claflin KS 67525+0256
 ATTN: Kurt

9-22-14 Stafford
Patty Rose #1
 Job Ticket: 16978 **DST#: 2**
 Test Start: 2012.11.27 @ 01:39:08

Tool Information

Drill Pipe:	Length: 3632.00 ft	Diameter: 3.80 inches	Volume: 50.95 bbl	Tool Weight:	1000.00 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:	42000.00 lb
			<u>Total Volume: 50.95 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	4.00 ft			String Weight: Initial	38000.00 lb
Depth to Top Packer:	3648.00 ft			Final	38000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	32.00 ft				
Tool Length:	52.00 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			3633.00	
Hydraulic Tool	5.00			3638.00	
Packer	5.00			3643.00	20.00 Bottom Of Top Packer
Packer	5.00			3648.00	
Anchor	27.00			3675.00	
Recorder	1.00	6731	Inside	3676.00	
Recorder	1.00	8159	Outside	3677.00	
Bullnose	3.00			3680.00	32.00 Bottom Packers & Anchor

Total Tool Length: 52.00



DRILL STEM TEST REPORT

FLUID SUMMARY

RJM Company
 Po Box 256 Claflin KS 67525+0256
 ATTN: Kurt

9-22-14 Stafford
Patty Rose #1
 Job Ticket: 16978 **DST#: 2**
 Test Start: 2012.11.27 @ 01:39:08

Mud and Cushion Information

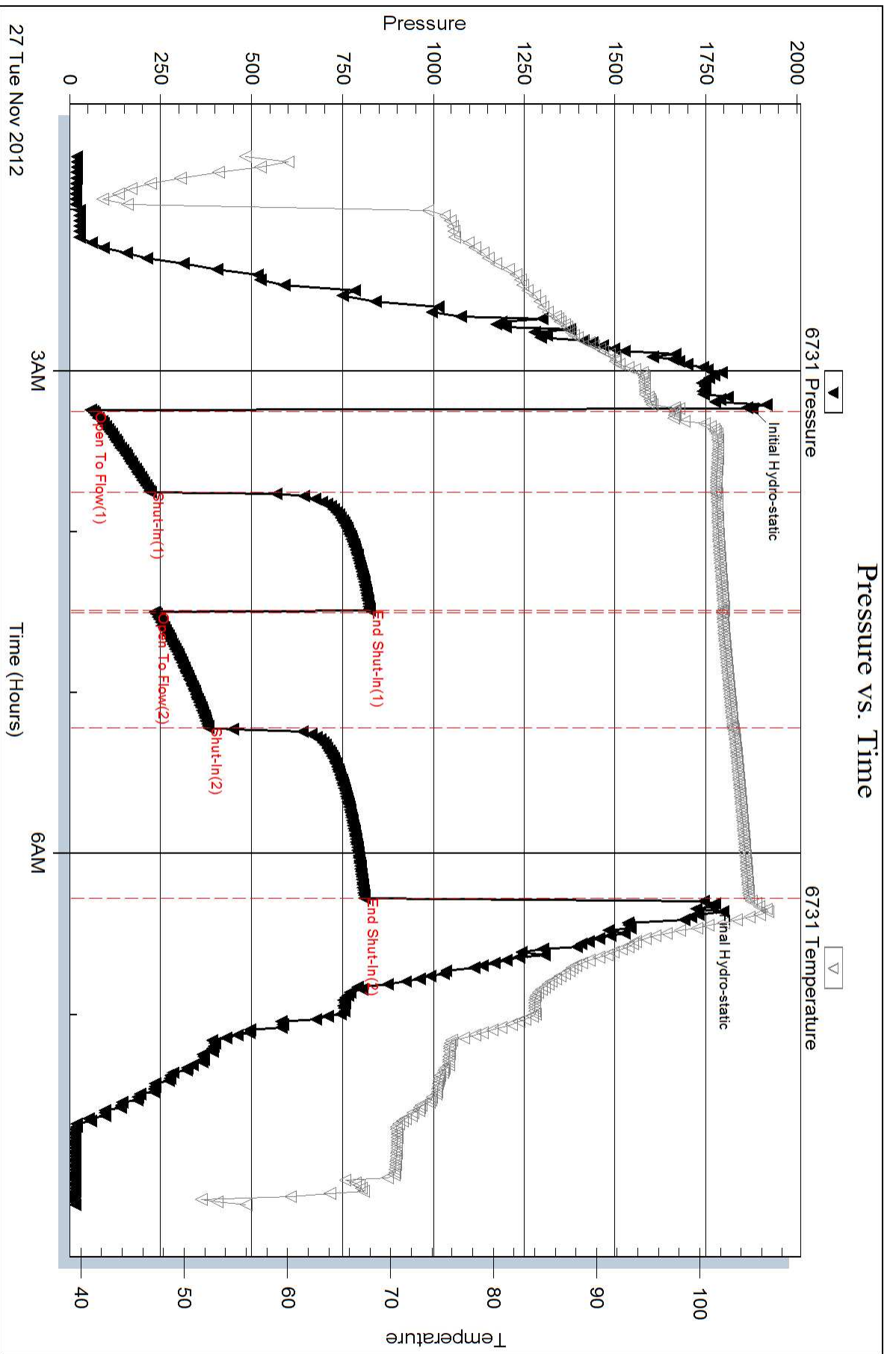
Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	ppm
Viscosity: 55.00 sec/qt	Cushion Volume: bbl		
Water Loss: 8.79 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psia		
Salinity: 2000.00 ppm			
Filter Cake: 1.00 inches			

