



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1192667
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: _____

1192667

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

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> _____ <i>(Submit ACO-4)</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. 7110

Date	2-21-14	Sec.	16	Twp.	17	Range	11	County	Barton	State	KS	On Location		Finish	8:30 PM
------	---------	------	----	------	----	-------	----	--------	--------	-------	----	-------------	--	--------	---------

Location *Clafin, 3N, 1/4W, N12*

Lease	<i>Gibbler</i>	Well No.	1	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	<i>Royal #2</i>			Charge To	<i>RJM</i>
Type Job	<i>Surface</i>			Street	
Hole Size	<i>12 1/4</i>	T.D.	<i>348</i>	City	State
Csg.	<i>8 5/8</i>	Depth	<i>348</i>	The above was done to satisfaction and supervision of owner agent or contractor.	
Tbg. Size		Depth		Cement Amount Ordered <i>180 sxc com, 3% cc, 2% gel</i>	
Tool		Depth			
Cement Left in Csg.		Shoe Joint	<i>20</i>		
Meas Line		Displace	<i>20 bbl</i>		

EQUIPMENT

Pumptrk	<i>17</i>	No.	Cementer		Common
			Helper	<i>Nick</i>	Poz. Mix
Bulktrk	<i>12</i>	No.	Driver		Gel.
			Driver	<i>Chad Ryan</i>	Calcium
Bulktrk	<i>P4</i>	No.	Driver		
			Driver	<i>Travis</i>	

JOB SERVICES & REMARKS

Remarks:	<i>cement did circulate</i>	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	

FLOAT EQUIPMENT

	Guide Shoe	
	Centralizer	
	Baskets	
	AFU Inserts	
	Float Shoe	
	Latch Down	

	Pumptrk Charge	
	Mileage	
		Tax
		Discount
		Total Charge

[Handwritten Signature]

X
Signature

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. 7078

Date	2-27-14	Sec.	Twp.	Range	County	State	On Location	Finish
					Barton	KS		12:00 AM
					Location Clafin 3N 1/4 W N10			
Lease	Gibbeler	Well No. #1			Owner			
Contractor	Royal #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 string				Charge To RJM			
Hole Size	7 7/8	T.D.	3270'					
Csg.	5 1/2	Depth	3265		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.	20.91	Shoe Joint	20.91		Cement Amount Ordered 180 rem 10% salt 5% Gilsom			
Meas Line	Displace							
EQUIPMENT					Common			
Pumptrk	17	No.	Cementer	Nick	Poz. Mix			
			Helper					
Bulktrk.	1	No.	Driver	Doug	Gel.			
			Driver					
Bulktrk	PU	No.	Driver	Brett	Calcium			
			Driver					
JOB SERVICES & REMARKS					Hulls			
Remarks:					Salt			
Rat Hole	- 30x				Flowseal			
Mouse Hole	- 15x				Kol-Seal			
Centralizers	- 1-9				Mud CLR 48 - 500 gal			
Baskets	- 2 & 5				CFL-117 or CD110 CAF 38			
D/V or Port Collar					Sand			
					Handling			
					Mileage			
Mix 500 gal Mud Flush					5 1/2 FLOAT EQUIPMENT			
Plugged Rat & Mouse					Guide Shoe			
Mix 135 sx down 5 1/2					Centralizer - 9			
Displaced 77 1/4 bbl					Baskets - 2			
Lift Pressure 600 lbs					AFU Inserts			
Landed @ 1500 lbs					Float Shoe - 1			
Plug held					Latch Down - 1			
					Rubber Plug - 1			
					Pumptrk Charge			
					Mileage			
					Tax			
					Discount			
					Total Charge			

X Signature

Blake



DRILL STEM TEST REPORT

Prepared For: **RJM Company**

Po Box 256 Claflin KS 67525+0256

ATTN: Clint

Gibber #1

16-17s-11w Barton

Start Date: 2014.02.25 @ 08:02:00

End Date: 2014.02.25 @ 14:04:00

Job Ticket #: 19138 DST #: 1

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

Printed: 2014.02.25 @ 14:26:26



DRILL STEM TEST REPORT

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

16-17s-11w Barton
Gibber #1
 Job Ticket: 19138 **DST#: 1**
 Test Start: 2014.02.25 @ 08:02:00

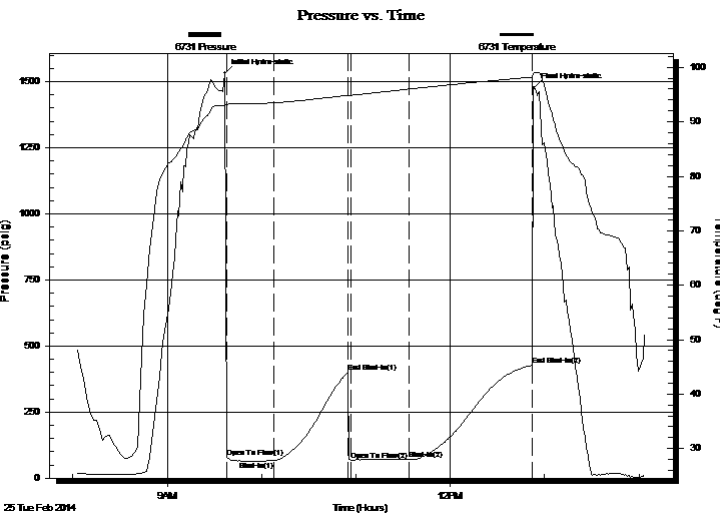
GENERAL INFORMATION:

Formation: **C zone**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 09:37:30
 Time Test Ended: 14:04:00
 Interval: **2993.00 ft (KB) To 3060.00 ft (KB) (TVD)**
 Total Depth: 3060.00 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-
 Reference Elevations: 1827.00 ft (KB)
 1820.00 ft (CF)
 KB to GR/CF: 7.00 ft

Serial #: 6731

Press@RunDepth: 71.65 psig @ ft (KB) Capacity: 5000.00 psig
 Start Date: 2014.02.25 End Date: 2014.02.25 Last Calib.: 2014.02.25
 Start Time: 08:02:00 End Time: 14:04:00 Time On Btm: 2014.02.25 @ 09:36:30
 Time Off Btm: 2014.02.25 @ 12:53:00

TEST COMMENT: 1st Opening 30 Minutes-Fair blow built 10 inches into bucket w ater in 30 minutes
 1st Shut-in 45 Minutes-No blow back
 2nd Opening 45 Minutes-Fair blow built 10 inches into bucket in 10 minutes
 2nd Shut-in 60 Minutes-No blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1531.40	93.01	Initial Hydro-static
1	77.78	93.09	Open To Flow (1)
32	65.67	93.49	Shut-In(1)
79	401.08	94.88	End Shut-In(1)
80	68.33	94.85	Open To Flow (2)
118	71.65	96.02	Shut-In(2)
196	427.06	98.19	End Shut-In(2)
197	1475.84	98.98	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
30.00	mud	0.42
0.00	Gas in pipe	0.00

Gas Rates

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



DRILL STEM TEST REPORT

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

16-17s-11w Barton
Gibber #1
 Job Ticket: 19138 **DST#: 1**
 Test Start: 2014.02.25 @ 08:02:00