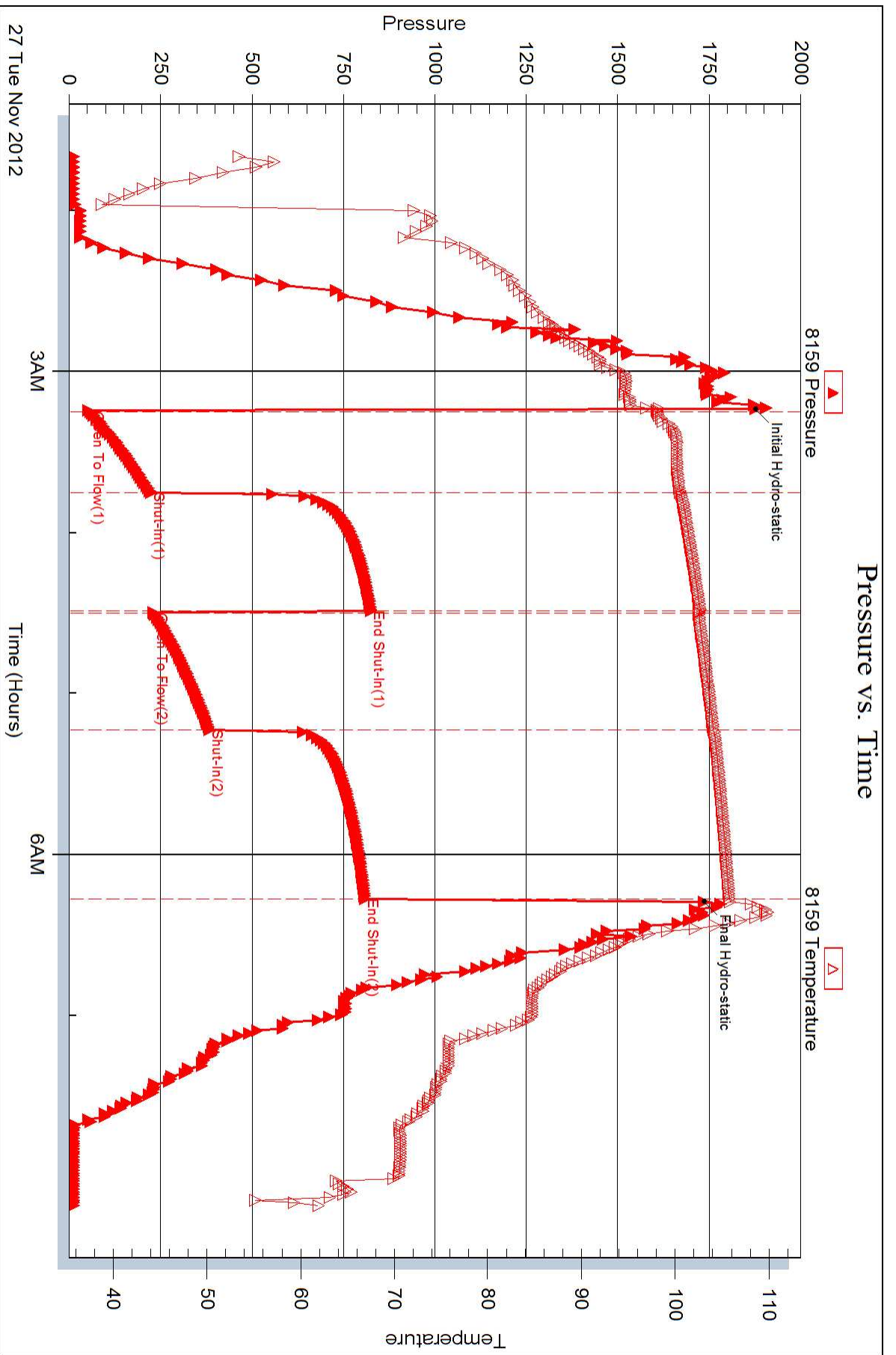
Recovery Information

Recovery Table

Length ft	Description	Volume bbl
4.00	oil	0.056
840.00	w ater 10%mud 90%w ater	11.783
0.00	Gravityoil 55	0.000
0.00	chlorides 75,000 resistgivity .3@ 55 deg	0.000

Total Length: 844.00 ft Total Volume: 11.839 bbl
 Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
 Laboratory Name: Laboratory Location:
 Recovery Comments:







DRILL STEM TEST REPORT

Prepared For: **RJM Company**

Po Box 256 Claflin KS 67525+0256

ATTN: Kurt

Patty Rose #1

9-22-14 Stafford

Start Date: 2012.11.28 @ 00:45:00

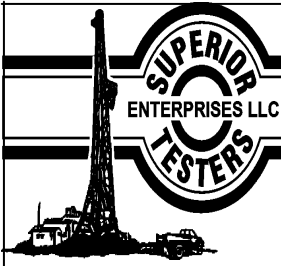
End Date: 2012.11.28 @ 05:40:30

Job Ticket #: 16979 DST #: 3

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

Printed: 2012.11.28 @ 05:53:28

RJM Company
9-22-14 Stafford
Patty Rose #1
DST # 3
Simpson Sand
2012.11.28



DRILL STEM TEST REPORT

RJM Company
 Po Box 256 Claflin KS 67525+0256
 ATTN: Kurt

9-22-14 Stafford
Patty Rose #1
 Job Ticket: 16979 **DST#: 3**
 Test Start: 2012.11.28 @ 00:45:00

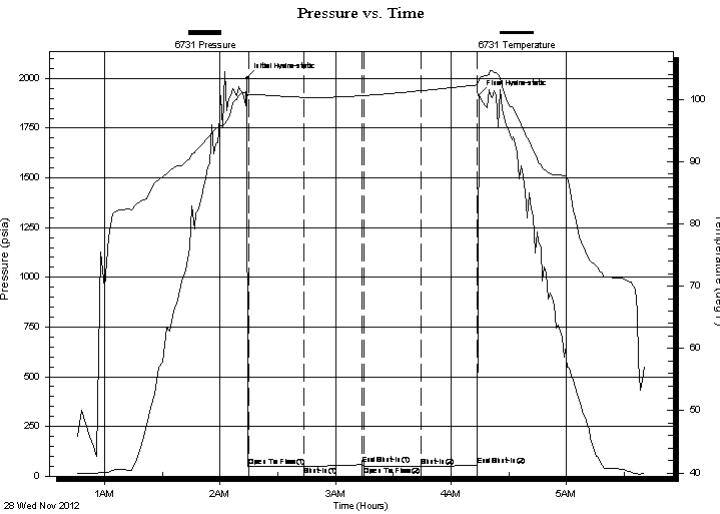
GENERAL INFORMATION:

Formation: **Simpson Sand**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 02:15:00
 Time Test Ended: 05:40:30
 Interval: **3811.00 ft (KB) To 3853.00 ft (KB) (TVD)**
 Total Depth: 3853.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Jared Scheck
 Unit No: 3320-Great Bend-40
 Reference Elevations: 1951.00 ft (KB)
 1944.00 ft (CF)
 KB to GR/CF: 7.00 ft

Serial #: 6731

Press@RunDepth: 49.24 psia @ ft (KB) Capacity: 5000.00 psia
 Start Date: 2012.11.28 End Date: 2012.11.28 Last Calib.: 2012.11.28
 Start Time: 00:45:00 End Time: 05:40:30 Time On Btm: 2012.11.28 @ 02:14:00
 Time Off Btm: 2012.11.28 @ 04:14:30

TEST COMMENT: 1st Opening 30 Minutes-Weak blow built 1/2 inch into bucket w ater died off
 1st Shut-in 30 Minutes-No blow back
 2nd Opening 30 Minutes-Weak surge did not build
 2nd Shut-in 30 Minutes-No blow back



PRESSURE SUMMARY

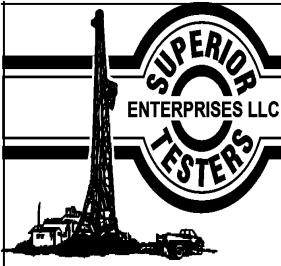
Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	2002.47	101.03	Initial Hydro-static
1	47.48	100.73	Open To Flow (1)
30	49.83	100.33	Shut-In(1)
60	57.12	100.58	End Shut-In(1)
61	48.35	100.59	Open To Flow (2)
91	49.24	101.39	Shut-In(2)
120	54.48	102.31	End Shut-In(2)
121	1918.39	103.25	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
1.00	mud	0.01

Gas Rates

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



DRILL STEM TEST REPORT

RJM Company
 Po Box 256 Claflin KS 67525+0256
 ATTN: Kurt

9-22-14 Stafford
Patty Rose #1
 Job Ticket: 16979 **DST#: 3**
 Test Start: 2012.11.28 @ 00:45:00

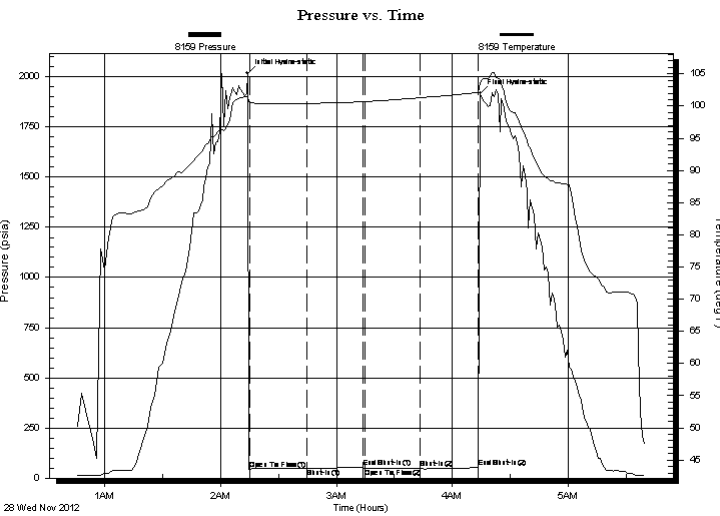
GENERAL INFORMATION:

Formation: **Simpson Sand**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 02:15:00
 Time Test Ended: 05:40:30
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Jared Scheck
 Unit No: 3320-Great Bend-40
 Interval: **3811.00 ft (KB) To 3853.00 ft (KB) (TVD)**
 Reference Elevations: 1951.00 ft (KB)
 Total Depth: 3853.00 ft (KB) (TVD)
 1944.00 ft (CF)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 KB to GR/CF: 7.00 ft