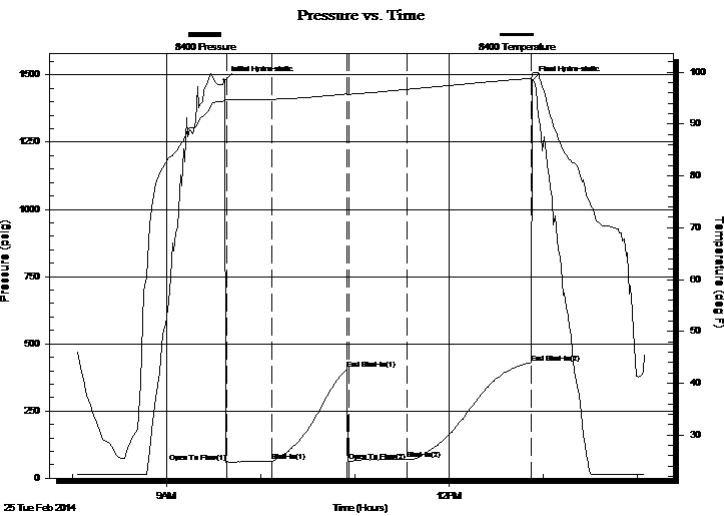
GENERAL INFORMATION:

Formation: **C zone**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 09:37:30
 Time Test Ended: 14:04:00
Interval: 2993.00 ft (KB) To 3060.00 ft (KB) (TVD)
 Total Depth: 3060.00 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-
 Reference Elevations: 1827.00 ft (KB)
 1820.00 ft (CF)
 KB to GR/CF: 7.00 ft

Serial #: 8400

Press@RunDepth: 430.00 psig @ ft (KB) Capacity: 5000.00 psig
 Start Date: 2014.02.25 End Date: 2014.02.25 Last Calib.: 2014.02.25
 Start Time: 08:02:00 End Time: 14:04:30 Time On Btm: 2014.02.25 @ 09:36:30
 Time Off Btm: 2014.02.25 @ 12:53:00

TEST COMMENT: 1st Opening 30 Minutes-Fair blow built 10 inches into bucket w ater in 30 minutes
 1st Shut-in 45 Minutes-No blow back
 2nd Opening 45 Minutes-Fair blow built 10 inches into bucket in 10 minutes
 2nd Shut-in 60 Minutes-No blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1480.32	94.45	Initial Hydro-static
2	60.80	94.67	Open To Flow (1)
30	63.70	94.77	Shut-In(1)
79	407.48	95.83	End Shut-In(1)
80	63.21	95.73	Open To Flow (2)
117	70.72	96.67	Shut-In(2)
196	430.00	98.81	End Shut-In(2)
197	1478.42	99.68	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
30.00	mud	0.42
0.00	Gas in pipe	0.00

Gas Rates

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



DRILL STEM TEST REPORT

TOOL DIAGRAM

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

16-17s-11w Barton
Gibber #1
 Job Ticket: 19138 **DST#: 1**
 Test Start: 2014.02.25 @ 08:02:00

Tool Information

Drill Pipe:	Length: 3005.00 ft	Diameter: 3.80 inches	Volume: 42.15 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: 55000.00 lb
			<u>Total Volume: 42.15 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	32.00 ft			String Weight: Initial 47000.00 lb
Depth to Top Packer:	2993.00 ft			Final 47000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	67.00 ft			
Tool Length:	87.00 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			2978.00	
Hydraulic tool	5.00			2983.00	
Packer	5.00			2988.00	20.00 Bottom Of Top Packer
Packer	5.00			2993.00	
Anchor	3.00			2996.00	
Change Over Sub	0.50			2996.50	
Drill Pipe	32.00			3028.50	
Change Over Sub	0.50			3029.00	
Recorder	1.00			3030.00	
Recorder	1.00			3031.00	
Anchor	26.00			3057.00	
Bullnose	3.00			3060.00	67.00 Bottom Packers & Anchor

Total Tool Length: 87.00



DRILL STEM TEST REPORT

FLUID SUMMARY

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

16-17s-11w Barton
Gibber #1
 Job Ticket: 19138 **DST#: 1**
 Test Start: 2014.02.25 @ 08:02:00

Mud and Cushion Information

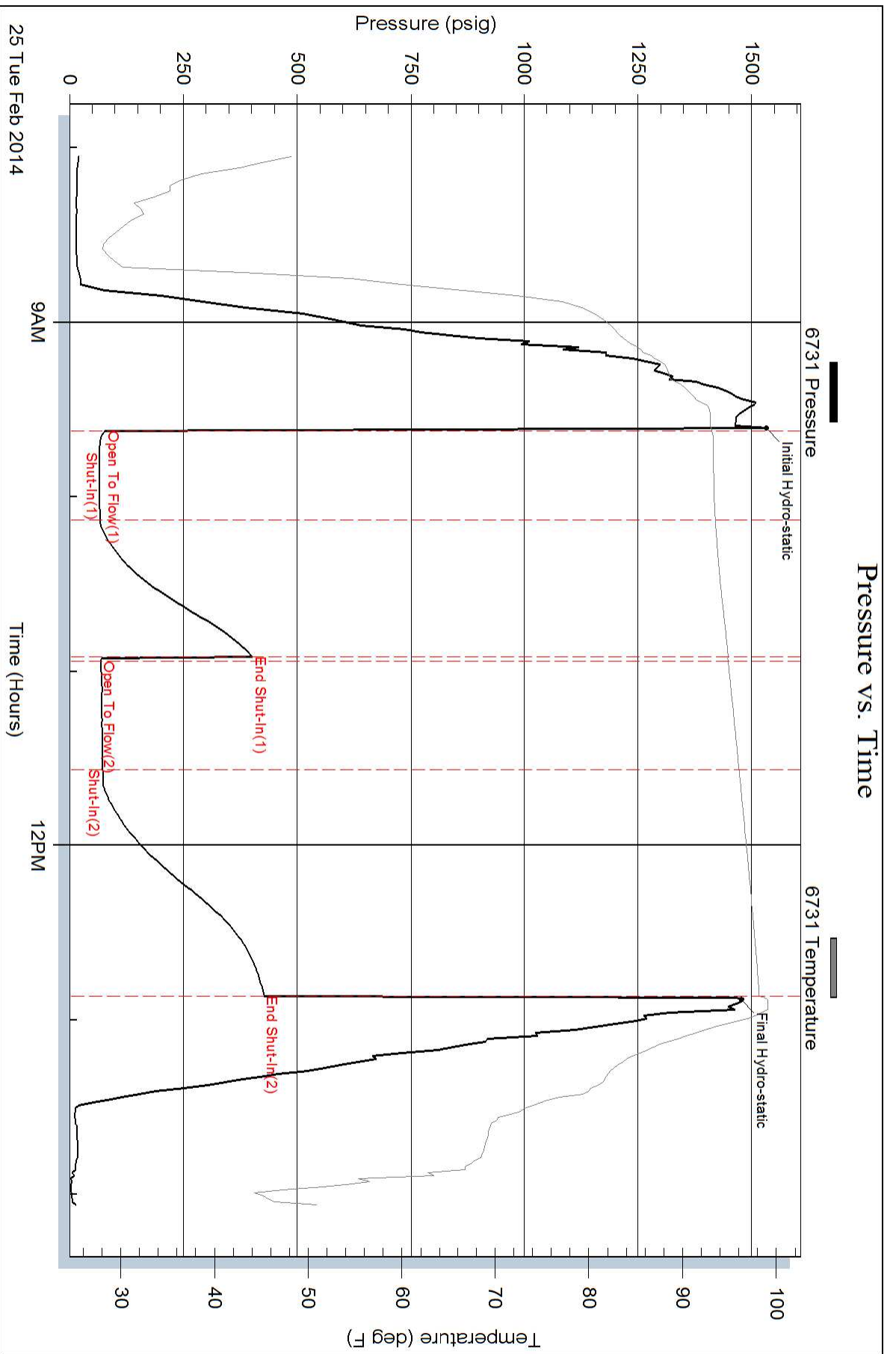
Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	ppm
Viscosity: 69.00 sec/qt	Cushion Volume: bbl		
Water Loss: 7.20 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 1000.00 ppm			
Filter Cake: 1.00 inches			

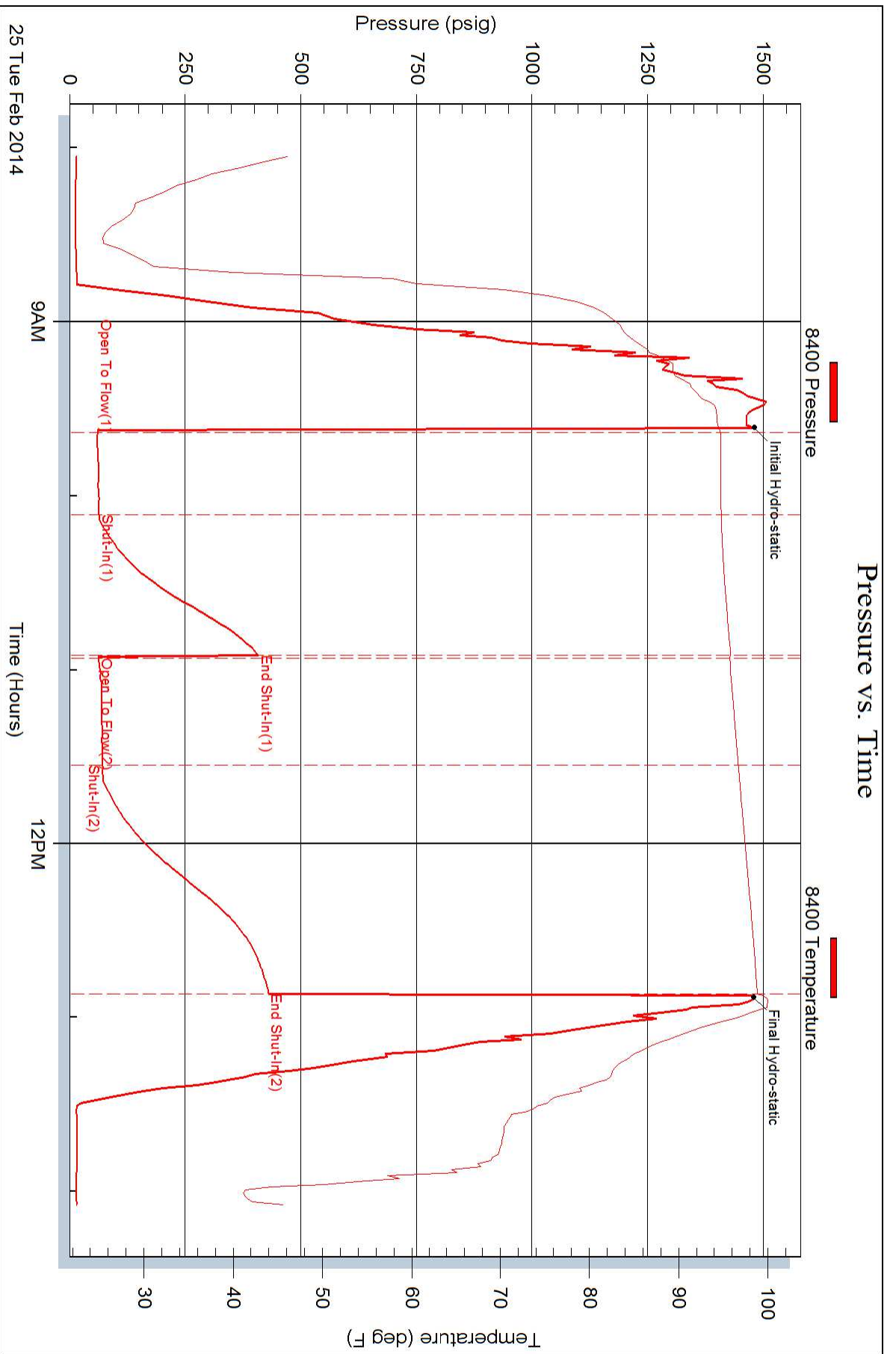
Recovery Information

Recovery Table

Length ft	Description	Volume bbl
30.00	mud	0.421
0.00	Gas in pipe	0.000

Total Length: 30.00 ft Total Volume: 0.421 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: Clint

Gibber #1

16-17s-11w Barton

Start Date: 2014.02.25 @ 20:10:00

End Date: 2014.02.26 @ 02:00:00

Job Ticket #: 19139 DST #: 2

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

Printed: 2014.02.26 @ 04:24:35

RJM Company
16-17s-11w Barton
Gibber #1
DST # 2
F zone
2014.02.25



DRILL STEM TEST REPORT

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

16-17s-11w Barton
Gibber #1
 Job Ticket: 19139 **DST#: 2**
 Test Start: 2014.02.25 @ 20:10:00

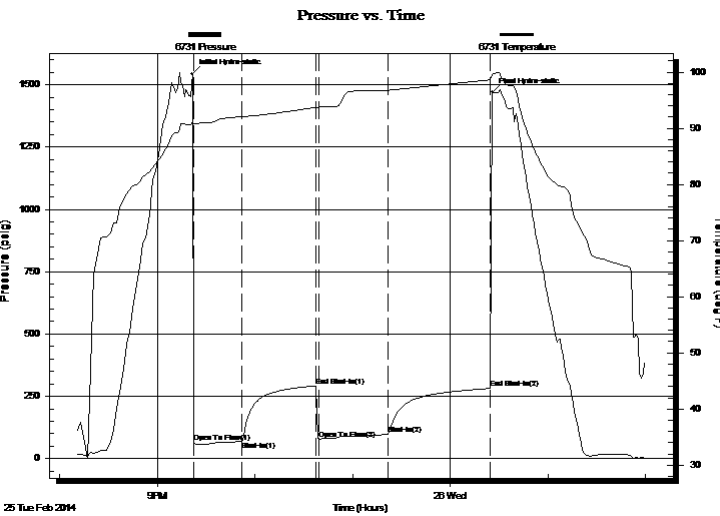
GENERAL INFORMATION:

Formation: **F zone**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 21:22:30
 Time Test Ended: 02:00:00
 Interval: **3056.00 ft (KB) To 3095.00 ft (KB) (TVD)**
 Total Depth: 3095.00 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
 Reference Elevations: 1827.00 ft (KB)
 1820.00 ft (CF)
 KB to GR/CF: 7.00 ft

Serial #: 6731

Press@RunDepth: 96.44 psig @ ft (KB) Capacity: 5000.00 psig
 Start Date: 2014.02.25 End Date: 2014.02.26 Last Calib.: 2014.02.26
 Start Time: 20:10:00 End Time: 02:00:00 Time On Btm: 2014.02.25 @ 21:21:30
 Time Off Btm: 2014.02.26 @ 00:26:00

TEST COMMENT: 1st Opening 30 Minutes-Strong blow built bottom of bucket in 1 minute
 1st Shut-in 45 Minutes-Very weak blow back
 2nd Opening 45 Minutes-Strong blow built bottom of bucket in 1 minute
 2nd Shut-in 60 Minutes-Very weak blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1544.07	91.13	Initial Hydro-static
1	65.00	90.89	Open To Flow (1)
31	69.67	92.04	Shut-In(1)
76	291.50	93.73	End Shut-In(1)
78	78.48	93.77	Open To Flow (2)
120	96.44	96.77	Shut-In(2)
183	281.15	98.61	End Shut-In(2)
185	1469.43	99.57	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
120.00	mud	1.68
0.00	1260 Gas in pipe	0.00