Serial #: 8159

Press@RunDepth: 52.35 psia @ ft (KB) Capacity: 5000.00 psia
 Start Date: 2012.11.28 End Date: 2012.11.28 Last Calib.: 2012.11.28
 Start Time: 00:45:00 End Time: 05:40:00 Time On Btm: 2012.11.28 @ 02:14:00
 Time Off Btm: 2012.11.28 @ 04:14:30

TEST COMMENT: 1st Opening 30 Minutes-Weak blow built 1/2 inch into bucket w ater died off
 1st Shut-in 30 Minutes-No blow back
 2nd Opening 30 Minutes-Weak surge did not build
 2nd Shut-in 30 Minutes-No blow back



PRESSURE SUMMARY

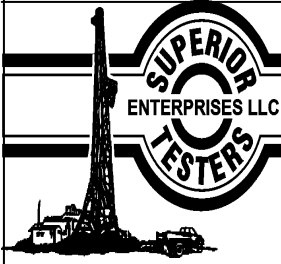
Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	2018.09	101.54	Initial Hydro-static
1	45.37	100.66	Open To Flow (1)
31	48.01	100.42	Shut-In(1)
60	55.36	100.67	End Shut-In(1)
61	46.92	100.68	Open To Flow (2)
89	48.14	101.27	Shut-In(2)
120	52.35	102.09	End Shut-In(2)
121	1916.95	103.67	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
1.00	mud	0.01

Gas Rates

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



DRILL STEM TEST REPORT

TOOL DIAGRAM

RJM Company
 Po Box 256 Claflin KS 67525+0256
 ATTN: Kurt

9-22-14 Stafford
Patty Rose #1
 Job Ticket: 16979 **DST#: 3**
 Test Start: 2012.11.28 @ 00:45:00

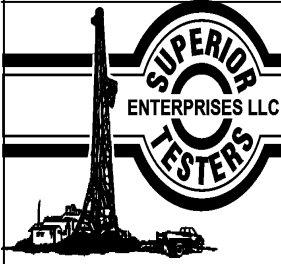
Tool Information

Drill Pipe:	Length: 3821.00 ft	Diameter: 3.80 inches	Volume: 53.60 bbl	Tool Weight:	1000.00 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:	45000.00 lb
			<u>Total Volume: 53.60 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	30.00 ft			String Weight: Initial	38000.00 lb
Depth to Top Packer:	3811.00 ft			Final	38000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	42.00 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
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Shut-In Tool	5.00			3796.00	
Hydraulic Tool	5.00			3801.00	
Packer	5.00			3806.00	20.00 Bottom Of Top Packer
Packer	5.00			3811.00	
Anchor	37.00			3848.00	
Recorder	1.00	6731	Inside	3849.00	
Recorder	1.00	8159	Outside	3850.00	
Bullnose	3.00			3853.00	42.00 Bottom Packers & Anchor

Total Tool Length: 62.00



DRILL STEM TEST REPORT

FLUID SUMMARY

RJM Company
 Po Box 256 Claflin KS 67525+0256
 ATTN: Kurt

9-22-14 Stafford
Patty Rose #1
 Job Ticket: 16979 **DST#: 3**
 Test Start: 2012.11.28 @ 00:45:00

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: 56.00 sec/qt	Cushion Volume: bbl		
Water Loss: 9.20 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psia		
Salinity: 4000.00 ppm			
Filter Cake: 1.00 inches			