Gas Rates

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



DRILL STEM TEST REPORT

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

16-17s-11w Barton
Gibber #1
 Job Ticket: 19139 **DST#: 2**
 Test Start: 2014.02.25 @ 20:10:00

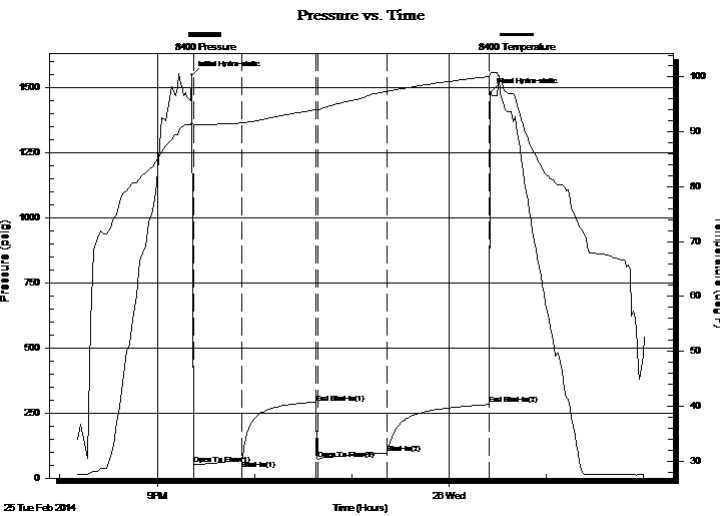
GENERAL INFORMATION:

Formation: **F zone**
 Deviated: No Whipstock: ft (KB)
 Test Type: Conventional Bottom Hole (Initial)
 Time Tool Opened: 21:22:30 Tester: Jared Scheck
 Time Test Ended: 02:00:00 Unit No: 3320-Great Bend
 Interval: **3056.00 ft (KB) To 3095.00 ft (KB) (TVD)** Reference Elevations: 1827.00 ft (KB)
 Total Depth: 3095.00 ft (KB) (TVD) 1820.00 ft (CF)
 Hole Diameter: 7.88 inches Hole Condition: Fair KB to GR/CF: 7.00 ft

Serial #: 8400

Press@RunDepth: 282.29 psig @ ft (KB) Capacity: 5000.00 psig
 Start Date: 2014.02.25 End Date: 2014.02.26 Last Calib.: 2014.02.26
 Start Time: 20:10:00 End Time: 02:00:30 Time On Btm: 2014.02.25 @ 21:21:30
 Time Off Btm: 2014.02.26 @ 00:25:30

TEST COMMENT: 1st Opening 30 Minutes-Strong blow built bottom of bucket in 1 minute
 1st Shut-in 45 Minutes-Very weak blow back
 2nd Opening 45 Minutes-Strong blow built bottom of bucket in 1 minute
 2nd Shut-in 60 Minutes-Very weak blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1546.04	91.68	Initial Hydro-static
1	53.45	91.38	Open To Flow (1)
31	69.24	91.62	Shut-In(1)
77	286.53	94.04	End Shut-In(1)
78	72.42	94.01	Open To Flow (2)
120	96.88	97.34	Shut-In(2)
183	282.29	100.08	End Shut-In(2)
184	1477.93	100.67	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
120.00	mud	1.68
0.00	1260 Gas in pipe	0.00

Gas Rates

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



DRILL STEM TEST REPORT

TOOL DIAGRAM

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

16-17s-11w Barton
Gibber #1
 Job Ticket: 19139 **DST#: 2**
 Test Start: 2014.02.25 @ 20:10:00

Tool Information

Drill Pipe:	Length: 3066.00 ft	Diameter: 3.80 inches	Volume: 43.01 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:	55000.00 lb
			<u>Total Volume: 43.01 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	30.00 ft			String Weight: Initial	47000.00 lb
Depth to Top Packer:	3056.00 ft			Final	47000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	39.00 ft				
Tool Length:	59.00 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			3041.00	
Hydraulic tool	5.00			3046.00	
Packer	5.00			3051.00	20.00 Bottom Of Top Packer
Packer	5.00			3056.00	
Recorder	1.00			3057.00	
Recorder	1.00			3058.00	
Anchor	34.00			3092.00	
Bullnose	3.00			3095.00	39.00 Bottom Packers & Anchor

Total Tool Length: 59.00



DRILL STEM TEST REPORT

FLUID SUMMARY

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

16-17s-11w Barton
Gibber #1
 Job Ticket: 19139 **DST#: 2**
 Test Start: 2014.02.25 @ 20:10:00

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: 8.00 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 7800.00 ppm			
Filter Cake: 1.00 inches			

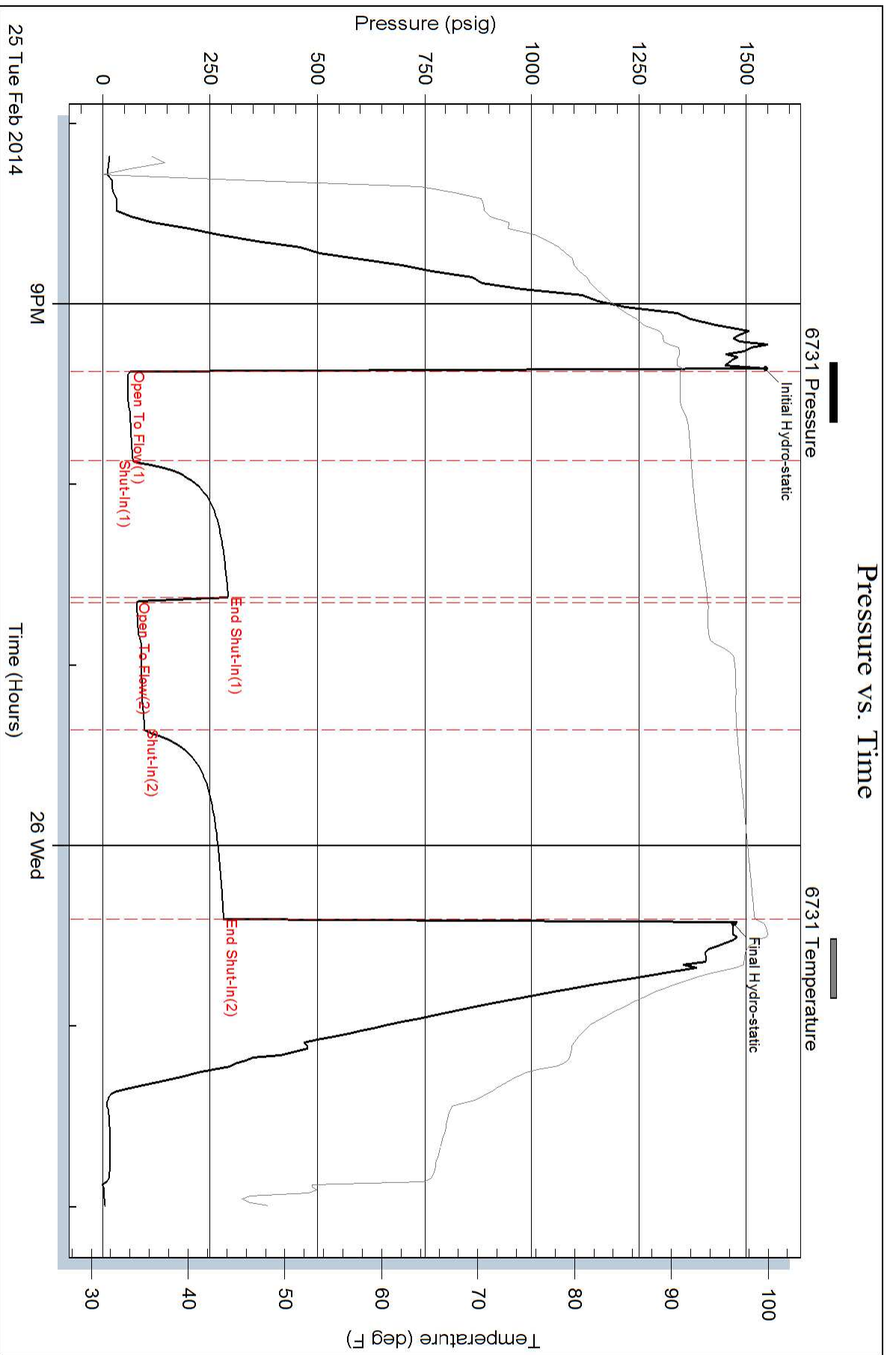
Recovery Information

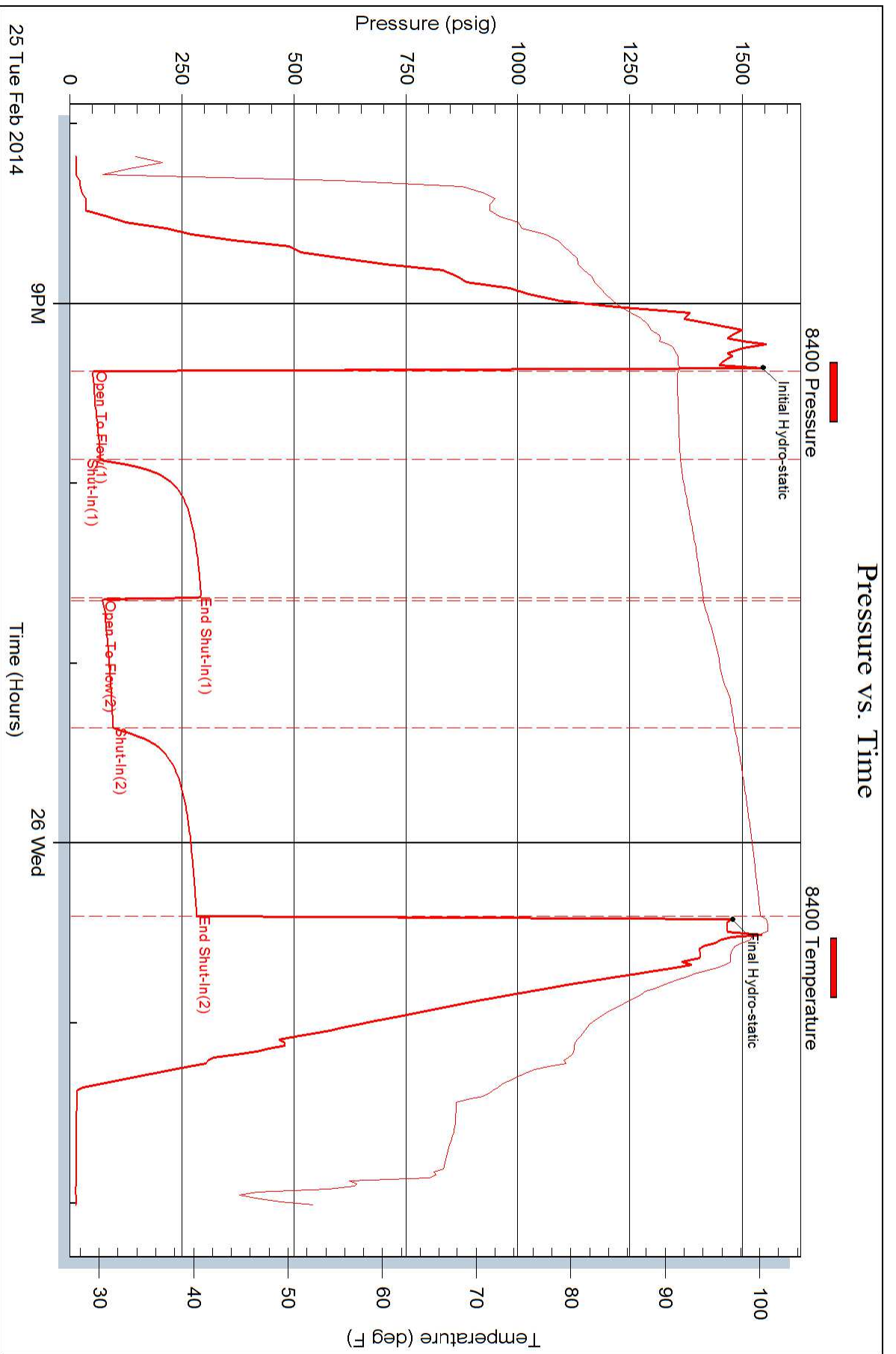
Recovery Table

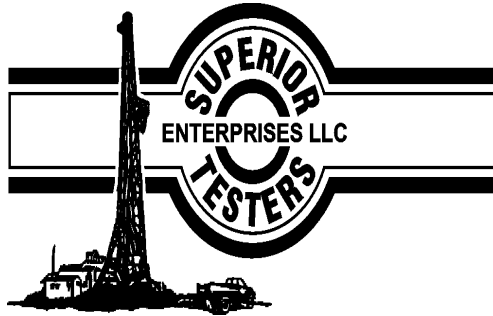
Length ft	Description	Volume bbl
120.00	mud	1.683
0.00	1260 Gas in pipe	0.000

Total Length: 120.00 ft Total Volume: 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: Clint

Gibber #1

16-17s-11w Barton

Start Date: 2014.02.26 @ 17:15:00

End Date: 2014.02.26 @ 22:58:00

Job Ticket #: 19140 DST #: 3

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

Printed: 2014.02.26 @ 23:21:06



DRILL STEM TEST REPORT

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

16-17s-11w Barton
Gibber #1
 Job Ticket: 19140 **DST#: 3**
 Test Start: 2014.02.26 @ 17:15:00

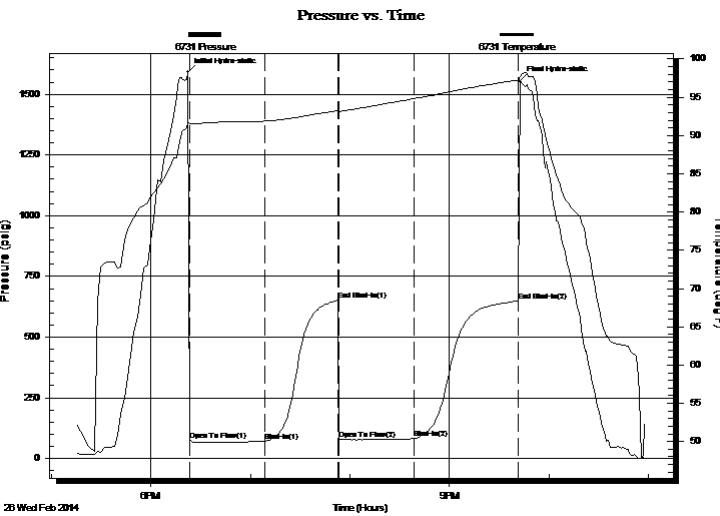
GENERAL INFORMATION:

Formation: **HI zones**
 Deviated: No Whipstock: ft (KB)
 Test Type: Conventional Bottom Hole (Initial)
 Time Tool Opened: 18:23:30 Tester: Jared Scheck
 Time Test Ended: 22:58:00 Unit No: 3320-Great Bend-70
 Interval: **3172.00 ft (KB) To 3240.00 ft (KB) (TVD)** Reference Elevations: 1827.00 ft (KB)
 Total Depth: 3240.00 ft (KB) (TVD) 1820.00 ft (CF)
 Hole Diameter: 7.88 inches Hole Condition: Fair KB to GR/CF: 7.00 ft

Serial #: 6731

Press@RunDepth: 80.95 psig @ ft (KB) Capacity: 5000.00 psig
 Start Date: 2014.02.26 End Date: 2014.02.26 Last Calib.: 2014.02.26
 Start Time: 17:15:00 End Time: 22:58:00 Time On Btm: 2014.02.26 @ 18:22:30
 Time Off Btm: 2014.02.26 @ 21:42:30

TEST COMMENT: 1st opening 45 Minutes-Weak blow built 3 inches into water in 45 minutes
 1st Shut-in 45 Minutes-No blow back
 2nd Opening 45 Minutes-Weak blow built 4 inches into water in 45 minutes
 2nd Shut-in 60 Minutes-No blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1590.09	91.73	Initial Hydro-static
1	74.15	91.53	Open To Flow (1)
46	69.73	91.88	Shut-In(1)
90	650.65	93.25	End Shut-In(1)
91	77.49	93.14	Open To Flow (2)
136	80.95	94.81	Shut-In(2)
199	649.01	97.27	End Shut-In(2)
200	1555.80	97.75	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
50.00	mud spot oil 99% mud 1% oil	0.70

Gas Rates

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



DRILL STEM TEST REPORT

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

16-17s-11w Barton
Gibber #1
 Job Ticket: 19140 **DST#: 3**
 Test Start: 2014.02.26 @ 17:15:00

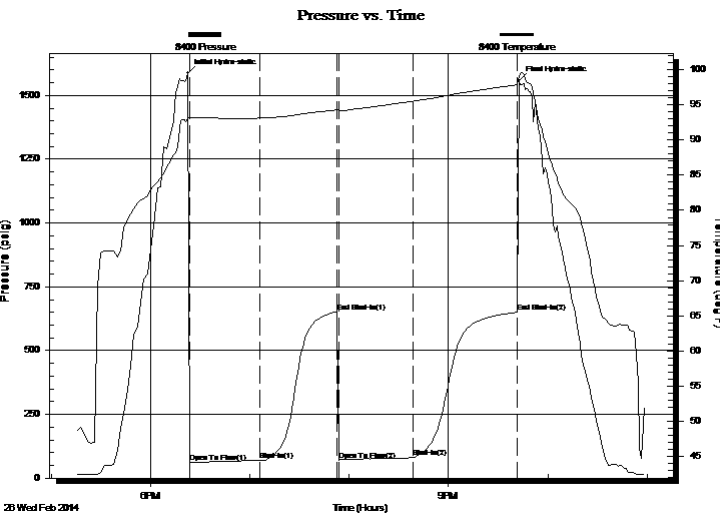
GENERAL INFORMATION:

Formation: **HI zones**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 18:23:30
 Time Test Ended: 22:58:00
 Interval: **3172.00 ft (KB) To 3240.00 ft (KB) (TVD)**
 Total Depth: 3240.00 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-70
 Reference Elevations: 1827.00 ft (KB)
 1820.00 ft (CF)
 KB to GR/CF: 7.00 ft

Serial #: 8400

Press@RunDepth: 649.80 psig @ ft (KB) Capacity: 5000.00 psig
 Start Date: 2014.02.26 End Date: 2014.02.26 Last Calib.: 2014.02.26
 Start Time: 17:15:00 End Time: 22:58:30 Time On Btm: 2014.02.26 @ 18:22:30
 Time Off Btm: 2014.02.26 @ 21:42:30

TEST COMMENT: 1st opening 45 Minutes-Weak blow built 3 inches into water in 45 minutes
 1st Shut-in 45 Minutes-No blow back
 2nd Opening 45 Minutes-Weak blow built 4 inches into water in 45 minutes
 2nd Shut-in 60 Minutes-No blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1587.21	93.09	Initial Hydro-static
1	61.78	93.10	Open To Flow (1)
44	69.58	93.11	Shut-In(1)
90	652.45	94.31	End Shut-In(1)
91	70.69	94.13	Open To Flow (2)
136	79.89	95.51	Shut-In(2)
199	649.80	97.84	End Shut-In(2)
200	1558.40	98.97	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
50.00	mud spot oil 99% mud 1% oil	0.70

Gas Rates

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



DRILL STEM TEST REPORT

TOOL DIAGRAM

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

16-17s-11w Barton
Gibber #1
 Job Ticket: 19140 **DST#: 3**
 Test Start: 2014.02.26 @ 17:15:00

Tool Information

Drill Pipe:	Length: 3162.00 ft	Diameter: 3.80 inches	Volume: 44.35 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:	60000.00 lb
			<u>Total Volume: 44.35 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	10.00 ft			String Weight: Initial	47000.00 lb
Depth to Top Packer:	3172.00 ft			Final	47000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	68.00 ft				
Tool Length:	88.00 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			3157.00	
Hydraulic tool	5.00			3162.00	
Packer	5.00			3167.00	20.00 Bottom Of Top Packer
Packer	5.00			3172.00	
Recorder	1.00			3173.00	
Change Over Sub	0.50			3173.50	
Drill Pipe	32.00			3205.50	
Change Over Sub	0.50			3206.00	
Recorder	1.00			3207.00	
Anchor	30.00			3237.00	
Bullnose	3.00			3240.00	68.00 Bottom Packers & Anchor

Total Tool Length: 88.00



DRILL STEM TEST REPORT

FLUID SUMMARY

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

16-17s-11w Barton
Gibber #1
 Job Ticket: 19140 **DST#: 3**
 Test Start: 2014.02.26 @ 17:15:00

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: 51.00 sec/qt	Cushion Volume: bbl		
Water Loss: 12.00 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 12000.00 ppm			
Filter Cake: 1.00 inches			