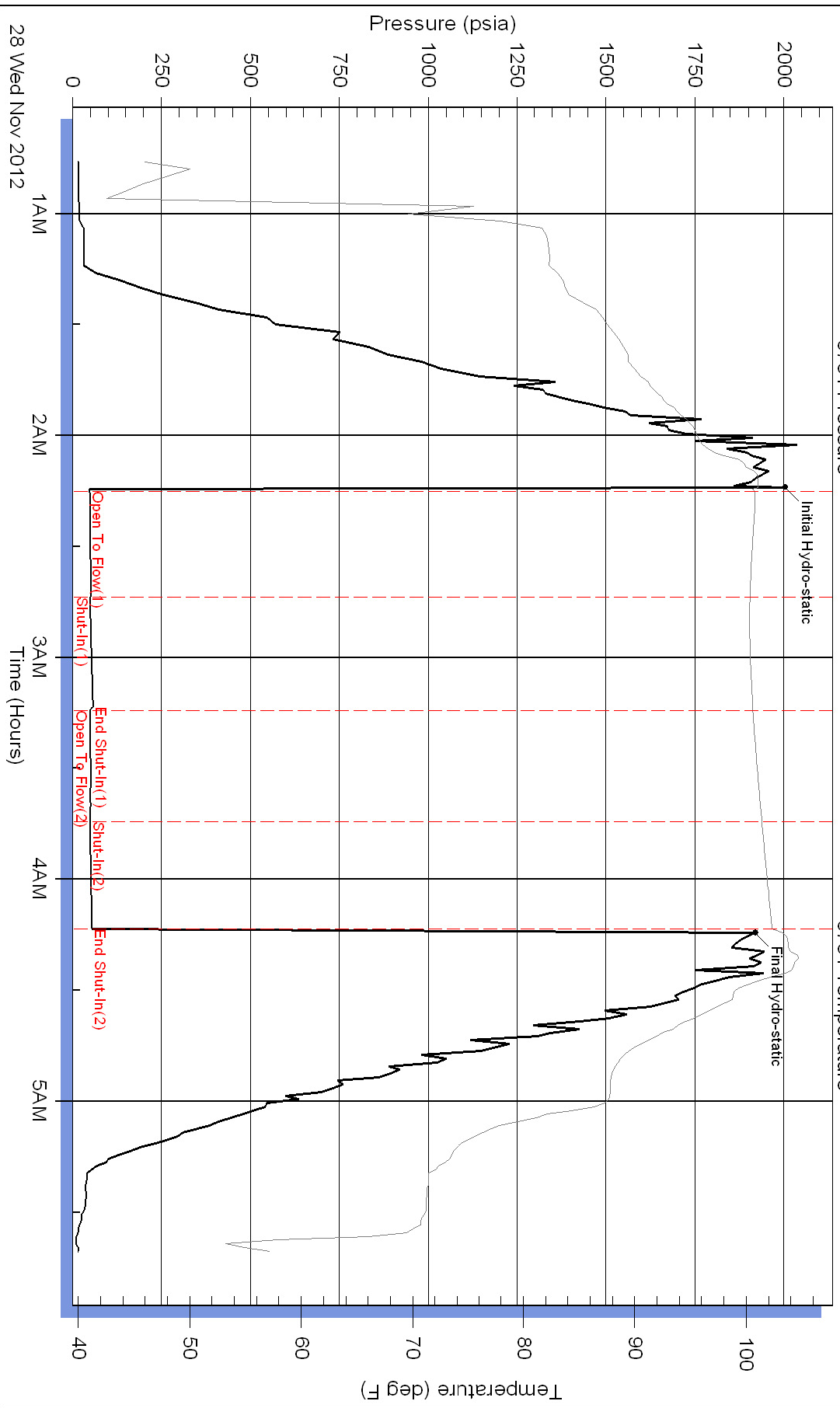
Recovery Information

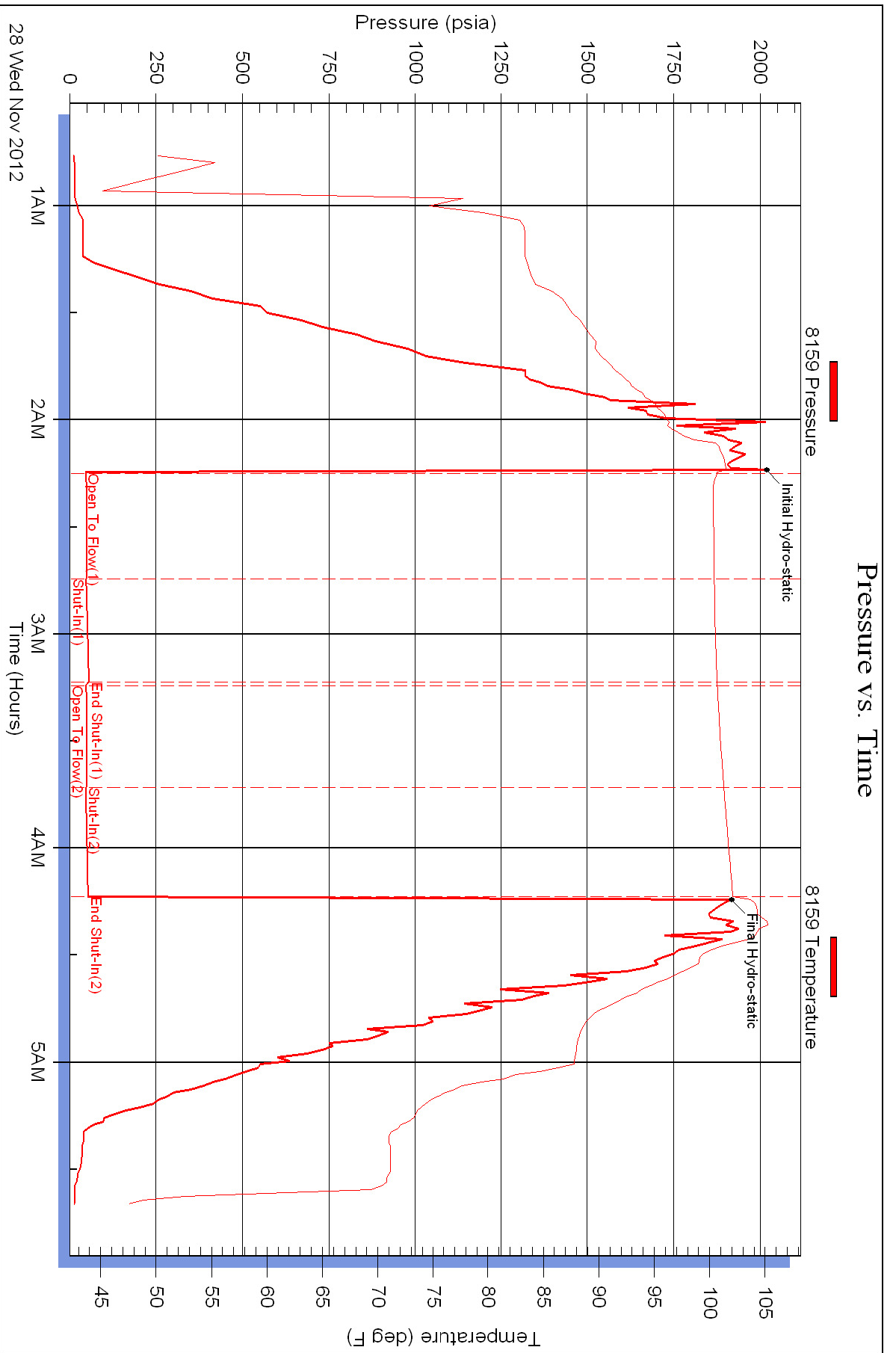
Recovery Table

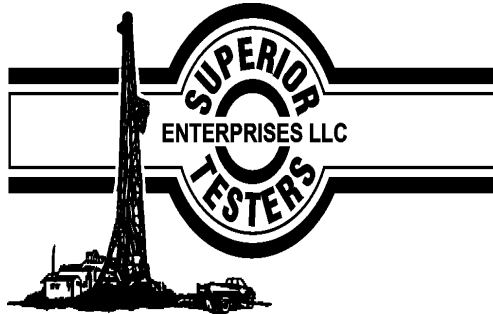
Length ft	Description	Volume bbl
1.00	mud	0.014

Total Length: 1.00 ft Total Volume: 0.014 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 KS 67525+0256

ATTN: Kurt

Patty Rose #1

9-22-14 Stafford

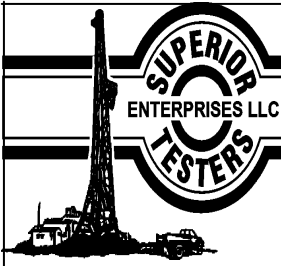
Start Date: 2012.11.28 @ 13:25:00

End Date: 2012.11.28 @ 19:33:30

Job Ticket #: 16980 DST #: 4

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

Printed: 2012.11.28 @ 19:53:19



DRILL STEM TEST REPORT

RJM Company
 Po Box 256 Claflin KS 67525+0256
 ATTN: Kurt

9-22-14 Stafford
Patty Rose #1
 Job Ticket: 16980 **DST#: 4**
 Test Start: 2012.11.28 @ 13:25:00

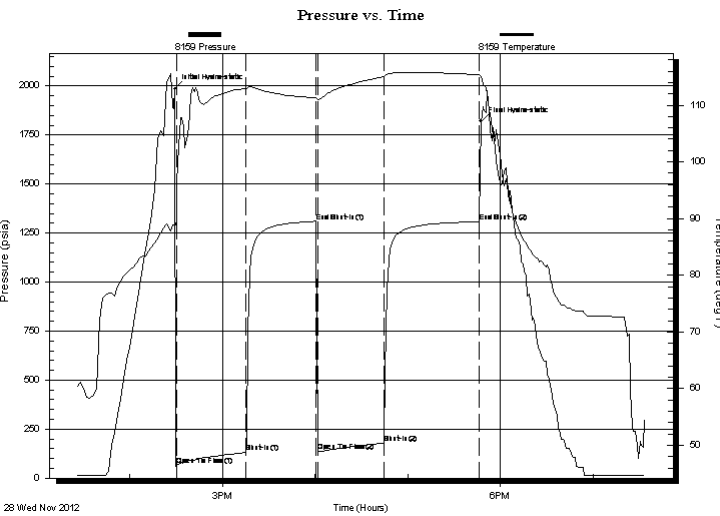
GENERAL INFORMATION:

Formation: **Arbuckle**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 14:30:00
 Time Test Ended: 19:33:30
Interval: 3810.00 ft (KB) To 3871.00 ft (KB) (TVD)
 Total Depth: 3871.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Jared Scheck