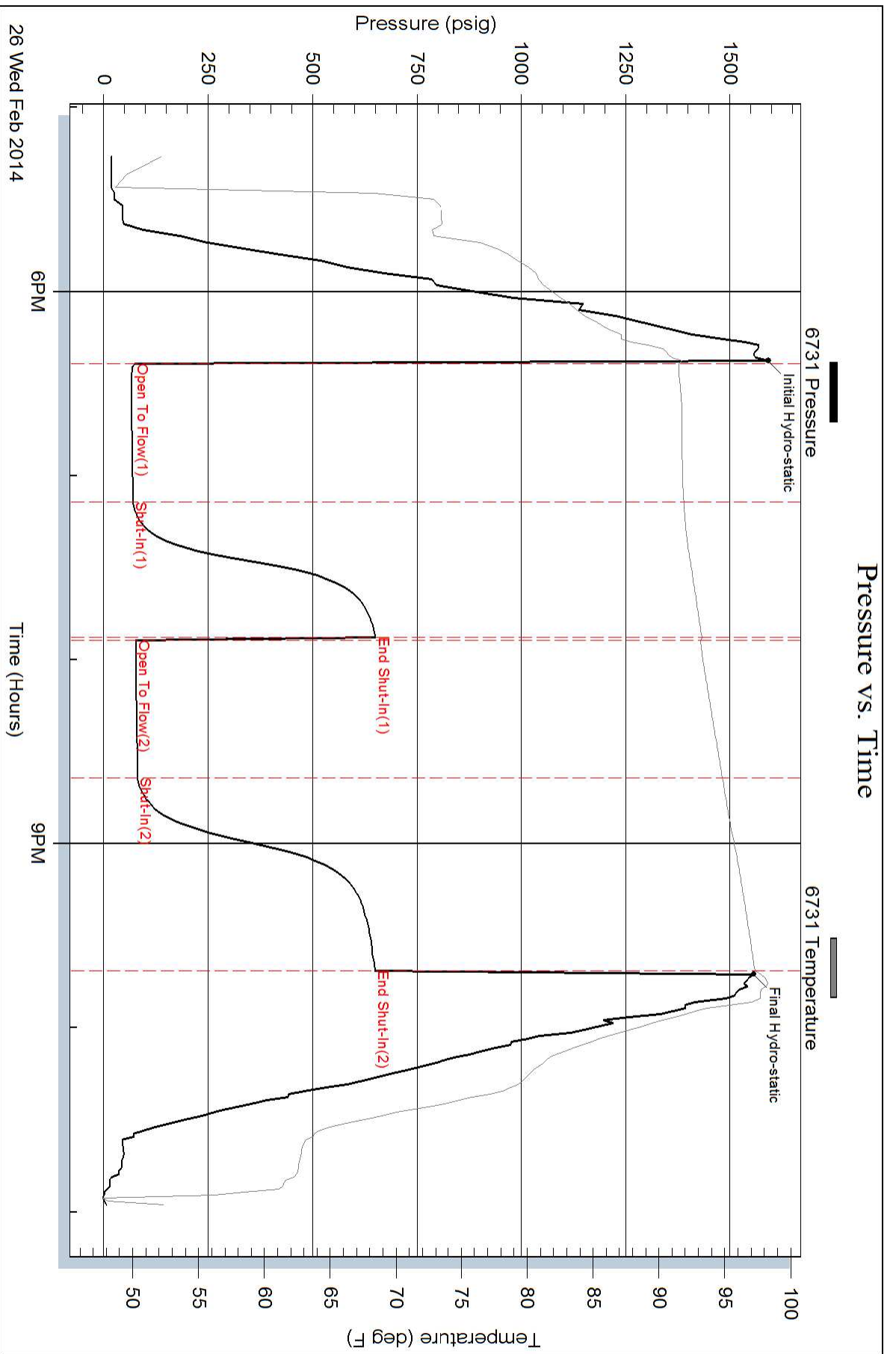
Recovery Information

Recovery Table

Length ft	Description	Volume bbl
50.00	mud spot oil 99% mud 1% oil	0.701

Total Length: 50.00 ft Total Volume: 0.701 bbl
 Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
 Laboratory Name: Laboratory Location:
 Recovery Comments:

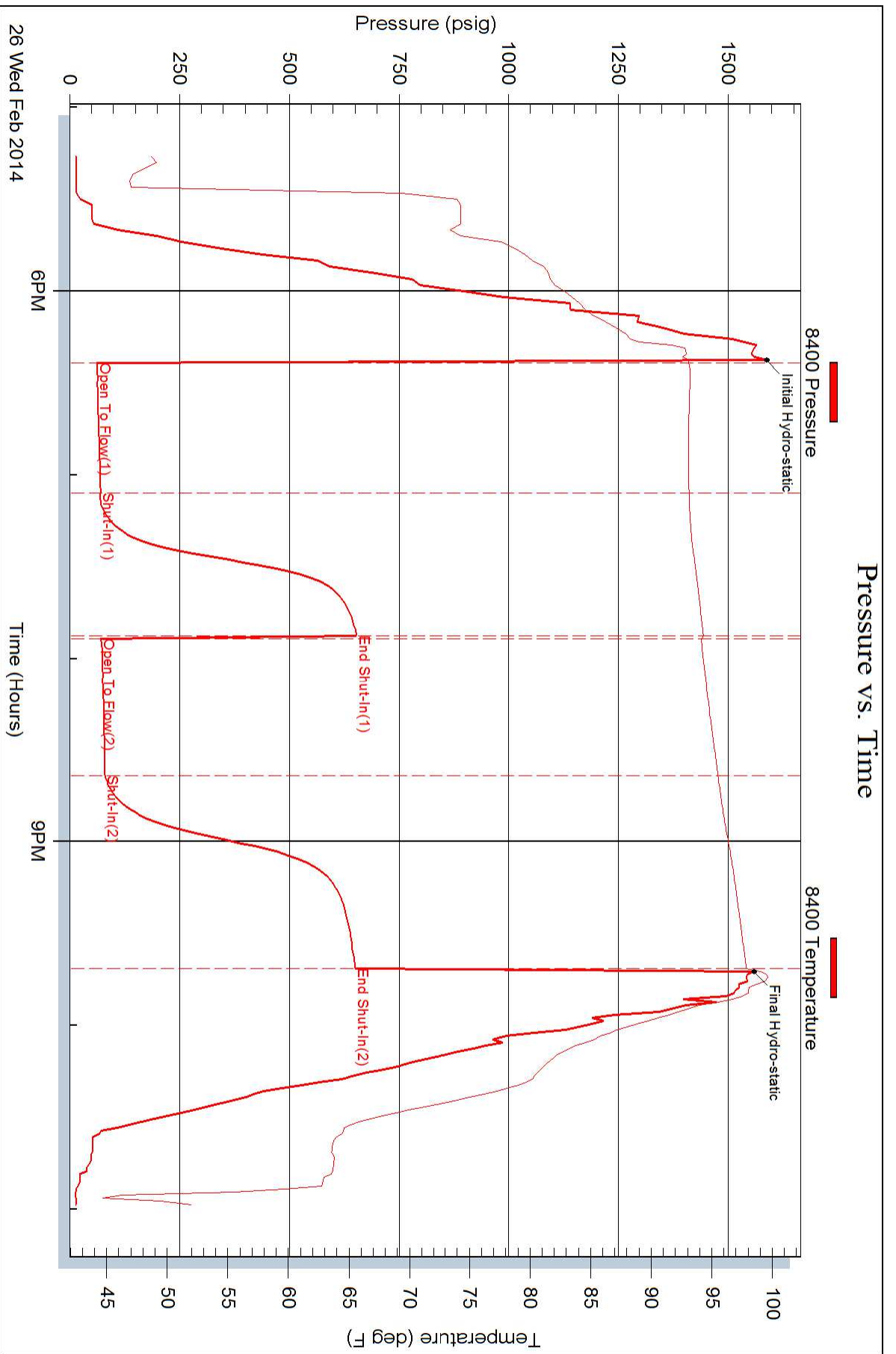
Pressure vs. Time



26 Wed Feb 2014

6PM

9PM





DRILL STEM TEST REPORT

Prepared For: **RJM Company**

Po Box 256 Claflin KS 67525+0256

ATTN: Clint

Gibber #1

16-17s-11w Barton

Start Date: 2014.02.27 @ 07:30:00

End Date: 2014.02.27 @ 15:01:00

Job Ticket #: 19141 DST #: 4

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

Printed: 2014.02.27 @ 15:23:26



DRILL STEM TEST REPORT

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

16-17s-11w Barton
Gibber #1
 Job Ticket: 19141 **DST#: 4**
 Test Start: 2014.02.27 @ 07:30:00

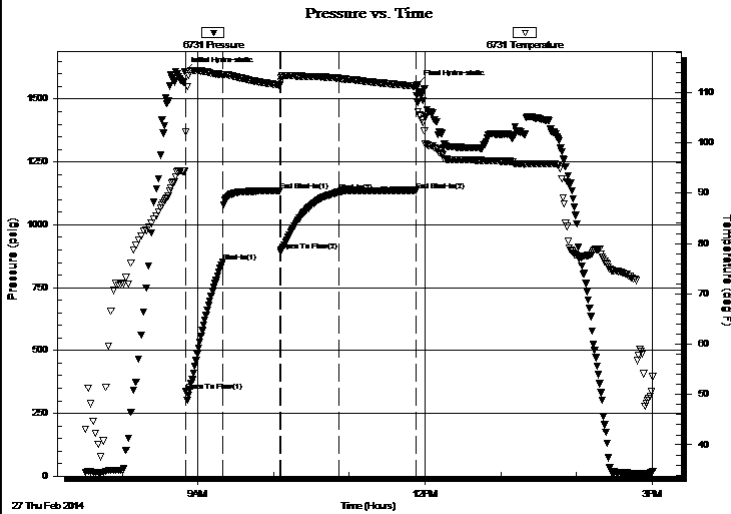
GENERAL INFORMATION:

Formation: **Arbuckle**
 Deviated: No Whipstock: ft (KB)
 Test Type: Conventional Bottom Hole (Initial)
 Time Tool Opened: 08:50:30 Tester: Jared Scheck
 Time Test Ended: 15:01:00 Unit No: 3320-Great Bend -70
 Interval: **3240.00 ft (KB) To 3270.00 ft (KB) (TVD)** Reference Elevations: 1827.00 ft (KB)
 Total Depth: 3270.00 ft (KB) (TVD) 1820.00 ft (CF)
 Hole Diameter: 7.88 inches Hole Condition: Fair KB to GR/CF: 7.00 ft

Serial #: 6731

Press@RunDepth: 1130.31 psig @ ft (KB) Capacity: 5000.00 psig
 Start Date: 2014.02.27 End Date: 2014.02.27 Last Calib.: 2014.02.27
 Start Time: 07:30:00 End Time: 15:01:00 Time On Btm: 2014.02.27 @ 08:49:30
 Time Off Btm: 2014.02.27 @ 11:54:00

TEST COMMENT: 1st Opening 30 Minutes-Strong blow built bottom of bucket in less then 1 minute
 1st Shut-in 45 Minutes-Very weak surface blow
 2nd Opening 45 Minutes-Strong blow built bottom of bucket in less then 1 minute
 2nd Shut-in 60 Minutes-1 1/2 inch blow



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1608.07	94.31	Initial Hydro-static
1	338.19	102.09	Open To Flow (1)
30	852.85	113.54	Shut-In(1)
76	1135.32	111.47	End Shut-In(1)
77	897.49	113.00	Open To Flow (2)
122	1130.31	112.78	Shut-In(2)
184	1136.65	111.26	End Shut-In(2)
185	1556.67	108.23	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
3070.00	Clean Oil	43.06
0.00	Gravity 47	0.00

Gas Rates

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



DRILL STEM TEST REPORT

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

16-17s-11w Barton
Gibber #1
 Job Ticket: 19141 **DST#: 4**
 Test Start: 2014.02.27 @ 07:30:00

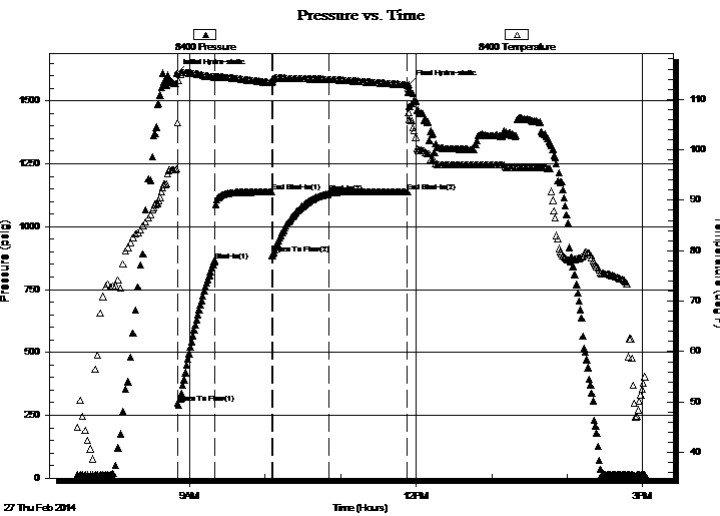
GENERAL INFORMATION:

Formation: **Arbuckle**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 08:50:30
 Time Test Ended: 15:01:00
 Interval: **3240.00 ft (KB) To 3270.00 ft (KB) (TVD)**
 Total Depth: 3270.00 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 -70
 Reference Elevations: 1827.00 ft (KB)
 1820.00 ft (CF)
 KB to GR/CF: 7.00 ft

Serial #: 8400

Press@RunDepth: 1138.30 psig @ ft (KB) Capacity: 5000.00 psig
 Start Date: 2014.02.27 End Date: 2014.02.27 Last Calib.: 2014.02.27
 Start Time: 07:30:00 End Time: 15:01:30 Time On Btm: 2014.02.27 @ 08:49:30
 Time Off Btm: 2014.02.27 @ 11:54:00

TEST COMMENT: 1st Opening 30 Minutes-Strong blow built bottom of bucket in less then 1 minute
 1st Shut-in 45 Minutes-Very weak surface blow
 2nd Opening 45 Minutes-Strong blow built bottom of bucket in less then 1 minute
 2nd Shut-in 60 Minutes-1 1/2 inch blow



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1608.36	96.22	Initial Hydro-static
1	298.17	105.39	Open To Flow (1)
31	865.64	114.40	Shut-In(1)
76	1137.67	113.33	End Shut-In(1)
77	890.63	114.03	Open To Flow (2)
121	1134.46	113.95	Shut-In(2)
184	1138.30	112.85	End Shut-In(2)
185	1565.35	107.33	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
3070.00	Clean Oil	43.06
0.00	Gravity 47	0.00

Gas Rates

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



DRILL STEM TEST REPORT

TOOL DIAGRAM

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

16-17s-11w Barton
Gibber #1
 Job Ticket: 19141 **DST#: 4**
 Test Start: 2014.02.27 @ 07:30:00

Tool Information

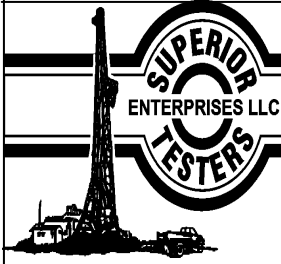
Drill Pipe:	Length: 3250.00 ft	Diameter: 3.80 inches	Volume: 45.59 bbl	Tool Weight:	1000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer:	20000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose:	70000.00 lb
			<u>Total Volume: 45.59 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	30.00 ft			String Weight: Initial	47000.00 lb
Depth to Top Packer:	3240.00 ft			Final	59000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	30.00 ft				
Tool Length:	50.00 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			3225.00	
Hydraulic tool	5.00			3230.00	
Packer	5.00			3235.00	20.00 Bottom Of Top Packer
Packer	5.00			3240.00	
Recorder	0.00			3240.00	
Recorder	0.00			3240.00	
Anchor	27.00			3267.00	
Bullnose	3.00			3270.00	30.00 Bottom Packers & Anchor

Total Tool Length: 50.00



DRILL STEM TEST REPORT

FLUID SUMMARY

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

16-17s-11w Barton
Gibber #1
 Job Ticket: 19141 **DST#: 4**
 Test Start: 2014.02.27 @ 07:30:00

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: 60.00 sec/qt	Cushion Volume: bbl		
Water Loss: 10.80 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 12000.00 ppm			
Filter Cake: 1.00 inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
3070.00	Clean Oil	43.064
0.00	Gravity 47	0.000

Total Length: 3070.00 ft Total Volume: 43.064 bbl
 Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
 Laboratory Name: Laboratory Location:
 Recovery Comments: broke circ sub pin