 Unit No: 3320-Great Bend-40
 Reference Elevations: 1951.00 ft (KB)
 1944.00 ft (CF)
 KB to GR/CF: 7.00 ft

Serial #: 8159

Press@RunDepth: 1307.62 psia @ ft (KB) Capacity: 5000.00 psia
 Start Date: 2012.11.28 End Date: 2012.11.28 Last Calib.: 2012.11.28
 Start Time: 13:25:00 End Time: 19:34:00 Time On Btm: 2012.11.28 @ 14:29:00
 Time Off Btm: 2012.11.28 @ 17:47:30

TEST COMMENT: 1st Opening 45 Minutes-Weak blow built bottom of bucket in 26 minutes
 1st Shut-in 45 Minutes-1/4 inch blow back
 2nd Opening 45 Minutes-Weak blow built bottom of bucket in 39 minutes
 2nd Shut-in 60 Minutes-1/4 inch blow back



PRESSURE SUMMARY

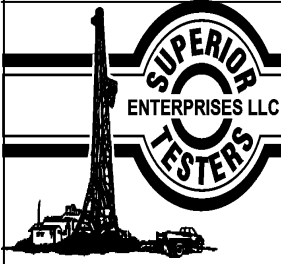
Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1985.87	89.00	Initial Hydro-static
1	64.76	89.74	Open To Flow (1)
46	131.83	112.91	Shut-In(1)
92	1309.36	111.31	End Shut-In(1)
93	136.14	110.95	Open To Flow (2)
136	179.97	115.04	Shut-In(2)
198	1307.62	115.41	End Shut-In(2)
199	1818.11	115.06	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
130.00	Clean oil 100%	1.82
120.00	oil mud 20%oil 80%mud	1.68
0.00	Gravity oil 50	0.00

Gas Rates

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



DRILL STEM TEST REPORT

TOOL DIAGRAM

RJM Company
 Po Box 256 Claflin KS 67525+0256
 ATTN: Kurt

9-22-14 Stafford
Patty Rose #1
 Job Ticket: 16980 **DST#: 4**
 Test Start: 2012.11.28 @ 13:25:00

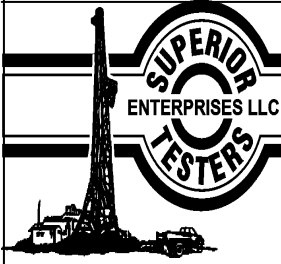
Tool Information

Drill Pipe:	Length: 3820.00 ft	Diameter: 3.80 inches	Volume: 53.58 bbl	Tool Weight: 1000.00 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: 70000.00 lb
			<u>Total Volume: 53.58 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	30.00 ft			String Weight: Initial 40000.00 lb
Depth to Top Packer:	3810.00 ft			Final 41000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	61.00 ft			
Tool Length:	81.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments: Ruined packer

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut-In Tool	5.00			3795.00	
Hydraulic Tool	5.00			3800.00	
Packer	5.00			3805.00	20.00 Bottom Of Top Packer
Packer	5.00			3810.00	
Anchor	5.00			3815.00	
Change Over Sub	0.75			3815.75	
Drill Pipe	31.50			3847.25	
Change Over Sub	0.75			3848.00	
Anchor	18.00			3866.00	
Recorder	1.00	6731	Inside	3867.00	
Recorder	1.00	8159	Outside	3868.00	
Bullnose	3.00			3871.00	61.00 Bottom Packers & Anchor

Total Tool Length: 81.00



DRILL STEM TEST REPORT

FLUID SUMMARY

RJM Company
 Po Box 256 Claflin KS 67525+0256
 ATTN: Kurt

9-22-14 Stafford
Patty Rose #1
 Job Ticket: 16980 **DST#: 4**
 Test Start: 2012.11.28 @ 13:25:00

Mud and Cushion Information

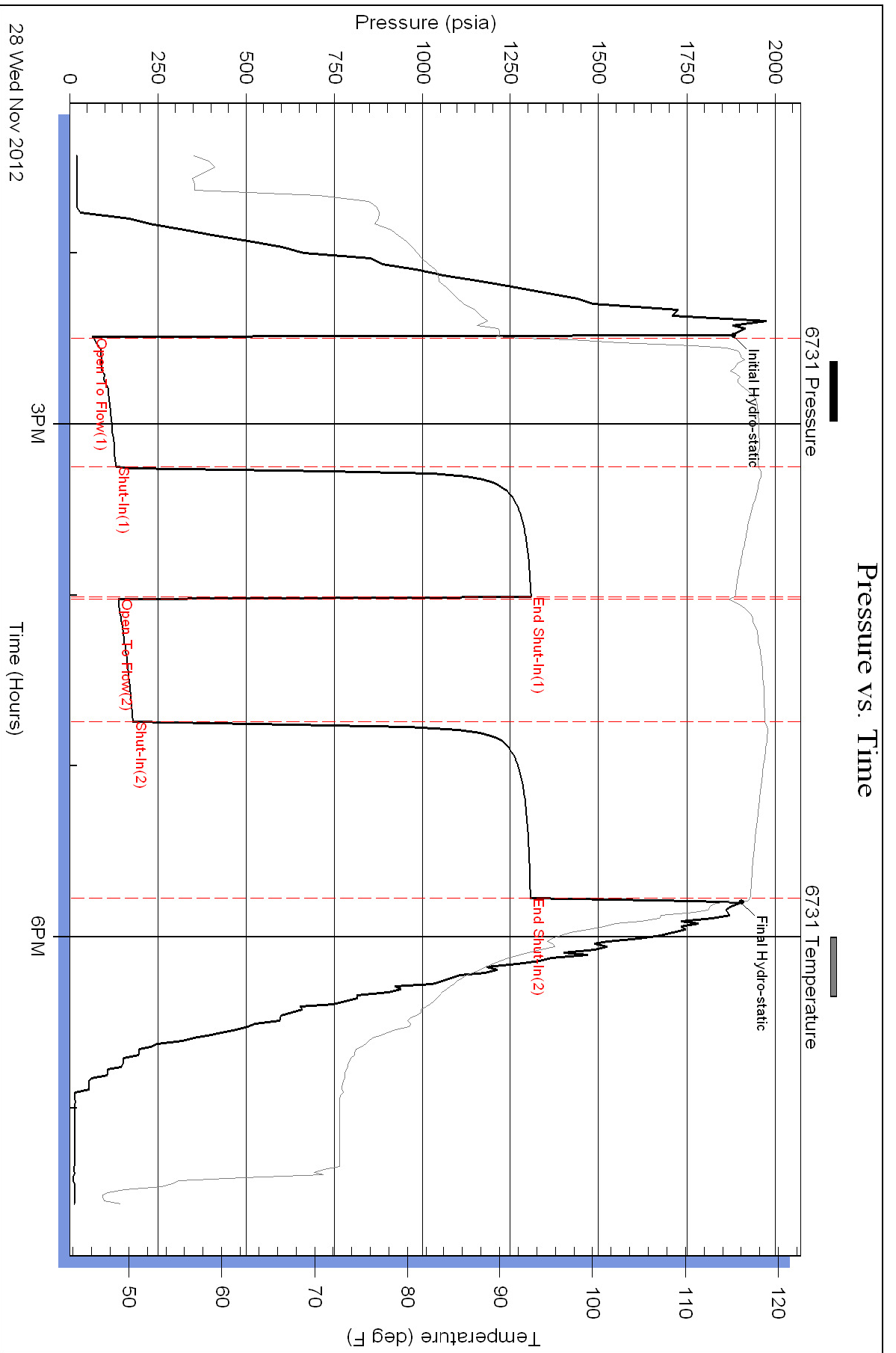
Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	ppm
Viscosity: 80.00 sec/qt	Cushion Volume: bbl		
Water Loss: 12.00 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psia		
Salinity: 8000.00 ppm			
Filter Cake: 1.00 inches			

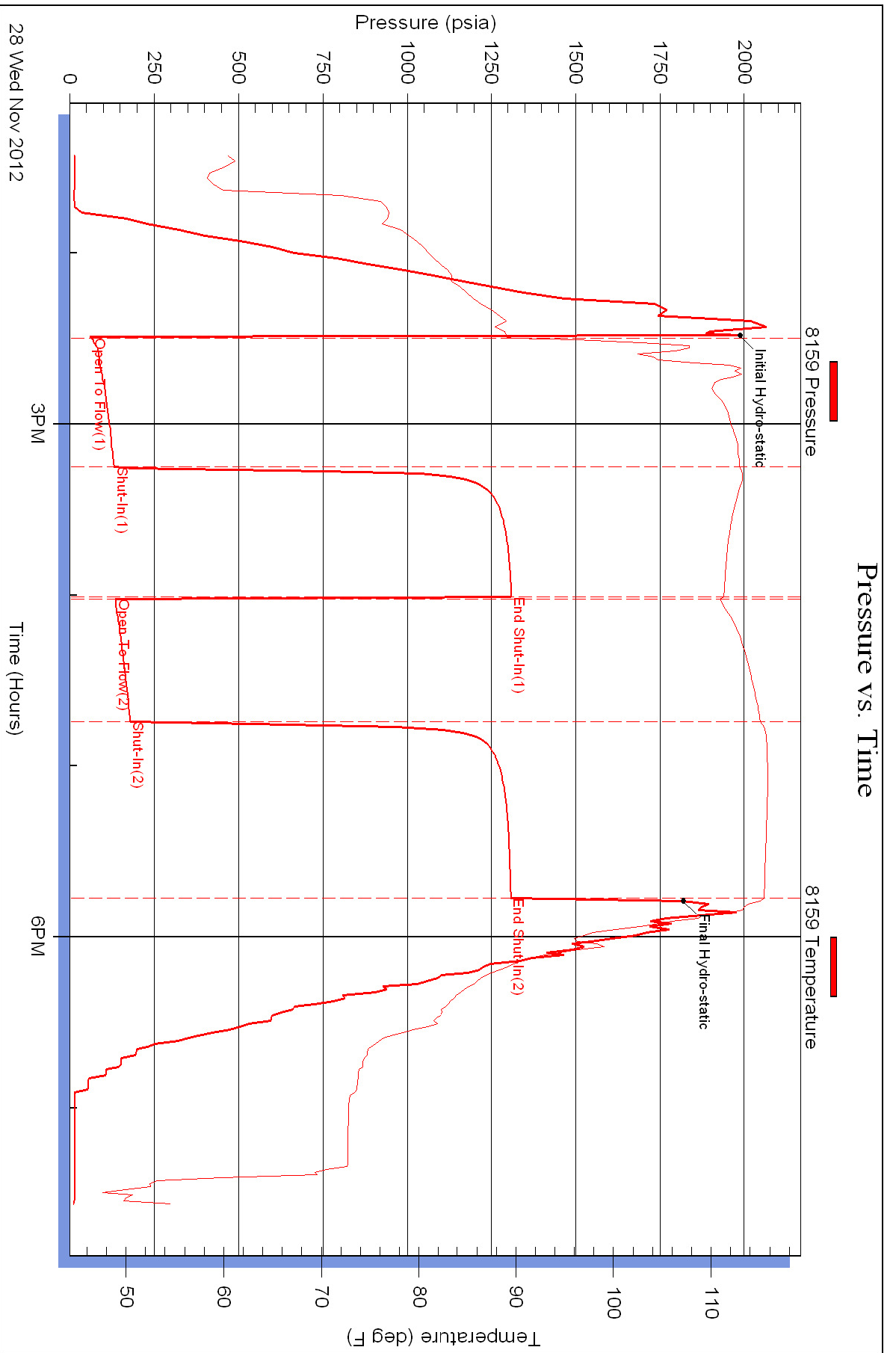
Recovery Information

Recovery Table

Length ft	Description	Volume bbl
130.00	Clean oil 100%	1.824
120.00	oil mud 20%oil 80%mud	1.683
0.00	Gravity oil 50	0.000

Total Length: 250.00 ft Total Volume: 3.507 bbl
 Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
 Laboratory Name: Laboratory Location:
 Recovery Comments: ruined packer





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



Phone: 316-337-6200
Fax: 316-337-6211
<http://kcc.ks.gov/>

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

Sam Brownback, Governor

January 31, 2013

Chris Hoffman
RJM Company
PO BOX 256
CLAFLIN, KS 67525-0256

Re: ACO1
API 15-185-23774-00-00
Patty Rose 1
SW/4 Sec.09-22S-14W
Stafford 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,
Chris Hoffman